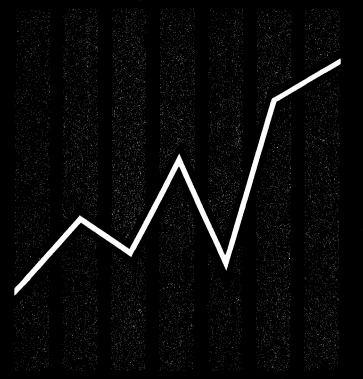
MAY 1984 / VOLUME 64 NUMBER

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SURVEY OF CURRENT BUSINESS



UNITED STATES DEPARTMENT OF COMMERCE / BUREAU OF ECONOMIC ANALYSIS

MAY 1984 / VOLUME 64 NUMBER

SURVEY OF CURRENT BUSINESS

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the BUSINESS SITUATION

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m R}_{
m EVISED}$ (45-day) estimates show that real GNP increased 9 percent at an annual rate in the first quarter of 1984. Preliminary (15-day) estimates had shown an $8\frac{1}{2}$ -percent increase. Inflation, as measured by the increase in the GNP fixed-weighted price index, was revised up slightly to an annual rate of 4.8 percent from 4.7 percent.¹

The \$1¹/₂ billion upward revision in real GNP resulted from partly offsetting revisions in the major components (table 1). The largest upward revision-\$31/2 billion-was in change in business inventories. Book values of manufacturing inventories, both durable and nondurable, were revised up sharply. Personal consumption expenditures were revised up \$3 billion. Estimates of new and used car purchases were raised, as were estimates of expenditures on electricity and gas services. The \$1 billion upward revision in nonresidential fixed investment was more than accounted for by revisions in producers' durable equipment, principally computers and communications equipment. The largest downward revision-\$4 billion-was in net exports. Most of the revision was accounted for by merchandise imports, largely capital goods. A \$1 billion downward revision in government purchases was mainly in Federal defense purchases. Residential investment was revised down \$1/2 billion.

For the most part, the revisions in GNP do not alter the picture of robust economic expansion described in the April "Business Situation." The 9-percent increase in real GNP followed increases of 5 percent in the fourth quarter and $7\frac{1}{2}$ percent in the third.

About two-thirds of the increase in real production in the first quarter took the form of an increase in inventory investment. Inventories accumulated at a rapid pace, following moderate accumulation in the third and fourth quarters. The first-quarter step-up was largely in farm, manufacturing, and retail inventories. A sharp accumulation in farm inventories, after little change, reflected the trans-

fer of crops from the Commodity Credit Corporation (CCC) to farmers under the payment-in-kind (PIK) program, and a step-up in production. In manufacturing, inventories of both durables and nondurables increased after little change in the fourth quarter. An increase in the pace of inventory accumulation in retail trade was more than accounted for by nondurables. The large inventory accumulations led to the first increases in the ratios of constant-dollar inventories to final sales since mid-1982.

Table 1.—Revisions in Selecter	d Component Series of th	e NIPA's, First Quarter of 1984

	Seasonally	adjusted at a	nnual rates	Percent from pr	
	15-day	45-day	Revision	quarter a	
	estimate	estimate	nevision	15-day estimate	45-day estimate
	Billion	s of current	dollars		
GNP	3,541.2	3,541.6	0.4	12.8	12.8
Personal consumption expenditures Nonresidential fixed investment Residential investment Change in business inventories Net exports	$384.2 \\ 148.9 \\ 62.2 \\ -45.2$	2,287.8 384.4 147.3 69.3 -54.6 707.5	$ \begin{array}{r} 7.3 \\ .2 \\ -1.6 \\ 7.1 \\ -9.4 \\ -3.1 \end{array} $	9.2 11.4 32.6 	
Government purchases		2,878.4	-3.1		
Compensation of employees Corporate profits with inventory valuation and capital consumption adjustments	2,113.0	2,378.4	.4	11.4	11.5
Other		487.5	4	41.2	40.7
Personal income	2,924.6	2,925.4	.8	13.2	13.3
	Billions of	constant (19	72) dollars		
GNP	1,604.3	1,606.0	1.7	8.3	8.8
Personal consumption expenditures Nonresidential fixed investment Residential investment	185.9 59.7 26.6	1,049.6 187.0 59.1 30.1	2.8 1.1 6 3.5	5.8 12.1 31.3	
Net exports Government purchases		-10.3 290.7	$-3.8 \\ -1.0$	8	-2.2
	Index r	umbers, 197	2=100 ¹		
GNP implicit price deflator GNP fixed-weighted price index GNP chain price index	230.4	220.52 230.4	21	4.1 4.7 4.5	3.7 4.8 4.6

1. Not at annual rates

^{1.} Quarterly estimates in the national income and product accounts are expressed at seasonally adjusted annual rates, and quarterly changes in them are differences between these rates. Quarter-to-quarter percent changes are annualized.

^{1.} Not at annual rates. Norre.—For the first quarter of 1984, the following revised or additional major source data became available: For personal consumption expenditures, revised retail sales for February and March; for nonresidential fixed investment, manufacturers' shipments of equipment for February (revised) and March, construction put in place for February (revised) and March, and a partial tabulation of business expenditures for plant and equipment for the quarter; for residential investment, construction put in place for February (revised) and March; for change in business inventories, book values for manufacturing and trade for February (revised) and March; for net exports of goods and services, merchandise trade for January and February (revised) and March; for uages and services, merchandise trade for March and local construction put in place for February (revised) and March; for uages and salaries, revised employment, average hourly earnings, and average weekly hours for February and March; for corporate profits, domestic book profits for the quarter; for GNP prices, the Consumer Price Index and the Producer Price Index for March, unit value indexes and export and import price indexes for March, and residential housing prices for the quarter.

Among the components of final sales, personal consumption expenditures again increased strongly. About one-half of the first-quarter increase was accounted for by spending on durables; sales of new domestic cars were up sharply. Nonresidential fixed investment registered another substantial increase. Residential investment bounced back with a strong increase after a pause in the fourth quarter. Net exports declined even more sharply than in the fourth quarter. Exports increased moderately, but imports increased much more. Government purchases declined in the first quarter, as they had in the fourth. The declines were due to operations of the CCC, principally under the PIK program.

Highlights of corporate profits

Corporate profits from current production—profits with inventory valuation adjustment (IVA) and capital consumption adjustment (CCAdj)—increased 91/2 billion to 277/2 billion, in the first quarter of 1984, following a \$20 billion increase in the fourth quarter. Profits have continued to decelerate since a sharp increase of 361/2 billion in the second quarter of 1983. Such a slowing is typical as the business cycle progresses.

First-quarter profits were 52½ percent above their year-earlier level. Most of the increase was in profits of domestic nonfinancial corporations. The increase in these profits reflected both a strong recovery in economic activity and increases in unit profits. The latter stemmed from decreases in unit costs and increases in unit prices.

In the first quarter, profits of domestic nonfinancial corporations more than accounted for the increase in profits; durable manufacturing industries contributed substantially. Widespread increases in profits of durable goods manufacturers more than offset widespread declines in profits of nondurable goods manufacturers. Within durables, motor vehicles profits were up substantially, as output increased. Primary metals profits also increased. Within nondurables, petroleum accounted for most of the decline in profits, as prices for refined products fell.

Adjustments to profits.—Profits before tax—profits without IVA and

CCAdj-increased \$121/2 billion in the first quarter, to \$2401/2 billion. This increase exceeded the increase in profits from current production, which includes the IVA and CCAdj. These adjustments convert inventories and depreciation reported by business to those used in the national income and product accounts. The IVA decreased $6^{1/2}$ billion, to billion, reflecting larger increases in inventory prices in the first quarter than in the fourth. An increase of $31/_2$ billion, to 50 billion, in the CCAdj was largely due to provisions of the Economic Recovery Tax Act of 1981 that allowed the use of shorter service lives for the depreciation of capital.

Government sector

The fiscal position of the government sector in the national income and product accounts improved considerably in the first quarter as the combined deficit of the Federal Government and of State and local governments declined \$22 billion. This improvement was accounted for by a 10-percent decline in the Federal deficit and a 5-percent increase in the State and local surplus. Moreover, the combined deficit, at \$110 billion, was also considerably smaller than the \$143 billion deficit of a year earlier. Over the past year, the Federal Government deficit declined \$121/2 billion and the State and local government surplus increased \$20½ billion.

The Federal Sector.—The Federal Government deficit declined \$19 billion in the first quarter, as receipts increased significantly more than expenditures.

Receipts increased \$30 billion, compared with \$12 billion in the fourth quarter. Over one-half of the increase—\$16½ billion—was in social insurance contributions; a number of legislated changes, primarily under provisions of the Social Security Amendments of 1983 and effective January 1, 1984, contributed to the large increase. Those changes were:

• An increase in the combined social security tax rate, to 13.7 percent from 13.4 percent, contributed \$4½ billion. The increase was for employers only; the rate for employees remained at 6.7 percent.

- An increase in the maximum social security taxable wage base, to \$37,800 from \$35,700, contributed almost \$2 billion.
- An increase in the social security tax rate for the self-employed, to 11.30 percent from 9.35 percent, coupled with the base increase and final payments for 1983, contributed \$1½ billion.
- An increase in the premium for supplemental medical insurance—the voluntary program for the aged and disabled medicare beneficiaries—to \$14.60 from \$12.20 contributed \$1 billion.
- An extension of mandatory social security coverage to new Federal Government civilian employees and to employees of nonprofit institutions contributed almost \$2 billion.
- An increase in the Federal and State unemployment insurance tax rate contributed \$2½ billion.

Among the other categories of receipts, personal tax and nontax receipts increased $7\frac{1}{2}$ billion and corporate profits tax accruals increased $5\frac{1}{2}$ billion. Indirect business tax and nontax accruals were unchanged; an increase in customs duties was offset by a decline in windfall profit taxes.

Expenditures increased \$11 billion, compared with \$15 billion in the fourth quarter. Subsidies less the current surplus of government enter-prises increased \$8½ billion; a \$12½ billion increase in payment-in-kind (PIK) subsidies was partly offset by a \$3 billion decline in the Commodity Credit Corporation (CCC) deficit and a \$1 billion decline in regular Government payments to farmers. National defense purchases of goods and services increased \$7 billion, including $2^{1/2}$ billion for the 4-percent civilian and military pay raise effective January 1, 1984 (including the 0.5 percent retroactive pay raise enacted in mid-April). Grants-in-aid to State and local governments increased \$4 billion, the largest increase since the first quarter of 1978. Among the grant programs, the largest increases were for public assistance ($$2\frac{1}{2}$ billion) and for community development (\$1/2 billion). Net interest paid increased \$3½ billion and transfer payments to persons increased \$21/2 billion. The increase in transfer payments was the net result of increases

in social security benefits (\$3 billion), medicare ($\$1\frac{1}{2}$ billion), and a variety of other programs (\$1 billion), and a decline in unemployment benefits (\$3billion). Within social security benefits, a $3\frac{1}{2}$ -percent cost-of-living increase—over $\$5\frac{1}{2}$ billion—was partly offset by a \$3 billion decline in retroactive benefit payments.

Nondefense purchases and transfer payments to foreigners declined in the first quarter. The decline in nondefense purchases-\$8½ billion-was more than accounted for by a \$10 billion decline in agricultural purchases by the CCC; a $$12\frac{1}{2}$ billion decline due to PIK transfers was partly offset by a $2\frac{1}{2}$ billion increase in regular CCC purchases. Spending also declined over \$1/2 billion each for the National Aeronautics and Space Administration and for purchases for the strategic petroleum reserve. Increases in a variety of other purchases (\$2 billion) and the January pay raise (\$1 billion) partly offset these declines. The decline in foreign transfer payments-\$5 billion-was due to a large fourth-quarter payment to Israel; the payment was the full amount earmarked for Israel in the fiscal year 1984 appropriation.

Cyclically adjusted surplus or deficit.—When measured using cyclical adjustments based on middle-expansion trend GNP, the Federal fiscal position was essentially unchanged in the first quarter. The cyclically adjusted deficit was \$160 billion, or 4.5 percent of middle-expansion trend GNP (see table 3 on page 10).

The State and local sector.—The State and local government surplus increased \$3 billion, to \$61 billion, as receipts increased more than expenditures. Most of the increase—\$2 billion—was in the surplus of "other" funds, that is, other than social insurance funds. This other funds measure showed a deficit throughout 1982, when it averaged \$2 billion. It swung to surplus in the first quarter of 1983 and since then has increased substantially, from \$5½ billion to \$23 billion. (See "The State and Local Government Fiscal Position: An Alternative Measure" in the March 1984 SURVEY OF CURRENT BUSINESS for discussions of how this surplus came about and of an alternative measure of this sector's fiscal position.)

Receipts increased \$13½ billion, compared with \$11½ billion in the fourth quarter. Indirect business tax and nontax accruals increased \$5 billion; sales taxes accounted for threefifths of the increase, reflecting strong retail sales. Federal grants-in-aid accounted for \$4 billion of the increase. Rising incomes resulted in a \$2½ billion increase in personal tax and nontax receipts and a \$1½ billion increase in corporate profits tax accruals. Contributions for social insurance increased \$½ billion.

Expenditures increased $$10\frac{1}{2}$ billion, slightly less than in the fourth quarter. Purchases of goods and services accounted for most of the increase; all other expenditures, on balance, increased $$\frac{1}{2}$ billion. Within purchases, compensation increased \$5 billion, construction increased \$2 billion, and all other purchases increased \$3 billion.

SURVEY OF CURRENT BUSINESS

Selected National Income and Product Accounts Tables

		ised, except for corporate profits and related items, which are preliminary.
The abbreviations used in the tables are:	CCAdj	Capital consumption adjustment
	IVA	Inventory valuation adjustment
	NIPA's	National income and product accounts
	р	Preliminary
	r	Revised

The NIPA estimates for 1929-76 are in *The National Income and Product Accounts of the United States, 1929-76: Statistical Tables* (Stock No. 003-010-00101-1, price \$10.00). Estimates for 1977-79 and corrections for earlier years are in the July 1982 SURVEY; estimates for 1980-82 and corrections for earlier years are in the July 1983 SURVEY. Summary NIPA Series, 1950-82, are in the October 1983 SURVEY. These publications are available from the Superintendent of Documents and Commerce Department District Offices; see addresses inside front cover.

Table 1.1-1.2.—Gross National Product in Current and Constant Dollars

		Billions of dollars									Bil	lions of 1	972 dolla	ars		
				Seasonal	y adjuste	ed at ann	ual rates	3				Seasonal	ly adjust	ed at ann	ual rates	3
	1982	1983	1982		19	83		1984	1982	1983	1982		19	83		1984
			IV	I	п	III	IV	I '			IV	I	11	m	IV	1 '
Gross national product	3,073.0	3,310.5	3,109.6	3,171.5	3,272.0	3,362.2	3,436.2	3,541.6	1,485.4	1,535.3	1,480.7	1,490.1	1,525.1	1,553.4	1,572.5	1,606.0
Personal consumption expenditures	1,991.9	2,158.0	2,046.9	2,073.0	2,147.0	2,181.1	2,230.9	2,287.8	970.2	1,011.4	979.6	986.7	1,010.6	1,016.0	1,032.2	1,049.6
Durable goods Nondurable goods Services	244.5 761.0 986.4	761.0 804.1 773.0 777.1 799.6 814.8 825.0 843.3 364.2 376.1 366.0 368.9										156.5 374.7 479.4	157.9 378.1 480.1	$165.2 \\ 382.5 \\ 484.4$	$\begin{array}{c} 173.9 \\ 387.4 \\ 488.3 \end{array}$	
Gross private domestic investment	414.5 471.9 377.4 404.1 450.1 501.1 532.5 600.9 194.5 219.0 178.4 190.0 210.0 230.7 2										245.2	276.1				
Fixed investment. Nonresidential. Structures. Producers' durable equipment. Residential Nonfarm structures. Farm structures. Producers' durable equipment. Change in business inventories. Nonfarm. Farm	141.9 206.4 90.8 86.0 1.5	$\begin{array}{c} 478.4\\ 348.4\\ 131.1\\ 217.2\\ 130.0\\ 124.9\\ 1.5\\ 3.6\\ -6.4\\ -2.8\\ -3.7\end{array}$	$\begin{array}{c} 433.8\\ 337.0\\ 138.6\\ 198.4\\ 91.2\\ 2.3\\ 3.3\\ -56.4\\ -53.7\\ -2.7\end{array}$	$\begin{array}{r} 443.5\\ 332.1\\ 132.9\\ 199.3\\ 111.3\\ 106.7\\ 1.3\\ 3.4\\ -39.4\\ -39.0\\4\end{array}$	$\begin{array}{c} 464.6\\ 336.3\\ 127.4\\ 208.8\\ 128.4\\ 123.3\\ 1.5\\ 3.5\\ -14.5\\ -10.3\\ -4.2\end{array}$	$\begin{array}{c} 492.5\\ 351.0\\ 130.9\\ 220.2\\ 141.5\\ 136.3\\ 1.6\\ 3.6\\ 8.5\\ 18.4\\ -9.9\end{array}$	512.8 374.0 133.3 240.7 138.8 133.5 1.6 3.7 19.6 19.7 1	$\begin{array}{c} 531.6\\ 384.4\\ 139.5\\ 244.9\\ 147.3\\ 142.1\\ 1.3\\ 3.8\\ 69.3\\ 48.2\\ 21.1\end{array}$	$\begin{array}{c} 203.9\\ 166.1\\ 53.4\\ 112.7\\ 37.8\\ 35.2\\ .6\\ 1.9\\ -9.4\\ -8.6\\8\end{array}$	$ \begin{array}{c c} 221.1 \\ 168.4 \\ 49.7 \\ 118.8 \\ 52.7 \\ 50.0 \\ .6 \\ 2.1 \\ -2.1 \\2 \\ -1.9 \end{array} $	$ \begin{array}{c} 201.1 \\ 160.5 \\ 52.2 \\ 108.3 \\ 40.6 \\ 37.8 \\ .9 \\ 1.9 \\ -22.7 \\ -21.1 \\ -1.6 \end{array} $	$ \begin{array}{c} 205.4 \\ 159.9 \\ 50.3 \\ 109.6 \\ 45.5 \\ 43.0 \\ .5 \\ 2.0 \\ -15.4 \\ -15.1 \\3 \end{array} $	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c} 227.0 \\ 170.1 \\ 49.6 \\ 120.5 \\ 56.8 \\ 54.1 \\ .6 \\ 2.1 \\ 3.8 \\ 8.8 \\ -5.0 \end{array}$	$\begin{array}{c} 236.5\\ 180.7\\ 50.4\\ 130.3\\ 55.8\\ 53.1\\ .6\\ 2.1\\ 8.7\\ 8.8\\1\end{array}$	246.1 187.0 53.0 134.0 59.1 56.4 .5 2.2 30.1 21.5 8.6
Net exports of goods and services	17.4	-9.0	5.6	17.0	-8.5	- 18.3	- 26.1	-54.6	28.9	11.8	23.0	20.5	12.3	11.4	2.8	-10.3
Exports Imports	347.6 330.2	335.4 344.4	321.6 316.1	326.9 309.9	327.1 335.6	341.1 359.4	346.5 372.6	355.8 410.4	147.3 118.4	138.7 126.9	136.5 113.5	137.3 116.8	136.2 123.9	140.7 129.2	140.6 137.8	$143.1 \\ 153.5$
Government purchases of goods and services	649.2	689.5	679.7	677.4	683.4	698.3	699.0	707.5	291.8	293.1	299.7	292.9	292.1	295.2	292.3	290.7
Federal National defense Nondefense State and local	258.7 179.4 79.3 390.5	274.8 200.3 74.5 414.7	279.2 190.8 88.5 400.5	273.5 194.4 79.1 404.0	273.7 199.4 74.3 409.7	278.1 201.2 76.9 420.2	274.1 206.3 67.8 424.9	272.4 213.2 59.2 435.1	116.6 78.8 37.8 175.2	117.8 84.3 33.6 175.3	124.4 81.4 43.0 175.2	118.4 82.7 35.7 174.5	117.6 84.2 33.4 174.5	118.9 84.2 34.7 176.3	116.4 85.8 30.5 175.9	113.6 87.0 26.6 177.0

Table 1.3-1.4.—Gross National Product by Major Type of Product in Current and Constant Dollars

								_								
Gross national product	3,073.0	3,310.5	3,109.6	3,171.5	3,272.0	3,362.2	3,436.2	3,541.6	1,485.4	1,535.3	1,480.7	1,490.1	1,525.1	1,553.4	1,572.5	1,606.0
Final sales Change in business inventories	$3,097.5 \\ -24.5$	$3,316.9 \\ -6.4$	$3,165.9 \\ -56.4$	$3,210.9 \\ -39.4$	$3,\!286.6 \\ -14.5$	3,353.7 8.5	3,416.6 19.6	3,472.3 69.3	1,494.8 -9.4	$1,537.4 \\ -2.1$	$1,503.4 \\ -22.7$	1,505.5 -15.4	$1,530.5 \\ -5.4$	1,549.7 3.8	1,563.7 8.7	$1,575.9 \\ 30.1$
Goods	1,208.9	1,366.5	1,264.8	1,292.2	1,346.8	1,388.9	1,438.1	1,496.3	661.6	688.6	652.1	656.9	681.8	699.0	716.8	741.7
Final sales Change in business inventories		$1,373.0 \\ -6.4$	$1,321.2 \\ -56.4$	$1,331.6 \\ -39.4$	$1,361.3 \\ -14.5$	1,380.4 8.5	1,418.5 19.6	1,427.0 69.3	$671.0 \\ -9.4$	$690.7 \\ -2.1$	$674.8 \\ -22.7$	672.3 15.4	687.2 5.4	695.3 3.8	708.0 8.7	711.7 30.1
Durable goods Final sales. Change in business inventories. Nondurable goods. Final sales. Change in business inventories.	516.3 15.5 780.1 789.1	548.7 552.6 -3.9 817.8 820.3 -2.5	$\begin{array}{r} 474.0\\519.0\\-45.0\\790.8\\802.2\\-11.4\end{array}$	$\begin{array}{r} 482.7\\ 520.9\\ -38.2\\ 809.5\\ 810.6\\ -1.2\end{array}$	536.8 545.7 -8.9 810.0 815.7 -5.7	568.9 555.9 13.1 820.0 824.5 -4.5	606.4 588.1 18.3 831.8 830.4 1.4	612.9 593.3 19.6 883.3 833.7 49.7	269.6 276.1 -6.5 392.0 394.9 -2.9	$\begin{array}{c c} 291.4 \\ 292.7 \\ -1.3 \\ 397.3 \\ 398.0 \\8 \end{array}$	$\begin{array}{r} 256.4 \\ 275.3 \\ -18.9 \\ 395.6 \\ 399.4 \\ -3.8 \end{array}$	261.3 277.0 15.7 395.6 395.2 .3	$\begin{array}{c c} 287.4 \\ 291.1 \\ -3.7 \\ 394.5 \\ 396.1 \\ -1.7 \end{array}$	$\begin{array}{r} 299.9\\ 294.1\\ 5.8\\ 399.2\\ 401.2\\ -2.0\end{array}$	316.9 308.4 8.5 399.9 399.6 .3	321.5 313.1 8.4 420.2 398.6 21.7
Services Structures		1,635.6 308.4	1,560.5 284.3	1,588.4 290.9	1,623.4 301.9	1,651.0 322.3	1,679.6 318.5	1,710.7 334.6	712.2 111.6	724.5 122.2	715.0 113.6	717.8 115.4	723.0 120.3	727.0 127.3	730.0 125.7	732.4 131.8
Addenda: Gross domestic purchases ¹ Final sales to domestic purchasers ¹		3,319.5 3,325.9	3,104.0 3,160.4	3,154.6 3,193.9	3,280.5 3,295.0	3,380.5 3,371.9	3,462.3 3,442.7	3,596.2 3,526.9	1,456.5 1,465.9	1,523.5 1,525.6	1,457.7 1,480.4	1,469.6 1,485.0	1,512.8 1,518.3	1,542.0 1,538.2	1,569.7 1,561.0	1,616.4 1,586.3

1. Gross domestic purchases equals GNP less exports plus imports; final sales to domestic purchasers equals final sales less exports plus imports.

Table 1.5-1.6.—Gross National Product by Sector in Current and Constant Dollars

		1													,,	<u> </u>
Gross national product	3,073.0	3,310.5	3,109.6	3,171.5	3,272.0	3,362.2	3,436.2	3,541.6	1,485.4	1,535.3	1,480.7	1,490.1	1,525.1	1,553.4	1,572.5	1,606.0
Gross domestic product	3,025.7	3.264.8	3.063.5	3.127.2	3.227.9	3.314.1	3.389.9	3.496.9	1.462.3	1.514.0	1.458.6	1.469.2	1.504.4	1.531.1	1.551.2	1.585.7
		2,803.3		2.675.5	2,769.8	2.849.8	2,918.3	3.015.7	1.259.6	1.310.4	1.255.9	1.266.1	1.301.2	1,327.5	1.346.9	1,381.4
Nonfarm	2.520.0	2,734.7	2.539.1	2.601.8	2,700.5		2.857.5		1.220.4	1.274.7	1,213.2	1.227.5	1.265.1	1,290.9	1,315.2	1,348.3
Nonfarm less housing	2,252.6	2,441.9	2.261.0	2,317.9	2,411.0	2,483.3	2.555.4	2,637.7	1,078.3	1,127.0	1,068.9	1,081.9	1,118.2	1.142.6	1,165.4	1,197.0
Housing		292.8	278.1	284.0	289.6	295.7	302.1	308.1	142.1	147.7	144.3	145.6	146.9	148.3	149.8	151.4
Farm	74.1	70.8	75.8	74.9	72.7	68.3	67.4	80.3	39.0	36.8	40.6	39.2	37.7	35.5	34.9	37.8
Statistical discrepancy	.5	-2.3	4.2	-1.2	-3.5	2.5	-6.8	-10.4	.2	-1.1	2.0	6	-1.6	1.1	-3.2	-4.7
Households and institutions	107.0	114.9	110.8	112.2	114.1	115.6	117.8	118.4	46.7	47.5	46.9	47.1	47.3	47.6	48.0	48.0
Private households	7.6	8.2	7.8	8.0	8.1	8.2	8.4	8.5	. 3.3	3.5	3.3	3.4	3.4	3.5	3.5	3.6
Nonprofit institutions	99.4	106.7	102.9	104.2	106.0	107.4	109.4	109.8	43.4	44.0	43.5	43.7	43.9	44.1	44.4	44.4
Government	324.1	346.6	333.7	339.5	344.1	348.8	353.9	362.8	156.1	156.1	155.8	155.9	156.0	156.0	156.3	156.3
Federal	101.1	106.1	104.2	105.6	106.0	106.2	106.6	110.4	50.5	50.8	50.7	50.8	50.8	50.8	50.8	50.9
State and local	223.0	240.5	229.5	233.8	238.1	242.6	247.2	252.3	105.6	105.2	105.1	105.1	105.1	105.2	105.4	105.5
Rest of the world	47.3	45.7	46.0	44.3	44.1	48.1	46.3	44.7	23.1	21.3	22.1	21.0	20.7	22.3	21.3	20.3
Addendum:			ł							1						1
Gross domestic business product less housing	2,318.4								1,116.2							
		I	l					1		L			I			1

SURVEY OF CURRENT BUSINESS

Table 1.13.—Gross Domestic Product of Corporate Business in Current Dollars and Gross Domestic Product of Nonfinancial Corporate Business in Current and Constant Dollars

]	Billions o	of dollars							1	Billions o	of dollars	I		
			s	Seasonall	y adjuste	ed at ann	ual rate	S				s	Seasonall	y adjuste	d at ann	ual rate	8
	1982	1983	1982		19	83		1984		1982	1983	1982 1983				1984	
······································			IV	I	n	Ш	IV	1 '				IV	I	П	ш	IV	I'
Gross domestic prod- uct_of_corporate			1 000 0						Net domestic product Indirect business tax and nontax liability plus	1,566.8	1,703.5	1,559.8	1,602.3	1,675.7	1,738.2	1,797.7	1,851.6
business Capital consumption allow- ances with CCAdj	1,897.1 222.0	2,064.5 231.6	1,903.2 227.7	1,954.2 228.3	2,036.5 229.8	2,102.5 233.1	2,164.7 235.2	2,225.8 238.5	business transfer pay- ments less subsidies Domestic income	179.0 1.387.8	197.2 1.506.3	182.4 1,377.4	186.4 1,415.9	197.6 1.478.1	201.1 1.537.1	203.7 1.594.1	
Net domestic product Indirect business tax and nontax liability plus	1,675.1	1,832.9	1,675.4	1,725.9	1,806.7	1,869.4	1,929.5	1,987.3	Compensation of em- ployees	1,387.8 1,198.6 997.3		1,377.4 1,201.2 998.2	1,415.9 1,222.4 1,012.0	1,253.9 1,037.2	1,337.1 1,283.7 1,060.4	1,394.1 1,316.4 1,086.2	1,355.2
business transfer pay- ments less subsidies	187.6	206.9	191.4	195.6	207.3	211.0	213.7	216.4	Supplements to wages and salaries Corporate profits with	201.3	220.1	203.0	210.4	216.7	223.3	230.2	243.2
Domestic income Compensation of em- ployees	1,487.5 1,282.2	1,626.0 1,363.5	1,484.0 1,289.2	1,530.3	1,599.4 1,347.6	1,658.4 1,379.1	1,715.8 1,413.5	1,770.9 1,455.1	IVA and CCAdj Profits before tax	124.0 131.5	177.8 154.6	114.3 117.9	133.9 119.7	165.7 149.0	194.5 173.8	217.2 176.9	227.4
Wages and salaries Supplements to wages and salaries	1,065.8 216.4	1,126.3 237.1	1,070.3 218.9	1,086.9	1,114.1 233.5	1,138.5 240.5	1,165.7 247.9	1,193.3 261.8	Profits tax liability Profits after tax Dividends	41.2 90.3 57.2	56.2 98.4 64.5	33.6 84.4 59.2	41.8 77.9 63.3	55.0 94.0 65.6	63.9 109.8 65.1	64.2 111.7 64.0	70.7
Corporate profits with IVA and CCAdj	143.0	207.7	137.8	161.6	197.7	225.0	246.5	257.7	Undistributed profits IVA	33.1 8.4	33.9 - 9.2	25.1 -10.3	$14.5 \\ -1.7$	28.4 10.6	44.8	47.7 6.3	
Profits before tax Profits tax liability Profits after tax	152.4 59.2 93.2	186.1 76.9 109.2	143.4 54.0 89.4	149.5 61.5 88.0	182.8 76.0 106.7	205.7 84.9 120.7	206.5 85.3 121.2	$220.8 \\ 92.1 \\ 128.7$	CCAdj Net interest		32.4 59.4	6.7 61.9	15.9 59.7	27.3 58.6	39.0 58.9	47.6 60.5	51.5
Dividends Undistributed	54.4	61.8 47.4	56.7 32.6	60.6 27.4	62.9 43.9	62.3 58.4	61.3 59.9	65.4 63.2				Bíl	lions of	1972 doll	ars		
profits IVA CCAdj Net interest		41.4 - 9.2 30.8 54.8	- 10.3 4.7 57.1	$ \begin{array}{c c} 27.4 \\ -1.7 \\ 13.9 \\ 55.1 \end{array} $	$ \begin{array}{r} 45.9 \\ -10.6 \\ 25.6 \\ 54.0 \\ \end{array} $	$ \begin{array}{r} 58.4 \\ -18.3 \\ 37.6 \\ 54.3 \end{array} $	6.3 6.3 46.2 55.8	$ \begin{array}{r} 65.2 \\ -12.9 \\ 49.8 \\ 58.1 \\ \end{array} $	Gross domestic prod- uct of nonfinancial								
Gross domestic product of finan- cial corporate						0110	0010		corporate business Capital consumption allow-	857.7	895.2	846.4	856.0	885.8	909.4	929.7	951.8
business Gross domestic	120.4	142.8	128.2	136.5	144.1	144.7	145.7	150.1	ances with CCAdj	96.8	100.4	98.2	98.9	99.8	101.1	101.9	103.
product of nonfi- nancial corpo- rate business	1,776.7	1,921.7	1.775.0	1 817 6	1.892.4	1.957.8	2.019.0	2.075.8	Net domestic product Indirect business tax and nontax liability plus business transfer pay-	760.9	794.8	748.2	757.2	786.0	808.3	827.8	848.
Capital consumption allow- ances with CCAdj	210.0	218.2	215.1	215.3	216.7	219.6	2,019.0	2,015.8	ments less subsidies Domestic income	94.2 666.6	98.7 696.1	93.9 654.3	96.4 660.8	97.5 688.4	99.1 709.2	101.7 726.1	

Table 1.11.—National Income by Type of Income

	_							
National income	2,450.4	2,650.2	2,474.0	2,528.5	2,612.8	2,686.9	2,772.4	2,878.4
	-				, ,			
Compensation of employ-								
ees	1,865.7	1,990.2	1,889.0	1,923.7	1,968.7	2,011.8	2,056.6	2,113.4
Wages and salaries	1,568.1	1,664.1	1,586.0	1,610.6	1,647.1	1,681.5	1,717.3	1,756.6
Government and gov-								
ernment enterprises	306.0	325.7	314.5	319.2	323.3	328.4	332.1	339.4
Other	1,262.1	1,338.4	1,271.5	1,291.5	1,323.8	1,353.1	1,385.2	1,417.1
	1,202.1	1,000.4	1,211.0	1,201.0	1,040.0	1,000.1	1,000.2	1,711.1
Supplements to wages	007.0	0001	000.0	010.1	001.0	000.0	000 4	0.000
and salaries	297.6	326.1	302.9	313.1	321.6	330.3	339.4	356.8
Employer contribu-								
tions for social in-								
surance	140.9	152.7	142.5	148.8	151.5	153.9	156.7	167.9
Other labor income	156.6	173.4	160.4	164.3	170.1	176.4	182.7	189.0
other labor medine	100.0	1.0.1	100.1	101.0	110.1		102.1	
Proprietors' income with								
Tit and COAR	100.0	100 -	1100	100 0	107.0	100 7	100.4	169.0
IVA and CCAdj	109.0	128.5	116.2	120.6	127.2	126.7	139.4	
Farm Proprietors' income	21.5	20.9	26.0	22.2	21.0	15.5	25.0	47.9
Proprietors' income	i I							
with IVA	29.9	29.3	34.6	30.6	29.4	23.9	33.2	56.1
CCAdj	-8.4	-8.4	-8.6	-8.4	-8.4		-8.3	-8.2
Nonfarm	87.4	107.6	90.2	98.4	106.2	111.2	114.5	121.2
Proprietors' income	84.2	97.3	86.0	91.0	96.8	100.6	100.9	106.8
IVA	6	8	8	2	-1.1	~-1.5	6	-1.2
		11.1		2				
CCAdj	3.9	11.1	4.9	7.6	10.5	12.2	14.1	15.6
Rental income of persons								
with CCAdj	49.9	54.8	52.3	54.1	54.8	53.9	56.2	57.0
Rental income of per-		1			1			
sons	86.3	93.2	87.4	91.6	92.2	94.0	95.1	96.2
CCAdi	-36.5	-38.5	-35.2	-37.5	-37.4	-40.0	-38.8	- 39.3
~~ 	00.0	00.0	00.	01.0	0	1010	00.0	
Corporate profits with IVA				1				
and CCAdj	164.8	229.1	161.9	181.8	218.2	248.4	268.2	277.5
	104.8	249.1	101.5	101.0	410.4	440.4	400.4	411.0
Corporate profits with		1						
IVA	165.9	198.3	157.2	168.0	192.7	210.8	222.0	227.7
Profits before tax	174.2	207.5	167.5	169.7	203.3	229.1	228.2	240.6
Profits tax liability	59.2	76.9	54.0	61.5	76.0	84.9	85.3	92.1
Profits after tax	115.1	130.6	113.5	108.2	127.2	144.1	142.9	148.5
Dividends		73.3	70.4	71.4	72.0	73.7	75.9	78.3
	00.1	10.0	10.4	(1.4	12.0	10.1	10.0	1 10.0
Undistributed							070	=
profits	46.4	57.3	43.1	36.7	55.2	70.4	67.0	70.2
IVA	-8.4	-9.2	-10.3	-1.7	-10.6	-18.3	-6.3	-12.9
CCAdi	-1.1	30.8	4.7	13.9	25.6	37.6	46.2	49.8
•								
Net interest	261.1	247.5	254.7	248.3	243.8	246.1	251.9	261.5
Addenda:								
	1	1		1		1		
Corporate profits after	1	1	1	1	1	1	1	
tax with IVA and	[1	1		1			
CCAdj	105.6	152.2	107.9	120.3	142.2	163.4	182.9	185.4
		73.3	70.4	71.4	72.0	73.7	75.9	78.5
Dividends	68.7	1 10.0						
Dividends	68.7	10.0	10.4	11.4	12.0	10.1	1 10.0	
Dividends Undistributed profits with IVA and CCAdj	68.7 37.0	78.9	37.5	48.9	70.1	89.7	107.0	107.1

Table 1.7.—Relation of Gross National Product, Net National Product, National Income, and Personal Income

			1	Billions o	of dollars			
			s	easonall	y adjuste	d at ann	ual rates	3
	1982	1983	1982		19			1984
			IV	I	II	ш	IV	I'
Gross national product	3,073.0	3,310.5	3,109.6	3,171.5	3,272.0	3,362.2	3,436.2	3,541.6
Less:								
Capital consumption al- lowances with CCAdj	359.2	377.3	368.3	370.8	373.3	381.7	383.2	388.8
Capital consumption al- lowances Less: CCAdj	$312.6 \\ -46.6$	367.8 - 9.5	329.5 38.8	$341.8 \\ -29.1$	359.0 14.3	$378.5 \\ -3.2$	391.8 8.6	402.0 13.3
Equals: Net national prod-								
uct	2,713.8	2,933.2	2,741.3	2,800.7	2,898.7	2,980.5	3,053.0	3,152.8
Less:								
Indirect business tax and nontax liability	258.3	285.9	264.8	270.6	285.8	291.1	296.0	301.3
Business transfer pay- ments	14.1	15.5	14.7	15.0		15.7	16.1	16.6
Statistical discrepancy Plus: Subsidies less current	.5	-2.3	4.2	-1.2	3.5	2.5	-6.7	-10.4
surplus of government enterprises	9.5	16.1	16.6	12.3	11.8	15.8	24.6	33.1
Equals: National income	2,450.4	2,650.2	2,474.0	2,528.5	2,612.8	2,686.9	2,772.4	2,878.4
Less:	1				1			
Corporate profits with								
IVA and CCAdj Net interest	164.8 261.1	229.1 247.5	161.9 254.7	181.8 248.3	218.2 243.8	248.4 246.1	268.2 251.9	277.5 261.5
Contributions for social								
insurance	253.0	272.3	255.4	265.4	270.1	274.4	279.2	296.6
Wage accruals less dis- bursements	0	4	0	0	-1.3	4	0	.2
Plus:	_							
Government transfer pay- ments to persons	260.4	388.1	384.3	383.6	390.0	386.8	392.0	395.3
Personal interest income		366.3	363.1	357.2	357.1	369.9	381.1	395.8
Personal dividend income		70.5	67.9	68.8	69.3	70.9	72.9	75.1
Business transfer pay-				1.0	150		101	10.
ments	. 14.1	15.5	14.7	15.0	15.3	15.7	16.1	16.0
Equals: Personal income	2.578.6	2.742.1	2.632.0	2.657.7	2.713.6	2.761.9	2.835.2	2.925.

Table 2.1.-Personal Income and Its Disposition

~

			E	Billions o	of dollars	3		
			s	easonall	y adjust	ed at an	nual rat	es
I	1982	1983	1982		19	83		1984
			IV	I	п	ш	IV	I r
Personal income	2,578.6	2,742.1	2,632.0	_ 2,657.7	2,713.6	2,761.9	2,835.2	2,925.4
Wage and salary disburse- ments	1,568.1	1.664.6	1,586.0	1,610.7	1,648.4	1,681.9	1,717.3	1.756.4
Commodity-producing industries	509.2	529.7	499.5	508.6	522.2	537.8	550.0	567.4
Manufacturing Distributive industries	383.8 378.8	402.8 397.2	377.4 383.5	$385.4 \\ 386.4$	397.4 394.3	409.2 398.9	419.0 409.3	432.9 415.1
Service industries	374.1	411.5	388.5	396.4	407.3	416.4	425.8	434.7
Government and govern- ment enterprises	306.0	326.2	314.5	319.2	324.6	328.8	332.1	339.3
Other labor income	156.6	173.4	160.4	164.3	170.1	176.4	182.7	189.0
Proprietors' income with IVA and CCAdj	109.0	128.5	116.2	120.6	127.2	126.7	139.4	169.0
Farm	21.5	20.9	26.0 90.2	22.2	21.0	15.5	25.0	47.9 121.2
Nonfarm	87.4	107.6	90.2	98.4	106.2	111.2	114.5	121.2
Rental income of persons with CCAdj	49.9	54.8	52.3	54.1	54.8	53.9	56.2	57.0
Personal dividend income	66.4	70.5	67.9	68.8	69.3	70.9	72.9	75.1
Personal interest income	366.2	366.3	363.1	357.2	357.1	369.9	381.1	395.8
Transfer payments Old-age, survivors, disabil- ity, and health insurance	374.5	403.6	399.0	398.5	405.3	402.5	408.1	411.8
benefits Government unemployment	204.5	222.8	216.5	217.4	221.1	223.8	228.8	233.5
insurance benefits Veterans benefits	24.8 16.4	25.6 16.7	32.2 16.6	29.0 16.9	30.0 16.6	22.6 16.6	20.7 16.5	$17.5 \\ 16.6$
Government employees re- tirement benefits Other transfer payments	$54.2 \\ 74.6$	58.6 80.0	55.8 77,9	56.6 78.7	58.3 79.3	59.3 80.2	60.1 82.0	61.3 83.0
Other transfer payments Aid to families with de- pendent children Other	13.4 61.2	14.3 65.7	13.5 64.3	14.1 64.5	14.4 64.9	14.3 66.0	14.5 67.5	15.1 67.9
Less: Personal contribu- tions for social insurance.	112.0	119.5	112.9	116.5	118.6	120.5	122.5	128.7
Less: Personal tax and	402.1	406.5	404.1	401.8	412.6	400.1		
nontax payments	402.1	400.9	404.1	401.8	412.0	400.1	411.4	421.4
Equals: Disposable personal income	2,176.5	2,335.6	2,227.8	2,255.9	2,301.0	2,361.7	2,423.9	2,504.0
Less: Personal outlays Personal consumption ex-	2,051.1	2,222.0	2,107.0	2,134.2	2,209.5	2,245.9	2,298.3	2,357.7
penditures	1,991.9	2,158.0	2,046.9	2,073.0	2,147.0	2,181.1	2,230.9	2,287.8
Interest paid by consumers to business	58.1	62.8	59.1	60.2	61.4	63.6	66.0	68.7
Personal transfer payments to foreigners (net)	1.1	1.2	1.0	1.0	1.1	1.2	1.4	1.2
Equals: Personal saving	125.4	113.6	120,8	121.7	91.5	115.8	125.6	146.3
Addenda: Disposable personal							i	
Total, billions of 1972 dol- _ lars	1,060.2	1,094.6	1,066.1	1,073.8	1,083.0	1,100.1	1,121.5	1,148.8
Per capita: Current dollars	9,377	9,969	9,562	9,661	9.834	10,069	10,308	10.627
1972 dollars Population (millions)	4,567 232.1	4,672 234.3	4,576 233.0	4,599 233.5	4,629	4,690 234.6	4,769 235.1	4,875 235.6
Personal saving as percent- age of disposable person- al income	5.8	4.9	5.4	5.4	4.0	4.9	5.2	5.8

Table 2.2-2.3.—Personal Consumption Expenditures by Major Type of	
Product in Current and Constant Dollars	

]	Billions o	of dollars			
			S	Seasonall	y adjuste	d at ann	ual rates	
	1982	1983	1982		19	83		1984
			IV	I	п	ш	IV	I r
Personal consump-								
tion expenditures	1,991.9	2,158.0	2,046.9	2,073.0	2,147.0	2,181.1	2,230.9	2,287.8
Durable goods	244.5	279.4	252.1	258.5	277.7	282.8	298.6	314.9
Motor vehicles and parts Furniture and household	109.9	133.4	116.1	118.4	133.9	135.6	145.6	155.9
equipment Other	93.5 41.1	102.2 43.9	94.9 41.0	97.3 42.9	100.8 43.1	102.9 44.3	$107.7 \\ 45.4$	111.6 47.4
-								
Nondurable goods	761.0	804.1	773.0	777.1	799.6	814.8	825.0	843.3
Food Clothing and shoes	396.9 119.0	422.1 125.6	404.5 119.6	411.7 120.0	419.6 126.4	$426.4 \\ 125.1$	430.6 130.7	440.1 134.1
Gasoline and oil	91.5	90.8	91.1	87.3	90.3	93.1	92.7	92.2
Other nondurable goods Fuel oil and coal	153.5 20.0	165.7 21.1	157.9 20.2	158.1 17.7	163.3 21.2	170.2 23.0	$171.1 \\ 22.3$	176.9 22.1
Other	133.5	144.6	137.7	140.4	142.1	147.2	148.8	154.8
Services	986.4	1,074.5	1,021.8	1,037.4	1,069.7	1,083.5	1,107.3	1,129.6
Housing	334.1	363.6	345.2	352.6	359.5	367.2	375.1	382.6
Household operation	144.3	153.8	147.1	145.9	155.4	155.8 83.3	157.9 84.0	160.8 84.0
Electricity and gas Other	76.3 68.0	81.1 72.7	76.8	74.1 71.8	82.8 72.6	72.5	73.9	76.8
Transportation Other	68.4 439.6	72.8	69.2 460.3	70.1 468.8	70.9 483.9	74.0 486.6	76.1 498.1	76.9 509.3
			Bil	lions of	1972 doll	ars	1	
- .						l		
Personal consump- tion expenditures	970.2	1,011.4	979.6	986.7	1,010.6	1,016.0	1,032.2	1,049.6
Durable goods	139.8	156.3	143.2	145.8	156.5	157.9	165.2	173.9
Motor vehicles and parts Furniture and household	57.4	68.0	60.5	60.9	69.1	69.1	73.0	77.9
equipment Other		64.7 23.7	60.2 22.5	61.7 23.3	63.9 23.4	65.2 23.6	67.9 24.3	70.7 25.3
Nondurable goods	364.2	376.1	366.0	368.9	374.7	378.1	382.5	387.4
Food	184.0	191.0	186.4	188.2	189.4	193.1	193.5	192.6
Clothing and shoes	84.4	87.3	84.5	84.7	88.4	86.1	90.0	92.8
Gasoline and oil		26.3			26.3	26.3	26.2 72.8	27.1
Other nondurable goods Fuel oil and coal	70.2	71.5	70.0		70.7	72.6	4.1	74.9
Other		67.5	66.6			68.3	68.7	70.9
Services	466.2	479.0	470.4	472.0	479.4	480.1	484.4	488.3
Housing	171.3			174.0		177.1	178.8	180.6
Household operation	. 63.5		63.0 23.9		64.2 25.1	64.3 25.4	64.5 25.1	64.8 25.1
Electricity and gas Other			23.9		39.1	25.4	39.4	39.6
Transportation Other	. 31.7	31.6	31.4		31.4 208.2	31.7 207.0	32.0 209.1	32.2 210.7

Table 5.1.—Gross Saving and Investment

]	Billions o	f dollars			
			s	easonall	y adjuste	d at ann	ual rates	3
	1982	1983	1982		19	83		1984
			IV	I	п	ш	IV	I '
Gross saving	405.8	439.6	351.3	398.5	420.6	455.4	484.0	532.2
Gross private saving Personal saving Undistributed corporate profits with IVA and	521.6 125.4	569.9 113.6	526.6 120.8	541.5 121.7	535.0 91.5	587.5 115.8	615.7 125.6	642.2 146.3
CCAdj Undistributed profits IVA CCAdj	37.0 46.4 -8.4 -1.1	78.9 57.3 9.2 30.8	$37.5 \\ 43.1 \\ -10.3 \\ 4.7$	$48.9 \\ 36.7 \\ -1.7 \\ 13.9$	$70.1 \\ 55.2 \\ -10.6 \\ 25.6$	89.7 70.4 -18.3 37.6	$107.0 \\ 67.0 \\ -6.3 \\ 46.2$	107.1 70.2 -12.9 49.8
Capital consumption al- lowances with CCAdj: Corporate Noncorporate Wage accruals less dis- bursements	222.0 137.2 0	231.6 145.7 0	227.7 140.5 0	228.3 142.6 0	229.8 143.5 0	233.1 148.6 0	235.2 148.0 0	238.5 150.2 0
Government surplus or deficit (–), NIPA's Federal State and local	-115.8 -147.1 31.3	$-130.2 \\ -181.6 \\ 51.4$	-175.3 -208.2 32.9	1 42.9 183.3 40.4	-114.4 -166.1 51.7	131.8 187.3 55.5		-110.0 -170.9 60.9
Capital grants received by the United States (net)	0	0	0	0	0	0	0	0
Gross investment	406.2	437.4	355.5	397.4	417.1	457.9	477.1	521.9
Gross private domestic in- vestment Net foreign investment	414.5 -8.3	471.9 34.6	377.4 -21.9	404.1 -6.7	450.1 33.0	501.1 -43.2	532.5 - 55.3	600.9
Statistical discrepan- cy	.5	-2.3	4.2	-1.2	- 3.5	2.5	-6.8	10.4

Table 7.7.-Current-Dollar Cost and Profit Per Unit of Constant-Dollar **Gross Domestic Product of Nonfinancial Corporate Business**

				Dol	lars	_		
				Sea	sonall	y adju	sted	
	1982	1983	1982		19	83		1984
			IV	I	п	ш	IV	I '
Current-dollar cost and profit per unit of constant-dollar gross domestic product ¹ . Capital consumption allowances with CCAdj Net domestic product. Indirect business tax and nontax liability plus business transfer payments less sub- sidies. Domestic income. Compensation of employees. Corporate profits with IVA and CCAdj Profits after tax with IVA and CCAdj Net interest.	.245 1.827 .209 1.618 1.397 .145 .048		1.843 .215 1.627	2.123 .252 1.872 .218 1.654 1.428 .156 .049 .108 .070	2.136 .245 1.892 .223 1.669 1.416 .187 .062 .125 .066	.241 1.911 .221	.238 1 .934 .219 1.715	.236 1.946 .217

SURVEY OF CURRENT BUSINESS

Table 3.2.—Federal Government Receipts and Expenditures

			1	Billions o	of dollars			
			s	Seasonall	y adjuste	ed at ann	ual rates	3
	1982	1983	1982		19	83		1984
			IV	I	п	ш	IV	Ι'
Receipts	617.4	644.7	612.6	623.3	652.6	645.2	657.5	687.4
Personal tax and nontax								
receipts	304.7	295.9	303.0	297.7	304.2	286.9	295.0	302.
Income taxes	296.7	289.7	296.7	291.7	297.8	280.2	289.1	295.
Estate and gift taxes	7.6	5.9	6.0	5.7	6.1	6.3	5.5	6.4
Nontaxes	.3	.3	.3	.3	.3	.4	.4	
Corporate profits tax accru-								
als	46.5	60.3	42.1	48.6	59.8	66.6	66.4	72.
Indirect business tax and								
_ nontax accruals	48.3	54.0	48.3	48.6	56.0	55.5	55.8	56.
Excise taxes	32.4	36.4	32.4	33.3	38.6	37.0	36.8	36.
Customs duties	8.6	9.1	8.3	7.5	8.9	9.8	10.0	10.
Nontaxes	7.3	8.5	7.6	7.7	8.4	8.8	9.0	8.0
Contributions for social								
insurance	217.9	234.4	219.3	228.5	232.6	236.2	240.3	256.9
Expenditures	764.4	826.3	820.9	806.6	818.7	832.5	847.3	858.
Purchases of goods and								
services	258.7	274.8	279.2	273.5	273.7	278.1	274.1	272.4
National defense	179.4	200.3	190.8	194.4	199.4	201.2	206.3	213.
Nondefense	79.3	74.5	88.5	79.1	74.3	76.9	67.8	59.3
Transfer payments	321.1	345.4	344.8	340.3	347.0	343.5	350.9	348.
To persons	314.8	338.7	337.2	335.3	341.0	337.5	341.1	343.
To foreigners	6.3	6.7	7.6	5.0	6.0	6.0	9.7	4.
Grants-in-aid to State and								
local governments	83.9	86.5	85.0	85.8	86.7	87.2	86.4	90.4
Net interest paid	84.9	96.5	89.1	88.4	91.8	101.0	104.6	108.
Interest paid	107.7	121.1	112.6	113.0	116.0	125.8	129.6	133.4
To persons and busi-								
ness	89.5	103.4	93.8	95.4	98.6	108.1	111.5	114.
To foreigners	18.2	17.7	18.8	17.6	17.4	17.7	18.1	18.'
Less: Interest received	22.8	24.7	23.5	24.6	24.2	24.8	25.0	25.4
Subsidies less current sur-								
plus of government								
enterprises	15.8	22.6	22.8	18.6	18.2	22.3	31.3	39.
Subsidies	14.9	19.9	17.9	16.4	17.7	17.8	27.8	39.
Less: Current surplus of								
government enterprises	8	-2.7	-4.9	-2.3	5	-4.5	3.5	
Less: Wage accruals less]			
disbursements	0	4	0	0	-1.3	4	0	
Surplus or deficit								
(_), NIPA's	-147.1	-181.6	- 208.2	- 183.3	-166.1	-187.3	-189.8	-170.
Social insurance funds	-29.0	-28.7	-43.9	-32.0	-31.4	-25.9	-25.6	-12.
Other	-118.0	-152.9	-164.3	-151.4	-134.7	-161.4	-164.3	-158.

Table 3.3.—State and Local Government Receipts and Expenditures

Receipts	439.1	483.5	450.7	461.7	478.7	492.7	500.7	514.3
Personal tax and nontax								
receipts	97.4	110.5	101.2	104.1	108.4	113.3	116.4	118.9
Income taxes	51.8	59.4	53.5	55.1	58.0	61.5	63.1	64.1
Nontaxes	36.4	41.1	38.1	39.3	40.4	41.7	43.0	44.3
Other	9.2	10.0	9.5	9.6	9.9	10.1	10.3	10.4
Corporate profits tax accru-								
als	12.7	16.6	11.9	12.9	16.2	18.4	18.9	20.1
Indirect business tax and								
nontax accruals	210.0	231.9	216.6	222.0	229.9	235.6	240.1	245.3
Sales taxes	95.5	105.9	98.0	100.4	105.0	108.0	110.3	113.4
Property taxes	85.1	94.4	88.8	91.2	93.5	95.5	97.3	98.7
Other	29.3	31.6	29.8	30.5	31.3	32.1	32.6	33.2
Contributions for social in-								
surance	35.1	37.9	36.1	36.9	37.5	38.2	38.9	39.6
Federal grants-in-aid	83.9	86.5	85.0	85.8	86.7	87.2	86.4	90.4
Expenditures	407.8	432.0	417.8	421.3	427.0	437.1	442.7	453.4
Purchases of goods and								
services	390.5	414.7	400.5	404.0	409.7	420.2	424.9	435.1
Compensation of employ-	330.0	414.1	400.0	404.0	400.1	420.2	424.0	100.1
ees	223.0	240.5	229.5	233.8	238.1	242.6	247.2	252.3
Other	167.5	174.2	171.0	170.1	171.5	177.6	177.7	182.8
Transfer payments to per-	101.0	1.1.2	111.0	1.0.1	111.0	1		
sons	45.6	49.4	47.1	48.3	49.0	49.4	50.8	51.8
Net interest paid	-19.8	-22.7	-21.1	-22.0	-22.5	-23.0	-23.4	-23.6
Interest paid	29.9	33.8	31.5	32.3	33.3	34.3	35.4	36.6
Less: Interest received	49.7	56.6	52.6	54.3	55.8	57.3	58.8	60.2
Less: Dividends received			2.5	2.6	2.7	2.8	3.0	3.1
Less: Dividends received	2.3	2.8	2.5	2.0	2.1	2.0	5.0	0.1
Subsidies less current sur-								
plus of government				1				
enterprises	6.3	-6.5	-6.2	-6.3	-6.4	-6.5	-6.7	-6.8
Subsidies	.5	.5	.5	.5	.5	.5	.5	.6
Less: Current surplus of	.0		.0	.0				
government enterprises	6.7	7.0	6.7	6.8	6.9	7.1	7.2	7.3
government enterprises.	0.1	1.0	0.1	0.0	0.0			
Less: Wage accruals less					ļ			
disbursements	0	0	0	0	0	0	0	C
	Ů					Ť		
Surplus or deficit								
(-), NIPA's	31.3	51.4	32.9	40.4	51.7	55.5	58.1	60.9
,		1						
Social insurance funds	33.2	36.1	34.2	34.9	35.6	36.6	37.3	38.0
Other	-1.9	15.3	-1.2	5.5	16.1	18.9	20.8	22.9
							L	

			Index	numbe	rs, 1972	2=100		
			-	Se	asonall	y adjust	ed	
	1982	1983	1982		19	83		1984
			IV	I	п	ш	IV	I r
Gross national product	206.88	215.63	210.00	212.83	214.55	216.44	218.53	220.5
Personal consumption								
expenditures	205.3	213.4	209.0	210.1	212.5	214.7	216.1	218.0
Durable goods Nondurable goods	174.8	178.7	176.1	177.3	177.5	179.1	180.7	181.1
Nondurable goods	209.0	213.8	211.2	210.6	213.4	215.5	215.7	217.7
Services	211.6	224.3	217.2	219.8	223.1	225.7	228.6	231.4
Gross private domestic investment		,	,					
Fixed investment	215 3	216.3	215.7	215.9	215.5	217.0	216.8	216.1
Nonresidential	210.0	206.8	209.9	207.7	206.3	206.3	207.0	205.6
Structures	265.8	263.9	264.3	265.4	264.0	263.7	263.7	263.3
Producers' durable equipment	183 1	182.9	183.2	181.8	182.1	182.7	184.8	182.8
Residential	240.2	246.8	238.4	244.9	243.9	249.0	248.7	249.2
Nonfarm structures		249.8	241.5	248.2	246.8	251.9	251.7	252.0
Farm structures		251.2	249.9	248.2	249.8	251.5	254.7	260.7
Producers' durable equipment		172.5	171.1	171.7	171.5	172.4	174.2	173.9
Change in business inventories								
Net exports of goods and services								
Exports	996 A	241.8	235.6	238.0	240.2	242.5	246.4	248.6
Imports	278 0	271.3	278.5	265.4	270.7	278.1	270.3	267.4
Imports	210.5	211.0	210.0	200.4	210.1	210.1	210.0	201.4
Government purchases of		1						
goods and services		235.2	226.8	231.3	234.0	236.5	239.1	243.4
Federal	222.0	233.3	224.4	230.9	232.7	233.8	235.6	239.6
National defense		237.7	234.3	234.9	236.7	238.8	240.3	244.9
Nondefense		222.0	205.7	221.7	222.6	221.7	222.2	222.4
State and local	222.9	236.6	228.5	231.6	234.8	238.3	241.5	[245.8]

Table 7.1.-Implicit Price Deflators for Gross National Product

Table 7.2.—Fixed-Weighted Price Indexes for Gross National Product, 1972 Weights

	L		Index	numbe	rs, 1972	2=100		
				Se	asonall	y adjust	ed	
	1982	1983	1982		19	83		1984
			IV	I	II	ш	IV	I '
Gross national product	214.7	223.9	218.7	220.6	222.9	225.5	227.8	230.4
Personal consumption								
expenditures Durable goods	213.2	221.9	217.4	218.3	220.9	223.3	225.6	228.1
Durable goods	181.2	185.9	182.9	183.9	184.8	186.6	188.4	189.1
Nondurable goods		223.3	221.7	220.0	222.7	224.4	226.0	228.4
Services	218.9	233.0	225.3	228.5	231.6	234.8	238.0	241.1
Gross private domestic investment								
Fired investment	991 5	234.9	232.5	235.6	235.2	237.4	237.9	238.8
Fixed investment	201.0	230.3	228.6	229.9	230.1	230.9	231.8	233.0
Structures	246.2	248.5	248.2	248.1	247.5	248.4	249.9	251.3
Producers' durable equipment	21/ 0	219.9	217.4	219.4	220.1	220.8	221.4	222.
Residential	242.4	243.6	240.0	246.5	244.9	249.7	249.5	249.8
Change in business inventories		240.0	240.0	210.0	544.0	210.1	240.0	
						1		1
Net exports of goods and services							<u> </u>	<u> </u>
Exports	244.1	249.1	243.9	245.8	247.4	249.8	253.5	254.9
Imports	309.4	298.8	306.1	303.2	298.2	299.4	298.5	299.7
			•		1	1	1	
Government purchases of	1	0000		000 -	007 0	000 0	0.00	
goods and services	226.4	236.9	231.4	233.7	235.2	238.3	240.5	244.9
goods and services Federal National defense	230.6	238.1	235.6	237.0	236.2	238.7	240.2	245.2
National defense	236.7	244.0	241.9	242.9	241.8	244.7 223.3	246.3	251.4
Nondefense State and local	215.0	222.9 236.1	219.7 228.6	221.7 231.5	221.9	223.3	224.7	244.7
State and local	223.6	236.1	228.0	231.5	234.5	238.0	240.0	244.1
Addenda:				1	1			1
Gross domestic purchases 1	218.9	227.1	222.7	224.3	226.1	228.7	230.7	233.8
Final sales		224.0	218.8	220.6	222.9	225.5	227.8	230.5
Final sales to domestic purchas-	1.1.1	221.0	10.0					
ers ¹	218.9	227.2	222.8	224.3	226.2	228.7	230.8	233.4
Personal consumption expendi-	1	1		1			1	
tures, food	217.3	221.8	218.4	219.5	222.3	221.6	223.7	229.9
Personal consumption expendi-						1.		1
tures, energy	. 363.7	365.6	374.9	357.0	362.9	370.4	372.2	366.5
Other personal consumption ex-	1	1	1	[1	1	1	1
penditures	. 198.1	208.7	202.6	205.1	207.4	210.2	212.6	214.8
Course down antis was donet	0147	004.0	0100	000 0	000 0	005 5	007.0	020 0
Gross domestic product	214.7	224.0	218.8	220.6	223.0	225.5	227.9	230.
Business		223.7	218.8	220.8	223.0	225.6	227.9	230.2
Nonfarm	. 215.2				·•••••••••		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •

 Table 7.1-7.2:

 1. Gross domestic purchases equals GNP less exports plus imports; final sales to domestic purchasers equals final sales less exports plus imports.

SURVEY OF CURRENT BUSINESS

Table 8.1.—Percent Change From Preceding Period in Gross National Product in Current and Constant Dollars, Implicit Price Deflators, and Price Indexes

	Per	cent		Perc	ent at a	annual	rates			Perc	ent		Perc	ent at a	nnual i	rates	
				Se	asonall	y adjust	ted						Se	asonall	y adjust	ed	
	1982	1983	1982		198	33	_	1984		1982	1983	1982		198	33		1984
			IV	I	п	ш	IV	I'				IV	I	п	ш	IV	I '
Gross national product: Current dollars	-1.9 6.0	7.7 3.4 4.2 4.4 4.3	$2.5 \\ -1.3 \\ 3.8 \\ 5.0 \\ 4.7$	8.2 2.6 5.5 3.6 3.4	$13.3 \\ 9.7 \\ 3.3 \\ 4.3 \\ 4.3 \\ 4.3$	$11.5 \\ 7.6 \\ 3.6 \\ 4.5 \\ 4.7 \\ 4.7$	9.1 5.0 3.9 4.4 4.2	12.8 8.8 3.7 4.6 4.8	Implicit price deflator Chain price index Fixed-weighted price index Government purchases of goods and		-2.7 -2.2 -3.4	4.6 9 8	17.5 2.6 3.8	8.3 -3.0 -6.3	11.3 1.4 1.5	-10.7 3 -1.2	-4.2 2.5 1.7
Personal consumption expenditures: Current dollars. 1972 dollars. Implicit price deflator. Chain price index	5.9	8.3 4.2 3.9 4.2 4.1	7.8 3.6 4.1 5.1 5.1	5.2 2.9 2.2 2.3 1.6	15.1 10.0 4.6 4.7 4.9	6.5 2.2 4.2 4.2 4.2 4.4	9.4 6.5 2.8 4.3 4.2	$10.6 \\ 6.9 \\ 3.4 \\ 4.5 \\ 4.5 \\ 4.5$	services: Current dollars	9.0 1.8 7.0 7.2 6.7	6.2 .5 5.7 5.3 4.6	15.5 10.6 4.4 7.2 7.0	$-1.3 \\ -8.8 \\ 8.2 \\ 4.7 \\ 4.0$	$3.6 \\ -1.1 \\ 4.7 \\ 3.6 \\ 2.6$	9.0 4.4 4.4 5.6 5.3	$-3.9 \\ 4.5 \\ 4.1 \\ 3.8$	4.9 -2.2 7.3 7.8 7.7
Durable goods: Current dollars 1972 dollars Implicit price deflators Chain price index Fixed-weighted price index	9 4.5 4.7	14.3 11.8 2.2 2.3 2.6	$15.1 \\ 15.2 \\1 \\ 1.5 \\ 1.4$	$10.7 \\ 7.6 \\ 2.8 \\ 2.1 \\ 2.1 \\ 2.1$	33.2 32.6 .5 1.1 1.9	7.6 3.7 3.7 3.6 4.1	24.2 19.9 3.6 3.8 3.7	23.7 22.7 .8 1.6 1.7	Federal: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	12.9 5.6 6.9 7.3 7.3	6.2 1.1 5.1 3.9 3.2	29.5 28.3 1.0 7.6 8.7	12.2 3.8	$-2.8 \\ 3.2 \\ .6 \\ -1.2$	6.6 4.6 1.9 4.9 4.2	$ \begin{array}{r} -5.6 \\ -8.4 \\ 3.0 \\ 2.3 \\ 2.5 \end{array} $	-2.5 -9.0 7.1 8.8 8.7
Nondurable goods: Current dollars 1972 dollars. Implicit price deflator Chain price index Fixed-weighted price index	.5 3.2 3.2	5.7 3.3 2.3 2.2 2.0	3.4 1.5 1.9 2.6 2.9	$2.1 \\ 3.2 \\ -1.1 \\ -1.9 \\ -3.1$	$12.1 \\ 6.4 \\ 5.3 \\ 5.3 \\ 5.1$	7.8 3.6 4.1 2.8 3.1	5.1 4.8 .3 2.5 2.8	9.2 5.3 3.7 4.4 4.5	National defense: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index.	7.1 8.8 8.2	$ \begin{array}{c} 11.6\\ 6.9\\ 4.4\\ 3.8\\ 3.1 \end{array} $	16.5 5.1 10.8 8.7 9.2	1.2	10.7 7.4 3.1 .2 -1.8	3.6 0 3.6 5.3 4.8	10.5 7.8 2.5 2.4 2.6	14.1 5.8 7.9 8.5 8.7
Services: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	2.9 8.1 8.4	8.9 2.7 6.0 6.2 6.5	9.5 1.9 7.4 8.0 8.3	6.3 1.4 4.8 5.7 5.9	$13.0 \\ 6.4 \\ 6.2 \\ 5.2 \\ 5.5$	5.3 .6 4.7 5.4 5.7	9.1 3.7 5.2 5.7 5.7	8.3 3.2 5.0 5.3 5.3	Nondefense: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index.	2.7 2.7 5.5	$\begin{array}{c} -6.0 \\ -11.1 \\ 5.7 \\ 4.2 \\ 3.7 \end{array}$	92.5 - 14.5	35.0	$-22.2 \\ -23.5 \\ 1.8 \\ 1.5 \\ .3$	$14.9 \\ 16.9 \\ -1.7 \\ 3.7 \\ 2.6$	$-39.5 \\ -40.1 \\ .9 \\ 2.1 \\ 2.5$	$-42.0 \\ -42.2 \\ .3 \\ 9.6 \\ 8.6$
Gross private domestic investment: Current dollars			-34.6		53.9 49.8		27.5 27.6	·····	State and local: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	5 . 7.1 . 7.1	0 6.2 6.1		$-1.8 \\ 5.4$	5.8 0 5.8 5.7 5.3	10.7 4.3 6.1 6.2 6.1	$4.6 \\8 \\ 5.4 \\ 5.3 \\ 4.6$	10.0 2.5 7.3 7.2 7.0
Fixed-weighted price index		••••••			••••••		•••••••		Addenda:		1						
Fixed investment: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	-6.9 3.3	8.4	2.7	9.2 8.8 .4 2.8 5.4	20.5 21.5 8 -1.0 7	$26.2 \\ 22.7 \\ 2.9 \\ 2.6 \\ 3.7$	17.5 17.9 —.3 .6 .9	15.5 17.1 -1.4 .7 1.4	Gross dosnestic purchases: Current dollars	-1.0 5.4 6.0	4.6 3.9 3.9	$ \begin{array}{c c} & 1.8 \\ & -1.1 \\ & 3.0 \\ & 4.9 \\ & 4.6 \\ \end{array} $	3.3	16.9 12.3 4.1 3.7 3.4	12.8 7.9 4.5 4.3 4.5	10.0 7.4 2.5 3.7 3.6	16.4 12.4 3.5 4.6 4.7
Nonresidential: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index. Structures:	-4.7 3.8 5.8 5.6	1.4 -1.4 1.1	2.0	$ -1.5 \\ -4.2 \\ .5$	5.1 7.9 -2.6 5 .3	18.8 18.7 .1 .7 1.4	28.8 27.2 1.3 1.0 1.6	.8 2.0	Final sales: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	7 	7.1 2.8 4.1 4.4	9.4 4.5 4.5	6 .6 5.2 3.6	9.8 6.8 2.8 4.3 4.3	8.4 5.1 3.2 4.6 4.7	7.7 3.7 3.9 4.4 4.2	6.7 3.2 3.4 4.6 4.8
Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index Producers' durable	. 1.8 . 4.6 . 5.1	-6.9 7 5	-5.5 1.6 1.4	-2.7	$-15.3 \\ -14.9 \\5 \\ -2.9 \\ -1.0$	11.2 11.1 0 .5 1.6	7.8 6.8 1.0 1.4 2.4	$ \begin{array}{c c} 19.7 \\ 21.6 \\ -1.6 \\ .8 \\ 2.2 \end{array} $	Final sales to domestic purchasers: Current dollars				3 1.2 3 3.0 9 2.9	13.3 9.3 3.7 3.7 3.4	5.4 4.1 4.3	2.5	6.7 3.3 4.6
equipment: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	7.5 . 2.0 . 6.2	5.3 1 2.3	-7.1 3 2.4	1	20.6 19.8 .7 1.1 1.2	23.6 22.0 1.3 .8 1.3	$\begin{array}{c} 42.7\\ 36.5\\ 4.6\\ .7\\ 1.1\end{array}$	-4.2	Gross domestic product: Current dollars	$ \begin{array}{c} -1.7 \\$) 4.2 5 4.4	1 5 .	0 3.6	9.9 3.2 4.3	$ \begin{array}{c c} 11.1 \\ 7.3 \\ 3.6 \\ 4.6 \\ 4.7 \\ 4.7 \\ \end{array} $	4.4	9.2 3.7 4.6
Residential: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index.		39.4 2.7 -1.4	53.2 -4.1 -5.2	11.4 11.2	$\begin{array}{c c} 76.7 \\ 79.5 \\ -1.6 \\ -2.5 \\ -2.6 \end{array}$	47.5 35.9 8.6 8.0 8.0	$ -7.3 \\ -6.9 \\4 \\3 \\3$	25.7	Business: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	2. 5. 6.	0 4. 6 3. 1 4.	$\begin{array}{c c c} 0 & -1. \\ 9 & 2. \\ 1 & 4. \end{array}$	4 3.3 8 5.4	$ \begin{array}{c} 11.5 \\ 3.0 \\ 4.1 \end{array} $	8.4 3.4 4.5	6.0 3.8 4.3	10.6 3.1 4.0
Exports: Current dollars 1972 dollars Implicit price deflator Chain price deflator Fixed-weighted price index	$ \begin{array}{c} -7.8 \\ -2.2 \\ -2.6 \\ -2.6 \end{array} $	-5.8 2.5 2.3	-25.3 -24.4 -1.1 2 5	2.4 4.3	-3.2 -3.2 3.6 3.1 2.6	18.2 13.7 3.9 4.2 3.9	$ \begin{array}{c c} $	7.4	Nonfarm: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	$ \begin{array}{c c} -2. \\ -2. \\ 5. \\ \\ -6. \\ \end{array} $	2 4. 9 3. 4	4 - 3.	4 10.3 3 4.8 8 5.2	12.8	8 8.4	1 7.7	10.5
Imports: Current dollars 1972 dollars		4.3	-29.6		37.4 26.8	31.5 18.1	15.6		Disposable personal income: Current dollars 1972 dollars	6.	3 7. 5 3.	3 6 2 2	8 5.1 6 2.9	8.2	2 11.0		

Norg.—The implicit price deflator for GNP is a weighted average of the detailed price indexes used in the deflation of GNP. In each period, the weights are based on the composition of constant-dollar output in that period. In other words, the price index for each item (1972=100) is weighted by the ratio of the quantity of the item valued in 1972 prices to the total output in 1972 prices. Changes in the implicit price deflator reflect both changes in prices and changes in

the composition of output. The chain price index uses as weights the composition of output in the prior period, and therefore reflects only the change in prices between the two periods. However, comparisons of percent changes in the chain index also reflect changes in the composition of output. The fixed-weighted price index uses as weights the composition of output in 1972. Accordingly, comparisons over any time span reflect only changes in prices.

Reconciliation and Other Special Tables

Table 1.-Reconciliation of Changes in Compensation Per Hour in the Business Economy Other Than Farm and Housing and Average Hourly Earnings in the Private Nonfarm Economy, **Seasonally Adjusted**

		1983		1984
	п	ш	IV	I
1. Compensation per hour of all persons in the business economy other than farm and housing (percent change at annual rate) ¹	4.5	4.1	3.7	₽ 6. 4
2. Less: Contribution of supplements	.3	.4	.5	2.0
3. Plus: Contribution of housing and nonprofit institutions	3	2	0	1
 Less: Contribution of employees of government enterprises and self-employed and unpaid family workers 	.1	.2	5	1.
5. Equals: Wages and salaries per hour of employees in the private nonfarm economy (percent change at annual rate)	3.7	3.4	3.7	3.:
6. Less: Contribution of nonproduction workers in manufacturing	5	4	1	0
7. Less: Contribution of non-BLS data, detailed weighting, and seasonal adjustment	.5	.9	-1.7	-1.4
8. Equals: Average hourly earnings, production and nonsupervisory workers in the private nonfarm economy (percent change at annual rate)	3.7	2.9	5.6	4.

⁷ Revised. ^p Preliminary. 1. BLS estimates of changes in hourly compensation in the nonfarm business sector for the four quarters are 4.4, 3.8, 4.3 and 6.0 percent.

Table 2.—National Defense Purchases of Goods and Services

			Se	asonally	adjuste	d at an	nual rat	es				Per	cent cha	nge fro	m prece	ding per	iod at a	nnual ra	tes	
		Billio	ons of do	ollars			Billions	of 1972	dollars			Implici	t price d	eflator		Fi	xed-wei	ghted pr	ice inde	x
		19	83		1984		19	33		1984		19	83		1984		19	83		1984
<u></u>	1	11	ш	IV	I	I	п	ш	IV	I	I	п	III	IV	I	I	п	ш	IV	I
National defense purchases	194.4	199.4	201.2	206.3	213.2	82.7	84.2	84.2	85.8	87.0	1.2	3.1	3.6	2.5	7.9	2.4	1.6	1.7	5.1	7.6
Durable goods Military equipment Aircraft Missiles Ships Vehicles Electronics equipment Other Other	$55.3 \\ 45.5 \\ 18.0 \\ 7.8 \\ 5.8 \\ 3.7 \\ 3.4 \\ 6.9 \\ 9.7$	$\begin{array}{c} 60.1 \\ 49.8 \\ 21.1 \\ 6.7 \\ 7.3 \\ 4.3 \\ 3.5 \\ 6.9 \\ 10.2 \end{array}$	58.5 48.4 19.6 7.4 6.9 4.2 3.6 6.7 10.0	$\begin{array}{c} 62.9\\ 53.4\\ 22.0\\ 9.1\\ 7.5\\ 4.5\\ 3.8\\ 6.5\\ 9.5\end{array}$	$\begin{array}{c} 67.2\\ 56.1\\ 22.6\\ 8.6\\ 7.6\\ 5.1\\ 4.7\\ 7.5\\ 11.1\end{array}$	$23.5 \\ 18.9 \\ 6.5 \\ 3.6 \\ 2.3 \\ 1.3 \\ 1.8 \\ 3.5 \\ 4.6$	25.2 20.4 7.9 2.8 2.9 1.5 1.9 3.4 4.8	$23.7 \\19.0 \\6.4 \\3.2 \\2.7 \\1.4 \\1.9 \\3.3 \\4.7$	24.920.57.03.83.01.52.03.34.4	26.5 21.4 6.9 3.6 3.0 1.7 2.4 3.7 5.1	5 -2.4 25.9 -45.7 1.7 11.3 2.8 1.2 .7	5.96.0-15.546.33.482.75.24.1	$15.3 \\ 18.6 \\ 74.0 \\ -11.7 \\ 5.6 \\ 1.2 \\ -1.3 \\ .1 \\ 2.7$	$9.0 \\ 8.8 \\ 11.5 \\ 13.5 \\ -1.8 \\ .3 \\ 6.7 \\4 \\ 1.2$	2.7 3.0 15.6 8 -4.8 7.7 3.2 7.4	$\begin{array}{r} 4.4\\ 4.2\\ 7.6\\ -6.1\\ 5.4\\ 1.0\\ 3.7\\ 2.2\\ 5.2\end{array}$	$\begin{array}{r} 3.1\\ 3.3\\ 2.1\\ 13.2\\ .7\\ 3.0\\ 1.4\\ 3.0\\ 2.7\end{array}$	$\begin{array}{c} 6.6\\ 8.4\\ 16.7\\ 1.1\\ 1.1\\ 9.3\\ .5\\ .7\\ .6\end{array}$	$13.0 \\ 16.3 \\ 38.5 \\ -1.0 \\5 \\ -1.0 \\ 6.6 \\ -4.4 \\ 1.7$	$\begin{array}{c} 2.6 \\ 1.9 \\ 1.3 \\ 4.9 \\ 1.5 \\ -2.4 \\ 2.1 \\ 3.9 \\ 5.1 \end{array}$
Nondurable goods Bulk petroleum products Ammunition Clothing and textiles Other nondurable goods	14.8 10.1 2.6 .9 1.2	14.0 9.5 2.3 1.0 1.1	13.7 8.8 2.9 .9 1.2	$12.8 \\ 7.6 \\ 3.0 \\ .9 \\ 1.2$	12.4 6.6 3.6 .8 1.4	3.1 1.2 .9 .5	3.1 1.2 .9 .5	3.1 1.1 1.0 .5 .5	3.0 1.0 1.0 .5 .5	3.0 .8 1.2 .4 .6	$\begin{array}{r} -21.9 \\ -21.0 \\ -1.7 \\ 2.4 \\ -5.2 \end{array}$	$-14.3 \\ -25.5 \\ -8.8 \\ .8 \\ 3.6$	$-8.6 \\ 3.8 \\ 15.1 \\ 0 \\ 6.1$	-14.7 -2.5 19.5 4.2 3.7	-17.3 1.0 .1 3.8 6.3	$-16.0 \\ -23.9 \\ 10.5 \\ 0 \\ 4.3$	-14.6 -21.2 1.4 1.3 3.5	$-8.8 \\ -13.1 \\ 1.7 \\ 0 \\ .3$	15.7 20.1 12.6 4.6 1.4	$\begin{array}{c} -7.2 \\ -15.3 \\ 17.7 \\ 4.6 \\ 8.5 \end{array}$
Services Compensation of employees Military Civilian Other services	120.3 71.5 42.4 29.1 48.8	$120.7 \\71.7 \\42.5 \\29.2 \\49.0$	$124.2 \\71.8 \\42.6 \\29.3 \\52.4$	$126.0 \\72.1 \\42.7 \\29.4 \\53.9$	$129.3 \\74.8 \\44.4 \\30.4 \\54.5$	54.3 34.2 20.0 14.2 20.1	53.9 34.2 20.0 14.2 19.7	55.4 34.2 20.0 14.2 21.2	55.9 34.2 20.0 14.2 21.7	55.7 34.3 20.1 14.2 21.4	4.1 3.6 .7 8.0 4.4	4.3 .9 .7 1.2 10.3	$.5\\1.2\\1.1\\1.2\\-3.3$	1.9 1.2 .6 2.0 2.2	$12.6 \\ 14.8 \\ 15.1 \\ 14.3 \\ 10.3$	3.7 3.5 .7 8.0 4.1	2.5 .9 .7 1.2 5.7	.7 1.2 1.1 1.3 4	1.6 1.1 .6 2.0 2.5	$ \begin{array}{c c} 11.5 \\ 14.8 \\ 15.1 \\ 14.3 \\ 5.2 \\ \end{array} $
Contractual research and develop- ment Travel Transportation Communications Depot maintenance Other	$16.2 \\ 2.4 \\ 3.1 \\ 1.0 \\ 7.6 \\ 18.4$	15.9 2.6 3.4 1.1 8.0 18.1	16.2 2.6 3.7 1.2 8.4 20.3	17.5 2.6 3.6 1.1 9.0 20.1	18.9 2.6 3.6 1.1 9.5 18.8	6.6 1.0 1.3 .6 2.5 8.0	6.3 1.1 1.4 .6 2.5 7.7	6.5 1.1 1.6 .7 2.7 8.7	6.9 1.1 1.6 3.0 8.5	7.4 1.1 1.6 .6 3.1 7.7	$3.6 \\ -6.4 \\ -2.5 \\ 25.8 \\ 14.6 \\ 2.8$	$9.6 \\ 8.0 \\ 5.1 \\ -5.9 \\ 21.1 \\ 9.1$	$8 \\ -3.6 \\ -19.7 \\ .9 \\ -2.3 \\8$	$3.4 \\ -4.3 \\ -3.6 \\ -9.5 \\ 3.9$	$5.4 \\ 1.2 \\ 3.2 \\ 22.9 \\ 5.5 \\ 15.2 \end{cases}$	$2.5 \\ -4.5 \\ 1.3 \\ 2.9 \\ 8.5 \\ 6.9$	6.1 4.3 8.6 5 5.4 5.4	$3 \\ -5.2 \\ -14.4 \\ .9 \\4 \\ 5.1$	$\begin{array}{r} 7.8 \\ -1.1 \\ -6.9 \\ .5 \\ -4.0 \\ 3.7 \end{array}$	4.2 1.3 4.0 7.7 8.2 6.0
Structures Military facilities Other	3.9 2.3 1.6	4.6 2.9 1.7	4.7 3.0 1.7	4.6 2.9 1.7	4.3 2.6 1.8	1.7 1.1 .7	2.0 1.3 .7	2.0 1.3 .7	2.0 1.3 .7	1.8 1.1 .7	4.3 1.3 7.3	4.5 7.0 3.5	7.0 8.8 5.0	2.4 1.9 3.2	5.5 5.2 2.4	7.9 9.2 5.4	$10.3 \\ 13.4 \\ 4.3$	11.2 13.7 6.2	$-3.0 \\ -5.6 \\ 2.5$.1 5 1.3
Addenda: Total purchases less compensation Total purchases less compensation and bulk petroleum	122.9 112.8	127.7 118.1	129.3 120.5	134.1 126.5	138.4 131.7	48.5 47.3	50.0 48.8	50.0 48.9	51.6 50.6	52.7 51.9	8 1.6	3.5 6.7	4.9 7.1	2.4 5.9	3.8 6.5	1.6 4.5	2.1 4.5	2.1 3.5	8.3 7.4	2.3 3.9

SURVEY OF CURRENT BUSINESS

Table 3.—Cyclically Adjusted Federal Receipts, Expenditures, Surplus or Deficit (-), and Debt

[Billions of dollars; quarters at seasonally adjusted annual rates]

	1000	1000		19	82			19	83		1984
	1982	1983	I	п	ш	IV	I	п	ш	IV	I
Based on middle-expansion trend GNP:]		
Receipts:	CC0 7	000 7	059.4	CC0 4	661.0	CCT 0	C00 0	C00 7	C70 5	COC 4	700
Level Percentage of trend GNP	. 660.7 20.5	686.7 19.9	653.4 20.8			667.6 20.2	$682.0 \\ 20.2$	698.7 20.4	679.5 19.6	686.4 19.5	702.
Change from preceding period	. 27.7	26.0	7.2	7.0	.8	6.4	14.4	16.7	-19.2	6.9	16.
Due to automatic inflation effects	. 37.2	25.8	5.9	8.4	4.8	4.9	9.2	5.3	5.6	6.4	
_ Due to discretionary policy and other factors	9.5	.3	1.3	-1.4	-4.0	1.5	5.2	11.4	-24.8	.5	9.
Expenditures:	757.2	000.0	723.9		765.5	000.0	700 1	812.8	000.0	0.000	000
Level Percentage of trend GNP	23.5	822.0 23.9	23.9	729.5 22.8	23.5	809.8 24.5	798.1 23.7	23.8	829.2 23.9	848.0 24.1	862. 24.
Change from preceding period		64.8	1.4	5.6	23.5 36.0	44.3	11.7	14.7	16.4	18.8	14.
Due to automatic inflation effects		14.7	2.1	3.2	14.1	4.3	.5	2.7	1.2	1.8	
Due to discretionary policy and other factors		50.2	7	2.4	21.9	40.0	-12.2	12.0	15.2	17.0	2
Surplus or deficit (–):											
Level	-96.6	-135.4	-70.5	- 69.1	- 104.3	- 142.3	-116.2	-114.2	-149.7	-161.6	
Percentage of trend GNP		-3.9 -38.8	$-2.2 \\ 5.8$	-2.2	-3.2 -35.2	-4.3 -38.0	-3.4	-3.3 2.0	-4.3 -35.5	-4.6	-4.
Change from preceding period Due to automatic inflation effects		11.0	3.7	5.2	35.2	- 38.0	26.1 8.7	2.0	- 35.5	-11.9	1.
Due to discrimation effects	-47.8	-49.9	2.1	-3.8	-25.8	~38.5	17.4	- 6	-39.9	-16.5	6
Debt:		10.00		0.0	-010	00.0		1		1010	i .
At par value, end of period:											
Level	957.2	1,095.8	866.5	886.4	926.3	957.2	990.3	1,052.0	1,085.3	1,095.8	
Percentage of trend GNP	. 29.7	31.8	27.6	27.7	28.5	29.0	29.4	30.8	31.3	31.1	31.
At market value, end of period: Level	. 978.1	1,068.2								ĺ	
Percentage of trend GNP	30.3	31.0								1	•
Tercentage of trend offi	1 00.0	01.0									1
Based on 6-percent unemployment rate trend GNP:	1)	ĺ			}	Ì		
Receipts:		1				}	}	}))	1
Level	. 690.9	724.8	681.4	690.2	692.1	700.0	716.9	736.6	718.2	727.7	746
Percentage of trend GNP	. 20.7	20.2	21.0	20.8	20.5	20.4	20.5	20.7	19.8	19.8	19.
Expenditures:	752.3	818.8	718.8	724.5	760.7	805.4	794.1	809.7	826.3	845.3	860
Level Percentage of trend GNP		22.8	22.1	21.8	22.5	23.5	22.7	22.7	22.8	845.3	23
Surplus or deficit (–):	1 22.0		40.1	61.0	24.0	20.0			0	66.0	20.
Level	-61.5	-94.0	-37.4	-34.3	-68.7	-105.4	-77.2	-73.1	-108.1	-117.6	-113.
Percentage of trend GNP		-2.6	-1.2	-1.0	-2.0	-3.1	-2.2	-2.1	-3.0	-3.2	

International Travel and Passenger Fares, 1983

THE U.S. travel and passenger fare deficit reached a record \$5.6 billion in 1983, more than double that of 1982. Expenditures of U.S. travelers in foreign countries and their payments to foreign transoceanic carriers totaled \$19.5 billion, an increase of 14 percent. Receipts from foreign visitors in the United States and the fares they paid to U.S. transoceanic carriers totaled \$13.9 billion, a decrease of 8 percent (table 1).

Expenditures of U.S. travelers in foreign countries totaled \$14.0 billion, up 13 percent, compared with an 8percent decrease, to \$11.4 billion, in receipts from foreign visitors for travel in the United States. Stimulated by strong economic expansion in the United States and a strong dollar in foreign exchange markets, the number of U.S. travelers overseas and their total expenditures abroad increased substantially. Limited economic recovery abroad and weakness of foreign currencies against the dollar led to fewer foreign visitors from overseas and a decrease in total receipts of the United States. Lower inflation both in the United States and industrial countries abroad held down average expenditures per traveler. A decline in receipts from, and an increase in U.S. payments to, Mexico reflected substantial peso depreciation in 1982 and 1983.

The increased value of the dollar in exchange markets in 1982 and 1983, combined with declining inflation, led to lower costs for U.S. travelers to most overseas countries and to an increase in travel expenditures in constant (1972) dollars. In contrast, for most of the 1970's, a declining dollar and rising inflation held down constant-dollar expenditures (chart 1).

U.S. travelers' payments to foreign carriers for transportation from and to the United States totaled \$5.5 billion in 1983, up 16 percent. Foreign This article reviews expenditures of U.S. residents traveling abroad and expenditures of foreign residents visiting the United States. These expenditures consist of the travel accounts and part of the passenger fare accounts that appear in the U.S. international transactions accounts. They do not cover U.S. carriers' receipts for transporting foreign residents between foreign points, because these receipts do not involve travel to and from the United States. These receipts are included, however, in the passenger fare account in line 5 of tables 1, 2, and 10 of the quarterly presentations of U.S. international transactions.

Travel account payments include expenditures in foreign countries by U.S. travelers for food, lodging, entertainment, transportation purchased abroad, and other expenses incidental to a foreign visit. Excluded are expenditures by U.S. military and other Government personnel stationed abroad, by their dependents, and by U.S. citizens residing abroad. Payments to foreign transoceanic carriers and shipboard expenditures are included in the passenger fare account. Shore expenditures of cruise passengers are included in travel payments.

Travel account receipts include expenditures in the United States by foreigners on business, pleasure, and study trips, and by those in transit for services similar to those indicated for payments. Receipts of U.S. transoceanic carriers from foreigners are included in the passenger fare account.

New surveys of foreign visitors to the United States and of U.S. travelers abroad, conducted by the U.S. Travel and Tourism Administration (USTTA), suggest different results than estimates based on BEA's travel surveys. After the USTTA surveys have been conducted over a sufficient time period, a thorough comparison of estimates from the two sources will be prepared and evaluated. Until that time, BEA's travel estimates should be interpreted cautiously.

visitors' payments to U.S. carriers for transportation to and from the United States were \$2.5 billion, down 6 percent. Increased numbers of U.S. travelers overseas and fewer foreign visitors were the major contributing factors. Because jet fuel prices were lower and charter traffic continued strong, air fares rose only moderately. For the first 9 months of the year, 9 percent of all U.S. travelers' departures were on charter carriers, up from 8 percent in 1982. Most of the growth in charter traffic was to Europe, especially to the United Kingdom, France, and West Germany. When Peoples' Express introduced a \$149 flight from Newark to London, other transatlantic carriers also introduced competing discount fares. However, some carriers simultaneously raised economy and first-class fares. Near yearend, fares began to increase as increased traffic permitted the

Table 1.—International Travel and Passenger Fare Transactions

[Millions of dollars]

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	1979	1980 [,]	1981 <i>1</i>	19827	1983 <i>1</i>
Total travel and passenger fare payments	12,597	14,004	15,966	17,166	1 9 ,509
Travel: Payments of U.S. travelers in foreign countries (line 20) Passenger fares: U.S. payments to foreign carriers (line 21)	9,413 3,184	10,397 3,607	$11,479 \\ 4,487$	12,394 4,772	$13,977 \\ 5,532$
Total travel and passenger fare receipts	10,118	12,650	15,488	15,085	13,932
Travel: Receipts from foreign visitors in the United States (line 4)	8,441	10,588	12,913	12,393	11,408
Passenger fares: Receipts of U.S. carriers for transportation of foreign visitors to and from the United States (part of line 5) ¹	1,677	2,062	2,575	2,692	2,524
Net travel and passenger fare payments	2,479	1,354	478	2,081	5,57

⁷Revised.

 Excludes fares paid by foreigners to U.S. carriers for transportation between two foreign points.

NOTE.—References in parentheses are to lines in tables 1, 2, and 10 of the quarterly presentation of the U.S. international transactions in the March, June, September, and December issues of the SURVEY OF CURRENT BUSINESS.

U.S. Travelers' Expenditures

in Foreign Countries Billion \$ 13 12 11 10 9 Current \$ 8 Constant 1972 \$1 1970 72 74 76 78 80 82 1. Adjusted for changes in foreign consumer prices and changes in dollar exchange rates; country data are weighted by travel expenditures and summed to total. U.S. Department of Commerce, Bureau of Economic Analysis 84-5-1

withdrawal of many of the heavy discount-fare promotions introduced during the 1981-82 recession.

U.S. travel abroad

Overseas.-U.S. travel expenditures overseas increased 16 percent to \$8.2 billion in 1983 (table 2). Expenditures overseas accounted for 59 percent of all travel expenditures, up from 57 percent (chart 2). A 19-percent increase in the number of U.S. travelers overseas more than compensated for a 3-percent drop in travelers' average expenditures (tables 3 and 4). The strength of the U.S. dollar against most major currencies and strong economic expansion in the United States encouraged U.S. travel to most areas. The increased buying power of the dollar and lower inflation in most foreign countries held down average spending by U.S. travelers.

Table 2.—Travel Payments of U.S. Travelers in Foreign Countries, by Area

[Millions of dollars] 1983 r 1979 1980 1981 1982 10.397 11.479 12.394 13.977 9.413 Total travel payments. 2,070 2,862 1,648 1,936 3,324 2,089 $1,599 \\ 2,460 \\ 1,291$ $^{1,817}_{2,564}_{1,416}$ $2,160 \\ 3,576 \\ 1,996$ Canada Mexico..... Mexico border area ... 5.354 Overseas 6.016 6.547 7.134 8.241 Europe and Mediterranean ¹ 3,185 3,412 3,587 3,787 4,412 2,842 3,021 3,991 3.123 3.413 Western Europe 1,061 United Kingdom.. 826 903 952 895 375 $\begin{array}{c} 596\\ 485\\ 294\\ 416\\ 150\\ 73\\ 71\\ 60\\ 128\\ 65\\ 208\\ 27\\ 84\\ 225\\ 48\\ \end{array}$ France. $\begin{array}{r}
 355 \\
 300 \\
 158 \\
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 \end{array}$ $383 \\ 360 \\ 150 \\ 322 \\ 104 \\ 49 \\ 42 \\ 51 \\ 95 \\ 44 \\ 173 \\ 69 \\ 103 \\ 139 \\ 34$ $\begin{array}{r} 464\\ 490\\ 206\\ 411\\ 145\\ 48\\ 45\\ 55\\ 97\\ 57\\ 153\\ 45\\ 104\\ 145\\ 53\end{array}$ $301 \\ 127 \\ 361 \\ 74 \\ 65 \\ 65 \\ 89 \\ 75 \\ 45 \\ 208$ Italy Switzerland...... Germany. Austria ... Denmark veden Norway Netherlands... Belgium-Luxembourg ... Spain Spain..... Portugal Ireland... 208 41 84 171 90 Greece.... Other Western Europe.. 343 391 421 Other Europe and Mediterranean..... 464 374 Israel.. Other . $157 \\ 186$ $\frac{179}{212}$ $\frac{192}{272}$ $\frac{166}{208}$ $\frac{168}{253}$ 1,519 Caribbean and Central America. 1.019 1.134 1.2771.349 164 224 122 190 Bermuda 191 262 118 189 157 217 192 230 340 153 188 155 283 220 402 183 225 200 289 243 127 252 Bahamas Jamaica Jamaica Other British West Indies. Netherlands West Indies. Other West Indies and Central America. 252 249 214 138 181 288 392 422 383 380 South America 1,888 862 1,078 1,300 1,618 Other areas. 142 137 153 185 145 234 $\frac{214}{151}$ 272 197 302 212 Japan Hong Kong Australia and New Zealand .. 343 367 492 882 Other . 514 592 782

1. Includes all European countries, Algeria, Cyprus, Egypt, Israel, Lebanon, Libya, Malta, Morocco, Syria, Tunisia, and Turkey.

NOTE.-Includes shore expenditures of cruise travelers.

The regional distribution of overseas travelers' destinations and their expenditures changed little from 1982 to 1983. Forty-nine percent of overseas travelers went to Europe and the Mediterranean in both years. Travel expenditures in that area accounted for 54 percent of all overseas expenditures, up from 53 percent in 1982. The Caribbean and Central America accounted for 31 percent of U.S. travelers in both years and 18 percent of expenditures in 1983, down from 19 percent. In both years, South America accounted for 6 percent of U.S. travelers and 5 percent of expenditures, while the "Other areas," primarily the Far East, accounted for 14 percent of travelers and 23 percent of expenditures.

U.S. travel expenditures in Europe and the Mediterranean were up 17 percent in 1983. A decline in average expenditures of 4 percent was more than offset by a 21-percent increase in the number of U.S. travelers. Expenditures increased in France, Switzerland, Denmark, Spain, and Israel, as both the number of travelers and average expenditures increased. Expenditures also were up in the United Kingdom, Germany, Austria, Sweden, Norway, the Netherlands, Belgium-Luxembourg, and Greece; increases in the number of travelers more than offset lower average spending. Expenditures in Italy fell slightly from the high level of 1982, as the increase in travelers only partly offset lower average expenditures. Expenditures in Ireland and Portugal fell sharply, reflecting drops in both the number of travelers and average expenditures.

The United Kingdom was the major European destination of U.S. travelers, accounting for 38 percent of all travelers to Europe and 24 percent of total European travel expenditures. France was the second most popular destination, receiving 25 percent of U.S. travelers and 14 percent of expenditures. Germany was third in its share of U.S. travelers (22 percent), but fourth in expenditures (9 percent). Italy was fourth in travelers (17 percent), but third in expenditures (11 percent). Switzerland ranked as the fifth most popular European destination, with 16 percent of U.S. travelers and 7 percent of expenditures.

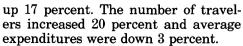
Travel spending in the Caribbean and Central America increased 13

percent, reflecting an 18-percent increase in the number of travelers and a 4-percent drop in average expenditures. Bermuda was the only country in the area to experience a drop in travel spending.

May 1984

South American travel expenditures increased 11 percent; the number of U.S. travelers was up 9 percent and average expenditures were up 2 percent. Substantial currency devaluations in Argentina, Brazil, Peru, and other countries were largely offset by large increases in consumer prices.

Travel expenditures in "Other areas," primarily the Far East, were



Canada.-U.S. travel expenditures in Canada totaled \$2.2 billion, up 12 percent. Canada accounted for 15 percent of U.S. worldwide travel expenditures, about the same as 1982. The number of U.S. travelers was unchanged at 32.5 million, but there was a shift toward long-term travel. Travelers returning the same day they entered Canada declined 1 percent to 20.6 million; travelers staying in

Canada overnight or longer increased 3 percent to 11.9 million. Because overnight travelers spend more on average than same-day travelers, the average expenditure of U.S. travelers in Canada increased 11 percent, from \$60 to \$67. Although the rates of increase in both Canadian and U.S. consumer prices were almost halved from 1982 to 1983, the rate of increase in Canada remained higher than in the United States. This difference in consumer price increases may also have contributed to the higher average ex-

Table 3.—Average Expenditures of U.S. Travelers Overseas, by Area

[Dollars]

	1979	1980	1981	1982	1983 <i>*</i>
ptal	672	726	802	827	80
Europe and Mediterranean	783	867	912	914	87
United Kingdom France Italy Switzerland	511 376 418 295	572 431 481 284	743 435 415 253	601 462 559 317	55 46 55 37
Germany Austria Denmark	328 200 262 279	409 248 271 311	433 242 313 376	387 272 233 338	37 27 27 28
Norway Netherlands Belgium-Luxembourg	343 187 195 451	432 241 181 470	533 227 179 524	455 253 204 528	34 24 17 54
Portugal Ireland Greece Israel	297 414 528 609	373 431 489 619	297 503 489 623	385 498 599 719	27 47 58 72
Caribbean and Central America	367	398	483	476	45
South America	664	658	674	715	72
Other areas	1,078	1.064	1,191	1,346	1.30

NOTE .- Excludes shore expenditures of cruise travelers

Table 4.—U.S. Travelers Overseas

[Thousands]

	1979	1980	1981	1982	1983 7
otal	7,835	8,163	8,040	8,510	10,154
Europe and Mediterranean	4,068	3,934	3,931	4,144	5,026
United Kingdom France Italy Switzerland	1,617 943 718 535	1,580 888 749 529	1,281 863 726 502	1,489 1,005 876 655	1,918 1,270 877 791
Germany Austria Denmark Sweden	864 419 206 136	787 420 181 135	834 306 208 173	1,061 533 206 133	1,118 551 265 249
Norway Netherlands Belgium-Luxembourg	137 379 257 443	118 395 243 368	167 330 252 397	121 383 280 290	175 521 378 385
Portugal Ireland Greece Israel	195 278 309 258	185 239 284 289	138 167 350 308	117 209 242 231	98 178 384 232
Caribbean and Central America	2,533	2,624	2,453	2,637	3,107
South America	434	594	567	529	578
Other areas	800	1,011	1,089	1,200	1,443

Note.-Excludes cruise travelers

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Source: U.S. Department of Commerce, Bureau of Economic Analysis, based on data of U.S. Department of Justice, Immigration and Naturalization Service.

CHART 2 **U.S. Travel Payments and Receipts by Area** Billion \$ Receipts 🔣 Canada 13 Mexico Payments Overseas 10 26 27 25 29 25 2523 3 2

1982 1980 1981 1979 NOTE .- Percentages are shares of total payments and receipts.

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

penditures. The U.S.-Canadian dollar exchange rate was virtually unchanged.

	U.S. travelers to Canada (Thousands)	Average expendi- tures of U.S. travelers (Dollars)
1979 1980 1981 1982	31,192 38,501 39,809 32,432 32,480	51 47 52 60 67

Sources: Statistics Canada-International Travel Section, and Bureau of Economic Analysis.

Mexico.—Travel payments to Mexico totaled \$3.6 billion, up 8 percent. Mexico accounted for 26 percent of total U.S. travel expenditures, compared with 27 percent in 1982. A 28percent increase in expenditures in the interior of Mexico more than offset a 4-percent drop in expenditures in Mexico's border area.

An increase in the number of travelers to the interior of Mexico was the major factor contributing to increased expenditures. The pickup in travel largely reflected the substantial appreciation of the U.S. dollar against the Mexican peso during 1982 and 1983. In addition, uncertainties about currency conversion during Mexico's economic crisis in 1982 lessened in 1983. Also, to prevent rapid price increases from discouraging travel to Mexico, the Mexican Government set upper limits for hotel rates early in 1983.

The number of U.S. travelers crossing into Mexico's border area was unchanged, but average expenditures fell 5 percent. A large portion of Mexican border area travel expenditures consists of individuals' purchases of goods and personal services. The 45-percent increase in the value of the U.S. dollar against the Mexican peso was more than offset by Mexican consumer price increases of over 100 percent.

Foreign travel in the United States

Overseas.—Visitors from overseas spent \$6.3 billion for travel in the United States in 1983, a 6-percent decrease (table 5).¹ Overseas travel receipts accounted for 55 percent of total travel receipts, up from 54 percent in 1982. Average expenditures of foreign visitors in the United States increased 5 percent (table 6). This increase was more than offset by a 10percent drop in the number of foreign visitors, resulting from the continued weakness of most foreign currencies against the dollar and limited economic recovery (table 7).

The regional distribution of overseas visitors and their expenditures in

Table 5.-U.S. Receipts From Foreign Visitors in the United States

[Millions of dollars]

	1979	1980 [,]	1981 r	1982 [,]	1983 r
Fotal U.S. travel receipts	8,441	10,588	12,913	12,393	11,408
Canada Mexico U.S. border area	2,092 1,975 1,266	2,501 2,522 1,614	2,672 3,775 2,547	2,624 3,098 2,308	3,168 1,951 1,457
Overseas	4,374	5,565	6,466	6,671	6,289
Western Europe	1,667	2,192	2,549	2,476	2,157
United Kingdom France Germany Italy Netherlands	375 180 440 84 97	530 244 564 108 122	634 279 659 114 139	547 287 637 113 137	466 254 542 111 133
Caribbean and Central America	375	423	469	525	684
South America	793	1,063	1,273	1,269	1,091
Other areas Japan	1,539 699	1,887 824	2,175 949	2,401 1,084	2,357 1,128

Table 6.—Average Expenditures of Overseas Visitors in the United States, by Area

	1979	1980 '	1981 r	1982 '	1983 r
Total	605	679	713	761	799
Europe Caribbean and Central	532	592	611	655	714
America South America Other areas	439 797 686	498 886 770	550 921 816	579 993 858	562 1,034 914

^r Revised.

the United States shifted from 1982 to 1983. Western Europe accounted for 34 percent of travel receipts and 38 percent of overseas visitors in 1983, down from 37 percent and 43 percent, respectively. The Caribbean and Central America accounted for 11 percent of receipts and 16 percent of visitors, up from 8 percent and 10 percent. Seventeen percent of receipts came from South America, down from 19 percent. Thirteen percent of visitors were South American, down from 15 percent. "Other areas," primarily the Far East, accounted for 38 percent of receipts, up from 36 percent, and 33 percent of visitors, up from 32 percent.

Travel receipts from Western Europe declined 13 percent to \$2.2 billion. A 20-percent decline in the number of foreign visitors was only partly offset by a 9-percent increase in average expenditures. The French Government's imposition of foreign exchange restrictions, which limited nonbusiness French travelers to one trip abroad and \$415 in expenditures, probably contributed to the decline.

The Caribbean and Central America was the only region with an increase; receipts were up 30 percent to \$0.7 billion. The number of visitors was up 34 percent, and average expenditures were down 3 percent.

Travel receipts from South America decreased 14 percent to \$1.1 billion. Average expenditures in the United States were up 4 percent, but the number of visitors fell 17 percent.

Travel receipts from "Other areas," primarily the Far East, decreased 2 percent to \$2.4 billion. The number of foreign visitors fell 8 percent, and average expenditures were up 7 percent.

Canada.—Canadian visitors spent \$3.2 billion for travel in the United States, 21 percent more than 1982.

^{1.} Until mid-1979, the U.S. Immigration and Naturalization Service (INS) tabulated the forms that each nonresident alien must file upon entry into the United States. These tabulations were the source of BEA's estimates of foreign visitors shown in table 7. This year, the INS resumed tabulating forms for 1983 and made partial tabulations for 1981-82. These tabulations along with BEA's estimates of foreign visitors in 1979 and 1980 are the basis for BEA's revised overseas travel and passenger fare receipts for the 1980-83 period.

Table 7.—Foreign Visitors to the United States From Overseas, by Area

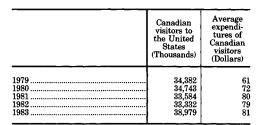
[Thousands]

	1979	1980 r	1981 ′	1982 r	1983 ′
Total	7,230	8,200	9,069	8,761	7,873
Europe Caribbean and Central America South America Other areas	3,135 855 995 2,245	3,700 850 1,200 2,450	4,170 853 1,382 2,664	3,778 907 1,278 2,798	3,020 1,218 1,055 2,580

Revised.

NOTE.—Data are not adjusted for multiple entries on a single trip. Source: U.S. Department of Commerce, Bureau of Economic Analysis, based on data of U.S. Department of Justice, Immigration and Naturalization Service.

Their expenditures accounted for 28 percent of total U.S. travel receipts, up from 21 percent. The average expenditures of Canadian Visitors increased 3 percent to \$81, and the number of Canadian visitors increased 17 percent to a record 39.0 million. Both long- and short-term travel increased. Visitors who returned to Canada the same day that they entered the United States totaled 26.5 million, up 18 percent. Visitors staying one or more nights increased 15 percent to 12.5 million. General improvement of Canadian economic conditions, along with extremely cold weather in Canada and lower U.S. prices for gasoline and other goods, encouraged travel to the United States.



Sources: Statistics Canada-International Travel Section, and au of Economic Analysis Bur

Mexico.—Travel receipts from Mexico were \$2.0 billion, down 37 per-

cent from 1982.² Mexico accounted for 17 percent of all travel receipts, down from 25 percent. The substantial depreciation of the Mexican peso against the dollar during 1982 and 1983 was the major reason for the decrease in travel receipts in both the U.S. interior and border areas. Receipts in the interior were down 37 percent due to a drop in the number of Mexican visitors. U.S. border area receipts also fell 37 percent. A large portion of border receipts are for personal purchases of goods and services by Mexicans who reside near the U.S. border area and who may also be employed in the United States. These purchases cost over five times as much in Mexican pesos at the end of 1983 as they had at the beginning of 1982.

^{2.} Prior to 1982, BEA used the Bank of Mexico's data on sales and purchases of U.S. dollars through Mexican border area banks as a basis for estimates of border area receipts from Mexico. During the period of peso depreciation in 1982 and 1983, when the Mexican Government set official exchange rates offered by banks well below market rates, much of the currency exchange took place outside the banking system. In response, the Bank of Mexico began conducting personal expenditure interviews with Mexicans in the border area as they returned from the United States. This expenditure survey is the basis for the revisions to 1982-83 border area receipts.

U.S. Business Enterprises Acquired or Established by Foreign Direct Investors in 1983

IN 1983, for the second consecutive year, foreign direct investors reduced outlays to acquire or establish U.S. business enterprises. Outlays by foreign investors, either directly or through their U.S. affiliates, were \$7.0 billion, down from \$10.8 billion in 1982 and a record \$23.2 billion in 1981 (table 1). The number of investments fell to 629 from 1,108 in 1982, and the total assets of the U.S. businesses acquired or established fell to \$19.9 billion from \$31.9 billion in 1982.¹

Because the data for 1983 are preliminary and will be revised up to include late reports, the slowdown in new investment activity from 1982 to 1983 was less dramatic than is reflected by these data. For 1982, preliminary data were revised up 26 percent for outlays (the cost to investors of the ownership interests acquired or established), 41 percent for the number of investments, and 21 percent for total assets of the acquired or established enterprises. If 1983 revi-

Note.—James L. Bomkamp, Chief, Direct Investment in the United States Branch, International Investment Division, supervised the survey from which these data are drawn. Joseph F. Cherry was project leader for editing and processing the forms. Richard Maury designed the computer programs for data retrieval and analysis. sions are of the same proportion (they are expected to be smaller), investment activity will still show a decline, though a much smaller one, from 1982. Revised data for 1983 and preliminary data for 1984 will be published at this time next year.

Many of the factors that slowed new foreign investment so dramaticallv in 1982 from its 1981 peak-the worldwide recession, weak corporate earnings, soft petroleum markets, high borrowing costs, and a strong U.S. dollar-continued to have dampening effects in 1983. Demand remained slack in a number of foreign industrialized economies last year, particularly in Europe, and the earnings of many foreign multinational companies remained weak. In particular, weak petroleum demand and prices in 1983, as in 1982, limited the earnings of the major oil companies and of oil producing countries; many of the largest foreign acquisitions in 1981 had been funded by petroleumrelated earnings. Although, in retrospect, the U.S. recovery was quite strong, there was uncertainty about its strength and duration throughout much of last year. Also, borrowing costs in the United States, although on average lower than in 1982, remained high. The uncertain earnings outlook, coupled with the high cost of funds, probably led foreign investors and their U.S. affiliates to defer major new investments, despite U.S. economic expansion.

After some temporary weakening at the end of 1982 and in early 1983, the dollar continued to appreciate against most major foreign currencies during the remainder of the year. Dollar appreciation raises the cost in foreign currency of a given dollar amount of U.S. assets. A strong surge in U.S. stock prices that began in the second half of 1982 also substantially raised the cost of acquisitions.

The next section of this article discusses investment transactions by industry and by country; the last section presents selected data on the operations of the U.S. business enterprises acquired or established. Information from outside sources, mainly press reports, is used to supplement BEA's survey data.

Because of space limitations, only summary data are published in this article. A set of 15 supplementary tables containing additional detail for 1982 and 1983 on the number of investments and investors, investment outlays, and selected operating data for the U.S. business enterprises acquired or established is available for \$10.00 from the Bureau of Economic Analysis (BE-50 Research), U.S. Department of Commerce, Washington, D.C. 20230. Make check payable to BEA, U.S. Department of Commerce.

Table 1.-Investments, Investors, and Investment Outlays

	Number				Investment outlays (millions of dollars)					
	1979	1980	1981	19827	1983 <i>°</i>	1979	1980	1981	1982 ^r	1983 <i>°</i>
Investments, total Acquisitions Establishments		1,659 721 938	$1,332 \\ 462 \\ 870$	$1,108 \\ 395 \\ 713$	629 242 387	$15,317 \\ 13,159 \\ 2,158$	12,172 8,974 3,198	23,219 18,151 5,067	10,817 6,563 4,254	6,962 4,473 2,489
Investors, total Foreign direct investors U.S. affiliates	1,770 1,072 698	$1,833 \\ 1,188 \\ 645$	1,521 979 542	1,218 720 498	682 365 317	$15,317 \\ 3,440 \\ 11,876$	$12,172 \\ 4,129 \\ 8,043$	23,219 6,158 17,060	$10,817 \\ 3,954 \\ 6,863$	6,962 2,113 4,849

^r Revised. ^p Preliminary.

^{1.} These data are from a BEA survey that covered (1) existing U.S. business enterprises in which foreign investors acquired, directly or through their U.S. affiliates, at least a 10-percent ownership interest in 1983, and (2) new U.S. business enterprises established in 1983 by foreign investors or their U.S. affiliates. The data cover those acquired or established U.S. business enterprises that had total assets of over \$1 million or that owned at least 200 acres of U.S. land. Although partial reports, primarily for identification purposes, were required to be filed for investments not meeting these criteria, the data from them are not included in the accompanying tables. For 1983, 901 partial reports were filed; total assets of the U.S. business enterprises acquired or established were \$0.2 billion.

Investment Transactions

By type of investment, most outlavs in 1983, as in past years, were for acquiring existing U.S. businesses (\$4.5 billion), rather than for establishing new U.S. businesses (\$2.5 billion). By type of investor, \$4.9 billion of total outlays were by U.S. affiliates, rather than by the foreign direct investors themselves.

Industry

Despite the year-to-year overall reduction in outlays, outlays to acquire or establish U.S. manufacturing businesses increased in 1983, to \$2.9 billion (table 2). In part, the increase reflected foreign investors' participation the restructuring of corporate in assets that often occurs after a recession. Several of the largest acquisitions in manufacturing were of operating units or subsidiaries of large multi-industry U.S. firms that wanted to streamline or refocus their operations by shedding operations that were tangential to their main line of business and that may have performed poorly during the recession.

Typically, the foreign investor or U.S. affiliate making the acquisition specialized in, and had a long-term commitment to, the industry of the acquired business. They sought expanded market presence in a familiar industry, confident that their expertise would, in the long run, improve the earnings potential of the acquired business.

Within manufacturing, outlays were concentrated in food, chemicals, and "other". The two largest acquisitions were of U.S. businesses in the food products industry; together, they accounted for more than two-thirds of total outlays of \$0.7 billion in that industry. One was the purchase of the wine operations of a U.S. soft-drink manufacturer by the U.S. affiliate of a Canadian distiller; the other was the purchase of a snack foods subsidiary of a U.S. food and consumer products manufacturer by the U.S. affiliate of a British manufacturer.² In

both cases, the U.S. sellers of the subsidiaries were shedding businesses that did not fit well with their revised long-term corporate strategy. Two other major acquisitions in the food industry were both by the U.S. affiliate of a Finnish corporation; one was of a confectionery manufacturing subsidiary of a U.S. food manufacturer that was restructuring its operations.

Total outlays in chemical manufacturing were \$0.6 billion. By far the largest single investment was the acquisition by an Italian chemical company of a 50-percent interest in certain plastics manufacturing operations of a U.S. chemical company. The acquisition was part of a larger plan of the Italian and U.S. companies to set up a worldwide joint venture that would utilize a cost-saving process developed by the Italian company to produce polypropylene, a widely used plastic. The U.S. affiliate of a Swiss chemical company acquired two chemical manufacturing subsidiaries from U.S. companies. Both U.S. companies that sold the subsidiaries needed cash to reduce debt, one because it had recently acquired an-

[Millions of dollars]

			1982 [,]					1983 P		
			ype of tment	By type o	f investor		By type of investment			of investor
	Total	Acquisi- tions	Estab- lishments	Foreign direct inves- tors	U.S. affiliates	Total	Acquisi- tions	Estab- lishments	Foreign direct inves- tors	U.S. affiliates
All industries	10,817	6,563	4,254	3,954	6,863	6,962	4,473	2,489	2,113	4,849
Agriculture and forestry	250	71	179	138	112	166	(^D)	(^D)	80	87
Mining	342	(^D)	(P)	(^D)	(^D)	(^D)	(^D)	(^D)	0	(^D)
Petroleum	819	554	265	125	694	316	225	91	51	265
Manufacturing	2,379	2,141	239	552	1,828	2,868	2,754	115	678	2,190
Food and kindred products Paper and allied products		(^D) (^D)	(P) (P)	(Þ) (Þ)	(P) (P)	683 56	682 (^P)	1 (P)	3 (P)	680 (^P)
Chemicals and allied products Industrial Drugs Other	114 (P)	(b) (b) (b) (b)	(Þ) (Þ) 0	61 (^D) 0 (^D)	301 (^P) (^D) 127	647 325 0 322	646 325 0 321	1 0 0 1	(P) (P) (P) (P)	(P) (P) (P)
Primary metal industries Fabricated metal products Machinery, except electrical Electric and electronic equipment Other	22 803	(^P) 17 761 175 360	(^D) 5 42 2 25	22 8 72 48 162	60 14 731 129 222	(^D) (^D) 81 342 891	(^D) (^P) 79 323 823	0 (^D) 2 19 68	0 18 46 33 315	(^D) (^P) 34 308 577
Wholesale trade Motor vehicles and equipment Metals and minerals Farm product raw materials Other	64 3 32	376 (^P) 0 (^P) 312	87 (P) 3 (P) 52	198 10 3 31 154	264 54 0 1 209	169 45 1 4 119	132 (^b) 1 0 (^b)	37 (^b) (*) 4 (^b)	42 (P) 1 (P) 12	127 (^(b)) (^(b)) 107
Betail trade	684 427 499 759 3,289 907	670 364 350 (^P) 274 786	14 62 149 (^P) 3,015 121	94 277 325 401 1,498 (°)	590 149 175 358 1,791 (^P)	80 156 445 121 2,066 (^P)	72 (⁰) 352 (⁰) 249 480	8 (P) 93 (P) 1,817 (P)	19 152 253 (P) 634 (P)	61 4 192 (⁰) 1,432 426

Preliminary. Suppressed to avoid disclosure of data of individual companies. 'Less than \$500,000.

^{2.} Detail in this section is by country of ultimate beneficial owner rather than by country of foreign parent. See following discussion by country for definitions.

other U.S. company, and the other because it had recently fought off a takeover attempt.

Outlays in "other" manufacturing, at \$0.9 billion, were mainly in printing and publishing (\$0.4 billion) and stone, clay, and glass products (\$0.3 billion). In printing and publishing, the largest single acquisition was of a major Southwest daily newspaper by a Canadian publisher. Another Canadian publishing and communications company acquired several businesses, including two financial news periodicals, through its U.S. affiliates. Also, German investors acquired a 50-percent interest in a large Midwest printing plant of a U.S. printing and publishing company; the U.S. and German companies had joint ventures in two other printing plants in the Southeast. In stone, clay, and glass, over one-half of the outlays reflected two separate acquisitions of cement plants from a U.S. company; one acquisition was by the U.S. affiliate of a British company, the other by a German company. (The U.S. firm selling the plants was the one mentioned above that fought off a takeover attempt.)

Outlays in real estate were \$2.1 billion. As in past years, the largest investments in terms of outlays were for commercial and office buildings in major U.S. cities. In 1983, these included the purchase of a downtown office building in New York City by a major Canadian real estate development company, the purchase of several buildings in San Francisco by British pension funds, and the purchase of a building in Philadelphia by Middle East interests.

As shown in the accompanying tabulation, the number of new foreign investments in real estate fell, and outlays per investment rose, in both 1982 and 1983. (Both preliminary and revised data are shown because the number of investments and investment outlays in real estate are usually subject to large revisions.) The increase in outlays per investment indicates that the decline in real estate investment in the past 2 years was concentrated among smaller investments.

	Num- ber of	Millions of dollars				
	ber of real estate invest- ments	Outlays	Outlays per invest- ment			
Preliminary: 1981 1982 1982 1983	439 347 248	2,088 2,325 2,066	4.8 6.7 8.3			
Revised: 1981 1982 1983	680 485 n.a.	3,737 3,289 n.a.	5.5 6.8 n.a.			

n.a. Not available

The overall decline in real estate investment mainly reflected the worldwide recession, the strong U.S. dollar, and sluggish appreciation of

Table 3.—Investment Outlays by Country of Each Foreign Parent and by Country of Each Ultimate Beneficial Owner 1

[Millions of dollars]

		1982 ^r			1983 ^p	
	By country of foreign parent	By country of ultimate beneficial owner	Difference	By country of foreign parent	By country of ultimate beneficial owner	Difference
All countries	10,817	10,817	0	6,962	6,962	0
Developed countries	8,292	8,358	66	5,553	5,777	224
Canada	1,054	1,196	142	702	952	250
Europe	6,603	6,418	- 185	4,496	4,411	85
European Communities (10) Belgium and Luxembourg France Germany Italy Netherlands Denmark, Ireland, and Greece. United Kingdom	247 430 506	4,984 186 455 601 (^D) 330 (^D) 3,128	$\begin{array}{r} -650 \\ -61 \\ 25 \\ 95 \\ 114 \\ -1,157 \\ 32 \\ 302 \end{array}$	3,979 (⁰) 252 480 (⁰) 1,287 (⁰) 1,633	3,786 (P) 259 483 (P) 433 (P) 2,120	-193 85 7 3 -855 -855 77 487
Other Europe Sweden Switzerland Other	. 113	1,434 113 1,164 157	465 0 396 69	516 62 287 168	625 62 387 175	108 0 101 7
Japan	. 585	587	2	290	290	0
Australia, New Zealand, and South Africa	50	157	107	65	124	59
Developing countries	2,526	(^D)	(^D)	1,409	1,171	-238
Latin America Panama Bahamas Bermuda and British Islands, Caribbean Netherlands Antilles Other	35	965 181 4 156 371 253	$-988 \\ 146 \\ -28 \\ -1,211 \\ 104$	1,038 108 2 108 786 34	252 12 3 104 24 108	$-786 \\ -96 \\ 1 \\ -4 \\ -762 \\ 74$
Other developing Israel Other Middle East Other Africa, Asia, and Pacific	. 1	(^P) 1 863 (^P)	(^P) 0 528 (^P)	372 (^D) 270 (^D)	919 (^D) 550 (^D)	548 0 280 268
United States	. 0	(^D)	(^D)	0	14	14
Addendum: OPEC	378	775	397	279	561	282

'Revised.

^pPreliminary.

^D Suppressed to avoid disclosure of data of individual companies.

1. The foreign parent is the first foreign person in the ownership chain of the acquired or e tablished U.S. business enterprise. The ultimate beneficial owner is that person in the ownershi

chain of the acquired or established U.S. business enterprise, beginning with the foreign parent, that is not owned more than 50 percent by another person. Where more than one investor participated in a given investment, each investor, and each investor's outlays, are classified by the country of each individual foreign parent or of each individual ultimate beneficial owner.

SURVEY OF CURRENT BUSINESS

Table 4A.—Total Assets, Sales, Net Income, Employment, and Acres of Land Owned by U.S. Business Enterprises Acquired or Established in 1982, by Industry of U.S. Business Enterprise¹

[Millions of dollars or number]

	Total assets of	· · ·	U.S. busin	ess enterprise	s acquired			U.S. busines	ss enterprises	established	
	assets of all U.S. business enterprises acquired or established	Total assets	Sales ²	Net income	Number of employees	Number of acres of land owned	Total assets	Sales ²	Net income	Number of employees	Number of acres of land owned
All industries	31,852	24,603	20,682	373	225,673	1,012,480	7,249	1,397	-61	8,169	587,442
Agriculture and forestry	442	234	(^D)	-5	(^D)	(^D)	207	5	-5	77	494,502
Mining	1,387	(^D)	1,040	58	9,245	(^D)	(^D)	(*)	(*)	(^D)	(^D)
Petroleum	1,650	1,296	4,031	65	3,717	(^D)	353	106	-47	78	1,374
Manufacturing	5,318	4,618	6,904	-32	83,786	(^D)	700	450	-13	2,989	8,180
Food and kindred products Paper and allied products	474 487	(^D) (^D)	1,179 (^P)	32 3	7,293 (^P)	1,790 (^P)	(^D) (^D)	3 (P)	-1 (^D)	(^D) (^D)	(Þ) (Þ)
Chemicals and allied products Industrial Drugs Other	712 585 (^D) (^D)	(^b) (^b) (^b)	632 457 (^P) (^P)	-64 (^b) (^b) (^b)	5,743 (^P) 1,647	ල ල ල ල	(^D) (^D) 0 0	(Ф) (Ф) 0 0	$-2 \\ -2 \\ 0 \\ 0$	(^D) (^D) 0 0	(^D) (^D) 0 0
Primary metal industries Fabricated metal products Machinery, except electrical Electric and electronic equipment Other		(P) 62 (P) (P) 1,839	(⁰) 165 1,321 560 2,734	5 2 58 -16 -51	(⁰) 1,122 16,356 10,107 40,124	(^P) 18 915 171 (^P)	(P) 5 (P) 63	(P) (P) (P) 32	(*) (P) (P) 4 1	(^P) (^P) (^P) 273	(^D) 0 (^D) (^D)
Wholesale trade Motor vehicles and equipment Metals and minerals Farm product raw materials Other	1,227 118 (^P) (^P) 965	986 (P) 0 (P) 859	1,491 (^D) 0 (^D) 1,192	(*) -1 0 2 -1	10,942 (^p) 0 (^D) 10,227	2,493 147 0 2,346	240 (^P) (^P) 14 106	292 (P) (P) 5 195	-15 1 (^D) (*) (^D)	1,600 (P) (P) (P) 962	367 (^D) 0 (^D)
Retail trade Banking Finance, except banking Insurance Real estate and combined offices Other	1,626 7,238 4,524 1,541 4,122 2,777	1,610 5,822 (^{P)} 1,342 635 2,492	2,831 633 847 706 (P) 1,986	32 17 43 69 7 119	60,544 6,577 (^{P)} 2,925 861 38,662	1,054 (^(P)) (^(P)) 11,301 55,591	16 1,416 (^P) 3,487 285	2 49 44 14 282 153	(*) -5 4 5 18 -2	(⁰) 268 221 42 506 2,241	24 (^b) (^b) 0 71,429 (^b)

^b Suppressed to avoid disclosure of data of individual companies.
* Less than \$500,000(±).
1. Data for 1982 are revised. For acquired businesses, data are for, or as of the end of, the fiscal

year preceding the year of acquisition; for newly established businesses, data are projections for, or as of the end of, the first full year of operation. 2. Sales or gross operating revenue, excluding sales taxes.

Table 4B.—Total Assets, Sales, Net Income, Employment, and Acres of Land Owned by U.S. Business Enterprises Acquired or Established in 1983, by Industry of U.S. Business Enterprise ¹

[Millions of dollars or number]

<u> </u>	Total assets of		U.S. busine	ess enterprise	es acquired			U.S. busines	s enterprises	established	
	assets of all U.S. business enterprises acquired or established	Total assets	Sales ²	Net income	Number of employees	Number of acres of land owned	Total assets	Sales ²	Net income	Number of employees	Number of acres of land owned
All industries	19,866	13,837	13,069	308	92,172	130,761	6,029	1,017	(*)	4,309	226,835
Agriculture and forestry	203	(^D)	(^D)	_1	(^D)	(^D)	(^D)	14	_1	103	198,375
Mining	27	(^D)	(^D)	1	(^D)	(⁰)	(^D)	0	0	0	(^D)
Petroleum	743	569	(^D)	3	1,303	2,812	173	(^D)	21	34	(^D)
Manufacturing	3,502	8,312	4,534	128	45,385	51,729	191	218	-8	2,359	(^D)
Food and kindred products Paper and allied products	523 (^D)	521 (^D)	937 (^P)	$41 \\ 5$	7,355 (^P)	4,774 (^D)	2 (^D)	0 (⁰)	0 (*)	(^D) (^D)	(b) (b)
Chemicals and allied products Industrial Drugs Other	1,117 561 0 556	$1,113 \\ 561 \\ 0 \\ 552$	1,203 541 0 661	42 26 0 16	6,839 2,221 0 4,618	4,640 (^P) (^P)	4 0 0 4	(P) 0 0 (P)	(*) 0 (*)	(^D) 0 0 (^D)	0 0 0 0
Primary metal industries Fabricated metal products Machinery, except electrical Electric and electronic equipment Other	118 203	(^Þ) 116 202 428 (^Þ)	(^P) 251 295 614 1,029	(^b) ([*]) 12 47	(^P) 2,569 3,420 10,152 14,144	(^b) (^b) 391 (^b) 7,507	0 2 1 19 (^p)	0 1 3 (^P) 125	0 (*) -4 -1 -3	0 (P) (P) (P)	0 (P) 0 (P) (P)
Wholesale trade Motor vehicles and equipment Metals and minerals Farm product raw materials Other	85 (^P)	241 (^b) (^p) 0 175	637 83 5 0 550	1 (*) (*) 0 (*)	2,765 (^b) (^b) 0 2,389	377 (^P) 0 0 (^P)	78 (^P) 4 (^P) 47	108 0 (^P) (^P) 51	-2 0 (*) (*) -2	58 0 (P) 43	(^b) 0 0 (^b)
Retail trade Banking Finance, except banking Insurance Real estate and combined offices Other	6,355 4,751 331 2,739	276 (P) 4,631 (P) 546 495	899 (^P) 87 104 637	12 (P) 700 (P) 3 20	10,679 (^{P)} 2,507 652 (^{P)} 24,170	(0) (0) (0) (0) 3,097	33 (P) 120 (P) 2,192 93	9 35 5 (^(P)) 126 (^{P)}	$\begin{array}{c} 1 \\ -24 \\ 1 \\ 1 \\ 10 \\ (*) \end{array}$	(⁰) 415 24 (⁰) 134 748	(⁰) (⁰) 23,437 (⁰)

^D Suppressed to avoid disclosure of data of individual companies.
* Less than \$500,000 (±).
1. Data for 1983 are preliminary. For acquired businesses, data are for, or as of the end of, the

fiscal year preceding the year of acquisition; for newly established businesses, data are projec-tions for, or as of the end of, the first full year of operation. 2. Sales or gross operating revenue, excluding sales taxes.

U.S. real estate values. Other factors may have particularly affected smaller investments, which tend to be made by individuals and other small investors, many of whom are located in developing countries. The bullish U.S. stock market may have attracted funds from smaller foreign investors who otherwise might have invested in U.S. real estate. Tighter currency controls in some developing countries may also have slowed investment. Finally, a few investors may have been deterred by ongoing discussions in the United States about tightening U.S. tax and disclosure regulations on foreign ownership of U.S. real estate; such regulations, if implemented, would primarily affect smaller investors.

Country

In table 3, investment outlays are classified both by country of foreign parent and by country of ultimate beneficial owner (UBO). The foreign parent is the first foreign person in the ownership chain of the acquired or established U.S. business; the UBO is the person in the ownership chain, beginning with the foreign parent, that is not owned more than 50 percent by another person. The country of the UBO may be the same as that of the foreign parent, a different foreign country, or the United States.³

Investments with UBO's in developed countries accounted for 83 percent of total investment outlays in 1983. As in 1982, outlays for investments with British UBO's were by far the largest, at \$2.1 billion, accounting for 30 percent of all 1983 outlays. (The year-to-year decline in outlays was also largest—\$1.0 billion—for investments with British UBO's.) Among other developed countries, outlays were highest for investments with UBO's in Canada (\$1.0 billion), Germany (\$0.5 billion), and the Netherlands and Switzerland (\$0.4 billion each).

In developing areas, outlays were highest, at \$0.6 billion, for investments with UBO's in "other Middle East"; two-thirds of the total was for investments with UBO's in Kuwait. Investments with UBO's in Hong Kong accounted for about \$0.2 billion of total outlays in "other Africa, Asia, and Pacific."

Investments for which the UBO and foreign parent differed accounted for \$1.9 billion of total outlays. Because many UBO's in other countries hold their U.S. investments through companies in the Netherlands and the Netherlands Antilles, primarily to take advantage of favorable tax treaties, outlays for those two countries were much lower—by \$0.9 billion and \$0.8 billion, respectively—when classified by country of UBO than by country of foreign parent.

Selected Operating Data

Total assets of U.S. business enterprises acquired or established in 1983 were \$19.9 billion, about two-thirds of the comparable 1982 total (tables 4A and 4B). By industry of the U.S. business acquired or established, assets were concentrated in banking (\$6.4 billion), finance, except banking (\$4.8 billion), manufacturing (\$3.5 billion), and real estate (\$2.7 billion). In the last two industries, the investments discussed earlier that accounted for the largest investment outlays also accounted for a large share of the assets acquired or established.

More than one-half of all the assets in banking were accounted for by a single investment, the acquisition of a majority interest in a bank holding company by an Irish commercial bank. Other large asset totals were associated with establishment of new U.S. branches by major banks in Britain, Switzerland, Italy, and Saudi Arabia.

In finance, except banking, three acquisitions accounted for most of the assets. A U.S. bank owned by Hong Kong interests and a U.S. investment company owned by Canadian interests each acquired companies dealing in U.S. Government securities. The third acquisition was of a partial interest in an investment banking firm by a British investment company.

U.S. businesses acquired in 1983 had total assets of \$13.8 billion. The assets were concentrated in manufacturing and finance, except banking. Acquired businesses employed 92,000 workers, of which one-half were in manufacturing. Outside of manufacturing, employment was highest in retail trade, mainly reflecting the acquisition of a supermarket chain, and in "other" industries, mainly reflecting two acquisitions of service industry firms. Nearly one-half of the 131,000 acres of land owned by acquired businesses was held by a land development company acquired by the U.S. affiliate of a Canadian company.

U.S. businesses established in 1983 had assets of \$6.0 billion and sales of \$1.0 billion. They employed 4,000 workers and owned 227,000 acres of U.S. land, mainly timberland.

^{3.} A UBO and its country could not be identified for a few investments in both 1982 and 1983; total outlays for these investments were \$0.2 billion in 1982 and near zero in 1983. For purposes of classification, where the UBO could not be identified, the country of the UBO was assumed to be the same as that of the foreign parent.

The Underground Economy: An Introduction

KECENT discussion of the underground economy has raised important questions: How large is it? Is it growing faster than the rest of the economy? How much tax revenue is lost because of it? Are government policies miscued because it distorts major economic statistics?

The press has explored the underground economy extensively-in the United States, particularly just before the deadline for filing Federal individual income tax returns. Professional groups—including the Federal Statistics Users' Conference, the American Bar Association's Section on Taxation, and the American Institute of Certified Public Accountants-have held conferences or prepared reports relating to the underground economy. Business groups have focused on it as a consideration in forecasting and planning. Interest has not been confined to the United States. International organizations, particularly the Organization for Economic Cooperation and Development, have sought to clarify issues relating to it. Several international conferences of academic and government researchers have been devoted to it, as was a 1983 conference session of the International Association for Research in Income and Wealth.

This article draws on the variety of materials that is the product of this widespread interest. It has four parts:

- A sorting out of the activities covered by the term "underground economy," a review of incentives to engage in these activities, and a discussion of some definitional issues;
- A synopsis of the various methods that have been used to measure the underground economy or parts of it, and a roundup of results for the United States;
- A survey of the implications of

the underground economy, emphasizing its implications for major economic statistics;

• A discussion of the treatment of the underground economy in the U.S. national income and product accounts.

The order of discussion was dictated by several considerations. First, as will become obvious, it is necessary to clarify what is meant by the term "underground economy." The synopsis of measurement methods is useful as background for the roundup of the estimates of the size and growth of the U.S. underground economy. This roundup, in turn, is useful as background for the discussion of implications. The emphasis on implications of the underground economy for major economic statistics leads to the discussion of its treatment in the national income and product accounts.

The first three parts of this article appear in this issue of the SURVEY OF CURRENT BUSINESS. The fourth part will appear in a later issue in order to allow presentation in June of an article that presents material necessary for the evaluation included in the fourth part. The June article will describe the improved adjustments introduced by BEA for 1977 to correct for the misreporting in tax return information used to estimate the national income and product accounts. These two articles have a common purpose: to provide users of BEA's accounts with information needed to judge the strengths and weaknesses of the accounts as they are affected by the underground economy. Further, an article to appear in the fall will present a new indirect method of measuring the growth of the underground economy.

Full citations for the sources mentioned in the text and in the tables of the article in this issue are provided in the bibliography.

I. Underground Activities

The economic activities variously discussed under such catchy titles as "underground," "unobserved," and "hidden" economy are numerous.¹ Some of them are:

- working "off the books" or "moonlighting" (second-jobbing) for cash so that the wages are not reported to tax and social security authorities,
- smuggling,
- illegal gambling,
- working without a necessary permit, as in the case of illegal aliens,
- illegal trade in drugs, tobacco, and alcohol,
- bartering of goods and services,
- do-it-yourself repair,
- padding expense accounts and using office equipment for private purposes (concealing income-inkind),
- illegal prostitution,
- working while collecting disability or unemployment insurance benefits,
- growing own fruits, vegetables, and other foods,

Note.---Tracy R. Tapscott assisted in the preparation of this article.

^{1.} A partial list of names used in the United States and abroad would include, in addition to the three cited: cash, black, unofficial, informal, irregular, unrecorded, moonlight, twilight, gray, shadow, subterranean, marginal, dual, second, parallel, and illegal. The choice of name sometimes reflects an author's point of view: for employment, moonlight; for tax administration, unreported; and for law enforcement, illegal. Some authors have drawn distinctions among the names according to the activities they intended to cover. Others, although they have used different names, do not appear to have intended different coverage. In summary, a generally accepted taxonomy has not yet emerged. For example, "informal" has been used by Gershuny to refer to a collection of activities that include household activities, communal activities, and theft and tax evasion, but has been used by the Internal Revenue Service to refer to vendors carrying out their business "on the side."

- loan sharking.
- selling homegrown produce, or homemade items, or personal services that provide income that is not, or is only partially, reported to tax authorities.
- "skimming," that is, pocketing some part of cash-register receipts.
- dealing in land and other assets that yields income not reported to tax authorities.
- working for tips that are not, or are only partially, reported to authorities.
- theft, including theft from business by shoplifters and employees.
- covert rentals.

It is immediately apparent that these activities are quite diverse. Their diversity has several dimensions. First, they include the activities of wage earners, proprietors, investors in real and financial assets, and households-a wide range of economic transactors. Second, most involve production of some good or service. Others, such as theft from households, involve only redistributions of income or property from one person to another.

Third, some take place in the market economy, others outside it. This point is brought out in table 1, which shows, for a selection of the activities just listed, incomes classified as income from market production, on the one hand, and from nonmarket production, on the other. Such broad coverage is in line with that outlined by a number of authors-both those developing a conceptual framework and those with a more empirical interest. (See, for example, Feige 1980 and Gershuny, who develop frameworks, and Skolka.) Also, a 1983 international conference on the "shadow" economy included papers that ranged from household production to smuggling. However, work-largely by private researchers-has been underway on the measurement and analysis of the nonmarket economy for a number of years (see especially Eisner and Kendrick). Accordingly, the new interest has focused on the market underground. Thus, for this article, the coverage of what will be called the underground economy will be limited to what are generally thought of as market activities: most nonmarket activities are set aside. Of the activities listed earlier as sometimes classified as underground, two will be set aside for this article: do-it-yourself repair

and growing own food; barter is a borderline case.²

The fourth, and final, dimension of the diversity is also apparent in table 1 for the now narrowed list of activities-that is, those that will be referred to as part of the underground. These include activities that are illegal in themselves, as illustrated by income from trade in drugs, and activities that are legal except that the activities or income from them are not reported, as required, to tax, immigration, licensing, or other authorities. This contrast is the basis for the terminology that will be used in this article in referring to income from the underground economy. Incomes from illegal activities are referred to as "illegal-source" incomes. Incomes from activities that are legal-even though tainted with illegality, be-

Table 1.—Classifications of Income, Illustrative Underground Incomes, and the Relationship of Underground Incomes to Two Major Income **Aggregates in the United States**

Classificatio	ns of income		Relationship of illustrative underground incomes to:							
Market or	Legal- or illegal-	Illustrative underground incomes ³	Income as defined for Federal individual income tax			Income as defined for GNP				
nonmarket ¹	source ²		In scope	Note	In scope	Note				
	Illegal-source	Income from drug trafficking.	Yes	Illegality of activity does not affect liability; some is reported in "laundered" form.	No	By definition, GNP excludes illegal activities, but no adjustment is made to remove "laundered" income.				
		Off-the-books wages.	Yes		Yes	Adjustments are made to include legal- source income missing from basic source data (which are not, however, individual income tax returns in this case).				
Market	Legal-source, but a reporting requirement not met	Income of unlicensed, work-at-home beau- tician who is below income tax filing threshold.	No	Legislation defines levels of gross income below which filing of a tax return is not required.	Yes	Adjustments are made to include legal- source income missing from basic source data.				
		Capital gains not reported to tax authori- ties	Yes		No	Capital gains are out of scope because they are not income from production.				
	Ι	Covert rent of a room in owner's house.	Yes		Yes	Method of estimating does not rely on rent recipient's report.				
		Illegal alien's wages.	Yes	Immigration status does not affect liabil- ity.	Yes	Immigration status does not affect intent to measure wages.				
	ļ	Value of auto repair done by neighbor (in exchange for babysitting services) not reported to tax authorities	Yes	Fair market value of bartered goods and services is to be reported as income.	No	Transactions between households are not in scope.				
		Do-it-yourself TV repair.	No	[No	Ţ				
Nonmarket	Legal-source	Food grown on farms for own use.	No		Yes	Food grown and consumed on farms is one of a few imputations for nonmar- ket production.				
	Illegal-source	Marihuana grown for own use.	No		No					

See footnote 2 in text.
 See text for definitions.
 Drawn from the comprehensive list of activities sometimes classified as underground.

^{2.} The boundaries between market and nonmarket, whether drawn in reference to underground or other activities, are not always precise. For example, it is difficult to know where to draw the boundary with regard to barter: Some barter transactions, such as occasional exchanges between neighbors, seem to belong in the nonmarket economy and others, such as when one party advertises through an exchange to find the other, seem to belong in the market economy, but in between there is a gray area. Thus, because judgments are involved and these may vary according to the purpose, the word "most" was used in the sentence about setting aside nonmarket activities.

cause they are misreported—are referred to as "legal-source" incomes. These are illustrated in table 1 by offthe-books wages, unreported capital gains, and several others. A few profiles will further identify the kind of situations in which legal-source underground incomes occur.³

• A waitress works part-time in a restaurant catering to the breakfast trade; on weekends she helps in an uncle's dry cleaning business. Neither employer withholds income taxes or contributes toward social security or unemployment insurance. She reports neither the wages they pay, nor the tips she earns, to the tax authorities; she does not file a Federal income tax return. By working completely off the books, she saves both herself and her employers the payment of employment and income taxes.

• A carpenter works weekends for cash, doing home repairs and building porches and other small additions. He counsels prospective employers not to bother with building permits. The carpenter does not report his weekend earnings to tax authorities. He saves the payment of taxes; his employers save the trouble and fee of the building permit and avoid alerting property-tax assessors to the enhanced value of their property.

• An unemployed writer does freelance editing, but reports that she is unemployed in order to collect unemployment benefits.

• A dentist and a housepainter trade services: The dentist provides braces for the painter's teenage daughters and the painter provides a new interior paint job for the dentist's house. Neither reports as income the value of the services received, and thus both save taxes. They came to this arrangement at a taxpayers' protest meeting, where they agreed that the best way to bring big government under control was to withdraw tax support.

• A semi-retired couple places a "Rooms" sign outside their home in a beach community on summer weekends. They do not report the rents collected to tax authorities. • The two partners in a prosperous law firm take turns handling the smaller cases—usually wills and divorce proceedings. Neither reports all his income from these cases on his income tax return.

Incentives for underground activity

Diverse as underground activities are, they can usually be traced to one or more of several, sometimes interrelated incentives: the desire to evade taxes, the desire to circumvent regulations or prohibitions, the desire to circumvent eligibility and means tests for income support programs; and, perhaps least tangible and separable from the others, the desire to express disaffection with the means and goals of government.⁴

These incentives, which will be explored next, are a necessary but not sufficient condition for participation in the underground economy. The opportunity to participate must also exist, and factors related to opportunity help to explain when and where underground activities occur. Some of these factors are available time (for example, a short enough workweek in the regular economy to permit moonlighting); access to transactions where receipts can escape notice or not leave an "audit trail"; and willingness of the other party in a transaction-for example, one's employee or employer, or buyer or seller-to go along with the evasion or circumvention.

Tax evasion is usually thought to be the most important incentive.⁵ In the United States, interest related to the underground economy has centered on Federal individual income taxes. However, other Federal income taxes, unemployment insurance and social security contributions (often referred to as employment taxes), and State and local taxes—such as sales taxes and cigarette excise taxes—are also evaded to various degrees. In other countries, more attention has been paid to evasion of value-added taxes and employment-related taxes (which, in some European countries, amount to about one-half of basic pay). For employment-related taxes, benefits of evasion flow to both employer and employee: The employee's wage is free of his share of the tax, and the wage bill of the employer is lower by not paying his share.

In turn, tax evasion can be related to a number of incentives. (For a survey, see Witte and Woodbury.) In general, high rates are an incentive to evade taxes. Further, a person's likelihood of attempting to evade taxes is probably related to his or her perception of the probability of being caught and, if caught, the probability and severity of the penalty. The likelihood of attempting to evade taxes may also be related to the perception of the fairness of the tax system and of whether others-friends and associates, or "everybody"-attempt to evade taxes. In the United States, rising marginal tax rates have increased incentives to hold down tax liability, either by overstating deduction items, understating income, or both.

Further, tax evasion may occur even when it is not the prime motive. A person may, for example, work off the books in order to conceal an illegal immigration status. Another factor that contributes to pervasiveness of tax evasion as a feature of the underground economy is that the attempt to evade one kind of tax may necessitate the evasion of others. For example, an employee who tries to evade the income tax may have to evade the social security tax, because employers must report withholding for both income and social security taxes on the same Internal Revenue Service form.

The regulations that motivate underground activities impose a wide range of limitations on the conditions under which income can be earned (or from the employer's point of view, the conditions under which workers can be employed). The benefits from circumventing these regulations are added income (or reduced costs) and greater convenience. Two important groups of regulations relate to working conditions and to eligibility for work. In the first group are regulations that stipulate a minimum wage, maximum hours and overtime, safety conditions, and environment protec-

^{3.} Profiles are included in Ferman, Berndt, and Selo (which is an ethnographic study of the Detroit area), and in a number of popular accounts of the underground economy. For the latter, see, for example, "The Underground Economy" in U.S. News and World Report and "The Underground Economy's Hidden Force" in Business Week.

^{4.} Other factors that may be important, particularly in countries other than the United States, are the desire to offset the effect of adverse economic conditions and the desire for flexibility in employment arrangements (for example, work at home).

^{5.} Tax evasion is to be distinguished from tax avoidance, although the line between them is sometimes hard to draw. Avoidance involves handling affairs in such a way as to take advantage of an alternate tax rate, deductions and credits, or an alternative method of assessment. Evasion is an illegal escape from taxes.

tion. In the second are those that stipulate a minimum age or a work permit for aliens. Also, in many jurisdictions, certification is required for the practice of a number of profesexample, sions—for electrician, plumber, doctor and other medical personnel, and beautician. Similarly, licenses are often required for the operation of personal care facilities, such as those that provide child care or nursing. (See especially Tanzi 1983a for mention of additional kinds of regulations in goods, financial, and foreign exchange markets.)

Some potentially income-earning activities are prohibited as inherently contrary to the public interest, and it is the income from these activities that is identified as illegal-source income. Of these, trading in drugs, gambling operations (sports and horse numbers games, betting, casino games, etc.), and prostitution are the most widely prohibited. In the United States, trafficking (that is, unauthorized manufacture, distribution, or possession with intent to distribute) in drugs is a Federal offense, and prostitution is illegal in 38 States; in general, these activities, and also gambling, are more widely prohibited in the United States than in other countries. Other widely prohibited activities are loansharking (making loans at exorbitant rates), arson for purposes of fraud, and fencing (trading in stolen goods). In some jurisdictions, the production, distribution, or both, of alcoholic beverages, cigarettes, firearms, and pornographic material are prohibited.

Income support programs may require as a condition for eligibility that a person (or other persons in a household) not have a job, or they may graduate downward a person's benefits as other income rises. An obvious example is unemployment insurance, under which a person must, in some defined sense, be unemployed in order to collect benefits. At present, under the Old-Age, Survivors, and Disability Insurance program, persons who are otherwise eligible for retirement benefits lose \$1 of benefits for every \$2 they earn over a set amount-\$5,160 if they are 65 years old or under, and \$6,960 if they are over 65. In cases such as these, the circumvention of eligibility and means tests is a way of securing or maintaining the income support.

Finally, disaffection with the means and goals of government may be expressed in part by refusing to comply with tax codes or reporting requirements of government. The source of the disaffection may be general, for example, the feeling that government has gone too far in replacing individual activity, or that taxes are not being well spent to meet expressed public needs. In other cases, the source may be opposition to a particular policy or project. Increased awareness of the underground economyeven if it is not growing relative to the regular economy-may add to the perception that government is unable to deal effectively with noncompliance of various kinds. Hence, increased awareness may compound the disaffection.

Definitional issues

The discussion of activities and incentives to participate in the underground economy points to a broad, general characterization of the underground economy: economic activities—or income from those activities—that elude, wholly or partly, a tax or other reporting requirement.⁶

As the focus moves to measurement, such a characterization is not specific enough to be useful. For example, as the Internal Revenue Service has emphasized in explaining the concept of noncompliance, in Income Tax Compliance Research: Estimates for 1973-1981, there is no category labeled "underground economy." "This is because the amounts of unreported income which enter the estimates do not necessarily correspond to any concepts commonly associated with this metaphorical term. . . . The term 'un-derground economy' . . . has little meaning for tax administration purposes."

Instead, several different definitions are required, specific to the purpose or orientation. This point is brought out in table 1 by the contrast between the illustrative incomes that are in scope for income as defined for Federal individual income tax and those that are in scope for income as de-

fined in the national income and product accounts (for which GNP is a shorthand). The table shows that many of the items in scope for income tax are also in scope for GNP, and vice versa. However, income below the filing threshold, illustrated by the income of an unlicensed beautician who works out of her home, is not in scope for income tax, but is in scope for GNP. Income from illegal activities is in scope for income tax, but not for GNP; the illegality of the activity does not affect liability to pay taxes, but does affect its coverage for GNP because, by definition, GNP excludes them.⁷ Orientations other than tax compliance and GNP could be illustrated. For fiscal administration, for example, in-scope underground activities would include, in addition to tax evasion, activities related to circumventing eligibility or means tests in order to claim unemployment or other benefits (see especially van Eck).

The "notes" columns of the table make a further point that income that is not reported on tax returns does not necessarily escape GNP. This point is particularly important because it was often missed in early work on the underground economy; it was mistakenly assumed that, because income tax return information is one of the sources used to estimate GNP, unreported income on income tax returns was unmeasured income in GNP.⁸ One reason that unreported income does not escape GNP is that, to the extent that income tax return information is used in preparing the U.S. accounts, adjustments are made by BEA to cope with the misreported income. The table illustrates this reason with the income of the beautician referred to earlier. The second reason is that income tax return in-

^{6.} As a rule, it is impossible to separate misreporting due to ignorance of the reporting requirement and due to unintentional reporting errors, on the one hand, from intentional—that is, underground—misreporting, on the other.

^{7.} The exclusion of illegal activity from the U.S. GNP suggests that a definition of the underground economy in terms of income or production that escapes the national economic accounts must be viewed with caution—for example, in international comparisons. Not all countries exclude illegal activities from coverage in their accounts. Thus, if the same percent of all income were illegal-source incomes in two countries, but one set of accounts were designed to include illegal activities and the other were not, one country would have an underground economy under such a definition and the other would not.

^{8.} Gutmann 1979, for example, rather clearly implies this. He purports to measure essentially tax evasion, but draws conclusions in terms of understatement of income and product.

formation is not the only kind of information used in estimating GNP nor the incomes associated with it. The table illustrates this reason with covert rent. The estimating method uses information on the size of the dwelling, from a housing survey, and average rent of rented dwellings; neither item depends on a person's reporting his covert income from renting a room in an owner-occupied dwelling.⁹

II. Measurement: Methods and Results

Underground activities are not new, but concerted attempts to measure them are. It is already commonplace, however, to say that to measure underground activities is difficult because generally they are meant by those engaged in them to be undetected. Thus, measurement will require, at the least, more ingenuity and, in some cases, different specific data sources than those used to measure other aspects of the economy.

Measurement methods

A varity of methods has been used in the United States and other countries to measure the underground economy. The methods can be classified in several ways, including:

- Micro- versus macro-economic,
- Yielding information on compositional detail versus yielding only a single aggregate,
- Yielding information for one or a few points in time versus yielding a time series,
- Direct versus indirect.

The most commonly used classification is direct versus indirect. As used in this article, direct measures are those that depend on contact with, or observation of, persons possibly involved in an underground activity. Indirect measures resort to some kind of indicator of underground activity.¹⁰ Once the methods are classified in this way, the other possible classifications often are characteristics of the direct and indirect methods, respectively. Direct measures often are micro in their approach and yield information on composition and for points of time; in addition, they are often lower bounds on the size of the underground economy. Indirect measures, in contrast, often are macro in approach and yield a single aggregate and a time series.

Methods of measuring the underground economy are sampled in table 2, where they are classified as direct and indirect. The direct methods shown include both surveys and tax compliance studies. Indirect methods are shown in an number of variant classified according to the kind of information used: monetary variables, demographic variables, income-consumption relationships, casual factors, and national accounting source data.¹¹

As indicated under "coverage" in table 2, the methods sampled include those that measure specific parts of the underground as well as those that measure the underground economy as a whole. One method applies to an illegal activity-heroin distribution; its inclusion highlights the kind of information available for illegal activities. Another applies to the construction industry, which is suspected of being an industry in which underground activity is widespread. Of the methods that measure the entire underground, several arrive at the estimate by measuring first a significant aspectexample, the hidden labor for market-and then evaluating in a more informal way the size of the entire underground. The monetary methods, whose introduction in the late 1970's aroused interest in the underground economy, provide one comprehensive measure. Several variants have been developed; synopses of two are provided.

The methods are drawn from those applied in the United States and in seven other countries.¹² Methods for the United States are over-sampled in order to provide the background for the two following tables, which assemble the measures of size and growth of the U.S. underground. Recently developed or recently extended methods are also over-sampled, because the early methods—particularly the monetary methods—have been widely discussed elsewhere, and also to suggest the directions in which research on the underground economy is going.

The table shows "method" and "results" for each study. Each method has its strengths and limitations. The limitations, as a rule, are severe and-especially for the methods introduced in the late 1970's-have been extensively discussed. For example, the inability of several monetary measures to separate changes in an indicator variable due to the underground from other sources of change is well recognized, as is the likely downward bias in surveys that depend on self-reporting of underground activities. Strengths and weaknesses are highlighted in the "comments" (which do not, however, attempt to provide full critiques). (For general disicussion of the various methods, see especially Frey and Pommerehne 1982 and 1984, Havrylyshyn and Woroby, and Henry 1983.)

Results: size and growth

Table 3 assembles estimates of the size of the underground economy in the United States in years ranging from 1974 to 1981. The estimates differ in the coverage of the underground they purport to measure and were prepared using a variety of methodologies (all of which were summarized, at least in part, in table 2). The estimates are shown in billions of dollars and as a percent of GNP. (The use of GNP in the percentage calculations is covenient but arbitrary; other aggregates could have served equally well.) Several show separately income earned in legal and in illegal underground activities. As a percent of GNP, legal-source income ranged from 4 to 8 percent. Illegal-source income generally was estimated to be smaller, 1 to 7 percent of GNP. For income earned in the underground economy as a whole, the estimates that are sums of legal- plus illegalsource incomes and another estimate of 8 percent of GNP are clustered in a rather narrow range. Well above

^{9.} Off-the-book wages illustrates the combination of these two reasons. Wages are estimated in large part from information on employment tax returns (rather than income tax returns), but adjustments are made to include legal-source income that is missing from employment tax returns.

^{10.} The direct versus indirect classification is used by, among others, Henry 1983, Stein and Wenig, Kirchgässner, and Havrylyshyn and Woroby, although their definitions of direct and indirect differ. The definitions used here are probably closest to those of Havrylyshyn and Woroby.

^{11.} Work on another indirect method is underway at BEA. This method uses variables, by industry, that could be expected to differ depending on whether the industry is characterized by sizable underground activity or not. The results will be presented in a forth-coming SURVEY article.

^{12.} There is evidence that underground economies exist in developed and developing countries and in countries with centrally planned and market ecomomies. In this article, for greater comparability with the United States, references will be limited to Canada, developed countries in Europe, Japan, and Australia.

them are the estimates of 14-15 percent of GNP and then 20 plus percent ranging up to 33 percent, which are the results of monetary methods.

A range roughly as wide as that for the United States is also apparent in estimates for other countries. The estimates shown in chart 3 also vary in methodology used, coverage of the underground they purport to measure, and time period covered. The 33 percent of GNP that was the high estimate for the United States is equaled only in Italy, for which the estimates range down to 10 percent. Anecdotal evidence suggests that the underground economy in Italy is likely to be at the high end of the range for industrial countries. For Germany, the estimates range from 2 to 12 percent of GNP, and for Sweden, from insignificant to 17 percent. Sweden is of particular interest because taxes and social security contributions take an especially large share of income and because regulation is extensive, but, on the other hand, the social fabric is tightly knit. Outside Europe, the estimates for Canada range from 5 to 22 percent, those for Australia range from 3 to 13 percent, and those for Japan from 4 to 15 percent.

The rate of growth of the underground economy, particularly in comparison to that of the measured economy, is perhaps of even more interest than its absolute size. Table 4 assembles various estimates of the average annual rate of growth of the underground economy over various periods from 1974 to 1981 and, in the addendum, the rate of growth of measured

Table 2.—Synopses of Methods Used to Estimate the Underground Economy

Study:	Internal Revenue Service (IRS), Appendix B of Income Tax Compliance Research: Estimates for 1973–1981	Internal Revenue Service (IRS), Appendix C of Income Tax Compliance Research: Estimates for 1973–1981
Approach:	A direct approach, based on results of audits under the Taxpayer Compliance Measurement Program (TCMP), which are available for selected years since 1963, and results of the Information Returns Program (IRP)	A direct approach, based on demographic and income data from the Current Population Survey (CPS) and corresponding records of the Social Security Administration (SSA) and IRS
Coverage.— Activity/ persons: Country: Year(s):	Misreporting of legal-source income by persons who filed indi- vidual income tax returns United States 1976 (with projections for 1979 and 1981)	Income of persons who did not file Federal individual income tax returns (nonfilers) United States 1972 and 1977 (providing estimates for 1973, 1976, 1979, and 1981)
Method:	Intensive audits of a probability sample of 50,000 taxpayers who filed individual income tax return Form 1040. The sam- ples were stratified by business/nonbusiness and by level of reported income. Every item on the return (e.g., "wages, sala- ries, tips, etc.," "dividends," and "moving expenses") was ex- amined. The results were blown up to a national total for all returns filed. For a subsample of 11,000 returns, all relevant information returns (reports by the payers of income, e.g., W-2 forms on wages and salaries) were compared with the audit files (before taxpayer appeal). The comparison study showed that TCMP audits detected about 23 percent of unreported income covered by information reports. This percentage was used to develop a single multiplier with which to scale up the TCMP results.	Comparison of reports and returns in an exact-match file. For the 1972 CPS-IRS-SSA exact-match file, the starting point was the March 1973 CPS, a household survey involving a sample of 50,000 households containing about 100,000 persons 14 years or older. Interview data—income and demographic data, and social security numbers for income earners—were matched by the Census Bureau (under tight confidentiality procedures) on a record-by-record basis with earnings and benefit data from SSA records. Then the matched survey-SSA records were matched with a limited set of items from 1972 income tax returns (if any) in the IRS Individual Master File (IMF). Records were matched primarily on the basis of social security numbers. The exact-match file was used to tabulate records for which there was no IMF record of filing a return. The income of the nonfilers was constructed from income reported in the survey, and the results blown up to a national total. The 1977 exact-match study was a short-cut version of the 1972 study.
Results:	Underreported legal-source income of filers was \$78.3 billion in 1976. This amount is 6 percent of total (underreported and reported correctly) legal-source income. Of the total, \$28.9 billion was in nonfarm proprietors' income and \$10.8 billion in wages and salaries. In addition, deductible items were over- stated \$20.8 billion, so that total misreported income was \$99.0 billion.	For 1976, almost 5 million nonfilers were estimated. The associated income was estimated to be \$53.2 billion. Wage income accounted for about 65 percent of the total and busi- ness income (mainly nonfarm proprietors) for about 16 per- cent. Of the total number of nonfilers, 4.2 million should have filed returns but did not. The associated income was \$46.3 billion.
Comments:	The IRS noted that the TCMP does not adequately measure misreporting associated with illegal or "off-the-book" activities, even though—in principle—incomes from these activities are covered by the sample when earned by individuals who file tax returns. The TCMP is recognized as biased in that it detects overstated deductible items more completely than understated income. The use of a multiplier to scale up TCMP results, which was partly to offset this bias, was new; its validity will be tested further.	The estimation of nonfiler incomes by source of income is more difficult than estimation of the number of nonfilers. For several reasons, the income reported by a nonfiler on a house- hold survey is an imperfect indicator of income that should be reported to IRS. A major reason is that a person who has not filed may be reluctant to report all income to survey inter- viewers.
Addenda:	The IRS publication also provided estimates of nonfilers' income (see the synopsis of Appendix C of the IRS publication), of income in parts of the illegal sector, and of noncompliance for corporations, fiduciaries, and tax-exempt organizations.	The IRS publication also provided estimates of other income not reported to IRS; see the synopsis of Appendix B of the IRS publication. See Kilss and Scheuren, "The 1973 CPS-IRS-SSA Exact Match Study," for a summary description of the File.

GNP.¹³ For both 1974-80 and 1976-80, measured GNP grew at an annual rate of 11 percent. Estimates of the growth of the underground range from slightly less than that of GNP to more than that of GNP-14 percent (two estimates)—and substantially

13. Denison did not estimate the growth per se of the underground economy and therefore it is not included in the table. He did, however, evaluate whether the growth of measured GNP was increasingly understated because of the underground economy, and concluded that it was not. more—19-20 percent. A well-publicized estimate by Feige for 1976 and 1978 implied an annual rate of growth between those years of 38-55 percent. (Later work by Feige included a time series, but only in chart form.) For perspective on the Feige estimates, the growth of the underground over this shorter period was calculated for the two time-series estimates by Gutmann and Tanzi; the rates shown were much lower, 10 percent and 19 percent.

Results: an eclectic sketch

Various studies of the underground economy or parts of it—those summarized in table 2 supplemented by others—can be pieced together to provide an eclectic sketch of the dominant features of the part of the U.S. underground economy that yields legal-source income. These activities account for the bulk—at least onehalf and up to as much as threefourths—of the U.S. underground

Table 2-Synopses of Methods Used to Estimate the Underground Economy-Continued

Study:	James D. Smith, Terry E. Moyer, and Eileen Trzcinski, "The Measurement of Selected Income Flows in Informal Mar- kets"	Hannelore Weck-Hannemann and Bruno S. Frey, "Measuring the Shadow Economy: The Case of Switzerland"
Approach:	A direct approach in that a survey of participants was used, but the responses related to consumer purchases, rather than sales made "on the side"	A direct approach in that a survey was used, but the responses were by experts on the shadow economy, rather than participants in it
Coverage.— Activity/ persons:	Activities involving "cash-related informal arrangements that are at the core of the 'underground economy'"	The part of the economy that should be in GNP according to accepted standards of national accounting, but is not be-
Country: Year(s):	United States 1981	cause of shortcomings of the measurement apparatus Switzerland 1983
Method:	Consumer expenditure survey that included questions about purchases in the informal economy. About 2,100 households in a stratified random sample were interviewed by telephone. Questions about purchases from informal suppliers were in- cluded within a set of questions (broadly economic in nature) that are asked in the monthly Survey of Consumer Attitudes. In addition to having the survey done by a private (rather than government) organization, purchasers (rather than sup- pliers) were surveyed in order to minimize concerns of re- spondents; the suppliers work at the margin of conformity with licensing, permit filing, and performance code require- ments, and were deemed less willing to talk than purchasers. Focused discussion groups and pretests had indicated that the term "on the side" was a well-established part of the national vocabulary used in referring to informal vending arrange- ments.	A questionnaire about the shadow economy mailed to experts. The experts chosen were people who through their profession- al capacity had information about those working in the shadow economy, but they were asked for their personal evaluation (rather than the official position of the public and private institutions with which they were associated). The questions asked related to: the extent of the shadow economy by sector and occupation, the share of full- and part-time workers, hours per week, and participation of foreigners. Re- sponses were received from 26 experts from 13 institutions; 21 experts answered all questions. The answers were aggregated to the level of the 13 institutions, and then each institution was given equal weight in the averages computed.
Results:	About \$42 billion—1.5 percent of GNP—were purchased from informal suppliers in 1981; this amount is viewed as an upper limit. The goods and services supplied ranged widely, although home repairs plus food accounted for about one-half. Although "significant," this amount does "not appear to be as large as implied in discussions which refer to an 'underground economy' (McCrohan and Smith)." Gross purchases were converted to net income of about \$25 billion by multiplying by 59 percent (based on business income shown on schedule C of tax returns).	Shadow production was largest (5-10 percent of measured) in farming, construction, gastronomy, and repair and house- hold services; 2-5 percent in textile/clothing, timber/furniture, retail trade, education/culture/leisure, and health/body care; and insignificant in other sectors. By occupation, shadow ac- tivities were most common (10-20 percent) for gardeners, masons and painters/plasterers, waiters, cleaning personnel, and domestic servants; 5-10 percent for farmers, carpenters, mechanics, attorneys, physicians, and hairdressers; and less for other occupations.
Comments:	The study was conducted by the Survey Research Center of the University of Michigan for the Internal Revenue Service, which did not receive any data that allowed for identification of individual respondents. Disadvantages of surveying purchasers include: Purchasers may not be able to recognize informal suppliers; purchasers can supply only a limited amount of information on suppliers' characteristics; and the survey could only pick up consumer (rather than business) purchases.	The authors rejected a random sample of the population because a substantial part of shadow activities are thought to be by clandestine foreign workers who would not be on a list from which a sample would be drawn. They thought expert opinion was useful because Switzerland is a small, open econo- my for which there is prior knowledge about the distribution of the shadow economy. They cited two disadvantages: the conscientiousness with which the responses were prepared was difficult to check (although the experts appeared to have little or no incentive to bias them) and the sample size was small.
Addenda:	The study was summarized in <i>Income Tax Compliance Re-</i> search: Estimates for 1973-1981 and in papers by the study's authors. See, e.g., McCrohan and Smith, "Informal Suppliers in the Underground Economy."	

economy, although it is not clear whether they are the faster growing part of it or not. (Of the estimates in table 4 that show legal- and illegalsource income separately, one shows legal-source income growing faster and the other shows it growing slower.)

The opportunity to engage in these activities is greatest when the transaction is visible only to two parties. More specifically, opportunity is greatest when cash (or other goods and services, as in barter), rather than check or credit card, is used in payment and when there is little other evidence of the transaction.14

14. Early work on the underground economy focused on the use of cash; see especially Henry 1976 and Gutmann 1977. More recently, the extent to which cash transactions are an essential ingredient has been debated. On the one hand, Louis Harris, based on a poll conducted by his organization, said, "To a large degree, the underground is fueled by cash." Further, he noted that use of extra income to pay bills in cash

Table 2.—Synopses of Methods Used to Estimate the Underground Economy-Continued

Study:	Arne Jon Isachsen, Jan Tore Klovland, and Steinar Strøm, "The Hidden Economy in Norway"	Jiri Skolka, "The Economics of the Shadow Economy"
Approach:	A direct approach, based on survey responses, stratified by age, sex, and education	A direct approach, based on data from several surveys
Coverage.— Activity/ persons: Country: Year(s):	Unreported income from work and other aspects of the hidden labor market Norway 1980 (updated as described in "Addenda," below)	Parallel economy (see "Method," below) in residential con- struction Austria 1969, 1980, and 1982
Method:	Mail-back questionnaire about participation in hidden labor market. Of almost 1,200 respondents interviewed in a regular survey conducted by a private polling organization, 70 percent returned the questionnaire. Respondents were asked: if they bought or sold labor services in the hidden labor market during the past 12 months, the price of services bought or sold, the number hours worked in the hidden labor market, and if participation in the hidden labor market is common in the respondent's profession. To calculate hidden labor income as a percent of GNP, reported hours worked in the hidden labor market were valued at regular market prices (instead of prices actually charged). (Prices in the regular market, perhaps because they represented work for friends or family or work outside one's regular profession.) An alternative calculation was designed to counter downward bias: A respondent who said that hidden work was common in his profession, but denied doing such work himself, was assigned his estimate of average hours worked by others in the hidden labor market.	Surveys related to selected aspects of residential construction. The parallel economy in construction includes off-the-books business by construction firms, moonlighting, and do-it-your self (DIY) (see "Comments," below); surveys were able to capture only moonlighting and DIY activities. The surveys included: (1) all single-family houses built in two areas of Austria and one-third of those built in another, conducted by the Research Institute of the Construction Industry in 1969; (2) a sample of 1,500 houses, conducted by the construction mate- rials industry in 1980; and (3) and (4), unidentified small special surveys.
Results:	Over one-third (38 percent) of respondents reported being either buyers, or sellers, or both in the hidden labor market: 18 percent being sellers, 26 percent being buyers. Hidden work amounted to 2.3 percent of the 1979 GNP. The alternative calculation yielded 5.7 percent of GNP. Other aspects of services in the hidden labor market were: hours worked in supplying them declined with age; supply first increased and then decreased with education; and demand for them increased with education. About 80 percent was paid for in cash.	Keyed to survey as numbered above: (1) Combined share of moonlighters and DIY differed according to the construction phase: from over 60 percent, for the basement, to 13 percent for others. (2) Their share in total costs (including materials was 30-40 percent. (3) In 1981, 10.8 billion square meters of tiles were imported, and all tile used in Austria is imported Tile-laying firms laid 4.8-5.1 billion square meters (3,000 em ployees times average productivity of 1,600-1,700 square meters per man-year), so roughly one-half was laid by moon lighters or DIY. (4) Moonlighters accounted for 26 percent of the gross output of new residential plumbing.
Comments:	The authors were concerned about downward bias in survey results due to reluctance to acknowledge participation in the hidden labor market. A mail-back questionnaire, rather than an interview, was used to help overcome this reluctance. The alternative calculation of hidden income had a similar pur- pose. One hypothesis to explain the decline from 1980 to 1983, described below in "Addenda," was increased reluctance fol- lowing attention given the hidden labor market as a result of the first survey.	Austria follows the United Nations System of National Accounts, in which the production boundary for gross domestic product is defined to include own-account fixed capital formation, including the value added in building, enlarging, on improving of one's own house. Thus, DIY residential construc- tion is included in the national accounts. Not all of the output of the parallel activities is missing in estimating the Austrian national accounts because they are based on information on finished houses (size in square meters) and average rent.
Addenda:	Updated in Isachsen and Strøm, "The Size and Growth of the Hidden Economy in Norway": A 1983 survey showed a modest but "not significant" decline in hidden labor income, to 2 percent of GNP. The 1983 survey asked about total hidden income; if hidden labor income accounted for 2 percent of GNP, total hidden income accounted for 3 percent. An "edu- cated guess" was that the hidden economy was between 4 and 6 percent of GNP and has not grown relative to GNP in the last several years.	This study also describes other efforts to measure the paral lel economy in Austria.

"is the tip-off on underground income." ("Answers that Unveil the Underground Economy," Business Week.) On the other hand, James D. Smith 1983 reported that the results of the survey he conducted "cast some doubt upon the role of cash in the informal economy." In early work, it was presumed that cash transactions were used in lieu of check transactions to avoid leaving an audit trail. In Smith's study, it appeared that the use of check or currency was determined by the same factors as in the regular economy. alone or with one or two assistants), but sometimes also with regard to the amount of time (temporary or seasonal work), capital investment, and transaction value. The industries in which these conditions are widespread include trade, services, construction (especially residential), and farming. (See Feffer et al. for a case study examining the construction industry to see in what kind of transactions the opportunity to engage in underground activity arises.) A wide range of goods—often consumable goods and specialty products and services are involved in what the Internal Revenue Service has called the "core" of the underground—a variety of informal, often cash-related, arrangements. These goods and services include home repair and additions (carpentry, painting, etc.), food and catering, child care, lawn maintenance, domestic service, and auto and appliance maintenance (see Smith,

Table 2.—Synopses of Methods Used to Estimate the Underground Economy—Continued

Study:	Carl P. Simon and Ann D. Witte, Chapter 6, "Heroin," in Beating the System	Edgar L. Feige, "A New Perspective on Macroeconomic Phe- nomena—The Theory and Measurement of the Unobserved Sector of the United States Economy"
Approach:	A direct approach, based on four descriptions of the heroin distribution industry in New York City in the early 1970's and law enforcement reports	An indirect approach, based on monetary variables and GNP
Coverage.— Activity/ person:	Income originating in the distribution of heroin	Market portion of the sector that is unobserved (i.e., not captured in the national income and product accounts either by convention or non- or under-reporting)
Country: Year(s):	United States 1974	United States 1939–79 (presented in a chart)
Method:	 Two estimating methods were used: (a) Blowup of detailed study of the heroin distribution industry in New York City. National income originating in distribution of heroin for the United States was assumed to be 10 times that estimated for New York City. The assumption was based on the ratio of the number of New York City heroin users to the number of U.S. heroin users. (b) National income=supply X price X ratio of value added to total cost: 6.16 metric tons x "less than \$1.43 per milligram" x (324/470). The ratio of value added to total cost was from the study of New York City noted above. Assuming the number of addicts and the supply were constant from 1974 to 1976, only price had to be adjusted to provide estimates for 1974; a price ratio of (100/130) was used. 	Transactions-income relationship. It was assumed that: (a) the ratio of net transactions to total (observed plus unobserved) income is constant; (b) GNP, adjusted to exclude Federal expenditures and imputed income, equaled total income in 1939 (the benchmark year). Monetary transactions were calculated as: (the level of demand deposits x turnover rate) + (level of currency outstanding x turnover rate), adjusted to exclude several categories of major financial transactions, direct transfers, Federal personal and corporate income taxes, and personal contributions to social security. To obtain unobserved income for a given year: (1) multiply adjusted GNP by the benchmark transactions-income ratio to obtain the value of transactions associated with measured GNP; (2) subtract the result of step (1) from total transactions to obtain transactions associated with unobserved income; (3) divide the result from step (2) by the benchmark transactions-income ratio to obtain unobserved income.
Results:	National income originating in heroin distribution in 1974 was estimated to be \$3.2 billion according to method (a) and \$5.0 billion according to method (b).	The monetary unobserved sector was found to be over \$600 billion in 1979, or 27 percent of measured GNP. From 1968 to 1979, the sector displayed "marked growth," interrupted only in 1972 and 1976-77. Porter and Bayer (see "Comments," below) prepared a time series intended to replicate Feige's method of measuring the unobserved monetary sector. It showed about the same percent of measured GNP in 1979 as Feige did (26 percent) and 60 percent of measured GNP in 1981.
Comments:	Heroin is the most thoroughly documented part of the underground economy, because of research interest in it and Federal law enforcement efforts.	A recent comprehensive critique of this and other monetary methods is by Porter and Bayer. They point out: (1) several of the major movements in the transactions-income ratio may be explained by factors unrelated to the underground economy; (2) choice of a benchmark year is arbitrary; (3) the method implies an unlikely increase in the total income velocity of money; and (4) implementation of the method is severely hampered by data problems. They conclude that problems such as these call into question the basic reliability of the monetary approach.
Addenda:	The Internal Revenue Service report Income Tax Compli- ance Research: Estimates for 1973-1981 summarized a con- sumption-based approach that used information from the Na- tional Narcotics Intelligence Consumers Committee. The esti- mate of income not reported on tax returns that originated in the distribution of herion was \$3.94 billion in 1976.	The method described is a modification of the method pre- sented earlier by the author. It has been applied in several countries other than the United States despite strong criti- cism.

Moyer, and Trzcinski, and Ferman and Berndt).

If estimates of noncompliance with Federal income tax laws are taken as indicative of the underground economy, one-third of the underground's legal-source income is in wages and salaries and another one-third in income of the self-employed, that is, professionals like doctors and lawyers, other nonfarm proprietors, and farmers (table 5). For wages and salaries, where there are both withholding and information returns (W-2 forms), income not reported represents only about 6 percent of the wages and salaries that should have been reported; about 94 percent of wages and salaries were voluntarily reported on tax returns. For self-employment income, where there is no withholding and where limited requirements for information returns were put in place only recently, about 41 percent was voluntarily reported.

Who participates in the underground? If estimates of noncompliance with tax laws are again taken as indicative, participation is rather widespread: Surveys show that 20 to 25 percent of the people interviewed admit to some kind of noncompliance. Persons who are younger, in higher and lower (rather than middle) income groups, are self-employed, and have more education reported lower compliance levels than others (see Witte and Woodbury). Other survey evidence indicates that one of five households has at least one member engaged in some informal—that is, "on the side"—way of earning income (see Smith, Moyer, and Trzcinski).

Work in the underground may be either full- or part-time, and may be either a person's only work or may be in addition to work in the regular economy. Of informal suppliers to consumers, about one-quarter had regular jobs, so that their underground income supplemented regular

Table 2.—Synopses of Methods Used to Estimate the Underground Economy—Continued

Study:	Vito Tanzi, "The Underground Economy in the United States: Annual Estimates, 1930-80"	Bruno Contini, "Dropping Out: Notes on the Italian Econo- my"
Approach:	An indirect approach, based on annual data on currency, money (M2), share of wages and salaries in national income, interest rate on time deposits, real per capita income, and taxes defined in two ways	An indirect approach, based on demographic data (labor force participation rates and various sources about irregular employment by sector)
Coverage.— Activity/ persons: Country: Year(s):	Legal-source underground income induced by income taxes and presumably not reported to tax authorities United States 1930-80	Irregular employment, defined as jobs outside the social securi- ty system Italy 1977
Method:	An econometric demand-for-currency equation that links the size of the underground to incentives to evade taxes. The demand for currency relative to M2 is expected to be negative- ly related to real per capita income and to the rate of interest on time deposits, and positively related to the share of wages and salaries in national income and to taxes, where taxes are defined as (a) a weighted average tax rate on interest income and (b) the ratio of total income tax payments (after credits) to adjusted gross income. The equations are used to calculate the level of currency, first, with all dependent variables at actual values and, second, with taxes assumed to be zero rather than actual values. The difference is currency holding that is tax induced, i.e., the amount of "excessive currency." If it is assumed that the income velocities of money in the under- ground and regular economies are the same, excessive curren- cy times income velocity yields estimates of underground income. (If it is assumed that average tax liability is the same for underground income as regular income, the amount of tax evasion can be calculated.)	 Two estimating methods were used: (a) Irregular work force as the difference between the official participation rate and that found in two ad hoc surveys. The official participation rate had declined rapidly from a high in 1959 and was well below that in other countries. The ad hoc surveys in 1971 and 1977 were assumed to be correct. For 1977, a conservative estimate was that 17 percent of the total working population was engaged in irregular employment. (b) Irregular work force on the basis of various indicators. In manufacturing, the irregular work force was estimated by at-home work; in construction, mostly by multiple job holders and those who officially were unemployed; and in services and trade, by multiple job holders (many of whom worked in the public sector). The sum of these estimates amounted to about 20 percent of the total working population.
Results:	Underground income was 4.5 and 6.1 percent of GNP in 1980 (the range reflecting the alternative tax variables). A clear upward trend from 2.5-3.8 percent of GNP in the mid-1960's was apparent; the trend seems to have accelerated in recent years.	The 17-20 percent of total working population as irregular workers translated, after accounting for second jobs that may be excluded from both methods, to 14-20 percent of GNP.
Comments:	This method was designed to take account of influences other than underground activity on the demand for currency. The study recognized that the estimates were not directly translatable into income missing from the ecomomic accounts. A recent comprehensive critique of this and other monetary methods is by Porter and Bayer. Among the points they make about this method are: (1) the relationship between currency and taxes breaks down after 1945 and (2) the estimates would be smaller if it were assumed that the threshold tax level that induces underground activity were more than zero.	Method (a), as a residual method, assumed that there were no factors other than those related to irregular work that influenced the participation rate. The translation—in effect, based on an assumption about the productivity of irregular workers—of the percentage of irregular workers to the per- centage of GNP was noted as being very difficult but was not explained.
Addenda:	This study is an extension of the author's earlier work. The method has been applied to several countries other than the United States.	The author's work underlying method (a) is detailed in "Labor Market Segmentation and the Development of the Parallel Economy—The Italian Experience."

income (see Smith, Moyer, and Trzcinski). Workers include not only those employed in the regular economy, but also persons currently unemployed in the regular economy and persons—such as children and retirees—not officially in the labor force. Work in the underground cuts across racial, ethnic, social, and occupational groups (see Ferman and Berndt).

Underground participants have sev-

eral kinds of buyer-seller relationships with the regular economy. Underground producers buy and consume the variety of raw materials and services produced in the regular economy. For example, an artist who sells a painting (but does not report the income) buys his canvas, paint, and brushes in the regular economy. Underground participants also distribute (and redistribute) and repair the products of the regular economy. Some of the goods produced, furthermore, are sold in the regular economy; the painting just mentioned might be sold to a gallery that resells it in a wholly regular way (see Ferman and Berndt).

The sketch that emerges of the part of the underground engaged in the production of legal goods and services—of the kinds of transactions, of

Table 2.—Synopses of Methods Used to Estimate the Underground Economy—Conti	nued
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Study:	Andrew Dilnot and C. N. Morris, "What Do We Know About the Black Economy in the United Kingdom?"	Bruno S. Frey, Hannelore Weck, and Werner W. Pommer- ehne, "Has the Shadow Economy Grown in Germany? An Exploratory Study"
Approach:	An indirect approach, based on income data and expenditure data (diary book entries and hire purchase information for two-week periods) from the Family Expenditure Survey (FES)	An indirect approach, based on indicators, as described below, of costs and benefits of becoming active or stepping up activity in the shadow economy
Coverage.— Activity/ persons:	Households whose reported expenditures appeared inconsist- ent with reported income	Economic activity that should be included in national income according to national accounting conventions, but is present- ly not registered by societal measurement agencies
Country: Year(s):	United Kingdom 1977	Germany 1960–78
Method:	Examination of behavior and characteristics of households whose reported expenditures appeared inconsistent with report- ed income. The underlying assumption is that income earned in the black economy is underreported more than are expendi- tures. A detailed examination of income-expenditure relation- ships for 1,000 households was used to develop the identifica- tion technique applied to the sample (7,200 households). Rough adjustments were made to exclude "lumpy" expenditures; to subtract recorded tax and National Insurance contributions to derive net income; and to scale up out-of-date self-employment income. Using all available information in the FES (about 680 income and expenditure variables and household characteris- tics), the study examined a sample of households for which the ratio of expenditures to reported income exceeded, first, 1.5, and then decreasing amounts, down to 1.15. Several "traps" excluded (or put only in the upper-bound estimate) certain households,—e.g., pensioners—for which the explanation of the expenditure-income relationship did not appear to be the black economy. The percentage of households in the sample that were in the upper and lower bounds was applied to the total population and multiplied by the average amounts of difference between income and expenditures to obtain an estimate of the black economy.	Sensitivity analysis based on incentives contributing to exist- ence of a shadow economy. It was assumed that the shadow economy will be larger: (1) the higher the costs of working in the nonshadow sector, (2) the lower the psychological barriers of switching to the shadow sector. Costs in (1) were implemented as taxes (share of direct and indirect taxes and social security contributions in GDP) and as regulations relating, e.g., to health, safety, and environmental standards for a job or a production process (share of number of full-time, general- administration federal officials in total employment); costs in (2) were implemented as effective workweek (for males) and participation rate (for males), and barriers to switching in (3) were implemented as an index of decline in tax morality. In addition, account was taken of a structural effect: the share of foreign workers, who have a particularly strong inclination to work in the shadow economy. The usual econometric procedure was "reversed:" assump- tions were made about the weight of the six explanatory variables in order to infer the dependent variable (the shadow sector's size). Soft modeling, which uses rankings as weights, was one of the techniques used.
Results:	"Results are consistent with the position that although a substantial portion of the population may participate in the black economy, it accounts for no more than 2 to 3 percent of national income." Self-employed persons of all types were the most likely to participate, and others were more likely to if their work was part-time.	Except in one subperiod, all factors contributed to an in- crease in the shadow economy from 1960 to 1978. Thus, "with some confidence," it was concluded that "the shadow economy has been of increasing importance in recent decades in Germa- ny, relative to measured GNP."
Comments:	In the study it was noted that the FES may not be repre- sentative if the 30 percent who declined to participate were more actively engaged in the black economy than those who did participate. In addition to the key assumption already noted, the study assumed, in making the calculation of the size of the black economy, that all income earned in the black economy was already spent. Further, the study was limited to those who spent more than 115 percent of income, although no rationale for that particular percentage was provided.	The authors noted that the method is limited to indicating growth of the shadow economy over time, but that it has the advantage of working with several factors (not just tax burden, as had been done earlier) that may determine the shadow economy. The method depends critically on having a good list of these factors and data with which to quantify them.
Addenda:		The authors have developed this approach for other coun- tries, including the United States. See Frey and Pommerehne, "The Hidden Economy: State and Prospects for Measurement" and Weck, Pommerehne, and Frey, Schattenwirtschaft.

the number and variety of participants, and of the kinds of work and buyer-seller relationships maintained with the regular economy—confirms the diversity first noted with regard to the list of underground activities at the beginning of the article. It suggests that, even for this part of the underground, reference to it as an "economy" should not be taken to imply more unity within itself and separateness from the regular economy than is actually the case.

The information on which this sketch is based is incomplete in many ways and further research will probably show that is is flawed as well. The information on the part of the U.S. underground that yields illegalsource income is even more limited. Until the last few years, quantification had centered on drug trafficking, prostitution, and gambling (which are mentioned in descending order of size).¹⁵ (For surveys of illegal activities, see Simon and Witte, and Abt Associates, Inc.) Trafficking in drugs

Study:	Kerrick Macafee, "A Glimpse of the Hidden Economy in the National Accounts of the United Kingdom"	G.A.A.M. Broesterhuizen, "The Unobserved Economy and the National Accounts in the Netherlands: A Sensitivity Analy- sis"
Approach:	An indirect approach, based on income and expenditure estimates of gross domestic product (GDP)	An indirect approach, based on sources and methods used to estimate components of gross domestic product (GDP)
Coverage.— Activity/ persons:	Factor incomes not reported to tax authorities	Income that should be included in national accounts but is not because of underreporting of income or product, or overre- porting of intermediate inputs
Country: Year(s):	United Kingdom 1960-78 (updated as described in "Addenda," below)	Netherlands 1979
Method:	Difference between the independently estimated expenditure and income measures of GDP. The income measure is estimat- ed mainly on the basis of tax revenue information, and is known to be biased by underreporting. The expenditure meas- ure is estimated mainly from a wide range of business and household surveys designed for statistical purposes and from government accounting records, and it is thought that there is little reason to suppose that it is biased downward except for sensitive expenditures (for example, on illegal activities) and hidden income-in-kind. The difference between the two meas- ures is called the initial residual difference (IRD). The IRD results from (a) underreporting of factor incomes, (b) timing errors, and (c) sampling and other errors. The trend line of the IRD is an estimate of unreported factor income; the trend value, called the "evasion adjustment," is added to the income-mainly self-employment incomes, with smaller adjust- ments to wages and salaries and to profits—to get an adjusted income measure.	Evaluation of GDP components for susceptibility to underre- porting of income or product or overreporting of intermediate input (called "fraud"). Each component of GDP is assigned to one of six categories based on the method used to estimate it or on the part of the economy to which the data relate. E.g., categories 1 and 2 contain data based on indirect estimation methods and data on government, respectively; these catego- ries are assumed to be virtually free of fraudulent production. Categories 5 and 6 cover very small firms and data based on tax files, respectively; these categories are assumed to be susceptible to large bias due to fraud. For each of the six categories, an upper limit of "fraudulent" production, as a percent of measured production, is assumed. The measured production is multiplied by this assumed percentage: E.g., 0 percent for category 6. When summed, and the allowance for fraud included in the statistics on measured production subtracted, the result is an upper bound on the level of all fraudulent production. A similar method is used to find an upper bound for the bias that the growth of fraudulent production imparts to the meas- ured growth rate.
Results:	Unreported factor income (as indicated by the trend of IRD) increased over the period to 2½ percent of GDP in 1978. The IRD itself, which provides "some indication of the size of the hidden economy and its growth," was 3½ percent of GDP that year. The hidden economy appeared to have grown, but not substantially so.	Upper bound for level of fraudulent production in 1979 was 4.8 percent of GDP. Upper bound for bias in the officially measured growth rate is about 0.5 percentage points.
Comments:	The author notes that the evasion adjustment is not a measure either of the total size of the hidden economy (it omits the part that is concealed from both income and expend- iture measures) or of total income on which taxes are evaded (it omits nonfactor incomes). The measure is not applicable to all countries, in part depending on the exent to which and how tax return informa- tion is used in estimating national accounts. As a "residual" method, a difficulty is that factors other than the hidden economy may affect the result.	The GDP of the Netherlands is primarily a production measure—i.e., gross value added generated by producers, with measurement directed at the producers—that is tied to the annual input-output table. This orientation is reflected in the definition of "fraud" in terms of understatement of income or product and overstatement of intermediate inputs. The authors noted that national accountants often face tradeoffs between bias due to fraud and bias due to statistical errors (e.g., sampling bias and undercoverage).
Addenda:	Updated in <i>Economic Trends</i> (October 1983): As a percent of the expenditure measure of GDP, the IRD trend rises from $1\frac{1}{2}$ percent in the 1960's to $2\frac{1}{4}$ percent in 1975-76, and then falls to $1\frac{1}{4}$ percent in 1980-82. The IRD itself was highest (about $4\frac{1}{2}$ percent) in 1976, fell steadily to 0 in 1980, and rose to $1\frac{1}{4}$ percent in 1982.	A similar approach was used by Fisher, in "An Expenditure Approach to Estimation of the Hidden Economy and Informal Labour Market," for Australia.

Table 2.—Synopses of Methods Used to Estimate the Underground Economy—Continued

^{15.} Very little information is available about illegal activities in most countries. Blades 1983 suggests that the size of the illegal underground in the United States is probably the upper limit for most other industrialized countries.

Estimates of the Size of Underground Economy in Selected Countries

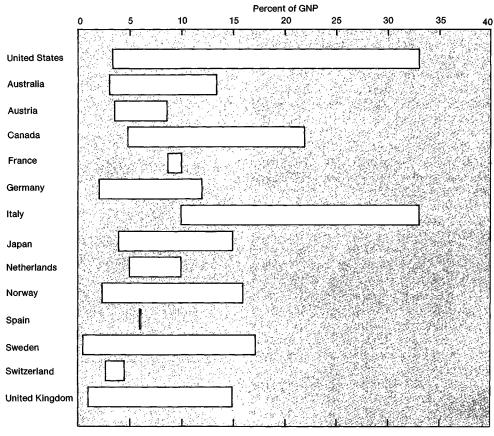
CHART 3

was best documented, in part reflecting concern from a law enforcement point of view with its rapid growth. Research is now extending into other illegal areas. An important part of research-for the legal part, as wellwill be to develop further the methods summarized in table 2 that provide information on the composition of underground activities: who, where, how, and under what circumstances.

III. Implications

The existence of a "sizable" underground economy and one that may be growing relative to the regular economy has several implications. The implications for major economic statistics and policy based on them will be explored following brief mention of three other areas.

First, because a major part of the activities in the underground economy involves tax evasion, loss of public revenue is clearly an important implication. The revenue loss associated with the \$132 billion (mentioned in table 3) in unreported legal-source income on Federal individual income tax returns in 1976 was \$35 billionabout one-quarter of collections from



NOTE:-The estimates are from many sources; when a range is shown, the high and low estimates for a country may bracket one or more estimates. Both among countries and for a particular country, the estimates vary in the scope of the underground economy measured, the methodology used, and the time period covered.

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

Table 3.—Estimates of the Size of the Underground Economy in the United States, 1974-81

		Estimate							
Estimator		Coverage			Percent of GNP ¹	Percent of alternative aggregate used by the estimator			
Gutmann	1977	Unreported ² and untaxed cash transactions.	1976	176	10				
	1983	Unreported 2 and untaxed transactions (not limited to cash).	1981	420	14-15				
Feige	1979	Activities that go unreported (largely to tax authorities) or are unmeasured. ³		226-369 542-704	*13–21 *25–33	Economy (GNP + unobserved): 12-18* 20-25.*			
	1980	Monetary unobserved ³ sector.	1979	600+	27				
Tanzi	1983	Legal-source income induced by income taxes and presumably not reported to tax authorities. ⁴	1974 1977 1979	71 100 130	5 5 5				
Internal Revenue Service (IRS)	1979	Income unreported to IRS: legal source, individuals illegal source (3 kinds) total.	1976	75-100 25-35 100-135	*4-6 *1-2 *6-8	Income reportable on tax return: Legal-source—6-8.			
	1983	Income unreported to IRS: legal source, individuals illegal source (3 kinds) total. ⁵	1976	132 13 145	*8 *1 *8	Income reportable on tax return: Legal-source—10.			
Simon and Witte	1982	National income: legal goods not properly reported ⁶ illegal goods and services total (including unallocated).	1974	63- 84 37- 93 100-177	*4- 6 *3- 7 *7-12	3-8.*			
Frey and Pommerehne	1984	Activities that because of under- or non-reporting escape the societal measurement apparatus.	1978		8				

*Calculated by BEA (not supplied by estimator) using GNP as shown in the October 1983 SURVEY 1. GNP as defined by BEA.

4. Weighted tax rate variant.

aliens

 Does not include legal-source income of corporations or fiduciaries or legal-source unrelated business income of tax-exempt organizations. 6. Includes incomes from activity primarily aimed at evading taxes plus income of illegal

2. Defined as activity that "wholly escapes the ministrations of the tax collector and very large-ly that of the statistician."

3. Defined as activity that escapes "society's current techniques of monitoring economic activi-" or the "current societal measurement apparatus."

Note.-Estimates are rounded to nearest billion dollar or nearest percent.

SURVEY OF CURRENT BUSINESS

the individual income tax.¹⁶ The revenue loss projected for 1981 was \$75 billion. This loss raises issues of equity and efficiency, and losses on other Federal taxes and on State and local taxes have the same effect. For a given level of taxes, the rate on reported income will have to be higher; that is, the burden of providing revenue to support the services provided by government to all-including the underground-is carried by those who to not evade taxes. The higher taxes on reported income further distort the allocation of resources between taxed and untaxed activities.

Second, to the extent that the underground economy may be growing relative to the rest of the economy, there is an implication that laws and government regulations are increasingly being flouted. Especially in a country, such as the United States, that depends to a substantial extent on voluntary compliance with tax laws, this implication may point to the need to reexamine tax laws and enforcement strategies.¹⁷

Third, and closely related to the second, are implications that stem from the existence and relative growth of a part of the economy that operates in a way different from the regular economy in some important respects. On the one hand, underground activities tend to rely on less efficient information systems-word of mouth, for example-than the regular economy and may use less up-todate, or a narrower range of, technologies. On the other hand, the underground may introduce flexibilitiespart-time and at-home work, for example-not generally available in the Table 4.—Estimates of the Growth of the Underground Economy in the United States

		Estimate						
Estimator		Coverage	Years	Average annual percentage growth rate				
Gutmann	1977	Unreported ¹ and untaxed cash transactions.	1974-80 ² 1976-78 1976-80	20* 19* 19*				
Feige	1979	Monetary unobserved ³ sector.	1976-78	3855*				
Tanzi	1983	Legal-source income induced by income taxes and presumably not reported to tax authorities. ⁴	1974-80 1976-78 1976-80	14* 10* 14*				
Internal Revenue Service (IRS)	1983	Income unreported to IRS: legal source, individuals illegal source (3 kinds) total. ⁵	1976-81	14* 21* 14*				
Simon and Witte	1982	National income: legal goods not properly reported ⁶ illegal goods and services total.	1974-80	10* 7-8* 9* or 10				
Addendum: GNP (as measured by BEA) ⁷			1974-80 1976-78 1976-80	11 12 11				

*Calculated by BEA (not supplied by estimator). 1. Defined as activity that "wholly escapes the ministrations of the tax collector and very largely that of the statistician." 2. Time series prepared by the Congressional Research Service using Gutmann's methodology. See Molefsky. 3. Defined as activity that escapes the "current societal measurement apparatus." 4. Woinbud tay rate available

Weighted tax rate variant.

Des not include legal-source income of corporations and fiduciaries and legal-source unrelated business income of tax-exempt organizations.
 Includes incomes from activity primarily aimed at evading taxes plus income of illegal aliens.
 As shown in the October 1983 SURVEY.

NOTE .- Estimates rounded to nearest percent.

Table 5.—Legal-Source Income on Federal Individual Income Tax Returns, by Type of Income, 1981

	Unreported income		
	Billions of dollars	Percent of unreported total	Voluntary reporting percentage
Wages and salaries	94.6	35.6	93.9
Dividends		3.3	83.7
Interest		7.7	86.3
Estate and trust income ¹		.5	74.2
Self-employment income ¹	1 70.0	37.6	41.5
Nonfarm proprietor (including informal suppliers)		26.3	45.3
Farm proprietor		4.9	(²)
Partnership and small business corporation		6.3	47.0
Rents ¹	4.3	1.6	37.2
Royalties	2.8	1.0	61.2
Pensions and annuities	17.7	3.3	86.9
Capital gains		6.7	59.4
State income tax refunds, alimony, and other income		2.7	62.0
Total	265.9	100.0	87.2

Net income, that is, gross income less expenses.
 Not calculated because the reported amount was a negative number.

Nore.—Percentages computed from unrounded data. Source: Table IV-2, Internal Revenue Service, Income Tax Compliance Research: Estimates for 1973-1981.

regular economy. In turn, these differences can be viewed in several ways. Viewed as an advantage, the underground provides a social "safety valve" for unemployed or underemployed workers, or, from the point of view of the individual, it may be a place to get the experience to break into a job in the regular economy. Viewed as a disadvantage, growth of the underground may reduce social cohesion, for it represents a part of society that—at least to some extent-chooses to set itself apart (see especially Ferman, Berndt, and Selo; Contini; and Hansson).

Implications for economic statistics

The underground economy has possible implications for a wide range of macroeconomic statistics. To the extent that income and production in the underground economy are missed, the Nation's production as measured by GNP and national income would be understated. To the extent that jobs in the underground economy are missed, employment and labor force statistics would be understated. Statistics on saving and on productivity are also cited as being understated;

^{16.} These dollar figures are what are called legalsource "individual tax gaps" in Income Tax Compliance Research: Estimates for 1973-1981.

Reference is only to the tax loss associated with unreported legal-source income because it would be unrealistic to hope to recover taxes on more than a small portion of illegal-source income. Further, if the goal of law enforcement is to discourage these activities, to the extent that enforcement succeeds, unreported illegal-source income would decline but without an increase in taxes collected. A similar qualification applies to legal-source income: If underground activities that yield legal-source income were to be detected by tax authorities, many would be curtailed (see especially Henry 1983).

^{17.} The Internal Revenue Service has a research program underway. Several studies, done both within the agency and by private researchers under contract, are summarized in Income Tax Compliance Research: Estimates for 1973-1981. In addition, the agency sponsored a Conference on Tax Administration Research Strategies held November 8-10, 1983.

those on unemployment and the unemployment rate are cited as being overstated. Price series are said to be affected, but those who claim mismeasurement of the rate of inflation disagree about the direction: Some believe that the rate of inflation is overstated, and others that it is understated. Further, statistics on income distribution and on the international balance of payments are cited as being mismeasured. (See, for example, Gutmann 1983, Simon and Witte, Reuter 1982, and Feige 1979.)

The implication for policy based on these measures is clear: The policies-fiscal, employment, industrial, and international, among othersmay be responding to, and may be designed in the light of, statistics that give distorted pictures of the economy. It is alleged by some that the economic situation in 1978-79 may have been such a case. Consumer debt burden was one of the indicators that suggested the imminent onset of a recession; debt was so large relative to income that further expansion of consumer spending seemed unlikely. The recession came, but it came later, and did not last as long as expected. It is alleged that debt burden miscued forecasters. According to this view, counterrecessionary monetary and fiscal policy would have been based on a distorted picture of economic developments. Had measured income included income from underground activities, debt burden would not have flashed a danger signal (see, for example, Molefsky).

Although the underground economy clearly has implications for economic statistics, it is not correct to implyas has often been done---that the size of the underground is a useful guide to the extent of the possible under- or over-statement of economic statistics. For example, the likely overstatement of the unemployment rate is probably not as large as some indicators of the size of the underground economy might suggest. The measured unemployment rate prepared by the Bureau of Labor Statistics and a "true" rate that takes the underground into account could differ; the possible difference depends on whether underground workers respond to

questions asked in the survey used to determine the unemployment rate, how they respond (truthfully or not), and how they are employed (part-time or full-time, and only in the underground economy or also in the regular economy). If underground workers respond, but rather than reporting their only and full-time job in the underground, they report that they were unemployed, the measured unemployment rate would be overstated. However, this combination is not the only possible one. If they responded that they were employed, as they might if they found it easier to use work in the regular economy as a cover for work in the underground, the measured unemployment rate would not be overstated; it would be the same as the "true" rate.¹⁸ In addition, information about unemployment as measured by claims for benefits, where there is additional incentive to report as unemployed, is not directly transferable to the measure of unemployment just referred to. Unemployment is defined differently for the two series and tabulated as parts of two separate operations. (See McDonald for an examination of the effect of the U.S. underground economy on the Bureau of Labor Statistics measures of the labor force, the Consumer Price Index, and productivity.)

Further, for many policy-oriented uses of economic statistics, change over time is more critical than level. Use of GNP is an example: A low or high percentage rate of growth is more likely to be a factor in policy determination than is the billions-of-dollars level. Thus, not only the size of the underground economy, but also its rate of growth, are relevant in evaluating the extent to which the underground economy has led to miscuing of policymakers. The estimates of the growth of the underground economy are even more tenuous than are estimates of its size, a fact that suggests that even more caution be used in drawing conclusions about the possibility of miscuing by economic statistics.

Each set of economic statistics-employment and unemployment, prices, national income and product, and so on-must be evaluated separately, because differences in scope and in the sources and methods used to prepare them mean that the underground economy affects them differently. In the next part, the scope of GNP, national income, and other major measures in the U.S. national income and product accounts will be reviewed and the sources and methods used to prepare them evaluated in light of the underground economy. A situation mentioned earlier highlights the usefulness of this approach. In several countries, including the United States, tax return information is one of the sources used to prepare the income estimates in the national accounts. Its bias due to tax evasion has long been recognized; other things equal, it is used only when other source information thought to be less biased is not available. Further, when it is used, adjustments are usually made to take a likely degree of misreporting into account.¹⁹ (These adjustments to the U.S. estimates have been improved for the year 1977, and will be discussed in the June issue of the Survey.)

NOTE.—Part IV of this article will appear in a later issue of the Survey of Current Business.

(Selected bibliography follows)

^{18.} The U.S. official unemployment rate is prepared using data from the Current Population Survey, in which about 60,000 households are interviewed each month. Responses to questions about major activities of each person in the household 16 years of age and older during the previous week are used to place persons in one of three categories: employed, unemployed, or not in the labor force. Persons are counted as employed if they worked at least 1 hour as paid employees or in their own business, profession, or farm, or for at least 15 hours as unpaid workers in a family-operated enterprise, or if they had jobs or businesses from which they were temporarily absent because of illness, bad weather, vacation, labor-management disputed, or various personal reasons. Each employed person is counted only once, no matter how many jobs they might have worked at during the week. Persons are classified as unemployed only if they did not work at all during the survey week, were looking for work or were on layoff, and were available for work. All civilians 16 years of age and older who are not classified as employed or unemployed are defined as not in the labor force.

^{19.} A survey by the Organization for Economic Cooperation and Development of its members indicated that the economic accounts of six countries included such adjustments because some of their basic data sources are believed to be biased by deliberate underreporting. Three other countries use data sources-notably production and expenditure data-that they believe are not biased in this way (see Blades 1982).

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The National Income and Product Accounts: Preliminary Revised Estimates, 1977

THIS article presents preliminary revised estimates of the national income and product accounts (NIPA's) for 1977. The revised estimates are consistent with BEA's input-output (I-O) tables for 1977, which are shown elsewhere in this issue of the SURVEY OF CURRENT BUSINESS. The estimates are subject to further revision when

Note.—Staff of the National Income and Wealth Division assisted in the preparation of this article. the next comprehensive revision of the NIPA's is completed in late 1985. At that time definitional changes may be introduced; further statistical revisions for 1977 are expected to be small.

The first part of this article provides a brief overview of the revisions in the NIPA aggregates and major components, and the second part describes the new data sources and estimating procedures incorporated into the revised estimates.

Revisions in the NIPA Aggregates and Major Components

The presently published and preliminary revised estimates, and the amount of the revision, are shown in table A for the five NIPA summary accounts.

The revised estimate of GNP is \$58 billion, or 3 percent, higher than the presently published estimate. Person-

TABLE A.-SUMMARY NATIONAL INCOME AND PRODUCT ACCOUNTS, 1977

Account 1.-National Income and Product Account

[Billions of dollars]

				[Billions o	i uonai	5			
Line		Present- ly pub- lished	Prelimi- nary revised	Revision	Line		Present- ly pub- lished	Prelimi- nary revised	Revision
$1 \\ 2 \\ 3 \\ 4 \\ 5$	Compensation of employees Wages and salaries Disbursements (2-7) Wage accrual less disbursements (3-12) and (5-4) Supplements to wages and salaries	983.2 983.2 0	1,165.6 994.9 994.9 0 170.7	13.5 11.7 11.7 0 1.8	27 28 29 30	Personal consumption expenditures (2-3) Durable goods Nondurable goods Services	$1,204.4 \\ 178.2 \\ 478.8 \\ 547.4$	1,246.5 184.4 490.5 571.6	$\begin{array}{c} 42.0 \\ 6.1 \\ 11.7 \\ 24.2 \end{array}$
6 7	Employer contributions for social insurance (3-20) Other labor income (2-8)	79.5 89.4	79.6 91.1	.1 1.7	31 32 33 34	Gross private domestic investment (5-1) Fixed investment. Nonresidential. Structures.	205.2 64.4	$336.6 \\ 314.9 \\ 213.5 \\ 66.0$	12.6 13.9 8.3 1.6
8 9	Proprietors' income with inventory valuation and cap- ital consumption adjustments $(2-9)$ Rental income of persons with capital consumption ad- justment $(2-10)$.	103.9 24.8	151.4 14.7	47.6 	35 36 37	Producers' durable equipment Residential Change in business inventories	95.8	147.5 101.4 21.7	6.6 5.6 1.3
10	Corporate profits with inventory valuation and capital	167.3	166.8	4	38 39 40	Net exports of goods and services Exports (4-1) Imports (4-3)	182.7	-2.1 185.3 187.4	1.9 2.5 .7
11 12 13 14 15 16 17	consumption adjustments. Profits before tax. Profits tax liability (3-17) Profits after tax. Dividends (2-12). Undistributed profits (5-6). Inventory valuation adjustment (5-7) Capital consumption adjustment (5-8)	72.7 122.0 40.8 81.2	$194.3 \\ 73.1 \\ 121.2 \\ 40.8 \\ 80.3 \\ -16.2 \\ -11.3$	4 .4 9 0 9 0 0	41 42 43 44 45	Government purchases of goods and services (3-1) Federal National defense Nondefense State and local	143.4 92.8	395.6 143.4 92.8 50.5 252.2	1.8 1 0 1 1.8
18	Net interest (2-15)	102.5	107.1	4.6					
19	National income	1,550.5	1,605.7	55.1				I	I
20	Business transfer payments (2-20)	8.6	8.6	0					
21	Indirect business tax and nontax liability (3-18)	165.7	166.0	.2					
22	Less: Subsidies less current surplus of government enterprises $(3-11)$.	3.1	3.0	0					
23	Charges against net national product	1,721.8	1,777.2	55.4					
24	Capital consumption allowances with capital consump- tion adjustment (5-9).	195.2	195.2	0					
25	Charges against gross national product	1,917.0	1,972.4	55.4				1	1
26	Statistical discrepancy (5-12)	1.4	4.2	2.8					
	GROSS NATIONAL PRODUCT	1,918.3	1,976.6	58.2		GROSS NATIONAL PRODUCT	1,918.3	1,976.6	58.2

TABLE A.-SUMMARY NATIONAL INCOME AND PRODUCT ACCOUNTS, 1977-Continued

Account 2.-Personal Income and Outlay Account

[Billions of dollars]

Line		Present- ly pub- lished	Prelimi- nary revised	Revision	Line		Present- ly pub- lished	Prelimi- nary revised	Revision
1	Personal tax and nontax payments (3-16)	226.4	226.0	-0.4	7	Wage and salary disbursements (1-3)	983.2	994.9	11.7
2	Personal outlays	1,236.0	1,277.9	41.8	8	Other labor income (1-7)	89.4	91.1	1.7
3 4 5	Personal outlays Personal consumption expenditures (1-27) Interest paid by consumers to business (2-18) Personal transfer payments to foreigners (net) (4-5)	1,204.4 30.7 .9	1,246.5 30.5 .9	42.0 2 0	9	Proprietors' income with inventory valuation and capital consumption adjustments (1-8)	103.9	151.4	47.6
6	Personal saving (5-3)	78.0	92.2	14.2	10	Rental income of persons with capital consumption adjustment (1-9).	24.8	14.7	-10.1
					11 12 13 14 15 16	Personal dividend income Dividends (1–14). Less: Dividends received by government (3–10)	39.6 40.8 1.3 152.8 102.5	39.6 40.8 1.3 157.2 107.1	0 0 4.4 4.6
					10 17 18	Interest paid by government to persons and business (3-7) Less: Interest received by government (3-9) Interest paid by consumers to business (2-4)	43.5 24.0 30.7	43.5 24.0 30.5	0 0 2
				ļ	19 20 21	Transfer payments to persons From business (1-20) From government (3-3)	207.9 8.6 199.3	208.4 8.6 199.8	.6 0 .6
					22	Less: Personal contributions for social insurance (3-21)	61.1	61.3	.2
	PERSONAL TAXES, OUTLAYS, AND SAVING	1,540.4	1,596.1	55.7		PERSONAL INCOME	1,540.4	1,596.1	55.7

Account 3.—Government Receipts and Expenditures Account

[Billions of dollars]

1 2 3	Purchases of goods and services (1-41) Transfer payments To persons (2-21) To foreigners (net) (4-6).		395.6 203.1 199.8 3.3	1.8 .6 .6	16 17	Personal tax and nontax payments (2-1) Corporate profits tax liability (1-12)	226.4 72.7 165.7	226.0 73.1	-0.4
4 5 6 7 8 9	To foreigners (net) (4-0). Net interest paid Interest paid To persons and business (2-16). To foreigners (4-7). Less: Interest received by government (2-17).		3.3 25.1 49.1 43.5 5.5 24.0	0 0 0 0	18 19 20 21	Indirect business tax and nontax liability (1-21) Contributions for social insurance Employer (1-6) Personal (2-22)	140.6	166.0 140.9 79.6 61.3	.2 .3 .1 .2
10			1.3	0					
11	Subsidies less current surplus of government enterprises (1-22).	3.1	3.0	0					
12		0	0	0					
13	Surplus or deficit (-), national income and product accounts (5-10).	-17.8	-19.6	-1.7					I
14 15	Rederal	$^{-45.9}_{-28.0}$	$-45.9 \\ 26.3$	0 1.8					
	GOVERNMENT EXPENDITURES AND SURPLUS	605.4	606.0	.6		GOVERNMENT RECEIPTS	605.4	606.0	.6

Account 4.—Foreign Transactions Account

[Billions of dollars]

				<u>`</u>					
1	Exports of goods and services (1-39)	182.7	185.3	2.5	3	Imports of goods and services (1-40)	186.7	187.4	0.7
2	Capital grants received by the United States (net) (5-11)	0	0	0	4 5 6	Transfer payments to foreigners (net) From persons (net) (2-5) From government (net) (3-4)	4.1 .9 3.3	4.1 .9 3.3	0 0 0
					7	Interest paid by government to foreigners (3-8)	5.5	5.5	0
					8	Net foreign investment (5-2)	13.6	- 11.8	1.9
	RECEIPTS FROM FOREIGNERS	182.7	185.3	2.5		PAYMENTS TO FOREIGNERS	182.7	185.3	2.5

Account 5.--Gross Savings and Investment Account

[Billions of dollars]

1	Gross private domestic investment (1-31)	324.1	336.6	12.6	3	Personal saving (2-6)	78.0	92.2	14.2
2	Net foreign investment (4-8)	-13.6	-11.8	1.9	4 5	Wage accruals less disbursements (1-4) Undistributed corporate profits with inventory valuation and capital consumption adjustments.	0 53.7	0 52.9	0 9
					6 7 8	Undistributed corporate profits (1-15) Inventory valuation adjustment (1-16) Capital consumption adjustment (1-17)	-16.2	$\begin{array}{r} 80.3 \\ -16.2 \\ -11.3 \end{array}$	9 0 0
					9	Capital consumption allowances with capital consump- tion adjustment (1-24).	195.2	195.2	0
				1	10	Government surplus or deficit (-), national income and product accounts (3-13).	-17.8	- 19.6	-1.7
					11 12	Capital grants received by the United States (net) (4-2) Statistical discrepancy (1-26)	0 1.4	0 4.2	0 2.8
	GROSS INVESTMENT	310.4	324.9	14.4		GROSS SAVING AND STATISTICAL DISCREPANCY	310.4	324.9	14.4

Note.—Numbers in parentheses indicate accounts and items of counterentry in the accounts. For example, the counterentry for wage and salary disbursements, (2-7), is in account 2, line 7.

Source: Presently published estimates appear in the July 1982 SURVEY OF CURRENT BUSINESS.

al consumption expenditures (PCE) accounts for most of the upward revision; nonresidential producers' durable equipment (PDE) and residential investment also have large upward revisions. Nonresidential structures, net exports of goods and services, and State and local government purchases are revised up moderately. The change in business inventories is revised down moderately, and Federal Government purchases is revised down slightly.

The revised estimate of national income is \$55 billion, or 3¹/₂ percent, higher than the presently published estimate. Proprietors' income, wages and salaries, and net interest have large upward revisions; rental income of persons has a large downward revision. As a result, charges against GNP, which is GNP measured as the sum of incomes and nonfactor charges, is revised up \$551/2 billion. Reflecting the larger upward revision in GNP than in charges against GNP, the statistical discrepancy-the difference between them-is revised up slightly, from \$1¹/₂ billion to \$4 billion.

Most of the revisions in national income components also affect personal income, which is revised up \$55½ billion, or 3½ percent. Disposable personal income—personal income less personal tax and nontax payments is revised up \$56 billion, and personal outlays up \$42 billion. As a result, personal saving is revised up \$14 billion, and the personal saving rate personal saving as a percentage of disposable personal income—is revised up from 5.9 percent to 6.7 percent.

New Data Sources and Estimating Procedures

The I-O tables and the preliminary revised NIPA estimates reflect the introduction of improved adjustments for misreporting on tax returns. The improved adjustments incorporate newly available information about the extent of underreporting of income and about the failure to file income and employment tax returns (nonfiling). Tax return information is used directly in estimating several income components (including compensation of employees and proprietors' income) and indirectly-via the Census Bureau's use of tax returns to make estimates for small firms—for two product components (PCE and gross private domestic investment). The sources and procedures used to prepare the adjustments will be described in an article in the June SURVEY.

For the components affected, the total revisions and the revisions in the misreporting adjustments are shown in the accompanying tabulation. The remainder of this article describes the sources and procedures underlying other major revisions in the NIPA components.

	Total revision (table A, column 3)	Revision due to improved adjust- ments for misreport- ing on tax returns
Personal consumption expenditures Durable goods Nondurable goods Services	42.0 6.1 11.7 24.2	21.6 2.0 7.5 12.2
Gross private domestic investment	12.6	.2
Compensation of employees	13.5	11.3
Proprietors' income with inventory valuation and capital consumption adjustments	47.6	46.5

GNP

Personal consumption expenditures.—The revisions in goods mostly are from the incorporation of the detailed commodity-flow procedure used to develop the interindustry flows for the I-O tables. The presently published estimates are, for the most part, extrapolated from the 1972 I-O levels using survey data on retail sales.

The new commodity-flow calculations incorporate data on sales from the 1977 economic censuses and trade margins from the 1977 Annual Retail Trade Survey and the 1977 Annual Trade Survey (which covers wholesale trade). In addition, the commodityflow estimates for 1977 include adjustments for undercoverage in the sales data of the economic censuses in mining, manufacturing, and wholesale trade due to the exclusion of businesses with no paid employees.

Most of the upward revision in goods purchases is in jewelry and watches, food, clothing, and toys. Truck purchases are revised up substantially, and used car purchases are revised down substantially. The upward revision in PCE trucks, from new information on the consumerbusiness allocation, is offset in GNP by a downward revision in PDE trucks. Purchases of kitchen and other household appliances and of radios and televisions also are revised down.

A variety of new data sources and estimating procedures are incorporated in the revised services estimates. The largest upward revision is in religious and welfare activities, which is measured as the current account expenditures (including depreciation) of religious, social welfare, and similar organizations.¹ The revision is from the incorporation of data from the 1977 Census of Service Industries, which covered these organizations for the first time.

The expense of handling life insurance, a category that includes the operating expenses of noninsured pension plans, also is revised up substantially. This revision incorporates tabulations for 1977 of newly required reports to the Internal Revenue Service by employee benefit plans. Improved information used to allocate airline revenue between consumers and business leads to an upward revision in PCE purchases of air transportation. Space rent of owner-occupied nonfarm dwellings is revised up due to incorporation of data on the number of housing units and average rental values from the 1980 Census of Housing.

Fixed investment.—Most of the upward revision in nonresidential structures is in petroleum and natural gas well drilling and exploration expenditures. This revision incorporates data from the 1977 Census of Mineral Industries.

The revision in PDE is largely due to the incorporation of the detailed commodity-flow procedure used for the 1977 I-O table. The presently published 1977 PDE estimate is based on an abbreviated commodity-flow procedure using preliminary 1977 Census of Manufactures shipments data and margin rates from the 1972 I-O tables. The revised estimate is based on the final 1977 manufacturers' shipments data, margins from the 1977 I-O table, and the undercoverage ad-

^{1.} Detailed descriptions of the PCE categories are in the footnotes to table 2.4 of the National Income and Product Accounts Tables, July 1983 SURVEY OF CUR-RENT BUSINESS, page 37.

justments, all of which are discussed under PCE. The largest upward revision is in communication equipment; the largest downward revision is in trucks (also discussed earlier under PCE).

The upward revision in residential investment largely is in single-family housing and in additions and alterations. For single-family housing, BEA increased the average value of new houses for 1977 by 5 percent due to an understatement identified by the Census Bureau in their value-putin-place series upon which the presently published NIPA estimate is based. (The Census Bureau expects to introduce a similar revision in their series.) For nonfarm additions and alterations, the revised estimate incorporates data from the Consumer Expenditures Survey (CES) of the Bureau of Labor Statistics. BEA has interpolated new estimates using the published 1973 and the preliminary unpublished 1980 CES estimates. Previously, this NIPA component was based on the Census Bureau's quarterly Survey of Residential Alterations and Repairs.

Change in business inventories.— Most of the revision in change in business inventories is due to the incorporation of new data on book value of inventories from the 1977 Census of Wholesale Trade.

Net exports of goods and services.— The upward revision in net exports is largely due to a change in the geographic coverage of merchandise exports and imports.² The change conforms these estimates to the geographic coverage used elsewhere in the NIPA's—the 50 States and the District of Columbia. Merchandise exports and imports in the presently published NIPA estimates are consistent with the definition used in the balance-of-payments accounts, for which the geographic coverage extends to Puerto Rico and territories of the United States.

Government purchases of goods and services.—The upward revision in government purchases is largely due to State and local highway construction. The presently published series is based on the Census Bureau's series on the value of new construction put in place. BEA has adjusted these data based on an analysis of comparable expenditure data from the Census Bureau's Governmental Finances and from the Federal Highway Administration's Highway Statistics.

Charges against GNP

Compensation of employees.—The revision in compensation of employees is moderate and largely in other labor income. Most of the revision is in employer contributions for group health insurance, based on revised data from the Health Care Financing Administration.

Rental income of persons.—Most of the downward revision in rental income of persons is in the net income of owner- and tenant-occupied nonfarm dwellings. For these parts, net income is derived as gross rental receipts less expenses. Gross rental receipts is revised up slightly (see earlier discussion of PCE). However, expenses are revised up much more, because the list of expenses has been expanded. (The new list includes all types of expenditures that are considered ordinary and necessary as deductions under income tax regulations.) These revisions lead to a downward revision in rental income of \$7 billion, including \$5 billion to the owner-occupied part. Also contributing to the downward revision are upward revisions in mortgage interest and real estate taxes-two expense items reflected in the presently published expense estimate. These revisions are due to the incorporation of data from the Survey of Residential Finance (a survey associated with the 1980 Census of Population and Housing.)

Net interest.—Most of the upward revision in net interest is due to a larger estimate of imputed interest paid by private noninsured pension plans, based on Internal Revenue Service tabulations of employee benefit plans described earlier. This revision is partly offset by an upward revision in monetary interest received by these plans, which is deducted in calculating net interest. An upward revision in mortgage interest paid, discussed earlier under rental income of persons, also contributes to the upward revision.

Other NIPA components

Other NIPA components are revised slightly or not at all. Revisions in the remaining accounts (accounts 2-5) are largely due to revisions in the national income and product account.

^{2.} Two other changes, which affect exports and imports but not net exports, have been incorporated in the I-O tables but not in the NIPA's. See "The Input-Output Structure of the U.S. Economy, 1977" in this issue of the SURVEY.

The Input-Output Structure of the U.S. Economy, 1977

THIS article presents the U.S. inputoutput (I-O) accounts for 1977. With this publication, the number of BEA benchmark I-O tables is increased to six, covering the years 1947, 1958, 1963, 1967, 1972, and 1977.1

The tables presented in this article are in summary form; i.e., the underlying detail is aggregated to 85 industries and commodities. The 1977 tables are also available in considerably greater detail, as are those for 1963, 1967, and 1972.²

As described in the next section, the benchmark I-O tables and the national income and product accounts (NIPA's) are integrated conceptually. They are also integrated statistically; the benchmark I-O tables provide the basis for the comprehensive revisions of the NIPA's.

The I-O tables for 1977 are based primarily on the detailed industry statistics collected by the Census Bureau in the 1977 economic censuses. They incorporate several improvements in the 1977 economic censuses that were recommended in the Gross National Product Data Improvement Project Report.³ The coverage of the censues was expanded to include medical, educational, and

3. U.S. Department of Commerce, Office of Federal Statistical Policy and Standards, October 1977.

social services; new information was collected on purchased services (repairs, rentals, communication, etc.) for other covered industries; and for manufacturing, additional detail on materials consumed was collected. In addition, the I-O tables incorporate the improved adjustments for misreporting on tax returns and other improvements that are described in the article on the revised NIPA estimates for 1977 elsewhere in this issue of the SURVEY.

I-O and the NIPA's

The basic relationship between I-O and the NIPA's are brought out in charts 4 and 5. Features of I-O that are bypassed in the following explanation are discussed in the section on 'Definitions and Conventions.'

The national income and product account, shown on the left side of chart 4, measures the production of the Nation, both in terms of final products and in terms of incomes generated in production. Final products consist of sales to consumers (personal consumption expenditures), sales to business on capital account and change in business inventories (gross private domestic investment), net sales to foreigners (net exports), and sales to government (government purchases). The sum of the final products equals GNP. The same total may be derived by summing the incomes generated in production (charges against GNP). These consist of compensation of employees, proprietors' income, rental income of persons, corporate profits, net interest, business transfer payments, indirect business taxes, current surplus of government enterprises less subsidies, and capital consumption allowances.

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^{1.} For references to the BEA publications in which these I-O tables were presented, as well as references to other BEA publications related to I-O, see appendix Α.

^{2.} More detailed tables at two levels-366 industries/commodities and 537 industries/commodities are available for 1977. Computer tapes are available at all three levels. Tapes containing tables 1 through 5 cost \$200 at the 85-industry/commodity level and \$350 at the 366- or 537-industry-commodity level. Tapes containing only tables 4 and 5 (total requirements) cost \$200 at either the 366- or 537-industry/commodity level. Tapes can be ordered from the Interindustry Economics Division (BE-51), Bureau of Economic Analysis, U.S. Department of Commerce, Washington, D.C. 20230. Make checks payable to the U.S. Department of Commerce/BEA. Hard copy of the 537-industry/commodity tables (tables 1 through 5) will be available in a few months; its availability will be announced in the SURVEY OF CURRENT BUSINESS.

Gross National Product

In an Input-Output Format In the National Income and Product Accounts PRODUCERS FINAL DEMAND Compensation of Employees Personal Consumption Expenditures Gross Personal Private Government Net Exports GNP PRODUCERS Proprietors* Income Gross Private Domestic Investment Consumption Domestic Purchases Expenditures Investment Rental Income of Persons Net Exports **Corporate Profits** Government Purchases Compensa-Net Interest tion of Employees **Business Transfer Payments** Indirect Business Taxes Profit-Type Income*, Net Less: Subsidies Less Current Surplus of Government Interest, & Capital Con-Enterprises VALUE ADDED sumption Capital Consumption Allowances Allowances Indirect Business Taxes Charges Against GNP **CHARGES AGAINST GNP** GNP

* Consists of proprietors' income, rental income of persons, corporate profits, and business transfer payments, less: subsidies less current surplus of government enterprises.

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

					11	IDUSTRI	ES				F	INAL DEMA	AND (GNP)		TOTAL
		Agricul- ture	Mining	Construc- tion	Manufac- turing	Trans- por- tation	Trade	Finance	Services	Other	Personal Consumption Expenditures	Gross Private Domestic Investment	Net Exports	Government Purchases	TOTAL COM- MODITY OUTPUT
	Agricultural Products														
	Minerals														
	Construction									5					
	Manufactured Commodities						14.			alleria anta					
OMMODITIES	Transportation														
	Trade														
	Finance														
	Services		1.1												
	Other														1
<u> </u>	Compensation of Employess												•	<u> </u>	
/ALUE ADDED (Charges against GNP)	Profit-Type Income *, Net Interest, & Capital Consumption Allowances														
-	Indirect Business Taxes					1					1				

* Consists of proprietors' income, rental income of persons, corporate profits, and business transfer payments, less: subsidies less current surplus of government enterprises.

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

CHART 4

84-5-5

84-5-4

The right side of chart 4 shows the components of GNP and of charges against GNP, arranged in an I-O matrix format, i.e., a table in which information is presented in rows and columns. The row labeled "producers" shows the final products that make up GNP. The column headed "producers" shows the incomes that make up charges against GNP in three groups: compensation of employees; profittype income, net interest, and capital consumption allowances; and indirect business taxes.

The equality on the left side of the chart between GNP and charges against GNP is maintained on the right side, where the total of the producers' row equals the total of the producers' column. On the right side, the terms final demand and value added are introduced. In I-O terminology, these are usually used in place of GNP and charges against GNP, respectively.

Chart 5 is an elaboration of the right side of chart 4. It shows, in addi-

Table A.-Input-Output Commodity Composition of Final Demand, in Producers'

[Millions of dollars]

	Р	ersonal con expendi		on	Gross	private fix	ed inves	tment	Chan	ge in busin	ess inve	ntories		Expo	orts		Feder	al Governn national		chases,
Commodity number	Pro- ducers' prices	Transpor- tation costs	Whole- sale and retail trade mar- gins	Pur- chasers' prices	Produc- ers' prices	Transpor- tation costs	Whole- sale and retail trade mar- gins	Pur- chasers' prices	Pro- ducers' prices	Transpor- tation costs	Whole- sale and retail trade mar- gins	Pur- chasers' prices	Pro- ducers' prices	Transpor- tation costs	Whole- sale and retail trade mar- gins	Pur- chasers' prices	Pro- ducers' prices	Transpor- tation costs	Whole- sale and retail trade mar- gins	Pur- chasers' prices
1 2 3 5 6	2,511 7,726 788 0 0	19 1,377 14 0 0	593 5,481 461 0 0	3,123 14,584 1,264 0 0	0	0 0 0 13	0 0 0 17	0 0 0 404	-1,183 1,832 34 -437 57	$ \begin{array}{r} 1 \\ -14 \\ 1 \\ -77 \\ 1 \end{array} $	4 -121 10 -10 (*)	-1,178 1,697 44 -524 58	199 12,523 214 326 203	8 1,020 (*) 1ن 7	15 1,784 59 8 5	216 15,327 273 347 214	1 0 -49 -16		(*) 0 0 -1 (*)	$egin{array}{c} 1 \\ 0 \\ 0 \\ -51 \\ -18 \end{array}$
7 8 9 10 13	215 0 20 2 630	44 0 22 2 3	72 0 8 1 532	330 0 49 5 1,164		0 0 0 0	0 0 0 0	0 116 0 22	161 690 79 39 115	12	13 0 3 1 2	229 710 129 52 117	2,096 202 181 228 1,530	504 7 177 162 20	119 0 6 10 42	2,720 210 364 400 1,591	22 1 -2 0 5,157	$\begin{vmatrix} 0 \\ -2 \\ 0 \\ 0 \end{vmatrix}$	0 0 0 69	$22 \\ 1 \\ -3 \\ 0 \\ 5,250$
14 15 16 17 18	113,507 8,437 882 2,045 33,194	3,103 73 9 35 143	8,470 781 2,254	171,483 16,980 1,672 4,333 64,170	0 0 892	0 0 16 0	0 0 608 0	0 0 1,516 0	1,617 365 1,082 187 2,472	2	27 55 20	1,830 394 1,147 209 2,624	7,308 1,664 1,148 342 733	254 8 10 6 4	634 57 73 33 41	8,195 1,729 1,231 381 778	161 0 50 2 344	0 (*) 0	18 0 4 (*) 11	$182 \\ 0 \\ 54 \\ 2 \\ 357$
19 20 21 22 23	4,068 548 0 8,642 566	21 10 0 114 30	0 7,254	7,460 881 0 16,010 964	11 0 725	0 (*) 0 8 48	0 1 33 704	0 12 0 767 5,077	222 1,329 8 360 131	(*)	15	240 1,561 8 380 139	332 1,928 10 203 91		24 205 (*) 12 12	358 2,246 10 219 105	54 18 3 9 23	(*) 0 (*)	3 1 (*) (*) 3	1 3 1
24 25 26 27 28	5,307 192 10,237 1,149 0	196 3 203 101 0	89	8,610 284 13,921 2,012 0	0	0 0 0 0 0	0 0 0 0	0 0 541 0	739 181 596 1,083 259	2 7 48	77	828 190 647 1,208 267	2,150 178 702 6,273 1,734	138 3 10 346 78	189 11 62 510 50	2,477 192 774 7,129 1,862	32 26 138 1,071 34		2 1 7 33 (*)	35 28 144 1,127 35
29 30 31 32 33	16,921 168 38,595 6,444 0	418 9 1,920 205 0	59 17,933	28,514 236 58,448 11,916 0	0		0 0 12 0	71	600 148 3,046 1,366 18	5 221 25	258 103	677 172 3,525 1,495 19	1,703 162 2,693 1,532 166	143	285 26 170 136 3		198 (*) 2,043 213 (*)	0 105 4	38 0 140 20 0	238 (*) 2,289 238 (*)
34 35 36 37 38	7,610 829 1,123 11 48	63 16 22 2 1	6,906 781 1,063 7 40	14,578 1,627 2,208 20 89	0	0 0 0 2	0 0 0 11	0 0 5 119	209 163 717 1,274 1,007	6 41 43	71 75	226 182 829 1,392 1,054	144 503 604 1,580 1,512	3 14 30 54 19	15 41 70 103 82	1,736	17 7 22 119 88	(*) (*) 5	3 1 5 2 5	20 8 27 126 94
39 40 41 42 43	0 374 798 2,038 207	0 8 4 37 2	0 251 728 1,909 138	0 632 1,529 3,985 347		(*) 19 0 49 14	1 241 0 283 145	31 3,314 0 1,924 1,823	164 902 368 830 423		11	166 985 381 932 440	79 1,126 1,059 1,466 1,993	7 41	309	82 1,231 1,092 1,816 2,165	54 634 72 288 725	1 8 1 8 8	2 46 5 50 59	56 688 78 346 792
44 45 46 47 48	105 0 281 92	0 0 1	99 0 183 72	205 0 464 165	8,692 2,984 7,507	125 185 51 61 59	3,912 2,426 741 1,292 1,063	11,302 3,776 8,861	661 603 104 400 227		18 22 23	890 765 124 424 251	$\begin{array}{c c} 1,240 \\ 4,421 \\ 427 \\ 1,087 \\ 2,354 \end{array}$	18 93 7 7 25	437 1,155 101 148 379	1,694 5,669 535 1,242 2,758	17 127 76 116 64	3 1 1	5 33 15 12 13	128 77
49 50 51 52 53	0 40 420 432 91	2 3 1	60	812 749 152	7,432 2,986 5,854	42 1 43 30 63	t i	3,864 6,657	317 586	4 (*) 2 3	26 2 19 49 32	502 190 577 368 620	2,214 157 3,476 1,155 2,072	13	244	1	193 36 867 54 552	1 4 1 3	26 1 89 13 43	68 598
54 55 56 57 58	7,014 1,318 8,328 529 2,003	17 64 3	1,189 5,652 297 1,536	2,524 14,044 829 3,591	97 10,620 35 1,491	(*)	280 29 280 3 533	10,938 38 2,037	490 383		12 69 25 26 50	187 437 728 517 437	657 460 2,498 2,468 2,468 859	12	81 139 290	2,770	47 4,395 454	(*) 11 2	3 9 118 49 21	56 4,523 505
59 60 61 62 63	46,124 427 7,063 1,927 2,379	95 7	80 3,348 1,701	508 10,505 3,635	8 2,777 5 8,323	6 96 21	299	3,082 9,949 5,685	597 484	1 13 2	1 38 46	4,820 189 648 532 190	10,963 7,159 975 1,976 1,510	46 17 5	909 538 29 353 186	7,743 1,020 2,334	2,846	35 5 3	403 16 137	2,867 848
64 73 75 80 81	$\begin{array}{r} 12,684 \\ 13,863 \\ 25,437 \\ 8,727 \\ 5,502 \end{array}$	0 0 277	88 223	13.952		0	0	0 0 23	35	000000000000000000000000000000000000000	0	0 8 190	1,295 3,481 2 0 1,558	000000000000000000000000000000000000000	0	3,481 2 0	2,666 48 3,406	0 0 -17	-18	$2,666 \\ 48 \\ 3,371$

Less than \$500.000 in absolute value.

1. Purchasers' value for personal consumption expenditures include \$2 million in insurance charges (on imported commodities). Imports are excluded from the list of final demand categories because the entries are identical with those in column 95 of table 1; there is no difference between producers' and purchasers' values.

Note.-Table A excludes commodities for which the value of sales in producers' and purchasers' values are equal because there are no trade margins or transportation costs on these sales.

tion to final demand and value added, an expansion of the producers-to-producers box, which was empty in chart 4, into a large shaded area with many boxes. These boxes represent consumption of commodities by industries. For example, the row for manufacturing shows the consumption of manufactured commodities by industries as well as final demand; the column for manufacturing shows raw materials, semifinished products, and services used by the manufacturing industry to generate its output as well as the value added in industry.

The chart also shows total output of each commodity and the total output of each industry. The former is the

and Purchasers' Prices, 1977 1

Fede	ral Governn nonde	nent purc fense	hases,	State an	d local gove educa	rnment p tion	urchases,	State an	d local gove oth	rnment p er	urchases,	
Pro- ducers' prices	Trans- portation costs	Whole- sale and retail trade mar- gins	Pur- chasers' prices	Pro- ducers' prices	Trans- portation costs	Whole sale and retail trade mar- gins	Pur- chasers' prices	Pro- ducers' prices	Trans- portation costs	Whole- sale and retail trade mar- gins	Pur- chasers' prices	Com- modity num- ber
5 3,496 -828 0 (*)	(*) 1 0 (*)	1 1 0 0 (*)	6 3,498 -828 0 (*)	$ \begin{array}{r} 24 \\ 191 \\ 4 \\ 0 \\ 0 \end{array} $	(*) 34 0 0	$2 \\ 45 \\ 1 \\ 0 \\ 0 \\ 0$	25 270 5 0 0	$ \begin{array}{c c} 24 \\ 177 \\ -85 \\ 0 \\ 0 \end{array} $	(*) 18 (*) 0	$\begin{smallmatrix}&&2\\&41\\&&2\\&&0\\&&0\end{smallmatrix}$	26 236 - 83 0 0	1 2 3 5 6
9 99 0 3 821	(*) 4 0 2 1	(*) 0 (*) 3	10 102 0 5 825	49 0 0 0 0	12 0 0 0 0	3 0 0 0 0	64 0 0 0 0	$ \begin{array}{c} 60 \\ 0 \\ -39 \\ 87 \\ 45 \end{array} $	12 0 1 89 (*)	3 0 (*) 3 7	$75\\0\\-38\\179\\52$	7 8 9 10 13
443 0 5 14 0	0 0 -(*) (*) 0	1 0 1 2 0	444 0 6 17 0	2,045 (*) 27 4 7	41 0 (*) 0 0	216 -1 2 (*) (*)	$2,302 \\ -1 \\ 29 \\ 4 \\ 7$	938 0 32 17 281	23 0 (*) (*) 1	107 0 2 3 17	1,069 0 35 20 299	14 15 16 17 18
20 5 2 45 82	0 (*) 0 1 (*)	1 (*) 3 12	21 6 2 49 95	35 49 0 40 411	(*) 2 0 1 5	$\begin{array}{c}2\\7\\0\\2\\61\end{array}$	37 58 0 42 476	$152 \\ 23 \\ 0 \\ 16 \\ 253$	1 (*) 0 (*) 1	12 2 0 1 41	$165 \\ 25 \\ 0 \\ 17 \\ 295$	19 20 21 22 23
96 17 195 204 3	2 (*) 7 24 0	10 1 18 31 0	$ \begin{array}{r} 108 \\ 18 \\ 219 \\ 259 \\ 3 \end{array} $	$\begin{array}{c c} 525 \\ 40 \\ 2,117 \\ 330 \\ 2 \end{array}$	20 1 38 20 0	52 3 140 37 0	596 43 2,295 388 2	654 52 1,507 576 (*)	19 1 11 42 0	69 3 85 81 0	743 55 1,603 699 (*)	24 25 26 27 28
$132 \\ 3 \\ -169 \\ 96 \\ 1$	2 (*) 13 2 0	25 1 23 11 0	$ \begin{array}{r} 159 \\ 4 \\ -134 \\ 109 \\ 1 \end{array} $	239 102 1,795 137 0	7 5 98 2 0	$36 \\ 17 \\ 163 \\ 22 \\ 0$	282 124 2,056 161 0	$ \begin{array}{c c} 1,731 \\ 17 \\ 2,160 \\ 453 \\ 0 \\ \end{array} $	$28 \\ 1 \\ 120 \\ 9 \\ 0$	$710\\3\\213\\56\\0$	2,469 21 2,493 519 0	29 30 31 32 33
7 9 44 38 90	(*) 1 2 1 1	1 6 (*) 4	8 11 52 39 95	0 87 36 4 1	0 2 (*) 1 0	0 9 6 (*) 0	0 99 42 5 1	28 195 51 16 17	(*) 6 1 2 (*)	3 21 11 1 (*)	31 222 62 19 17	34 35 36 37 38
$\begin{array}{c} 0 \\ 256 \\ 32 \\ 120 \\ 25 \end{array}$	0 2 0 3 (*)	0 18 2 33 1	0 276 33 156 27	24 0 124 95 0	(*) 0 1 3 0	(*) 0 4 28 0	24 0 128 126 0	$ \begin{array}{c} 1 \\ 0 \\ 38 \\ 78 \\ 112 \end{array} $	0 (*) 2 1	0 0 2 17 9	$1 \\ 0 \\ 40 \\ 97 \\ 121$	39 40 41 42 43
4 29 36 82 20	0 1 (*) 1 (*)	1 5 7 12 2	5 34 44 95 22	20 0 1 39 26	(*) 0 (*) 0	7 0 1 6 4	27 0 2 45 30		1 8 0 (*) 0	21 83 1 3 (*)	$^{ \ \ 81}_{\ \ 420}\\^{\ \ 2}_{\ \ 23}_{\ \ 1}$	44 45 46 47 48
$90 \\ 66 \\ 351 \\ 36 \\ 242$	(*) 2 2 (*) 2	12 1 39 9 23	102 69 391 45 267	$\begin{array}{c} 0 \\ 17 \\ 235 \\ 217 \\ 48 \end{array}$	0 1 1 2 0	0 (*) 62 63 4	$ \begin{array}{r} 0 \\ 18 \\ 298 \\ 282 \\ 52 \end{array} $	48 17 138 59 67	(*) 1 0 (*) (*)	6 (*) 35 21 7	54 18 173 80 74	49 50 51 52 53
5 21 400 261 81	0 0 1 1 1	1 4 11 31 24	5 24 412 293 105	32 128 183 20 19	1 1 1 0 (*)	3 24 16 3 7	36 152 200 23 27	$ \begin{array}{c} 46 \\ 43 \\ 86 \\ 40 \\ 122 \end{array} $	(*) 0 0 1	4 7 5 43	$50 \\ 51 \\ 91 \\ 44 \\ 166$	54 55 56 57 58
291 629 151 398 404	9 1 1 1 2	$ \begin{array}{r} 14 \\ 0 \\ 2 \\ 65 \\ 51 \\ \end{array} $	314 630 153 464 456	651 0 29 60 380	27 0 3 0 2	54 0 1 11 45	732 0 33 71 427	1,399 8 218 508 412	$51 \\ 0 \\ 4 \\ 2 \\ 1$	97 1 12 97 76	1,546 8 234 607 489	59 60 61 62 63
$25 \\ 4,387 \\ 33 \\ 1,030 \\ -31$	4 0 (*) 0	14 0 (*) (*) 0	$\begin{array}{r} 44\\ 4,387\\ 33\\ 1,031\\ -31\end{array}$	$518 \\ 2,824 \\ 153 \\ 15 \\ 212 \\ 15 \\ 15$	21 0 0 4 0	86 0 1 2 0	626 2,324 153 21 212	3184,0195412747	12 0 0 1 0	69 0 1 (*) 0	399 4,019 542 3 747	64 73 75 80 81

sum of the consumption of the commodity by industries and of the sales of the commodity to final demand (final demand includes the change in the inventory of the commodity, wherever held). The latter is the sum of the consumption of commodities and of value added by the industry. For the economy as a whole, total output of commodities equals total output of industries.

Uses of I-O

I-O has a variety of uses, ranging from the assessment of the sales potential of an individual firm to the assessment of broad economic programs.

The major contribution of I-O to economic analysis is that it facilitates measurement of both the direct and indirect repercussions of changes in demand. For example, an increase in consumer demand for autos will lead, in the first instance, to an increase in the production of autos. The increase in the production of autos will result in more steel production, which in turn will require more chemicals, more iron ore, more limestone, and more coal. The production of autos will also require more upholstery fabrics, and the increased production of these fabrics will require more natural fibers, more synthetic fibers, and more plastics. There will be even further impacts; for instance, the increased production of synthetic fibers will require more electricity and containers. These repercussions are only a few in the chain resulting from the initial change in consumer demand for autos. Through I-O analysis, it is possible to trace this intricate chain of demand through the economy, measuring the direct and indirect effects on production.

The information derived in this way can be used for estimating related requirements. For example, with the aid of supplementary information, requirements for additional production can be translated into requirements for additional employment, inventories, or fixed capital.

I-O has been used widely to help evaluate the impact of energy shortages and of changes in the patterns of energy use. It has also been used to study the impact on the environment of industrial emissions of pollutants associated with alternative levels and (*Text continued on p. 48*)

Table B.-Input-Output Commodity Composition of Personal Consumption Expenditures, in Producers' and Purchasers' Prices, 1977

[Millions of dollars]

								[IVIII.	lions of do	liarsj							
I-O commodi- ty number	Produc- ers' prices	Trans- por- tation	Trade	Insur- ance	Purchas- ers' prices	I-O Commodi- ty number	Produc- ers' prices	Trans- portation	Trade	Insur- ance	Purchas- ers' prices	I–O commodi- ty number	Produc- ers' prices	Trans- portation	Trade	Insur- ance	Purchas- ers' prices
3. Food	1 purchased	for off-pre	mise const	umption	(n.d.)	19.	Other cloth	ing, access	ories and j	ewelry (s)		32. Other d	lurable hous	se furnishi	ngs (d.)	
Total 01 02 03 10 14	118,448 1,950 6,057 352 2 109,701	4,431 (*) 1,238 3 2 3,026	59,657 505 4,195 208 1 54,514	2 0 0 0 0 0 0	182,5382,45511,4905625167,241	Total 72 73	2,736 2,712 24	6 0 0	0 0 0	0 0 0	2,736 2,712 24	Total 17 19 20 23 26	7,563 1,967 289 366 523 13	228 34 2 7 30 0	7,422 2,200 181 235 330 7	0 0 0 0 0	15,213 4,200 472 608 883 20
27 80 81	$ \begin{array}{r} 54\\372\\-41\end{array} $	$158 \\ 0$	$29 \\ 205 \\ 0$	0 2 0		2 Total	1. Toilet ar 7,568	ticles and p	4,868	ns (n.d.) O	12,586	32 34 35 36	146 74 165 380	3 1 4 4	$126 \\ 61 \\ 141 \\ 275$		275 135 310 659
	4. Purchase	d meals an	d beverage	s (n.d.)		19 29 32	$20 \\ 6,405 \\ 26$	(*) 102 1	4,169 11	0 0 0	$ \begin{array}{c} 27 \\ 10,676 \\ 37 \end{array} $	40 42	60 839	(*)	33 882	0	93 1,732
Total 65 74 76	68,564 96 67,477 992	0 0 0 0	0 0 0 0	0 0 0	68,564 96 67,477 992	42 54 58 64	350 261 52 455	9 2 2 34	277 119 31 255	0 0 0 0	636 381 85 744	44 47 48 51 53	$105 \\ 281 \\ 92 \\ 417 \\ 44$	1 1 2 (*)	99 183 72 391 27		$205 \\ 464 \\ 165 \\ 810 \\ 71 \\ 71$
5. Food	furnished o	employees (including	military) (n.d.)					L		54 55 56	45 520 30		$33 \\ 550 \\ 16$		78 1,081 46
Total 01 02 03	3,281 111 119 9	83 1 5 (*)	384 12 11 3	0 0 0 0	3,749 124 135 11	22. Total 72	8,153 8,153 8,153	os, beauty p	arlors, and 0 0	i baths (s	s.) 8,153 8,153	61 62 64 80	31 354 540 358 74	5 1 52 59 0	22 280 621 329 331	000000000000000000000000000000000000000	$58 \\ 635 \\ 1,213 \\ 745 \\ 256$
14	3,042 ood produce	77	359	0	3,478		1	1		1		81	-14				
Total	1,092	eu anu cons	o neu on 1	arms (n.	1.092	24. Ow	ner-occupie	d nonfarm	dwellings	space re	nt (s.)		33. Semidu	rable house		gs (n.d.)	
01 02 03 14	149 179 1 764	0 0 0 0	0 0 0 0	0 0 0	149 179 1 764	Total 71	125,982 125,982	0 0	0 0	0	125,982 125,982	Total 16 17 19	4,170 175 21 3,371	56 2 (*) 17	3,680 139 24 2,919 25	0 0 0 0	7,906 316 45 6,307
	7. To	obacco proc	lucts (n.d.)		4	25.	Tenant-occ	upied nonfi	arm dwelli	ng-rent (s.)	26 31 32	31 1 103	0 0 2	(*) 92	0	56 1 196
Total 15	8,437 8,437	73 73	8,470 8,470	0	16,980 16,980	Total	47,816 47,499	0	0	0	47,816 47,499	35 37 41	53 7 69		43 6 62	0	97 14 132
	12. Shoes	and other		n.d.)		72	317	Ō	Ő	Ő	317	64 80	316 35	19 14	314 50 7	0	132 649 98 3
Total 32	6,231 842	47 13	5,934 1,132	0	12,211 1,986		26. Rental	value of fa	rm dwellir	195 (S.)		81	-11	0			0
34 81	5,400 -11	$ \begin{array}{c} 10\\ 34\\ 0 \end{array} $	4,794	0	10,228 -2	Total	7.292	0	0	0	7,292			olishing prep applies and p			
14. Wome	n's and chi	dren's clot footwear	hing and a	ccessorie	es except		7,292	0	0	0	7,292	Total	10,122	461	4,003	0	14,586
Total	22,426	146	23,365	0	45,937		27	. Other ho	using (s.)			03 09 17	19 20 35	11 22 (*)	9 8 10	0	38 49 44
16 17 18	585 1 19,444	5 0 66	572 1 $19,871$	0 0 0	1,162 1 39,381	Total	6,548	0	0	0	6,548	19 24	19 3,182 192	(*)	7 1,173 89	0	26 4,480
19 24	$45 \\ 816$	(*) 34	43 890	0 0	88 1,740		6,548	0	0	0	6,548	25 26 27	2 345	3 0 19	$1 \\ 212$	0	284 3 577
26 32 34	$135 \\ 60 \\ 1,516$	$\begin{array}{c}15\\1\\20\end{array}$	$147 \\ 60 \\ 1,572$	0 0 0	297 122 3,108	29. Fur	niture, incl	uding matt	resses and	bedsprin	ugs (d.)	29 30 32	4,859 168 92	241 9 2	1,645 59 29		6,744 236 123
64 81	$\begin{array}{r}133\\-309\end{array}$	5 0	155 54	0 0	$ \begin{array}{r} 294 \\ -255 \end{array} $	Total	8.697	118 112	7,491 7,232	0	16,306 15,938	36 42	$ \begin{array}{r} 107 \\ 236 \\ 41 \end{array} $	2 7 2 (*)	29 72 28	0	143 310 70
15. Men's	and boys' c	lothing and (n.d.		es except	t footwear	22 23 80 81	8,594 43 31 30	(*) 6 0	7,232 38 35 187	0	13,538 81 71 216	53 55 58 64	$ \begin{array}{r} 41 \\ 400 \\ 250 \\ 154 \end{array} $	3	325 193 117	000000000000000000000000000000000000000	728 449 282
Total 16	14,275 100	89 1 77	11,481 69	0	25,845 170								35. Station	ery and wri	ting suppli	ies (n.d.)	
18 19 32	$ \begin{array}{c} 13,686 \\ 12 \\ 41 \end{array} $	(*)	10,958 8 30	00000	20 72	ll	r	d other hou	-	-		Total 24	2,025 677	61 12	1,641 517	0	3,727 1,207
	438	8 2	352 35 29	0	798	Total 22 38	7,599 44 10	174 2 (*)	4,952 22 6	0	12,725 68 17	26 27	892 218	16 30	730 157	0	1,638
34 64 81	. 41	á		ļ	-15	40 52	314 359		218	0000	539 624	32 64	6 232	(*)	232	0	11 466
64 81		0		personn	el (n.d.)	54	6,683	160	4,316	{ 0	11,159				I		
64 81 16. Stan Total	41 -42 ndard clothi 112	0 ng issued t 1	o military	0	121		6,683 170 18	160 1 0	107	0	11,159 278 40			37. Electric	city (s.)	ļ	
64 16. Stan Total 16 18 34	41 -42 ndard clothi 112 23 64 25	0 ng issued t (*) (*) (*)	o military 8 2 4 3	000000000000000000000000000000000000000	121 24 68 28	54 58 81	170 18	1	107 22	00	278 40	Total	25,816 25,816	0	city (s.) 0 0	0	25,816 25,816
64 81 16. Stan 16 18 34 17. Clear	41 -42 ndard clothi 112 23 64 25 ning, storag	0 ng issued t (*) (*) (*) e and repai	o military 8 2 4 3 r of clothin	0 0 0 0 0	121 24 68 28 hoes (s.)	54 58 81 31. Total	170 18 China, glas	sware, table	eware and	0 0 utensils	(d.)		25,816 25,816	0	0	00	25,816 25,816
64 16. Stan Total 16 18 34	41 -42 ndard clothi 23 64 25 ning, storag 4,945 4,945	0 ng issued t (*) (*) (*) e and repai	o military 8 2 4 3 r of clothin 0	0 0 0 0 0 0 0 0	121 24 68 28 shoes (s.) 4,945	54 58 81 31. Total 20 32 36	170 18 China, glas 3,446 76 775 606 420	1 0 sware, table 44 2 12 11 4	eware and 3,645 79 756 593 610	0 0 0 0 0 0 0 0 0 0 0 0	(d.) (d.) 7,134 156 1,543 1,210 1,035		25,816 25,816 11,237	0 0	0	0	25,816
64 81 16. Stan 16 16 16 18 34 17. Clean Total	41 -42 ndard clothi 23 64 25 ning, storag 4,945 4,945	0 ng issued t (*) (*) (*) (*) e and repai	o military 8 2 4 3 r of clothin 0	0 0 0 0 0 0 0 0	121 24 68 28 hoes (s.) 4,945 4,945	54 58 81 31. Total 32	170 18 China, glas 3,446 76 775 606	1 0 sware, table 44 2 12 11	eware and 3,645 79 756 593	0 0 utensils 0 0 0 0 0 0 0 0 0 0 0 0	(d.) 7,134 156 1,543 1,210	68 Total 68	25,816 11,237	0 0 38. Gas	(s.)	0	25,816

See footnotes at end of table.

Table B.—Input-Output Commodity Composition of Personal Consumption Expenditures, in Producers' and Purchasers' Prices, 1977—Continued

[Millions of dollars]

								[Millions of	dollarsj								
I-O commodi- ty number	Produc- ers' prices	Trans- portation	Trade	Insur- ance	Purchas- ers' prices	I-O commodi- ty number	Produc- ers' prices	Trans- portation	Trade	Insur- ance	Purchas- ers' prices	I-O commodi- ty number	Produc- ers' prices	Trans- portation	Trade	Insur- ance	Purchas- ers' prices
	40.]	Fuel oil and	coal (n.d.)		5	9. Expense	of handlin	g life insur	ance (s.)			75. Te	axicab trans	sporation (s.)	
Total 07	7,232 215	322 44	3,386 72	0	11,057 330	Total	14,960 14,960	0	0	0	14,960 14,960	Total 65	2,397 2,397	0	0		2,397 2,397
20 27 31	106 100 6,629	1 9 269	9 18 3,285		116 126 10,301) 0. Legal ser	vices (s.)			اـــــــــــــــــــــــــــــــــــــ	76. Ra	ilway (com	mutation)		
37 68	5 177	(*) 0	3,200 1 0	0	10,301 6 177	Total	9,566	0	0	0	9,566	Total	232 232	0	0	0	232 232
	41. Tel	ephone and	telegraph	(s.)	L	73	9,566	ral and bur			9,566	65	232	0	0	0	232
Total 66	21,544 21,269	0	0	0	21,544 21,269	Total	3,384 175	7	110	0	3,502	11		(excluding			
72	275	Ő	0	Ŏ	275	36 42 65	175 7 26	6 1 0	106 5 0		3,502 287 13 26	Total 65	272 272	0	0	0	272 272
Total	42. 6,082	Domestic se			<u> </u>	71 72	541 2,636	Ŭ 0	Ŏ	Ŏ	541	II	79. Inter	city bus tra	nsportatio	n (s.)	
73 84	152 5,930	0 0 0	0 0 0	0 0 0	6,082 152 5,930		62. Otl	her persona	l business	(s.)	<u> </u>	Total 65	988 988	0	0	0	988 988
	43. Othe	r household	operation	ı (s,)		Total 66	5,002 50	0	0 0	0	5,002 50		80. Ai	irline trans	portation (s.)	
Total 22	9,968 4	0	0	0	9,968 4	70 72 73	37 735 584		0 0 0	0000	37 735 584	Total 65	8,286 8,286	0	0	0	8,286 8,286
515454	3 7	0	0	0 0	37	77 78	3,477 83	0	0 0	0 0	3,477 83			intercity tr			
65 70 72	2,560 1,336 2,397	0 0 0	0 0 0	0 0 0	$2,560 \\ 1,336 \\ 2,397$	80	37	0 65. New au	0 tos (d.)	0	37	Total	563	niterency tr		0	563
73 78	1,052 2,609	0	0 0	0 0	1,052 2,609	Total	35,859		7,516	0	44,407	65	563	Ō	Ō	Ő	563
4	5. Drug pr	eparations a	nd sundri	es (n.d.)		59	35,859	1,032 1,032	7,516	0	44,407			Books and		·	
Total 24	6,716 588	103 24	6,253 494	0	13,073 1,106	 Total	66. Net p 6,240	urchases of	used auto 5,860	s (d.) 0	12,104	Total 26 81	2,909 2,909	46 46 0	1,119 1,095 24	0	4,074 4,050 24
27 29 31	43 5,598	4 71 0	47 5,317	0 0 0	94 10,986 3	80 81	6,240 24 6,215	5 5 0	5,855	0	12,104 34 12,070	∥Ⅰ		newspapers,			
3254	133 19	3 (*)	$101 \\ 15$	0	236 34		67. 0	ther motor	vehicles (d	.)	L	Total	6,161	126	1,440		7.727
55 62	4 331	0 1	4 274	0	8 606	Total	12,167 9,283	283 273	3,405 1,896	0	15,855 11,451	26 81	6,191 - 30	126 0	1,440 0	0 0	7,757 -30
46. Oph	thalmic pro	oducts and o	rthopedic	applianc	es (d.)	61 81	2,663 221	10 0	1,059 450	0 0	3,733 671	85.	Nondurab	le toys and	sport sup	ilies (n.d.)
Total 58 62	1,252 75 289	5 2 1	1,974 97 328	000	3,231 173 618	68. '	Fires, tubes	s, accessorie	es and othe	r parts (d.)	Total	5,630 168	92 0	5,121 231	0	10,843 399
63 81	883 5	$\frac{1}{2}$	1,550 0	Ŏ	2,435	Total 19	6,713 27	410 (*)	5,754 14	0	12,877	13 17 24	163 22 43	(*) 2 0	128 20 33		293 42 78
		47. Physicia	ns (s).	L	·	27 29 32	292 59 4,095	28 4 166	220 45 2,841	000000000000000000000000000000000000000	540 109 7,102	26 27 32	63 97 98	072	38 79 65	0	101 183 165 12
Total 77	28,137 28,137	0	0	0	28,137 28,137	35 36	5 42	(*) (*)	4 44	0	10 86	53 55	$\begin{array}{c} 6\\274\end{array}$	(*)	5 228	0	504
		48. Dentist	s (s.)	L	L	42 50 52	101 40 73	$\begin{array}{c}1\\3\\1\end{array}$	68 20 52	0 0 0	170 62 125	58 63 64	143 631 3,918	1 5 71	102 627 3,541	0	246 1,262 7,530
Total	9,849 9,849	0 0	0	0	9,849 9,849	55 56 57	119 85 54	1 1 (*)	83 56 30	0 0 0	203 141 84	72 81	4 0	0	0 24	0	4 24
49	l	ofessional m		l	<u> </u>	58 59	1,238 983	(*) 37 167	$956 \\ 1,121$	0 0	2,231 2,271	86. Wheel		rable toys, s leasure airc		pment, bc	ats and
Total	7,373	0	0	0	7,373	69. Autor	-499	ir, greasing	201 washing	0 narking	-297	Total	8,429	115	5,170	0	13,714
73 77	50 7,323	0	0	0	7,323			and renta	l (s.)			13 19 32	466 286 27	$1\\2\\1$	404 191 20	0 0 0	871 479 48
50. Priv	vately-cont	rolled hospi	tals and s	anitariun	ns (s.)	Total 61 73	25,506 2 14	0 0 0	223 0 0	0 0 0	25,729 2 14	34 42	149 134 207	1 3 2	120 140	0	270 277 247
Total 77	41,626 41,626	0 0	0 0	0	41,626 41,626	75 76	25,437 46	0 0	223 0	0	25,660 46	43 58 60	$\begin{array}{c} 3\\427\end{array}$	(*)	138 3 80	0 0	347 7 508
	51.	Health insu	rance (s.)	L		77	70.0	0 Gasoline an	0 	0	7	61 63 64	4,367 865 1,163	80 4 22	2,267 688 1,034	0	$\begin{array}{c} 6,714 \\ 1,557 \\ 2,219 \end{array}$
Total 70	7,983 7,983	0	0 0	0 0	7,983 7,983	Total	31,963 31,963	1,072 1,072	14,646 14,646	0	48,143 48,143	73 81	270 64	000	1,004 0 85	0	270 149
56. Bro	okerage ch	arges and in	vestment	counselir	ıg (s.)		-	innel, ferry			L	87. Radi	o and telev	vision receiv instrument		is and m	usical
Total 70	4,053 4,053	0 0	0 0	0	4,053 4,053	Total	908	0	0	0	908	Total	9,353	77	6,307	0	15,737
57. Bank s	service cha	rges, trust se rental (d safe de	posit box	79 72 Auto	908	0	0	0	908	34 56 57	8,211 475	(*) 64 3	$5,581 \\ 268$	0 0 0	$12 \\ 13,856 \\ 746$
Total	3,384	1 entar (0	0	3,384	Total	7,820	rance prem	0	ciaims p		58 64	72 575 13	2 9 0	49 374 31	0	123 958
70	3,384	Ó	Ō	0	3,384	70	7,820	0	0	Ő	7,820 7,820	81		o and televi	l	(s.)	43
		ished withou except life i				74. Street	and electri	c railway a (s.)	nd local bu	s transp	ortation	Total	2,459	0	0	0	2,459
Total 70	25,95 5 25,955	0	0 0	0 0	25,95 5 25,955	Total 65	2,371 2,371	0	0	0 0	2,371 2,371	56 72 73	$2,292 \\ 165$	0 0 0	0 0 0	0 0 0	2,292 165
	L	L		·	1	L						L				<u> </u>	

See footnotes at end of table.

Table B.—Input-Output Commodity Composition of Personal Consumption Expenditures, in Producers' and Purchasers' Prices, 1977—Continued [Millions of dollars]

I-O commodi-I-O commodi-I-0 Produc Produc-Purchas Purchas-Trans-portation Produc-Purchas-Insur-Trans-Insurcommodi-Trans Insur-Trade Trade Trade prices ers' prices portation ance ty numbe portation ance ty number ance ty number prices prices prices prices 89. Flowers, seeds, and potted plants (n.d.) 96. Parimutuel net receipts (s.) 104. Foreign travel by United States residents (s.) 2,871 2,780 50 31 10 **Total**... 65..... 80..... 1**0,335** 3,952 6,383 135 134 0 0 Total. 02... Total ... 76..... 1,883 1.883 10,335 3.952 1,457 1,279 1,275 0 0 0 1,883 1,883 000000 02. 04. 73. 80. 50 31 5 6.383 ŏ 97. Other recreational expenditure (s.) 105. Expenditures abroad by United States Government personnel (military and civilian) (n.d.) 12,305 395 252 303 **Total** 11,584 61 18 (*) 0 0 0 0 0 0 0 0 0 0 91. Motion picture theaters (s). 01. 03. 1,198 1,198 Total 80..... 1,198 1.198 $\frac{241}{303}$ 11 0 0 Total. 2.3682,368 04 66 67 70 0 1,075 344 1,075 344 10 76. 77. 2,326 23 2,326 106. Expenditures in the United States by foreigners (s.) 3 2,926 2,043 2,228 2,926 1,954 2,228 $^{0}_{88}$ 72 73 Total. 00 -6,982-6,982-6,982 -6.982 92. Legitimate theaters and opera and entertainments of nonprofit institutions (except athletic) (s.) 76 77 000 1,130 803 283 1,130 803 429 374 1 34 8 107. Personal remittances in kind to foreigners (n.d.) **Total**. 76... 77... **1,083** 1,043 40 80. 81. 1,033 1,043 40 0 0 Total. 83... --**239** --239 $-239 \\ -239$ 99. Private higher education (s.) 93. Spectator sports (s.) Total. 77... 7,063 7,063 7,063 7,063 0 0 0 0 Total personal consumption expenditures 1,653 747 907 Total 1,653 0000 0000 1,013,284 10,066 Total 222,550 2 1,246,481 76.. 77.. 747 907 100. Private elementary and secondary schools (s.) £ Total ... **6,164** 6,164 **6,164** 6,164 Durable commodities (d.) 0 0 0 94. Clubs and fraternal organizations except insurance (s.) Total..... 115,869 2.551 65,943 0 184.362 **2,219** 1,422 798 **2,219** 1,422 798 Total. 101. Other private education and research (s.) 000 000 76..... 77..... Õ **Total** 76.. 77.. Nondurable commodities (n.d.) 5.38 5.387 000 199 5,187 199 ŏ 5,187 Total 326.869 7.448 155.614 2 490.513 95. Commercial participant amusements (s.) 102. Religious and welfare activities (s.) 5,946 803 5,133 11 Total 5,946 803 000000 Services (s.) 0 0 0 65..... 76..... 77..... 5,133 11 Total.. 24,191 24,191 0 0 **24,191** 24,191 0 0 0 Total .. 570,546 68 993 0 571,607

*Less than \$500,000.

Note.—The identifying numbers for the personal consumption expenditure categories are those used in table 2.4 in the July 1983 SURVEY OF CURRENT BUSINESS. Personal consumption expenditures of scrap. used, and secondhand goods (I-O 81) from other

Personal consumption expenditures of scrap, used, and second hand goods $(I-O\ 81)$ from other final demand components are shown net of corresponding sales. (Sales among persons cancel.) However, the trade margin has been measured on all sales of used goods—both among persons and between personal consumption expenditures and other final demand categories—to the extent that such sales pass through trade channels. The trade margin is usually the largest part of the value of used goods in purchasers' prices.

The margin for insurance (I-O 70) covers only the cost of insuring noncomparable imported commodities as they move from the foreign port to the domestic port. Insurance on domestic products in transit is included in transportation cost.

compositions of final demand. In conjunction with information on the geographic distribution of production, I-O can shed light on the regional implications of changes in the Nation's GNP. It is also useful in cost-price analysis, by providing detailed information on cost-price structures and by permitting measurement of the direct and indirect repercussions of changes in the price of any given commodity or element of value added.

The most important assumption generally made in I–O analysis is that the inputs used in production are proportional to output. Even though this assumption is not in full accord with real-world conditions, it is an adequate approximation for many purposes. Moreover, these relations, or "input coefficients," as they will be referred to later, in general do not change rapidly. Accordingly, the I–O tables that are used to quantify these relations retain their usefulness for economic analysis over a period of several years.⁴

Description of I-O tables

The results of the 1977 I-O study are presented in five basic tables. The five tables are: (1) use table, (2) make table, (3) commodity-by-industry direct requirements table, (4) commodity-by-commodity total requirements table, and (5) industry-by-commodity total requirements table.⁵ This section describes these tables and highlights some of the important I-O relationships for 1977. The next section summarizes the definitions and conventions underlying the tables.

The use table (table 1).—The use table shows the value of each commodity used by each industry. The entries in a row represent the use by each industry of the commodity named at the beginning of the row and the sales of the commodity to final users. The entries in a column represent the value of the commodities—raw materials, semifinished products, and services-used, and the value added generated, in production by the industry named at the head of the column. The row total (total commodity output) is the output of the commodity (no matter which industries contributed to that output) and the column total (total industry

^{4.} BEA produces summary, updated I-O tables for nonbenchmark years based on the tables for the latest benchmark. These tables incorporate for each of the 85 industries/commodities current-year prices and the output proportions at the 537-industry/commodity level for the current year. The first update based on the 1977 benchmark will be for 1980; its availability in a staff paper, planned for later this year, will be announced in the SURVEY.

^{5.} In the designation of I-O tables, the row is referred to first and the column second. Thus, tables in which commodities appear in the rows and industries in the columns are designated "commodity-by-industry" tables, and tables in which industries appear in the rows and commodities in the columns are designated "industry-by-commodity" tables.

Table C.-Input-Output Commodity Composition of Producers' Durable Equipment Expenditures, in Producers' and Purchasers' Prices, 1977

[Millions of dollars]

I-O commodi- ty number	, Produc- ers' prices	Trans- portation	Trade	Insur- ance	Purchas- ers' prices	I–O commodi- ty number	Produc- ers' prices	Trans- portation	Trade	Insur- ance	Purchas- ers' prices	I-O commodi- ty number	Produc- ers' prices	Trans- portation	Trade	Insur- ance	Purchas- ers' prices
	3. F	urniture an	d fixtures				11. Specia	al industry i	nachinery,	n.e.c.				20. Passeng	er cars		
Total 22 23 81	$4,815 \\ 642 \\ 4,207 \\ -35$	54 8 46 0	727 30 687 11	0 0 0 0	5,596 680 4,940 24	Total 48 52 58	5,200 5,209 2 9	59 59 0 0	1,065 1,063 0 1	0 0 0 0	10	Total 59 81	9,456 16,392 6,937	472 472 0	2,603 2,286 317	0 0 0	12,530 19,149 6,620
	4. Fa	bricated me	tal produc	ts	·	81	-20	0	1	0	-19		.	21. Aire	raft		
Total	5.602	81	543	0	6,226	12. Ge	neral indu	strial, inclue equipm		ials hand	dling,	Total 23	2,986 118	10 2	420 17	0	3,416 137
06 27 37 39	374 541 5 29	13 0 0 (*)	17 0 0 1	000000000000000000000000000000000000000	$\begin{array}{r} 404\\541\\5\\31\end{array}$	Total 46 49	7,884 2,979 4,971 66	92 51 41 0	1,358 741 465 151	0 0 0		60 62 81	2,777 401 311	6 3 0	299 105 0	0 0 0	3,082 509 311
40 42	$3,055 \\ 1,591$	19 49	$241 \\ 283 \\ 0$		$3,314 \\ 1,924$	81				Ļ			:	22. Ships an	d boats		
46 62	5 2	Ŏ	1	ŏ	5	Total	7.440	puting, and			8,781	Total 61 81	2,408 2,443 - 35	6 6 0	86 86 0	0 0 0	2,501 2,536 - 35
	5.	Engines and	l turbines			51 57	7,432 34	43 43 (*)	1,298 1,215 3	0	8,689			. Railroad e	auipment		
Total 43	$1,577 \\ 1,663$	14 14	145 145	0	1,737 1,823	81	-25	0		0	55		2,765	56	81	0	2,903
81	-86	Ō	0	Ő	-86			rvice indust		r		61 81	2,772 _7	56 0	81 0	Ŏ O	2,909 -7
		6. Tract	ors			Total 50 52	3,024 29 2,983	31 1 30	881 1 849	0 0 0			L	24. Instru	nents		
Total 44	3,706 2,808	75 42	1,827 1,250	0	5,608 4,100	81	11	0	31	ŏ	42	Total	8,385	36	1,566	0	9,987
45 80 81	1,171 17 -290	31 3 0	547 3 27	0 0 0	1,749 23 - 264	16. Elec	etrical tran	smission, di appara		and ind	ustrial	62 63 81	4,166 4,188 31	18 17 0	990 577 0	0 0 0	5,174 4,782 31
7	. Agricultu	ral machine	ery, except	tractors		Total 53	5,854 5.854	63 63	753 741	0	6,670 6,657		25. Othe	r nonreside	ntial equip	ment	
Total	4,708 4,451	69 69	1,751 1,618	0	6,528 6,138	81	0	Ŏ	12	Ŏ	6,657 12	Total 17	3,008 439	141 8	1,728 299	0 0	4,877 746
44 81	4,451 257	0	133	ŏ	0,138 390		17. Co	mmunicatio	on equipme	ent		20 32 44	$11 \\ 40 \\ 1.152$	(*) 1 14	$1\\3\\1.044$	0 0 0	$12 \\ 43 \\ 2,210$
8	. Construct	ion machin	ery, except	tractors		Total 13	14,074 22	39 0	282 0	0		61 64	1,152 186 1,283	23 96	1,044 43 339	0	2,210 252 1,718
Total	4,910	128	1,339	0	6,376	38 56	106 10,560	2 37 0	$ \begin{array}{c} 11 \\ 271 \\ (*) \end{array} $	0000	$\begin{array}{c}119\\10,868\end{array}$	81	-103	Ŏ	0	Ŏ	-103
45 81	4,975 - 65	128 0	1,221 117	0	6,324 52	57 66 81	3,385 -(*)	0	0	0	3,385 _(*)	26	. Sale of ec	quipment sc	rap, exclud	ling auto	s
	9. Mini	ng and oilfi	eld machii	nery	·		18. El	ectrical equ	ipment, n.e	e.c.	·	Total 81	$-1,527 \\ -1,527$	0	0 0	0 0	$-1,527 \\ -1,527$
Total 08	2,770 116	27	760	0	3,557 116	Total	1,958	18	659 98	0	2,635		27. Resi	dential (lan	dlord dura	bles)	
45 49	2,545 109	27	657 17	000000000000000000000000000000000000000	$3,229 \\ 127$	54 55	387 97 1,482	4 1 12	98 29 532	0000		Total	1,834 453	50 8	513 309	0	2, 397 770
81	0	Ō	86	0	86	58 81	-8	0	0	Ő	-8	17 22 32	455 83 18		305 4 9	0	87
<u> </u>	10. N	letalworkin	g machine	ry			19. Truc	ks, buses, ar	nd truck tr	ailers		54 56	1,220 61	40 (*)	182 9	0 0	28 1,442 70
Total 47 81	7,479 7,507 -29	61 61 0	1,345 1,292 53	0 0 0	8,885 8,861 24	Total 59 81	14,247 14,462 -215	341 341 0	1,621 1,550 71	0 0 0	16,209 16,353 144	Total PDE	124,562	1,964	23,348	0	149,874

output) is the output of the industry (no matter what was produced).

An interesting aspect of the U.S. economy shown in the rows is the wide variation in the proportion of commodity output sold directly to final users. Some commodities, such as footwear and other leather products (the primary product of I-O industry 34) and household furniture (I-O 22), were sold almost entirely to final users; therefore, the demand for these commodities is directly affected to a substantial degree by changes in final demand. Other commodities, such as wood containers (I-O 21) and

iron and ferroalloy ores mining (I-O 5), were used almost entirely by industrial users. For such commodities, the connection between production and final demand is remote and can be traced only through the sales to final users made by industrial users of the commodity.

The rows of table 1 also show wide variation in the concentration of the use of a commodity by industries. Primary iron and steel (I-O 37) was used by 69 industries; none of them used more than \$13,116 million, or 20.6 percent, of total production of iron and steel of \$63,623 million. In contrast, metal containers (I-O 39) were used by 18 industries; one of them, food and kindred products (I-O 14), used \$5,841 million, or 68.3 percent, of total production of \$8,551 million.

The pattern of the use of a commodity as shown in a row of table 1 may change over time, even if the input coefficients mentioned earlier remain fixed.

The make table (table 2).—The make table shows the value of each commodity produced by each industry. The entries in a row represent the value of the commodities-both primary and secondary-produced by

^{*}Less than \$500,000. Nore.—The identifying numbers for the producers' durable equipment expenditures are those used in table 5.6 in the July 1983 SURVEY OF CURRENT BUSINESS.

[Millions of dollars]	of dollars]
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	1977
Exports of goods and services, NIPA's	185,275
Less: U.S. merchandise returned	2,140
Reexports	2,210
Fees and royalties from affiliated foreigners	3,883
Plus: Fees and royalties received	5,001
Equals: Exports of goods and services, I-O	182,043
Imports of goods and services, NIPA's	187,386
Less: U.S. merchandise returned	2,140
Reexports	2,210
Fees and royalties to affiliated foreigners	243
Plus: Fees and royalties paid	1,361
Equals: Imports of goods and services, I-O	184,154

the industry named at the beginning of the row.⁶ The value of the primary product is shown in the diagonal cell (the cell where the row with a given number intersects the column with the same number). The secondary products of the industry (products primary to other industries) are shown in the other cells along the row. The entries in a column represent the dollar value of the production by each industry of the commodity named at the head of the column.

The row total is industry output and the column total is commodity output. The row totals of table 1 equal the column totals of table 2; the column totals of table 1 equal the row totals of table 2.

An industry's share of the production of a commodity can be calculated from the values in table 2 by expressing the entries in a given column as a percentage of the column total. For example, column 27 shows that the production of chemicals and selected chemical products (I-O 27) totaled \$63,263 million, the chemical and selected products industry (row 27) produced \$50,675 million, or 80.1 percent of the total.

The commodity-by-industry direct requirements table (table 3).—Each column of table 3 shows the inputs required by the industry named at the head of the column for commodities named at the beginning of each row to produce a dollar of that industry's output. These entries are the input coefficients. They also are referred to as the "direct requirements coefficients." They show that, for example, to produce a dollar of output, the chemicals and selected chemical products industry (I-O 27) required 26.2 cents of chemicals and selected chemical products, 2.5 cents of refined petroleum products (row 31), 1.7 cents of chemical and fertilizer minerals (row 10), etc.

Table 3 shows heavy interdependence among industries. Seventy-six of the industries shown in the table required inputs of at least 40 commodities, and 52 industries required inputs of at least 50 commodities. The motor vehicles and equipment industry (I-O 59), for example, required inputs of 65 commodities.

The information in tables 2 and 3 make it possible to trace the interconnections among final demand for commodities, production of commodities, and production of the industries producing the commodities. For example, assume that \$1 million worth of household furniture is produced for sale to consumers. From table 2, it is seen that the household furniture industry (I-O 22) produced \$9,915 million, or 97.8 percent, of the production of this commodity. Thirty-nine million dollars, or 0.4 percent, was produced by the rubber and miscellaneous plastics products industry (I-O 32), \$36 million, or 0.4 percent, was produced by the miscellaneous manufacturing industry (I-O 64), and the remainder by 24 other industries. Based on these 1977 proportions, I-O 22 would initially supply \$978,000 for sale to consumers, I-O 32 would supply \$4,000, and I-O 64 would supply \$4,000. The commodities required by I-O 22 will be traced first. Column 22 in table 3 shows that the household furniture industry would require \$2.093 $(\$978,000 \times 0.00214)$ of household furniture products, of which it would produce $$2,047 (0.978 \times $2,093)$ itself. Thus, industry 22 initially would have to produce \$980,047 of household furniture; this production would require 60,782 ($980,047 \times 0.06202$) of fabrics (I-O 16), \$120,653 (\$980,047 \times 0.12311) of wood products (I-O 20), and so on down column 22.

In turn, the production required by each of the industries producing the commodities required by the household furniture industry to meet the requirements placed upon it may be traced using the information in tables 2 and 3. Thus, to supply the fabrics, I-O industry 16 requires its own products (fabrics) plus agricultural products (I-O 2), chemicals and selected chemical products (I-O 27), plastics and synthetic materials (I-O 28), etc. I-O industries 17, 18, 19, and 28, which produce fabrics as secondary products, would also require commodities to produce their share of the production of fabrics.

In a similar manner, the repercussions resulting from the production by I-O 32 and I-O 64 of their shares of the \$1 million of household furniture sold to consumers may be traced.

This tracing of the requirements that spread through the economy can be continued, and the total production required of each industry to produce \$1 million of household furniture for consumers can be derived. However, the total production required can be calculated more easily by using tables in which the information shown in tables 2 and 3 has been combined and completely traced and summarized. Such tables are called total requirements tables. Requirements for commodities can be derived from the commodity-by-commodity total requirements table (table 4) and industry requirements from the industry-by-commodity total requirements table (table 5).

The commodity-by-commodity total requirements table (table 4).—Each column of table 4 shows the production required both directly and indirectly of the commodity named at the beginning of each row per dollar of delivery to final demand of the commodity named at the head of the column.⁷ These coefficients are referred to as "commodity-by-commodity total requirements coefficients."

Returning to the household furniture example, the total requirements (direct and indirect) for commodities to provide consumers with \$1 million of household furniture can be calculated simply. Thus, the column for I-O commodity 22 shows that \$1,002,220 (\$1,000,000 \times 1.00222) of household furniture products is required (row 22). Similarly, \$103,520 of fabrics (\$1,000,000 \times 0.10352) is required (row 16), \$182,440 of lumber and wood products (\$1,000,000 \times 0.18244) is required (row 20), etc.

The industry-by-commodity total requirements table (table 5).—Each column of table 5 shows the product

^{6.} The classification of industries and primary and secondary products are discussed in the section on "Definitions and Conventions."

^{7.} The derivation of this table is shown in the "Mathematical Derivation of the Total Requirements Tables for the 1972 Input-Output Study." See item 50 in appendix A.

(primary and secondary) required both directly and indirectly from the industry named at the beginning of each row per dollar of delivery to final demand of the commodity named at the head of the column.⁸ These coefficients are referred to as "industry-by-commodity total requirements coefficients."

Returning again to the household furniture example, calculations similar to those made for commodity-bycommodity total requirements would be made. The column for I-O commodity 22 shows that to provide consumers with \$1 million of household furniture, \$980,950 (\$1,000,000 \times 0.98095) is required directly and indirectly from the household furniture industry (row 22), \$105,570 (\$1,000,000 \times 0.10557) from the fabrics industry (row 16), \$182,110 (\$1,000,000 \times 0.18211) from the lumber and wood products industry (row 20), etc.

Definitions and conventions 9

Classification of industries and commodities.—The classification underlying the I-O industry/commodity categories is based on the Standard Industrial Classification (SIC), which classifies establishments into industries. For the purpose of the SIC, establishments are defined as economic units, generally at a single, physical location where business is conducted or where services or industrial operations are performed. Establishments are classified into an SIC industry on the basis of their principal product or service (primary products).

The I-O industry categories and their composition in terms of the 1977 SIC codes are given in appendix B. The industry categories used in the 85-level tables presented in this article are identified with two-digit I-O numbers. The more detailed industries in the 366- and 537-level tables are identified with four- and six-digit I-O numbers, respectively.

Seventy-seven of the 85 two-digit I-O industries are combinations of industries as defined in the *Standard Industrial Classification Manual*, 1977 edition. These I-O industries exclude the government-owned establishments contained in the industries as defined in the SIC. Those government-owned establishments that are defined as government enterprises in the NIPA's are included in two I-O industries-Federal Government enterprises (I-O 78) and State and local government enterprises (I-O 79). The remaining six I-O industries are "special industries" that are outside the purview of the SIC. They are noncomparable imports (I-O 80); scrap, used, and secondhand goods (I-O 81); government industry (I-O 82); rest of the world industry (I-O 83): household industry (I-O 84); and inventory valuation adjustment (I-O 85). The commodity classification is closely related to that described above for industries. For a given commodity, the code of the industry in which the commodity is the primary product is assigned as the commodity code. This code is then used to group the production of the commodity as a primary product and its production in other industries as a secondary product.

Trade.-The I-O tables do not trace actual flows of commodities to and from trade. If trade were shown as buying and reselling commodities, industrial and final users would make most of their purchases from a single source-trade. To show the links between the production of commodities and the purchases of them by industrial and final users, commodities are shown as if moving directly to the users, bypassing trade. Production in trade is measured by the margin, which is defined to consist of operating expenses, profits, sales taxes, excise taxes, and customs duties. The margin associated with a commodity is shown as a separate purchase from trade by the user of the commodity.

Valuation of transactions.—In the I-O tables in this article, the commodities are valued at producers' prices. Such prices exclude distribution costs (trade margins and transportation costs). They are defined to include excise taxes collected and paid by the producer. As in the case with trade, transportation costs are shown as a separate purchase by the user of the commodity. (This valuation differs from that used in the NIPA's. In the NIPA's, goods and services are valued at purchasers' prices, which are producers' prices plus distribution costs.)

Secondary products.—In the I-O tables, secondary products are "redefined," that is, the secondary product and associated inputs are excluded from the industry that produced it and included in the industry in which it was primary. The redefinitions are of two kinds. The first kind is reflected in tables 1 and 2, and therefore in the three other tables. The second kind is reflected only in tables 4 and 5:

For the first kind of redefinition, the inputs associated with the redefined products were estimated on the assumption that the input coefficients applicable to that product were the same as those of the industry to which the product is primary. This kind of redefinition was used in the following cases.

1. Construction work performed by all industries was redefined to the construction industries.

2. Manufacturing in trade and service industries was redefined to the manufacturing industries.

3. Retail trade in service industries was redefined to the trade industries. Services in the trade industries were redefined to the service industries. Selected services were redefined within service industries.

4. Manufacturers' wholesale sales of purchased goods (resales) were redefined to the wholesale trade industries.

5. Rental activities of all industries were redefined to the real estate and rental industries.

The second kind of redefinition was used for all other secondary products. The inputs associated with the redefined product were estimated on the assumption that the input coefficients applicable to that product were the same as those of the industry from which the product was redefined.

Imports.—An imported commodity is treated in one of two ways in the I-O tables. Those that are comparable to commodities that are commercially produced in the United States are included in table 1 with the distribution of the output of the comparable domestically produced commodity. Their domestic port value is shown as a negative entry in the import column of final demand (column 95), so that the row total for the commodity equals the output of that commodity.

Other commodities—those that are not comparable to commodities commercially produced in the United

(Text continued on p. 78)

^{8.} See footnote 7.

^{9.} More information will be contained in the BEA Staff Paper Definitions and Conventions of the 1977 Input-Output Study. The availability of this paper will be announced in the SURVEY.

Table 1.—The Use of Commodities

[Millions of dollars

												[Mill	lions of	doll
For the distribution of output of a commodity, read the row for that commodity For the composition of inputs to an industry, read the column for that industry	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Iron and ferroalloy ores mining	Nonferrous metal ores mining	Coal mining	Crude petroleum and natural gas	Stone and clay mining and quarrying	Chemical and fertilizer mineral mining	New construction	Maintenance and repair construction	Ordnance and accessories	Food and kindred
Industry number	1	2	3	4	5	6	7	8	9	10	11	12	13	1
Livestock and livestock products	8,905	1,336		213										36
Other agricultural products Forestry and fishery products	13,769	2,498	$32 \\ 457$	162 16				2						15 1
Agricultural, forestry, and fishery services Iron and ferroalloy ores mining	1,900	2,520	457	60	174	(*)	4	(*)	(*)	2	225	433	(*)	
Nonferrous metal ores mining Coal mining	11	2			$\begin{array}{c} 10\\9\end{array}$	$\frac{286}{10}$	2,451		7	2			4	•••••
Crude petroleum and natural gas Stone and clay mining and quarrying	1	148		1	11	2		2,302	169	27	1,074	969		
Chemical and fertilizer mineral mining New construction		(*)								101			·····	
Maintenance and repair construction Ordnance and accessories	326	675	299 5	83	23	12	113	2,718	30	26	224 11	79 1	53 483	
Food and kindred products Tobacco manufactures	11,237		$6\tilde{5}$	56		1	(*)	5	1	1	- 8	$\frac{1}{2}$	(*)	3
Broad and narrow fabrics, yarn and thread mills		16 96	47	27		1	24	•••••	•••••	4	1 000		1	
Apparel						1	9	11	3	1	1,060 25	264 7	(*) 6	
Miscellaneous fabricated textile products Lumber and wood products, except containers	9	36 9	6	39	3	26	69	······	·····	2	44 16,086	36 2,245	16	1
Wood containers	2	166		10							89	29 87	11	
Other furniture and fixtures	83	38	(*)	5	(*)		6	3	29	5	$365 \\ 541$	87 283		
Paperboard containers and boxes. Printing and publishing	. 1	38 85 13	(*) (*) (*) 135	61 4	(*)	(*) 1	4	2 11	1 5	(*) 1	6	$\frac{200}{2}$	3 15 18 29 13 1 2	ł
Chemicals and selected chemical products	136	6,648	135	703	43	125	213	398	69	67	399	261	29	
Plastics and synthetic materials Drugs, cleaning and toilet preparations	113							3		(*)	62	30	13	
Paints and allied products Petroleum refining and related industries	505	2,670	2 115	264	49	68	338	9 259	154	55	$1,573 \\ 4,771$	1,251 2,447	40	
Rubber and miscellaneous plastics products Leather tanning and finishing	289	312	2	35	33	55	139	20	50	10	1,678	1,343	61	
Footwear and other leather products	. 24		(*)	22	(*)	(*)	(*)	$\frac{2}{7}$		(*)	$\frac{2}{152}$	1 113	(*) 1 11	
Stone and clay products. Primary iron and steel manufacturing		61		8	(*) 2 48	21 103	(*) 75 82 43	11 413	$\hat{3} \\ 36 \\ 14$	1 22 3	12.630	3.480	11	
Primary nonferrous metals manufacturing					40 3	103	43	410	14	22	4,569 2,782	1,081 770	284 230	
Metal containers Heating, plumbing, and structural metal products	. 6	8	4					37	16	7	13,229	4,452		
Screw machine products and stampings Other fabricated metal products	20 80	123	18		8 36	$\frac{20}{47}$	146 100	307	13 53 43	8 9	97 4,117	42 2,044	61 91	
Engines and turbines Farm and garden machinery	267	503	87	19 27 18	22	2 9	109	144	43	23			18	
Construction and mining machinery Materials handling machinery and equipment					68 12	$105 \\ 11$	752 51	231	186 29	48 5	304 628	35 245		
Metalworking machinery and equipment Special industry machinery and equipment			(*)	1	ĩ	3	3	25	5	(*)	35	12	57	
General industrial machinery and equipment. Miscellaneous machinery, except electrical	. 15	17 42	4 (*)	$\frac{1}{2}$	19 3	24 16	170 56	169 130	42 22	11 5	857 36	138 13	64 51	
Office, computing, and accounting machines		42		(*)	o									
Service industry machines Electric industrial equipment and apparatus	. 7	7		 	4	14	77	243	21	9	$2,135 \\ 1,199$	975 442	53	
Household appliances Electric lighting and wiring equipment	. 4	2	(*)	2 (*)	(*)	1	12	$1 \\ 14$	2	1	581 2,758	300 971	1	ļ
Radio, TV, and communication equipment Electronic components and accessories						(*)	1	4			586	188	686 153	
Miscellaneous electrical machinery and supplies Motor vehicles and equipment	. 72	293 43	(*)	21 30	(*) 38	5 5	6 4	9 5	4 41	$\frac{1}{3}$	158 83	49 36	3 17	Į
Aircraft and parts			(*)	45	1		••••••	•••••			2	•••••	309	
Scientific and controlling instruments Optical, ophthalmic, and photographic equipment				(*) 3	(*) (*) 7	2 (*) 3 51	6	22 3	1	(*) (*)	486 13	212 5	$5 \\ 24$	}
Miscellaneous manufacturing Transportation and warehousing	. 6	8 777	(*) (*) 43	4 188	7	3	(*) 7 128	$12 \\ 205$	1 8 56	(*) 3 28	390 4,377	129 1,507	6 122 47	
Communications, except radio and TV	. 139	179	40	100	43 2	4	120	65	8	20	704	348	47	
Radio and TV broadcasting Electric, gas, water, and sanitary services	. 410	1,092	17	104	214 77	184	283 474	750	248	267	603	230	119	
Wholesale and retail trade Finance and insurance	. 2,081 . 848	2,882 812	141 24	482 94	$\frac{77}{11}$	106 41	474 125	$373 \\ 321$	146 73	46 53 33	$17,064 \\ 1,843$	6,290 467	119 165 35 47	1
Real estate and rental Hotels; personal and repair services (exc. auto)	. 67	5,627 65	16	104 482 94 16 172 73 121 182 12 29 10	$ \begin{array}{c} 11 \\ 25 \\ 2 \\ $	41 57 5	125 327 17	$4,512 \\ 44$	112 30	33 7	451 253	176	47 18	
Business services Eating and drinking places	218	1,014 10	44 24 18	$172 \\ 73$	4	5 67 9	427 21 89	712	179	76	14 161	$1,030 \\ 49$	18 289 81 10	•
Automobile repair and services	. 154	153	18	121	23	52	89 1	$279 \\ 137 \\ 5$	20 29 1	14 22 1 3	983	185		
Health, educ., & social serv. and nonprofit org	. 374	22	6	102	3 3	5 8 2 13	$1\bar{6}$	5 28	5	3	1	(*) 2	4 7	
Federal Government enterprises State and local government enterprises	·		4 2		1	8	72	13 6	6 5	$\begin{array}{c} 7 \\ 2 \\ 2 \end{array}$	84 44 3	26 13	3	
Noncomparable imports Scrap, used, and secondhand goods	. (*)	6	1	(*)	$\frac{1}{3}$	13 12	5 9	112	$1 \\ 10$	$\frac{2}{15}$	3 26	$\frac{1}{3}$	3	Į
Government industry Rest of the world industry							}							[
Rossehold industry	.													[
Total intermediate inputs	44,264	31,028	1,702	3,666	1,085	1,626	7,011	15,089	1,987	1,038	116,824	35,895	3,832	
Value added Compensation of employees	. 8,028 3,149	5,275	$2,768 \\ 555 \\ 190$	$4,161 \\ 2,640$	975 603	$1,671 \\ 1,172$	9,642 5,584 374	$33,994 \\ 3,570$	2,793 1,430	$1,121 \\ 433 \\ 53$	58,410	$37,745 \\ 31,962$	5,048 3,689	2
Indirect business taxes Property-type income	1,123 3,757	1,361	190 2,023	$142 \\ 1,379$	96 276	147 353	374 3,684	2,169 28,255	$182 \\ 1,182$	53 635	1,844 13,617	947 4,835	112	
Total industry output	52,292		4,470	7,827	2,059	3,297	16,653	49,083	4,780		190,694	73,640	8,879	

See footnote at end of table.

by Industries, 1977

at producers' prices]

Tobacco manufactures	Broad and narrow fabrics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products, except containers	Wood containers	Household furniture	Other furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Printing and publishing	Chemicals and selected chemical products	Plastics and synthetic materials	Drugs, cleaning and toilet preparations	Paints and allied products	Petroleum refining and related industries	Rubber and miscellaneous plastics products	Leather tanning and finishing
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
2,446	101 1,869 1 31	67 35 (*) 3	26 236 (*) 5	1	3,750 51 6	(*)	(*)	1	20 1 3 202 110	(*)	(*)	116 27 135 119 516 259 1,465 248 995	(*) 1 101 309	31 59 11 (*) 12 16	2 18 (*) 6 10 45 34 2	(*) 12 60,050 210	(*) 25 53 15	1
18 4 2,628 2	165 (*) 2 8,899 265 5	34 7 1,428 498 123 13	130 (*) 9 8,578 60 8,638 532	25 5 2,420 750 99 279 11	208 (*) 3 76 12	4 (*) (*)	67 30 639 190 42 30 30 1,268 9 22	42 2 3 147 6 1	16 396 230 455 217 9	108 3 2	174 15 26 59 5 1	995 539 (*) 359 2 26 53	180 45 94 4 1 10	112 620 10 1 2	2 45 161 (*)	6 818 35 20 1	235 (*) 10 598 919 11 5	2 7 509 (*)
(*) 5 155 78 125 15 12 12	35 201 13 610 4,170 50 2 204	$ \begin{array}{r} 13 \\ 1 \\ 45 \\ 46 \\ 7 \\ 282 \\ 1,888 \\ 12 \\ 3 \\ 55 \\ 253 \\ \end{array} $	147 162 43 78 1,343 105 (*) 187 181 174	26 68 16 15 73	11,936 2 20 72 17 464 20 168	(*) 31 1 3	22 117 18 27 44	429 3 2 50 10 78 8 43 2	2,687 2 1 7,014 549 37 1,284 921 60 11	5,300 557 14 304 135 24	1 8,043 129 4,839 1,010 7	20 53 597 239 90 15,048 495 212 93 1,424 442	$\begin{array}{c} 1\\ 10\\ 313\\ 187\\ 10\\ 7,264\\ 856\\ 94\\ 41\\ 414\\ 414\\ 414\\ \end{array}$	230 643 102 2,662 92 2,119 43 291	12 49 33 1,606 424 16 78 125 21	23 197 292 12 2,950 25 382 4 5 5 4	5 102 5 426 483 33 2,004 7,465 12 22 501 1,876	(*) 11 11 11 117 40
41 258 (*) 1 1 1	204 266 7 82 7 1	55 253 24. 2 2 2 40.	4 6 1	17 213 79 1	168 425 227 9 43 194 29 14 121 310	5 (*) 1 3	111 60 509 37 54 43 245 71 63 581	56 31 258 2 10 20 709 102 100 220	1,108 897 1 1 73 1 44	24 152 28 (*) (*) 7 7 8 8 8 8 8 8 8 65	$\begin{array}{c} 14\\ 249\\ 322\\ 4\\ 2\\ 1\\ 14\\ 16\\ 33\\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	6 25 104 316 1,031 528 6	414 414 (*) 7 15 (*) 7 67 	291 996 1 428 13 (*) 4 591 7 128 207	125 21 (*) 5 67 26 48 338 338 10 25	4 7,754 146 4 26 171 45 344 207	$501 \\ 1,876 \\ 1 \\ 5 \\ 207 \\ 141 \\ 453 \\ 49 \\ 31 \\ 125 \\ 223 \\ 125 \\ 125 \\ 223 \\ 125 \\ 12$	17 (*) 83 4 (*)
63 (*) 3 3 2	4 21 12 154 35	4 90 12	25 2 9 72 5 26	1 3 6 6	784 7 19 87 32 23 81 23 23 23 23	2 1 1 2	9 9 8 1 16	220 21 12 22	(*) 18 131 21 45	52 53 22	9 220 1 21	144 15 547 187 39 66	28 7 7 35 18	9 54 13	20 1 (*) 5	6 144 17	$223 \\ 9 \\ 2 \\ 97 \\ 74 \\ 11 \\ 120 \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ $	1
(*) (*) (*) 1 (*)	(*) 3 (*) 7 1 1	(*) (*)	31 3 1 2 3	(*) (*)	23 15 1 11 47	(*)	1 1 (*) 1	18 2 1 1	3 (*) 2 4	(*) 1 (*) 1 2	1 4 4 9	66 24 (*) 3 1 (*) 1	1 (*) 1	(*) 2 1 3 2	(*) (*) (*) 3	7 (*) 1 102	4 (*) 32 1 13 7 28	(*)
1 (*) 1 88 8	5 3 6 276 126	(*) 3 1 192 16	5 5 591 345 350	1 1 16 96 26	8 6 14 896 53	(*) (*) (*) 14 2	6 2 12 229 57	1 1 134 31	14 8 5 1,383 88	3 3 559 34	4 458 130 1,308 602	$57 \\ 10 \\ 6 \\ 2,508 \\ 153 \\ 153 \\ 153 \\ 153 \\ 153 \\ 153 \\ 153 \\ 100 \\ $	$ \begin{array}{r} 10 \\ 2 \\ 2 \\ 544 \\ 30 \\ \hline 30 \end{array} $	23 7 17 603 109	1 (*) 7 227 16	20 5 3 3,292 173	28 8 19 1,067 110	(*) (*) (*) 31 2
$\begin{array}{c} 41\\ 137\\ 89\\ 30\\ 7\\ 634\\ 17\\ 23\\ 1\\ 5\\ 30\\ 3\\ 1\\ \end{array}$	$\begin{array}{c} 617\\ 1,202\\ 89\\ 70\\ 36\\ 777\\ 108\\ 44\\ (^{\circ})\\ 28\\ 39\\ 13\\ 12\\ 22\end{array}$	$147 \\ 337 \\ 32 \\ 27 \\ 13 \\ 164 \\ 24 \\ 13 \\ 164 \\ 13 \\ 1 \\ 17 \\ 5 \\ 127 \\ 56 \\ $	321 1,584 238 294 123 817 176 79 2 23 23 166 8 21	61 389 50 78 42 156 355 15 26 19 53	$512 \\ 1,781 \\ 242 \\ 109 \\ 52 \\ 467 \\ 105 \\ 140 \\ 1 \\ 43 \\ 27 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ $	6 31 9 3 2 14 4 2 2 1 (*)	$ \begin{array}{r} 103 \\ 577 \\ 147 \\ 85 \\ 36 \\ 392 \\ 61 \\ 55 \\ 11 \\ 22 \\ 26 \\ 2 \\ 16 \\ \end{array} $	$\begin{array}{c} 80\\ 279\\ 78\\ 61\\ 21\\ 278\\ 34\\ 34\\ 34\\ 3\\ 10\\ 22\\ 1\\ 1\\ 1\end{array}$	$1,575 \\ 2,273 \\ 153 \\ 157 \\ 124 \\ 836 \\ 99 \\ 100 \\ 3 \\ 22 \\ 42 \\ 34 \\ 266 \\ 59 \\ 100 \\ 1$	158 251 41 64 17 169 51 39 (*) 2 2 17 4 6	$\begin{array}{r} 389\\ 1,827\\ 467\\ 767\\ 336\\ 2,677\\ 1,021\\ 193\\ 12\\ 93\\ 848\\ 11\\ 22\\ \end{array}$	3,605 2,335 337 406 153 1,754 358 65 8 58 57 24 259 406	$\begin{array}{c} 627\\711\\68\\147\\45\\559\\91\\63\\1\\18\\12\\4\\24\end{array}$	$\begin{array}{c} 265\\ 1,153\\ 230\\ 464\\ 95\\ 4,134\\ 352\\ 48\\ 5\\ 102\\ 69\\ 12\\ 233\\ \end{array}$	47 271 41 35 24 203 49 16 1 1 7 16 1 7 46	$2,378 \\ 1,559 \\ 573 \\ 249 \\ 43 \\ 1,652 \\ 231 \\ 78 \\ 1 \\ 58 \\ 71 \\ 28 \\ 185 \\ 185 \\ 1 \\ 28 \\ 185 \\ 1 \\ 28 \\ 185 \\ 1 \\ 28 \\ 185 \\ 1 \\ 28 \\ 185 \\ 1 \\ 28 \\ 185 \\ 1 \\ 28 \\ 185 \\ 1 \\ 1 \\ 28 \\ 1 \\ 1 \\ 28 \\ 1 \\ 1 \\ 28 \\ 1 \\ 1 \\ 1 \\ 28 \\ 1 \\ 1 \\ 28 \\ 1 \\ 1 \\ 1 \\ 28 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	813 1,255 237 319 75 956 211 76 3 61 45 8 544	23 86 5 3 13 20 4 2 1 3 4 1
6,986 5,867 1,118 2,423 2,326 12,853	22 20,699 8,142 6,122 237 1,783 28,841	56 . 6,151 2,720 1,500 89 1,131 1,31	25,968 15,459 11,971	5,178 2,920 2,086 29 805	23,797 14,681 8,643 336	316 186 157 7 21 501	6,175 4,124 3,197 73 854	3,482 2,911 2,073 42 796	508 24,307 14,081 8,674	8,366 4,805 3,107 180	26,490 23,494 16,661 576	40 38,727 18,770 9,630 812	13,486 6,439 4,506	17,435 11,371 5,629 369	4,224 2,030 1,101	84,608 14,287 5,205 5,273	3 22,277 17,089 10,728 1,230 5,131 39,366	992 561 347 6

Table 1.—The Use of Commodities

	For the distribution of output of a commodity, read the row for that commodity For the composition of inputs to an industry, read the column for that industry	Footwear and other leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metals manufac- facturing	Metal containers	Heating, plumbing, and structural metal products	Screw machine products and stampings	Other fabricated metal products	Engines and turbines	Farm and garden machinery	Construction and mining machinery	Materials handling machinery and equipment	Metalworking machinery and
_	Industry number	34	35	36	37	38	39	40	41	42	43	44	45	46	47
	ivestock and livestock products ther agricultural products		·····									•••••			
F	orest and fishery products		(*)		1	(*)	(*)		(*)		(*)		 		
h	ron and ferroalloy ores mining				3,237	2,344								••••••	
C	Ionferrous metal ores mining	1	1	283	46 3,178 27 218	2,344	(*)	1	5	5	1	4	7	1	
S	rude petroleum and natural gas tone and clay mining and quarrying		166	1,443 88	218	8	••••••	3	•••••	6		·····	••••••	••••••••••••••••••••••••••••••••••••••	
	hemical and fertilizer mineral mining lew construction faintenance and repair construction		3		53	1.									
10	Ordnance and accessories		84	$ \begin{array}{c} 418 \\ 21 \\ 20 \end{array} $	$1,313 \\ 12$	232	63	361	195	201	75	43	98	28	
	ood and kindred products		1		8	4	(*)	4	2	4	1	1	2	1	
B	broad and narrow fabrics, yarn and thread mills A fiscellaneous textile goods and floor coverings	222		119 (*)	••••••	21 2				2					
A	Ipparel fiscellaneous fabricated textile products	17	4	6	16 1	$2 \\ 3 \\ 1$	1	3	3 28	11	4	1	1	1	
L	umber and wood products, except containers	37	80 57	149 (*)	89 11	79 17	12	54 24	28 48 20	$128 \\ 2$		32 1	$15 \\ 3$	6 2	
H	Iousehold furniture					L				²			•		
P	ther furniture and fixtures aper and allied products, except containers	46	11	333	2 12 54 27 1,699	21	7	26	66 119	7	19	3	3	2	
P	aperboard containers and boxes. rinting and publishing hemicals and selected chemical products	76 13 48 86 15	$422 \\ 20 \\ 413$	22	54 27	59 22	$30 \\ 123$	101 25 43	119 20 100	251 31 495	$ 19 \\ 34 \\ 8 \\ 1 $	26 9 3	4 14	26	
C P	hemicals and selected chemical products lastics and synthetic materials	48 86	413	589 211	1,699	818 472	$^{6}_{23}$ 7	[100 44	495 89 12		3	14	2	
ļ D	Prugs, cleaning and toilet preparations Paints and allied products	15	15	113 22 589 211 18 47 489 142	2 17 808 77	21 59 22 818 472 (*) 31 467 234	193	14 89 129 187	44 11 71	$12 \\ 162$	5	32		6	
{ P	etroleum refining and related industries Subber and miscellaneous plastics products	9 367	144 48	489	808 77	467	26 16	129 187	48 117	$ \begin{array}{c} 131 \\ 656 \end{array} $	5 60 39	32 24 336	23 41 318	27 80	
L	eather tanning and finishing	1,112 241	20	l I		(*)							(*)		
0	lass and glass products		713 109	22	4	111	(*)	213	16	34 91	(*)		(*)	15	
F	tone and clay products rimary iron and steel manufacturing	32	109	3,279	$50\overline{4} \\ 13,116 \\ 1,270$	$125 \\ 285 \\ 16,056 \\ 16,056 \\ 16,056 \\ 16,056 \\ 100 $	(*) 5 2,557	53 5,700 2,549	16 23 5,318	3,791	73 1,373 439	25 1,432	$109 \\ 2,880$	15 634 93	1,
N	Primary nonferrous metals manufacturing Metal containers	(*)	5	(*) 22 3,279 182 183 3 8 13 307	1,270	$ \begin{array}{c} 16,056 \\ 2 \\ \end{array} $	$1,201 \\ 355$		814 14	1,709 10		101	114		
HS	Heating, plumbing, and structural metal products crew machine products and stampings	18 55	20	8	214	93	6	544 763 851	672	6 450	150 279 147	207	$328 \\ 111$	70 56 75 75	
L C	Other fabricated metal products		6	307	214 523 20	274	89	851	343	1,119 39	$147 \\ 1,253$	$\frac{116}{773}$	190 596	75 75	1
F	arm and garden machinery		•••••									837	1,376	7	
N	Aaterials handling machinery and equipment Aetalworking machinery and equipment	(*) 7		$ \begin{array}{r} 151 \\ 2 \\ 23 \\ 3 \\ 15 \\ 52 \\ 52 \end{array} $	19 410 59 630 343	14 383	37	146	251	206	162		126	224 42	
1.5	inecial industry machinery and equipment	4	45 56 3 39	13	59	12			1	200 8 30					
{ N	eneral industrial machinery and equipment discellaneous machinery, except electrical	12	39	15 52	630 343	261 145	$^{1}_{24}$	156 131	$1\hat{6}$ 632	175	239 326	491 220	1,113 108	313 87	
18	Office, computing, and accounting machines ervice industry machines			6			1	57							
E F	Slectric industrial equipment and apparatus		13 6		433	127			36 2	113	114	66	242	183	
	Electric lighting and wiring equipment	(*)	7	22	9 (*)	8 (*)	(*) (*)	5 1	14 (*)	$^{2}_{1}$	1	12	1 (*)	(*)	}
l E	Electronic components and accessories Aiscellaneous electrical machinery and supplies		1	1	3	1	(*)	1		6 4	141	78		7	
I N	Motor vehicles and equipment.		ī	61	3 2	1 3	ì	16	43	ź	64	242	235	i	
10	ther transportation equipment cientific and controlling instruments	9	15		4 76	19		47		a		1		1	
10	Optical, ophthalmic, and photographic equipment	(*)	4	11 31	12	3	2	6	5	9 19	5	$\frac{1}{3}$	59	2	
11	fiscellaneous manufacturing	(*) 71 76 31	285 28	1,842 89	12 13 2,704 70	1,332	214	468 115	$\begin{array}{r}4\\343\\117\end{array}$	12 411	$128 \\ 27$	$157 \\ 22$	218 81	50 18	
F	Communications, except radio and TV						9	7		128					ļ
	Electric, gas, water, and sanitary services Wholesale and retail trade	39 194	593 321	1,172	3,046 3,350	$1,642 \\ 2,089$	116 327	256 1,185	264 707	$\begin{array}{r} 431 \\ 1.048 \end{array}$	90 410	107 808	$161 \\ 1,050$	37 273	
łF	Finance and insurance	194 64 42 29	321 53 103 20 214 42 37	198	3,046 3,350 323 194	2,089 238 134	$116 \\ 327 \\ 53 \\ 49$	169	100 93	$1,048 \\ 223 \\ 155 \\ 15$	40	808 36 50	1,050 75 52 22 334 65	273 21 29	
F	lotels; personal and repair services (exc. auto).	29	20	188 52 639	114	64	23	168 133 579	41		14	11 134	22	29 8 98	.
E	Cating and drinking places	42	42	639 148 106	947 135	584 103 76	109 40	149	439 65 58	705 133	173 30 28	33	65	98 24 12	
A	Automobile repair and services		37	106	44	76	15 1	64 7	1	64 1	1	9	10	12	
F	Health, educ., & social serv. and noprofit org Federal Government enterprises	47	6 17	19 36	9 66	19 31	6 3	18 37	$32 \\ 19$	20 39	$3 \\ 10$	3 18	3 19	2 9	
S	State and local government enterprises Noncomparable imports		3 42	7 67	16 153	8 125	$^{2}_{2}$	5	5 5	11 18	10 2 6	18 2 14	$\frac{3}{31}$	1	
18	Crap, used, and secondhand goods		43		1,923	1,559	ļ	42		28	26	13	7		
F	Rest of the world industry	.)	 	ļ							
I	lousehold industry			11.000											<u>.</u>
ך ז	otal intermediate inputs /alue added	3,554 2,549	4,322 4,769	14,263 11,259	41,680 23,555	30,756 10,623	5,758 3,031	10,891	11,392 8,597	13,498 12,602	$6,031 \\ 4,318$	6,610 4,954	10,224 7,500	2,637 2,170	5,
	Compensation of employees Indirect business taxes	2,008 25	3,519 140	6,987 465	19,099 1,041	6,853 491	1,790 48			7,946 233	2,825 108	3,064 84	5,116 221	1,449 46	5,
1	Property-type income	516 6,103	1,111 9,091	3,808	3,414 65,234	3,280 41,379	1,193 8,789	3,157	1,936	4,423 26,101	1,384 10,349	1,806 11,564	2,162	675 4,807	2

See footnote at end of table.

by Industries, 1977—Continued

at producers' prices]

	ers' prices																		
Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery, except electrical	Office, computing, and accounting machines	Service industry machines	Ellectric industrial equipment and apparatus	Household appliances	Electric lighting and wiring equipment	Radio, TV, and communication equipment	Electronic components and accessories	Miscellaneous electrical machinery and supplies	Motor vehicles and equipment	Aircraft and parts	Other transportation equipment	Scientific and controlling instruments	Optical, ophthalmic, and photographic equipment	Miscellaneous manufacturing	Transportation and warehousing	Communications, except radio and TV	Commodity number
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	
(*)	(*)	(*)	(*)	(*)	1		(•)	1	(*)	(*) 6	1	(*)	(*)	(*)	(*)	1 19 6 (*)	1 4 (*) 3	1	$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \end{array} $
(*)	2	1	(*)	3	3	5	2	2	1	4 3	43	3	3	1 1	5	2			678
				10							2			(*)		26			9 10
42	80 2	32 2	43	45 1	113 3	62 1	39 1	79 (*)	89 2	35 1	270 (*) 3	116 1 3	59 (*) 3	47 40	44	106 29	4,621 1 73	1,927 (*)	11 12 13
						36	13			۲ 	28 244	45	a	40 125 97	7		2		14
$\frac{1}{24}$	77 5 1 33 7	17 1 1 3 1	1	2 37 20	3 2 24 10	1 57 16	1 19	13 17 13 324	11 21	3 1 1	15 2,298 134 6	5 50 12 4 8 7 3	256 16 85 842 (*) 70	97 18 25 3	1	$325 \\ 54 \\ 16 \\ 63 \\ 430 \\ 7$	62 93 74 17 (*)	36	$ \begin{array}{c} 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \end{array} $
3 10 13 118	38 58 18 12 9	3 51 12 3	73 61 32 2 47	13 87 13 56 62	$ \begin{array}{r} 114 \\ 81 \\ 28 \\ 118 \\ 59 \end{array} $	6 36 176 12 53 200	2 149 10 73 120	42 72 163 43 165	41 64 22 228 70	3 57 8 269 67	231 106 98 42 215 187 7	8 7 3 41 17 16	(*) 70 77 25 13 22 57 98 1	117 105 47 94 112	271 74 13 759 93	$\begin{array}{c} 328\\ 359\\ 47\\ 344\\ 523\\ (^{\bullet})\\ 110\\ 146\\ 582\\ 38\\ 555\\ 12\\ 70\\ 465\\ 993\\ \end{array}$	75 37 263 117	35 9 140 8	$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\1\\1\\2\\1\\3\\4\\1\\5\\6\\7\\8\\9\\0\\1\\1\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2\\2$
49 135	5 132 167	1 3 33 14	33 61 584	34 65 239	46 115 261	90 21 537	24 32 225	20 55 990	(*) 64 612	12 36 217	7 413 256 5,040	34 139 136	$137 \\ 128 \\ 297$	1 13 83 462	1 55 370	(*) 110 146 582 38	4 23 8,795 968	38 29 119 67	29 30 31 32 33
13 36 765 250	(*) 103 2,036 531	(*) (*) 110 623 267	(*) 2 23 124 240	(*) 9 64 938 864	9 147 1,161 1,191	64 70 894 475	290 33 511 549	$1 \\ 26 \\ 26 \\ 152 \\ 738$	(*) 262 138 125 719	5 19 228 1,029	5 1,043 411 9,471 2,077	$1\\4\\42\\718\\1,022$	103 213 1,993 473	8 60 39 240 485 5 29 308 239	(*) 99 26 43 302	55 12 70 465 993	4 21 53 290 96	1 2 12 (*) 62	34 35 36 37 38
109 66 160 90	128 206 187 97	52 122 25	136 276 195	98 310 252 39	50 275 185 66	244 270	242 174	160 263 361	25 255 362	12 122 218	6 8,130 2,736 991	42 272 217	888 204 334 655	29 308 239	5 84 110	3 109 255 4	65 421 185	72 24 98	40 41 42 43 44
4 113	230	135	56	108	121		64	79	67		$15 \\ 17 \\ 316$	275	63 2 98 3	69	13	29	5 60		45 46 47
262 301 237	975 293	103 669	18 55	240 167	72 77 29		3 26	14 101	1 49	61 32	680 981	176 299 9	3 492 248	17 74 49	24 22	29 9 7 50	267 124	40 11	48 49 50
5 337	599	43	2,554 470	603 886	29 1,361	194 560 132	147	38 5 192	48	92	(*) 1,164 214	9 50	(*) 97 222	49 	34	24 68	4		51 52 53
1 (*) 17 6	1 1 33 (*) 1	1 (*) 50 15 22	$\begin{array}{r} 43\\ 2\\ 1,450\\ 20\\ 2\end{array}$	60 (*) (*) 1	89 (*) 343 (*) 1 25	132 109 (*) 1	162 (*) 113 161 1	$178 \\ 1,653 \\ 4,742 \\ 14 \\ 26$	$31 \\ 2 \\ 2,123 \\ 2 \\ 1$	40 (*) 292 376 2	469 732 206 1,783 31,780 15	$2 \\ 1,197 \\ 486 \\ 63 \\ 1 \\ 4,537$	492 248 (*) 97 222 206 133 146 5 47 587 28	29 1 430 25 2	16 (*) 544 10 1	21 9 121 9 2	12 180 16 39 46 29 59 331, 657	(*) 9 1,252 266 9 146	54 55 56 57 58 59 60 61
2 5 2 106 54	25 7 3 197 106	22 2 5 3 130 40	$11\\10\\12\\203\\87$	167 5 24 177 47	25 19 14 12 260 72	279 2 51 141 25	2 6 2 138 25	33 66 13 303 147	5 14 6 241 73	3 5 1 197 21	$13 \\ 18 \\ 195 \\ 16 \\ 30 \\ 1,155 \\ 65 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 1$	4,537 213 131 9 438 142	845 50 9 27 302 75	513 10 49 168 83	19 479 3 199 71	8 5 12 1,107 472 161	1,084 43 24 115 16,634 994	4 7 11 49 254 946	62 63 64 65 66
82 448 69 51 19 194 52 13	$ 184 \\ 717 \\ 98 \\ 97 \\ 36 \\ 402 \\ 141 \\ 39 \\ 5 \\ 5 5 7 $	$110\\185\\61\\84\\28\\457\\63\\43\\1$	106 778 163 146 173 540 161 24 (*) 9	115 738 46 49 33 261 58 9 (*)	210 936 176 146 75 369 115 25 (*) 7 28 4	137 560 63 33 30 430 46 12	96 494 91 46 45 219 57 12 1	199 1,296 119 891 233 979 225 31 5	$\begin{array}{c} 211\\ 767\\ 140\\ 104\\ 106\\ 443\\ 158\\ 47\\ 7\\ 20\\ 28\\ 5\\ 5\\ 22 \end{array}$	111 409 99 73 50 187 52 19 13 3	775 4,840 382 155 1,786 1,786 144 734 15 90	$\begin{array}{c} 265\\ 554\\ 325\\ 133\\ 314\\ 896\\ 504\\ 49\\ 11\\ 355\\ 83\\ 5\\ 5\end{array}$	$174 \\ 1,102 \\ 97 \\ 264 \\ 32 \\ 363 \\ 68 \\ 36 \\ 36 \\ 19 \\ 7 \\ 23 \\ 2 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ $	125 598 72 108 31 431 117 118 18	86 407 74 77 45 494 119 30 9	$188 \\ 1,208 \\ 178 \\ 287 \\ 67 \\ 906 \\ 140 \\ 53 \\ 10$	1,043 2,587 1,766 1,349 282 3,931 1,018 2,343 32	451 233 456 853 112 1,338 169 105 2	67 68 69 70 71 72 73 74 75 77 78 80 81 83 83 84 84 84 84 84 84 84 85 89 90 7
$\begin{array}{c} 4\\ 22\\ 1\\ 11\\ 20\\ \end{array}$	16 32 4 12 8	14 13 2 1 1 11	9 24 5 124	10 6 3 1	7 28 4 44	9 34 2 12 1	5 14 2 4 14	5 32 104 5 107	20 28 5 22	3 6 3 11 40	90 132 22 309 214	35 83 5 30	7 23 2 3 (*)	18 30 34 4 56	45 17 3 14	54 75 6 527	192 147 108 2,877 48	54 170 37 900	77 78 79 80 81 82 83
4,323 4,392 3,144 94 1,153 8,714	8,196 8,000 5,444 134 2,422 16,196	3,663 4,744 3,856 117 771 8,407	9,181 6,611 4,940 111 1,560 15,793	7,068 4,888 3,132 94 1,662 11,956	8,693 9,033 6,507 138 2,387 17,725	6,316 4,226 2,440 67 1,719 10,542	4,459 3,830 2,311 50 1,470 8,289	15,556 13,322 11,688 256 1,379 28,878	7,831 6,881 5,584 156 1,142 14,711	4,620 4,254 2,993 89 1,172 8,874	84,028 33,657 23,069 1,649 8,939 117,685	14,195 12,181 10,580 192 1,410 26,376	12,932 8,708 7,411 142 1,156 21,640	6,284 7,005 4,905 103 1,997 13,288	5,220 6,561 3,472 120 2,970 11,782	11,338 8,407 5,417 211 2,780 19,745	54,891 71,319 49,595 4,338 17,386 126,210	10,559 42,308 18,364 5,571 18,373 52,867	84 85 I VA 88 89 90 T

Table 1.--The Use of Commodities

[Millions of dollars at

For the distribution of output of a commodity, read the row for that commodity For the composition of inputs to an industry, read the column for that industry	Radio and TV broad- casting	Electric, gas, water, and sanitary services	Wholesale and retail trade	Finance and insurance	Real estate and rental	Hotels; personal and repair services (exc. auto)	Business services	Eating and drinking places	Automobile repair and services	Amusements	Health, educ., and social serv. and nonprofit org.	Federal Government enterprises	State and local govern-
Industry number	67	68	69	70	71	72	73	74	75	76	77	78	7
Livestock and livestock products						3	8	444		35	85	7	
Other agricultural products Forestry and fishery products Agricultural, forestry, and fishery services Iron and ferroalloy ores mining Nonferrous metal ores mining	. (*)	7	20 2 613	3	15 1,463	23 39	9 5	692 741 1	(*)	662 64	85 87 13 81	124 17 1	
Coal mining Crude petroleum and natural gas		6,065 13,148			5						16 1	578	
Stone and clay mining and quarrying. Chemical and fertilizer mineral mining			••••••						••••••	••••••			
Naintenance and repair construction Ordnance and accessories Food and kindred products Tobacco manufactures	. 30 . 4	3,712 (*) 5	2,560 4 327	350 1 7	19,891 (*) 1	599 (*) 97	462 78 66	534 (*) 24,794	347 2	666 295	3,540 2 2,218	211 (*) 490	4,
Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings			$1 \\ 58$			148 20	2	16	11	31 19 79 31	25 13	5 2 1 53	
Apparel. Miscellaneous fabricated textile products. Lumber and wood products, except containers. Wood containers		4 59	77 32 414 19	80	2 1 3	382 391 68	29 7	48 14	11 36 (*)	64	25 13 335 324 28	1 53	
Household furniture	4	43	2,230 690	387	53	147	400	340	21	2 1 17	906	45	
Paperboard containers and boxes Printing and publishing Chemicals and selected chemical products Plastics and synthetic materials	. (*) . 14 . 7	4 64 320	1,547 26	1,642	301 179	46 224 134	28 1,555 224	610 92 48	1 12 4	(*) 62 30	60 3,266 2,166	$15 \\ 168 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ $	
Drugs, cleaning and toilet preparations Paints and allied products Petroleum refining and related industries Rubber and miscellaneous plastics products		1 8,099	136 5,055	6 431	4 333 232	532 1 447	164 42 928 296	113 225 675	310 698 97	4 1 160	$3,183 \\ 10 \\ 1,482$	17 1 198	
Leather tanning and finishing Footwear and other leather products	(*)	60 1	1,058 87	54 8	232 2 1	332 31	296 4 20	1	97 (*) 181	64 	1,369 20	21 (*) 9 1	
Glass and glass products		1 8	104 66 9	8 7 2 1	$1 \\ 12$	94 149 2 5	20 15 3	136 101	181 381	(*) 2	$20 \\ 152 \\ 32 \\ 7$	1 1 1	
Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and structural metal products		19 4	115 19			5	30	10		3		6	
Screw machine products and stampings Other fabricated metal products. Engines and turbines		46 87	276	11	4	21 98	53 152	283 53	1,479 1,184 33	8 13	$9\frac{3}{103}$	2 36 8 4	
Farm and garden machinery		617	9		39		68 215 245				(*)	4 1 1	(
Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment	(*)	13 13	104 41 15				122 105 71	67	6	(*)		$1 \\ 2$	
Special industry machinery and equipment. General industrial machinery and equipment. Miscellaneous machinery, except electrical			2 204	4 70	3 3 3	_18	230 56 460	150	3 313	3		8 8	
Office, computing, and accounting machines. Service industry machines. Electric industrial equipment and apparatus.		(*) 105	29 289 3			595 34 14	460 25 98 41	149	335 105	13	9 13 11	8 8 4 8 (*)	
Household appliances	. 1	(*) 84	35 44 77	40 14 10	26 31	308 17	41 71 99	(*) 36	100	(*) 15	20 115 56	6 11 6	
Electronic components and accessories Miscellaneous electrical machinery and supplies	175	3 5 22	10 101	19 49 12 21	(*) 35	33 525 8	467 58	8	53 236	1	99 322 44	1 5 25	
Motor vehicles and equipment Aircraft and parts. Other transportation equipment.	. 1	5	337	21 18	13	11 2	78 155	12	5,044 	20 78	44 5	25 14	
Scientific and controlling instruments Optical, ophthalmic, and photographic equipment Miscellaneous manufacturing	. 110	72	60 172 573	8 100 240	2 36 49	21 262 690	155 21 773 240	(*) 3 174	7 1 16	(*) 103	1,455 585	1 12 39	
Transportation and warehousing Communications, except radio and TV	80 62	2,052 326	6,806 5,584	950 2,525	208 510	251 632	1,826 2,619	1,327 449	1,010 455	90 379 243	476 2,098 1,868	1,360 119	
Radio and TV broadcasting Electric, gas, water, and sanitary services	67	21,426	7,452 4,973	1,272 421	2,040 673	1,732 934	$118 \\ 908 \\ 1.253$	1,793 5,006	473 4,516	503 266	3,391 2,447	217 253	3
Finance and insurance Real estate and rental	72 351	773	5,603 14,918	25,270 2,938	6,970 17,816	705 1,781	1,260 3,750	982 2,563	282 745	374 1,125	1,467 9,443	51 351 59	
Hotels: personal and repair services (exc. auto) Business services Eating and drinking places	289 131	156 968 107	1,557 29,408 6,547	643 8,706 1,219	71 5,242 732	674 2,206 317	1,166 9,514 1,837	464 3,248 158	95 1,178 100	242 1,917 280	1,052 7,758 1,790	525 85	
Automobile repair and services		142 6 102	5,507 779 379	383 3 505	151 (*) 87	338 18 285	$1,138 \\ 132 \\ 522$	125 807 156	173	316 3,328 139	1,007 331 2,932	121 27 10	
Federal Government enterprises	8 11 32	102 314 18 3	379 1,724 207 371	2,200 27 255	553	285 143 49 11 19	522 1,010 29 272	156 117 61 43	(*) 24 23 29 206	48 10 56	2,932 903 100 30	289 11 508	
Scrap, used, and secondhand goods Government industry						19			200				
Household industry Inventory valuation adjustment								47 971	00.905		50 449	6 100	10
Total intermediate inputs	2,745	60,801 44,794 11,999	162.000	52.675	57,928 218,010 6,677	16,660 29,762 16,709	35,558 99,028 53,217	47,871 38,156 26,068	20,325 22,778 10,818	11,882 12,674 7,157	59,443 102,792 82,877	6,160 13,456 14,129	
Indirect business taxes Property-type income	174 2,057	4,875	53,161 59,806	5,505 20,133	47,706 163,627	1,717	1,300 44,512	3,349 8,739	1,126 10,834	1,370 4,147	551 19,364	-673	2
Total industry output	. 8,470	105,596	384,429	129,222	275,938	46,422	134,586	86,027	43,103	24,556	162,235	19,616	22

*Less than \$500,000.

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by Industries, 1977—Continued

producers' prices]

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industry	Rest of the world industry	Household industry	Inventory valuation adjustment	Total intermediate use	Personal consumption expenditures	Gross private fixed investment	Change in business inventories	Exports	Imports	Total	National defense	Nondefense	Total	Education	Other	Total final demand	Total commodity output
82	83	84	85		91	92	93	94	95		96	97		98	99		
				$\begin{array}{c} 47,384\\ 38,279\\ 6,346\\ 8,095\\ 3,548\\ 3,257\\ 14,121\\ 14,121\\ 14,28\\ 77,525\\ 2,628\\ 24,338\\ 55,262\\ 24,338\\ 55,262\\ 38,243\\ 38,243\\ 55,542\\ 38,243\\ 38,243\\ 55,542\\ 38,243\\ 38,243\\ 55,541\\ 38,243\\ 38,212\\ 32,214\\ 32,214\\ 32,214\\ 32,214\\ 33,212\\ 33,22$	788 353 215 20 2 630 113,507 822 2,045 33,194 4,068 548 548 5,337 10,237 1,149 16,921 168 38,595 6,444 7,610 829 1,123 11 48 374 7,862 2,038 2,071 105 281 922 40 420 432 91 7,014 1,318	374 374 116 150,890 22 892 11 725 4,325 541 725 541 541 725 4,325 541 75 50 9 3,055 55 106 6 29 3,055 1,661 1,662 2,284 7,507 5,209 2,984 7,507 5,209 7,432 2,284 1,667 4,585 4,1607 4,585 4,507 1,997 1,662 2,284 1,667 3,385 1,997 1,0,747 2,298 4,570 2,298 4,570 2,298 2,298 4,570 2,298 2,298 4,570 2,298 2,298 4,570 2,298 2,297 2,2	-1,183 1,632 34 -437 57 161 6900 79 39 115 1,672 1,082 1,875 1,082 1,877 2,472 2,222 1,329 8 3,600 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,599 6000 1,083 2,046 1,3666 1,3666 1,3666 1,3666 1,3666 1,3666 1,3666 1,3666 1,3666 1,367 1,274	$\begin{array}{c} 199\\ 199\\ 12,553\\ 214\\ 24\\ 326\\ 203\\ 2,096\\ 202\\ 181\\ 228\\ 1228\\ $	$\begin{array}{c} -360\\ -360\\ -1,047\\ -1,302\\ -3\\ -3\\ -1,173\\ -728\\ -86\\ -35,062\\ -231\\ -286\\ -231\\ -286\\ -231\\ -286\\ -231\\ -286\\ -231\\ -286\\ -231\\ -35,858\\ -212\\ -3,585\\ -2402\\ -3,585\\ -255\\ -3,585\\ -402\\ -255\\ -3,585\\ -255\\ -3,587\\ -402\\ -3,755\\ -2493\\ -4495\\ -1,338\\ -4495\\ -2,527\\ -175\\ -2493\\ -4495\\ -1,338\\ -495\\ -2,527\\ -175\\ -2,493\\ -468\\ -1,257\\ -2,493\\ -468\\ -1,257\\ -2,493\\ -468\\ -1,257\\ -2,2493\\ -468\\ -1,257\\ -2,2493\\ -468\\ -1,257\\ -2,2493\\ -468\\ -1,257\\ -2,257\\ -175\\ -2,2493\\ -468\\ -1,257\\ -2,257\\ -175\\ -2,2493\\ -468\\ -1,257\\ -2,257\\ -2,2493\\ -468\\ -2,257\\ -2,2493\\ -468\\ -2,257\\ -2,2493\\ -488\\ -994\\ -2,576\\ -2,257\\ -468\\ -1,225\\ -240\\ -1,500\\ -1,228\\ -763\\ -332\\ -760\\ -5,276\\ -5,24\\ -5,276\\ -5,276\\ -5,24\\ -5,276\\ -5,276\\ -5,24\\ -5,276\\ -5,276\\ -5,24\\ -5,276\\ -5,276\\ -5,276\\ -5,26\\ -5,26\\ -5,276\\ -5,26\\ -5,276\\ -5,26\\ $	$\begin{array}{c} & 6 \\ 3.496 \\ -828 \\ 61 \\ -49 \\ -16 \\ 311 \\ 100 \\ -2 \\ 337 \\ 450 \\ 35,978 \\ 604 \\ -37 \\ -37 \\ -355 \\ -16 \\ -344 \\ -37 \\ -37 \\ -37 \\ -37 \\ -37 \\ -330 \\ -37 $	$\begin{array}{c} 1\\ & & 4\\ -49\\ -49\\ -16\\ 222\\ 22\\ 1\\ -2\\ 34\\ 19\\ 222\\ 23\\ 26\\ 344\\ 54\\ 198\\ 39\\ 22\\ 26\\ 138\\ 39\\ 22\\ 26\\ 138\\ 39\\ 22\\ 26\\ 138\\ 39\\ 22\\ 26\\ 138\\ 39\\ 22\\ 26\\ 138\\ 39\\ 22\\ 22\\ 119\\ 34\\ 198\\ 39\\ 223\\ 226\\ 138\\ 39\\ 223\\ 226\\ 138\\ 39\\ 223\\ 226\\ 138\\ 34\\ 198\\ 39\\ 223\\ 226\\ 138\\ 344\\ 512\\ 228\\ 88\\ 1071\\ 17\\ 7\\ 7\\ 7\\ 22\\ 288\\ 81\\ 634\\ 722\\ 288\\ 87\\ 252\\ 228\\ 88\\ 477\\ 54\\ 552\\ 228\\ 88\\ 477\\ 554\\ 552\\ 228\\ 88\\ 477\\ 554\\ 552\\ 228\\ 88\\ 477\\ 554\\ 552\\ 228\\ 88\\ 477\\ 554\\ 552\\ 228\\ 88\\ 477\\ 554\\ 552\\ 228\\ 88\\ 477\\ 554\\ 552\\ 228\\ 88\\ 477\\ 554\\ 552\\ 228\\ 88\\ 477\\ 554\\ 552\\ 228\\ 88\\ 477\\ 554\\ 552\\ 228\\ 88\\ 477\\ 554\\ 455\\ 228\\ 88\\ 477\\ 554\\ 455\\ 228\\ 88\\ 477\\ 54\\ 455\\ 228\\ 88\\ 477\\ 54\\ 455\\ 228\\ 88\\ 477\\ 54\\ 455\\ 228\\ 88\\ 477\\ 54\\ 455\\ 228\\ 88\\ 477\\ 54\\ 455\\ 228\\ 88\\ 477\\ 54\\ 455\\ 228\\ 88\\ 477\\ 54\\ 438\\ 340\\ 4221\\ 129\\ 48\\ 132\\ 276\\ 552\\ 228\\ 88\\ 477\\ 54\\ 438\\ 340\\ 4221\\ 129\\ 48\\ 132\\ 276\\ 552\\ 228\\ 88\\ 477\\ 54\\ 438\\ 48\\ 38\\ 406\\ -24\\ 42213\\ -14\\ -14\\ 42213\\ -14\\ -14\\ -14\\ -14\\ -14\\ -14\\ -14\\ -14$	$\begin{array}{c} 5\\ 3,496\\ -828\\ -87\\ -828\\ -57\\ (^{)}\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 3\\ 5,089\\ 1,086\\ 821\\ 443\\ -20\\ 20\\ 45\\ 5\\ 204\\ 43\\ -169\\ 966\\ 17\\ -9\\ 966\\ 17\\ -9\\ 9\\ 966\\ 11\\ 7\\ -9\\ 9\\ 966\\ 11\\ 7\\ -9\\ 9\\ 966\\ 11\\ 7\\ -9\\ 9\\ 966\\ 11\\ 7\\ -9\\ 9\\ 966\\ 200\\ 25\\ 200\\ 25\\ 22\\ 200\\ 25\\ 22\\ 200\\ 25\\ 25\\ 25\\ 25\\ 25\\ 25\\ 25\\ 25\\ 25\\ 25$	$\begin{array}{c} 48\\ 3667\\ -81\\ 392\\ -39\\ -81\\ 392\\ -39\\ -39\\ -39\\ -39\\ -39\\ -39\\ -39\\ -39$	24 191 4 191 4 165 	24 177 177 -85 227 60 8 38 32 17 26,769 8,388 32 32 17 281 152 52 1,507 576 (*) 1,331 166 253 654 453 28 195 51 166 253 576 (*) 1,331 17 2,160 453 28 195 51 16 60 453 28 195 51 16 61 77 17 2,160 453 28 195 51 16 60 453 28 195 55 11 10 20 20 10 17 17 2,160 453 28 195 55 11 10 20 20 10 17 17 2,160 453 20 20 10 17 17 2,160 453 20 20 10 17 17 17 2,160 453 20 10 17 17 17 2,160 453 20 10 17 17 17 2,160 453 20 10 17 17 17 2,160 453 20 10 17 17 17 2,160 453 20 10 17 17 17 2,160 453 20 10 17 17 17 17 2,160 16 17 17 17 17 2,160 16 16 17 17 17 17 17 17 17 2,160 16 16 17 17 17 17 17 17 17 17 2,160 453 20 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	$\begin{array}{c c} -1,175\\ 828\\ -828\\ -1,335\\ -100\\ 2,525\\ -3,955\\ -100\\ -100\\ -2,56\\ -100\\ -2,56\\ -100\\ -2,152\\ -3,955\\ -100\\ -10,195\\ -2,152\\ $	$\begin{array}{r} 48,603\\ 63,176\\ 63,176\\ 8,923\\ 2,213\\ 3,147\\ 16,644\\ 43,523\\ 4,833\\ 1,425\\ 10,0,694\\ 73,640\\ 73,640\\ 73,640\\ 73,640\\ 73,640\\ 73,640\\ 73,640\\ 73,640\\ 73,640\\ 73,640\\ 73,640\\ 73,640\\ 73,640\\ 73,640\\ 73,640\\ 74,930\\ 74$
203,934 203,934 	23,464 - 40	5,930 5,930	-18,582		•												1,976,563 1,165,555 165,958
03,934	23,504 23,464	5,930	-18,582 -18,582		1,246,481	314,926	21,700	182,043	-184,154	143,363	92,825	50,538	252,204	105,492	146,712	1,976,563	645,051

Table 2.—The Make of Commodities

[Millions of dollars

	estock	l	ery	stry, vices	oy ores	ores	- - -	and	mining g	and fertilizer I mining		repair	cessories	_	
For the distribution of industries producing a commodity, read the column for that commodity	nd liv	ultura	d fish	l, fore ry ser	rroalle	metal		leum as	lay m rying	nining	uction	e and ion	nd ac	indred	ļ
For the distribution of commodities produced by an industry, read the row for that industry	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Iron and ferroalloy ores mining	Nonferrous metal mining	Coal mining	Crude petroleum and natural gas	Stone and clay m and quarrying	Chemical a mineral n	New construction	Maintenance and repair construction	Ordnance and accessories	Food and kindred products	
Commodity number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	_
Livestock and livestock products		63,176	72 628	398 664										3,184	
Other agricultural products. Forestry and fishery products. Agricultural, forestry, and fishery services			4,470	7,827						••••••	••••••	••••••		433	
Iron and ferroalloy ores mining					2,044 165	16 3,120		(*)	(*) 6	(*)	•••••			••••••	
Nonferrous metal ores mining						5	16,636	43,385	12 (*)				•••••	•••••	
Crude petroleum and natural gas Stone and clay mining and quarrying					5	4 1	2 4	40,000	4,607		••••••			(*)	
Chemical and fertilizer mineral mining New construction						1			7	1,284	190,694			•••••	
Maintenance and repair construction Ordnance and accessories						••••••			•••••			73,640	7,974		
Food and kindred products Tobacco manufactures			······		······				••••••		L			188,562	12
Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings															
Apparel														4	
White Harlows have react textile products. Lumber and wood products, except containers														(*)	
Household furniture Other furniture and fixtures								••••••					e		
Paper and allied products, except containers					••••••		•••••	••••••						(*)	
Paperboard containers and boxes Printing and publishing						••••••									
Chemicals and selected chemical products Plastics and synthetic materials					••••••	·····		50		140	·····		6	$307 \\ 12$	
Drugs, cleaning and toilet preparations Paints and allied products			•••••			· · · · · · · · · · · · · · · · · · ·			1				·····	294 2	
Petroleum refining and related industries Rubber and miscellaneous plastics products				•••••					44 2			•••••			
Leather tanning and finishing Footwear and other leather products		. .		•••••					••••••					1	
Glass and glass products									201	(*)					
Primary iron and steel manufacturing Primary nonferrous metals manufacturing				•••••		/*)			3			•••••	23 2		
Metal containers			l <i></i>									·····		8	
Heating, plumbing, and structural metal products				·····		·····							$21 \\ 30 \\ 15$		
Other fabricated metal products							 				·····		15 14	1	
Farm and garden machinery Construction and mining machinery Materials handling machinery and equipment							·····					•••••	4		
Materials handling machinery and equipment				}									$ \begin{array}{c} 13 \\ 27 \end{array} $		
Special industry machinery and equipment					••••••								4		
Miscellaneous machinery, except electrical												••••••	2	•••••	
Service industry machines. Electric industrial equipment and apparatus				[·····									Š	9	
Household appliances			[·····	[9 17		
Radio, TV, and communication equipment			ļ	[ļ			$282 \\ 23$		
Miscellaneous electrical machinery and supplies			<u>.</u>												
Aircraft and parts							•••••					•••••	$15 \\ 280 \\ 20$	•••••	
Other transportation equipment Scientific and controlling instruments								•••••				·····	20 21	9	
Optical, ophthalmic, and photographic equipment Miscellaneous manufacturing													1 6	(*)	
Transportation and warehousing Communications, except radio and TV				34											
Radio and TV broadcasting Electric, gas, water, and sanitary services								86							
Wholesale and retail trade Finance and insurance															
Hotels; personal and repair services (exc. auto)															
Business services			ļ								•••••			••••••	
Eating and drinking places Automobile repair and services			•••••••	ļ				•••••						••••••	
Amusements							•••••								
Federal Government enterprises															
Government industry Rest of the world industry															
Household industry Inventory valuation adjustment			ļ				ļ								
Total commodity output	48,603	63,176	5,170	8,923	2,213	3,147	16,646	43,523	4,883	1 426	190 694	73,640	8.841	192,855	1.1

See footnote at end of table.

by Industries, 1977

at producers' prices]

Broad and narrow fabrics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood prod- ucts, except containers	Wood containers	Household funiture	Other funiture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Printing and publishing	Chemicals and selected chemical products	Plastics and synthetic materials	Drugs, cleaning and toilet preparations	Paints and allied products	Petroleum refining and related industries	Rubber and miscellaneous plastics products	Leather tanning and finishing	Footwear and other leather products	Glass and glass products	Industry number
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
		••••••	••••••	102						•••••••										1 1
						••••••				••••••										. 4
		••••••	••••••																	e 7
		·····				·····				••••••					3,264 31					2 9 1(
					 					••••••						2				
05 011	1	8	1	4		_	1	34 5	11	6	239	3	160		(*)	60				14
25,911 119 131 121 2	193 8,370 29 15 2	272 26 41,029 25	937 47 141 7,811 1	45		9 (*)	19 12	39 47 11		9 14	8	1,214 41 2 1	(*) 9	3	5 1	46 80 6	(*) (*) 3	$1 \\ 1 \\ 27$	3	16
$\frac{121}{2}$	15 2	25		5 38,019 29	38 460 (*) 1	6 21 1 9,915 28	3 23 (*)	11 36 56 5	1 9 2	8 (*)	52	1	3 18	1	3	14 35 2	3		19 5	19 20 21
(*)	7 15 97 3 13		18 4 33	38,019 29 44 43 77 2 8	(*) 1	9,915 28	3 23 (*) 18 6,111 1	3		3	1 199	4 20	15		3	$\begin{array}{c} 46\\ 80\\ 6\\ 14\\ 35\\ 2\\ 19\\ 27\\ 280\\ 133\\ 19\\ 38\\ 492\\ 34\\ 5\end{array}$		4 1	66	22
	3 13			2	1		8 1	36,570 61 296 83 4	60 12,754 35	3 223 32 31,158 49	5			······		133		1 4	11 (*)	25
140	176	6	10 2 91 14	5			1	83 4 7		49 4	50,675 1,428 975 105 6,943 285	3,004 17,407 94 121 101 191	1,006 81 27,055 6 79 44	80 28 29 5,983 12 8	1,139 60	38 492 34	4			28
5 36	1 84		••••••	1 17		39	10	1 12 77	$\frac{4}{20}$	24	105 6,943 285	121 101 191	6 79 44	5,983 12 8	60 2 91,504 3 (*)	5 16 37 553	1	1 31 8	3 4	30 31 35
1		33 1 28 1	$30 \\ 2 \\ 21 \\ 1 \\ 4$	6			(*)	3		3			(*)	• • • • • • • • • • • • • • • • • • • •	(*)	37,553 2 14 18 70 3	1,534	8 5,989		33
3	16	1	1 4	$2 \\ 31 \\ 27 \\ 7$	••••••	2	(*) 2	61 8	7	1 (*) 7	65 259 286 7	15 55	9	$1 \\ 2 \\ 8$	55	18 70 3		(*)	8,964 36	35 36 37
						2		61 8 25 7 16 2 61	63		286 7		4		1	72 13			64 4 31 1 1	38
4			$\begin{array}{c} 3\\27\\4\end{array}$	39 2 23	3 1	11 4 16	15 5 23 3 3	16 2 61	18 24	128 1 1 39	92 3 16	7 8	13	2 11	1 (*)	72 13 56 28 108 5	(*)	3	1 1	40 41 42
				10	1	3 6	3		6		21 34					5 4 17		•••••••		43
		12	1			1	4	1	2	(*) 5		3	14		1	1 23 7				
2	1	2	1 4 2	17 1	(*)	6 1 1	2 3 (*)	1			33 19 6	3	5 2	1		46			5	48 49 50
	1		$\begin{array}{c} 10\\2\end{array}$			1	4 2 3 (*) 21 4 2 31	29	2	38 1	20 33 19 6 35 30 25 4		8		••••••	35 9 23		1	(*) 4 (*)	51 52 53
4	$\begin{array}{c}1\\6\\13\end{array}$		8	3 3		9 1 15	$3\overline{1}$ 2 1	7 11 9		11 10	4 6	e	13		(*)	23 20 9 24		1	(*) 9	54
	5			3	2	15 4		5		10	14 29	0	3			27		5	(*)	57
		15 4	22	2 12			69 9 18	33	9	9	2		7		6 4	6 60 4			(*)	58 60 61
1 3	1	4 16	11 2 39	-7 		1 	9 2 4	18 27 17	8	3 13 47	53 82 131	14	$104 \\ 10 \\ 58$	3 2		21 59 134		3 	(*) 24 (*) (*)	62 63 64
	1	10																		65
								· · · · · · · · · · · · · · · · · · ·			143				30					$\begin{array}{c} 1 \\ 2 \\ 2 \\ 4 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 8 \\ 8 \\ 5 \\ 6 \\ 7 \\ 7 \\ 8 \\ 8 \\ 8 \\ 5 \\ 7 \\ 7 \\ 8 \\ 8 \\ 7 \\ 7 \\ 8 \\ 8 \\ 7 \\ 7$
																				70 71 72
																				73
																	·····			76
										(*)	41									78 79 82
					·····															88
26,489	9,049	41,472	9,303	38,616	508	10,137	6,442	37,698	13,033	31,849	63,263	22,313	28,725	6,194	96,114	39,791	1,541	6,097	9,236	85 T

Table 2.—The Make of Commodities

Prot the distribution of inductions or community, read to a product a pro				20							50		v			, P
Commolity aumber 36 37 38 38 40 11 42 43 44 45 66 47 48 49 Livetock and livestuck product. marked	For the distribution of industries producing a commodity, read the column for that commodity	clay products	on and steel turing	onferrous Ianufacturing	ainers	umbing, and I metal	hine products ipings	icated metal	d turbines	garden ry	on and minin ry	nandling ry and nt	ing machiner pment	ustry ry and nt	dustrial ry and at	machiner
Linetack and livetock products Deer any finite	For the distribution of commodities produced by an industry, read the row for that industry	Stone and	Primary ir manufac	Primary n metals n	Metal cont	Heating, p structury products	Screw mac and stan	Other fabr products	Engines ar	Farm and machine	Constructi machine	Materials machine equipme	Metalwork and equi	Special inc machine equipme	General in machine equipme	Miccollono
Other granutural products Other granutation of the product score pro	Commodity number	36	37	38	39	40	41	42	43	44	45	46	47	48	49	
Perstay and falsery produces. Perstay and falsery produces. Perstay and falsery produces. Name of ensitivity even initing. Name of ensitivity even initing. Name of ensitivity even initing. Perstay and falsery produces. Perstay and falsery pr	Other agricultural products															
Code and externing and party and the end pa	Forestry and fishery products Agricultural, forestry, and fishery services															·[
Code and externing and party and the end pa	Iron and ferroalloy ores mining															
Stote and day mining and day mining and the second secon	Coal mining												•••••			
New construction New construction New construction New construction New construction Poid and introde products 17 2 16 6 16 16 28 1 (-7) 22 16 3 Poid and introde products (-7)	Stone and clay mining and quarrying	. 130		••••••									••••••			·}
Ordinance and accessories Image: Control of the control	New construction															
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Ordnance and accessories		17	2	1			16	29		1	(*)	22	16	3	·
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Food and kindred products Tobacco manufactures		•••••		16	6	36	2		1			••••••	13		
Append Append to the products.(7) (9)(7) (1)(7) (2)(7	Broad and narrow fabrics, yarn and thread mills	50		6				3						22	9	
Wood containers. 1 0 7 12 5 20 2 6 2 3 5 10 7 10 7 10 7 10 7 10 7 10 10 5 10 10 5 10 10 5 10 10 5 10 10 10 5 42 10 11 10 10 5 42 10 11 10 10 5 42 10 10 5 42 10 10 10 5 42 10	Apparel		•••••		••••••••••••••••••••••••••••••••••••••	(*)			•••••					(*)	о 	
Wood containers 10 7 10 7 11 8 16 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 1 8 10 7 10 15 14 2 6 2 3 5 Paper and alled products. 101 6 42 1 10 6 16 1 1 1 9 3 23 2 1 1 9 3 23 2 1 1 1 9 3 23 2 1 1 1 9 3 23 2 1 1 9 3 23 2 1 1 9 24 4 20 1 1 9 3 23 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Miscellaneous fabricated textile products Lumber and wood products, except containers	. (*)	1			52	(*)	9 47		12		(*)	24		1	1
Paper and allied products except containers 17 6 124 12 6 Operiodized containers and conterments 100 5 42 11 10 66 10 1 11 11 11 10 66 10 1 11 11 11 10 66 10 1 11 11 10 66 10 11 11 10 66 10 11 11 10 66 10 11 10 66 10 11 20 60 11 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 10 10 10 10 10 10 10 10 10	Wood containers		10	7		21	5	26	•••••			1	5		·····	
Piperborad containers and boxis 0 10 10 10 10 10 10 10 10 10 10 10 10 10 11	Other furniture and fixtures					18				Ž		6	ž	3	5	1
Printing and publishing constraints 101 b car 12 11 10 63 16 11 14 11 Drugs, cleaning and tolker preparations 9 11 11 10 63 16 11 <	Paperboard containers and boxes		······	•••••	10			21			·····	6	2	12	9	
Plastics and synchetic materials	Chemicals and selected chemical products		6 5	42		11	10	68		16		1	11		11	·
Paint and allied products 9 - 9 - 0 1 - Class and glas products -	Plastics and synthetic materials	11		•••••									9	2		
Unserve and gives products 24 err 5 20 5 20 5 20 5 20 4 3 1 24 42 22 7 5 20 15 150 155 150 155 150 155 150 155 150 155 160 165 7 25 46 27 24 81 11 46 46 155 150 161 131 161 131 161 131 161 131 161 131 161 131 161 131 161 131 161 131 161 131 161 131 131 12 131 <	Paint and allied products	. 9		•••••	40			12		ļ						
Unserve and gives products 24 err 5 20 5 20 5 20 5 20 4 3 1 24 42 22 7 5 20 15 150 155 150 155 150 155 150 155 150 155 160 165 7 25 46 27 24 81 11 46 46 155 150 161 131 161 131 161 131 161 131 161 131 161 131 161 131 161 131 161 131 161 131 161 131 131 12 131 <	Rubber and miscellaneous plastics products	108	29	13	40	34	25	103		21		11		26		
Unserve and gives products 24 err 5 20 5 20 5 20 5 20 4 3 1 24 42 22 7 5 20 15 150 155 150 155 150 155 150 155 150 155 160 165 7 25 46 27 24 81 11 46 46 155 150 161 131 161 131 161 131 161 131 161 131 161 131 161 131 161 131 161 131 161 131 161 131 131 12 131 <	Leather tanning and finishing Footwear and other leather products					1	1	6		1			2	1		• ••••
Primary ion and steel manufacturing 10 61,722 300 155 130 1,657 36 20 4 75 6 84 Metal containers 44 329 36,72 36 25,717 25 46 77 6 84 11 14 85 25,717 26 40 75 66 77 14 85 25,717 26 40 75 66 77 14 85 26 10 30 30 15 12 315 15 161 54 113 161 54 113 161 54 113 161 54 113 161 54 113 161 54 113 161 54 113 161 54 161 113 164 163 151 161 113 161 163 161 113 161 130 161 130 161 131 161 131 161 131 161 131 161 131 161 131 161 131 111 12	Glass and glass products		15			6		8			3	1	5		5	1
Metal containers methic products 27 65 72 8 12 10 2 7 1 10 10 10 10 10 10 10 10 10 10 12 63 64 10 10 10 10 10 12 64 30 10 12 36 36 10 12 36 36 10 11 11 12 36 36 10 11 11 12 36 36 11 11 11 11 11 11 11 12 36 36 11 11 12 38 36 13 13 16 11 13 16 11 13	Primary iron and steel manufacturing		61,732	300	10	155	130	1,657		36	20	4	75	6	84	
Heating, plumping, and structural metal products2768728223.41641003037222488Serve machine products and text products2122862611718,44692301512115161Parm and garden machinery21228626277100189,4793045822915112116Parm and garden machinery211025117324910,67527716163Materials handling machinery and equipment2051175166144446519275656Special industrial machinery and equipment1632215411299151729758656Special industrial machinery and equipment26474225110959282112,8735656Special industrial machinery and equipment2647422658111121312104Electric industrial and conting machines3845684161121312104Electric industrial equipment222659111121312104Electric industrial equipment6415822344101135Bedtrial	Metal containers				8,360	88 17	26	328		22			81 7			
Household appliances 0 21 5 9 59 111 15 18 10 11 3 5 Radio, TV, and communication equipment 8 11 26 22 39 44 4 5 27 10 Radio, TV, and communication equipment 8 11 20 24 24 22 26 9 6 4 4 5 27 55 53 Miscellaneous electrical machinery and supplies 14 25 171 (*) 2 7 5 (*) 10 (*) 15 Aircraft and parts 10 57 6 55 134 20 28 50 138 13 20 72 75 5 5 134 20 28 50 138 175 88 85 134 20 28 50 138 176 71 43 5 7 43 3 26 31 17 61 12 6 52 52 134 14 14 21 <t< td=""><td>Heating, plumbing, and structural metal products Screw machine products and stampings</td><td></td><td>68 67</td><td>72</td><td>8</td><td>25,411 75</td><td>64 18.543</td><td>150</td><td>30 26</td><td>37</td><td>25</td><td>46</td><td>$27 \\ 318$</td><td>24</td><td>88 51</td><td>İ.</td></t<>	Heating, plumbing, and structural metal products Screw machine products and stampings		68 67	72	8	25,411 75	64 18.543	150	30 26	37	25	46	$27 \\ 318$	24	88 51	İ.
Household appliances 0 21 5 9 59 111 15 18 10 11 3 5 Radio, TV, and communication equipment 8 11 26 22 39 44 4 5 27 10 Radio, TV, and communication equipment 8 11 20 24 24 22 26 9 6 4 4 5 27 55 53 Miscellaneous electrical machinery and supplies 14 25 171 (*) 2 7 5 (*) 10 (*) 15 Aircraft and parts 10 57 6 55 134 20 28 50 138 13 20 72 75 5 5 134 20 28 50 138 175 88 85 134 20 28 50 138 176 71 43 5 7 43 3 26 31 17 61 12 6 52 52 134 14 14 21 <t< td=""><td>Other fabricated metal products</td><td> 21</td><td></td><td>63</td><td>8</td><td>100</td><td>109</td><td>24,164</td><td>28 9 479</td><td>36</td><td>40</td><td></td><td>161 31</td><td>54</td><td>113</td><td>1</td></t<>	Other fabricated metal products	21		63	8	100	109	24,164	28 9 479	36	40		161 31	54	113	1
Household appliances 0 21 5 9 59 111 15 18 10 11 3 5 Radio, TV, and communication equipment 8 11 26 22 39 44 4 5 27 10 Radio, TV, and communication equipment 8 11 20 24 24 22 26 9 6 4 4 5 27 55 53 Miscellaneous electrical machinery and supplies 14 25 171 (*) 2 7 5 (*) 10 (*) 15 Aircraft and parts 10 57 6 55 134 20 28 50 138 13 20 72 75 5 5 134 20 28 50 138 175 88 85 134 20 28 50 138 176 71 43 5 7 43 3 26 31 17 61 12 6 52 52 134 14 14 21 <t< td=""><td></td><td></td><td></td><td>(*)</td><td> </td><td>52</td><td>17</td><td>32</td><td>49</td><td>10,765</td><td>277</td><td>13</td><td>10</td><td>25</td><td>36</td><td>1</td></t<>				(*)		52	17	32	49	10,765	277	13	10	25	36	1
Household appliances 0 21 5 9 59 111 15 18 10 11 3 5 Radio, TV, and communication equipment 8 11 26 22 39 44 4 5 27 10 Radio, TV, and communication equipment 8 11 20 24 24 22 26 9 6 4 4 5 27 55 53 Miscellaneous electrical machinery and supplies 14 25 171 (*) 2 7 5 (*) 10 (*) 15 Aircraft and parts 10 57 6 55 134 20 28 50 138 13 20 72 75 5 5 134 20 28 50 138 175 88 85 134 20 28 50 138 176 71 43 5 7 43 3 26 31 17 61 12 6 52 52 134 14 14 21 <t< td=""><td>Materials handling machinery and equipment</td><td></td><td>20</td><td><u>.</u></td><td></td><td>17</td><td>5</td><td>16</td><td>6</td><td>105</td><td>49</td><td>4,456</td><td>19</td><td>25</td><td>51</td><td>ļ</td></t<>	Materials handling machinery and equipment		20	<u>.</u>		17	5	16	6	105	49	4,456	19	25	51	ļ
Household appliances 0 21 5 9 59 111 15 18 10 11 3 5 Radio, TV, and communication equipment 8 11 26 22 39 44 4 5 27 10 Radio, TV, and communication equipment 8 11 20 24 24 22 26 9 6 4 4 5 27 55 53 Miscellaneous electrical machinery and supplies 14 25 171 (*) 2 7 5 (*) 10 (*) 15 Aircraft and parts 10 57 6 55 134 20 28 50 138 13 20 72 75 5 5 134 20 28 50 138 175 88 85 134 20 28 50 138 176 71 43 5 7 43 3 26 31 17 61 12 6 52 52 134 14 14 21 <t< td=""><td>Special industry machinery and equipment</td><td> 4 16</td><td>90 32</td><td>5</td><td>1</td><td>24 54</td><td>25</td><td>29</td><td>99</td><td>59 15</td><td>28</td><td>21 29</td><td>12,373</td><td>56 8,057</td><td>56 105</td><td></td></t<>	Special industry machinery and equipment	4 16	90 32	5	1	24 54	25	29	99	59 15	28	21 29	12,373	56 8,057	56 105	
Household appliances 0 21 5 9 59 111 15 18 10 11 3 5 Radio, TV, and communication equipment 8 11 26 22 39 44 4 5 27 10 Radio, TV, and communication equipment 8 11 20 24 24 22 26 9 6 4 4 5 27 55 53 Miscellaneous electrical machinery and supplies 14 25 171 (*) 2 7 5 (*) 10 (*) 15 Aircraft and parts 10 57 6 55 134 20 28 50 138 13 20 72 75 5 5 134 20 28 50 138 175 88 85 134 20 28 50 138 176 71 43 5 7 43 3 26 31 17 61 12 6 52 52 134 14 14 21 <t< td=""><td>General industrial machinery and equipment</td><td>. 2</td><td>49</td><td>42</td><td>1</td><td>82 12</td><td>27</td><td>227</td><td>128 23</td><td>25</td><td>47</td><td>21</td><td>52 45</td><td>70 15</td><td>14,786 59</td><td>7</td></t<>	General industrial machinery and equipment	. 2	49	42	1	82 12	27	227	128 23	25	47	21	52 45	70 15	14,786 59	7
Household appliances 0 21 5 9 59 111 15 18 10 11 3 5 Radio, TV, and communication equipment 8 11 26 22 39 44 4 5 27 10 Radio, TV, and communication equipment 8 11 20 24 24 22 26 9 6 4 4 5 27 55 53 Miscellaneous electrical machinery and supplies 14 25 171 (*) 2 7 5 (*) 10 (*) 15 Aircraft and parts 10 57 6 55 134 20 28 50 138 13 20 72 75 5 5 134 20 28 50 138 175 88 85 134 20 28 50 138 176 71 43 5 7 43 3 26 31 17 61 12 6 52 52 134 14 14 21 <t< td=""><td>Office, computing, and accounting machines</td><td></td><td>3</td><td>45</td><td></td><td>24</td><td>26</td><td>83 54</td><td></td><td></td><td></td><td>18 12</td><td>18 13</td><td>9</td><td>75 104</td><td></td></t<>	Office, computing, and accounting machines		3	45		24	26	83 54				18 12	18 13	9	75 104	
Electric lighting and wiring equipment 6 41 58 22 39 44	Electric industrial equipment apparatus	. 22	26	59					98		3	15	38		73	
Transportation and warehousing.	Electric lighting and wiring equipment	6	41	58		22	39	44				10	11	3	5	
Transportation and warehousing.	Electronic components and accessories		20	24		15 24	32	26	9		46	4	5 27	27	10 53	
Transportation and warehousing.			25 445			(*) 109	$\frac{2}{570}$	138	175	83	5 86	(*) 55	10 134	(*) 20	15 72	
Transportation and warehousing.	Aircraft and parts	10				54 85	42	66	386	20	48	20	28	50	136	
Transportation and warehousing.	Scientific and controlling instruments		3					67			7	ő	12	6	50	
Communications, except radio and TV. Radio and TV broadcasting Electric; gas, water, and sanitary services Wholesale and retail trade Finance and insurance Real estate and rental Hotels; personal and repair services (exc. auto). Business services. Eating and drinking places. Automobile repair and services. Health, educ, & social serv. and nonprofit org. Federal Government enterprises. State and local government enterprises. Rest of the world industry. Houshold industry Houshold industry Houshold industry valuation adjustment	Miscellaneous manufacturing	37	8	14		14	21	56		6	1		15	15 6	13	
Electric, gas, water, and sanitary services	Transportation and warehousing Communications, except radio and TV								•••••		· · · · · · · · · · · · · · · · · · ·					
Wholesale and retail trade Finance and insurance Finance and insurance Real estate and rental Hotels; personal and repair services (exc. auto) Services Business services Services Automobile repair and services. Services Anusements Social serv. and nonprofit org. Federal Government enterprises 25 State and local government industry Rest of the world industry Houshold industry Services Services Services <	Radio and TV broadcasting Electric, gas, water, and sanitary services			[<u> </u>											
Real estate and rental	Wholesale and retail trade												••••••			
Business services	Real estate and rental]								 						·]
Eating and drinking places.																
Amusements. Health, educ, & social serv. and nonprofit org. Health, educ, & social serv. and nonprofit org. State and local government enterprises. State and local government enterprises. 25 Government industry. 25 Rest of the world industry. 1000000000000000000000000000000000000	Eating and drinking places							}								
Federal Government enterprises 25 State and local government enterprises 25 Government industry 25 Rest of the world industry 25 Household industry 25 Inventory valuation adjustment 25	Amusements						•••••	ļ	•••••							
State and local government enterprises 25 Government industry — Rest of the world industry — Household industry —	Federal Government enterprises)		i						
Rest of the world industry Household industry	State and local government enterprises	25														
Inventory valuation adjustment	Rest of the world industry		ļ	ļ	ļ	ļ		[
	Inventory valuation adjustment					·····		<u> </u>								

See footnote at end of table.

by Industries, 1977—Continued

at producers' prices]

Office, computing, and accounting machines	Service industry machines	Electic industrial equipment and apparatus	Household appliances	Electric lighting and wiring equipment	Radio, TV, and communication equipment	Electronic components and accessories	Mise. electrical machin- ery and supplies	Motor vehicles and equipment	Aircraft and parts	Other transportation equipment	Scientific and con- trolling instruments	Optical, ophthalmic, and photographic equipment	Miscellaneous manufacturing	Transportation and warehousing	Communications, except radio and TV	Radio and TV broadcasting	Electric, gas, water, and sanitary services	Wholesale and retail trade	Finance and insurance
51	52		54	55	56	57	58	59	60	61	62	63	64	65	66	67	68 	69	70
(*) 16 10 130 311 2 16 5 9 9 8 7 8 8 8 7 8	28 8 1 6 6 6 	13 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3 42 2 4 4 4 4 4 14 5 5 3 3 3 4 8 105 5 24 8 11	(*) 1 3 3 2 2 16 5 200 622 19 19 1 12 14 25 5	251 6 4 5 1 11 15 4 4 10 11 11 13 15	4 5 1 1 7 125 73 73 223 23 23 10 6 14 3 10 18	1 2 4 50 25 6 6 3 3 4 4 4 20 19 14	45 2 4 11 4 5 7 7 6 8 8 8 8 12 7 7 154 173 8 8 8 8 55 40 138 8 25 124 49 49 49 49 43 43 20 134	332 1 5 5 19 19 1 7 6 46 7 7 17	2 10 4 1 1 18 5 7 7 42 20 17 7	5 31 5 21 6 7 7 16 20 31 7 86 9 9 9 9 9 9 9 9 7 7 34 8 6 11 13 33 4 8 8 8 8 8 8 8 8 8 8 13 10 7 7 7 8 8 6 9 9 9 7 7 7 8 8 6 8 9 9 9 7 7 7 8 8 8 8 8 9 7 7 8 8 8 8 9 7 7 7 7	4 5 5 5 78 20 231 23 1 9 9 1 1 5 3 3	$\begin{array}{c} 10\\ 14\\ (*)\\ 22\\ 9\\ 9\\ 27\\ 16\\ 14\\ 14\\ 22\\ 17\\ 150\\ (*)\\ 61\\ 38\\ 38\\ 45\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 12\\ 2\\ 2\\ 2\\ 12\\ 1\\ 1\\ 11\\ 1$				44		
$\begin{array}{c} 8\\ 9\\ 9\\ 15\\ 33\\ 4\\ 1\\ 1\\ 1\\ 51\\ 14\\ 55\\ 2\\ 58\\ 21\\ 25\\ 58\\ 21\\ 25\\ 58\\ 21\\ 25\\ 58\\ 6\\ 6\\ 6\\ \end{array}$	566 567 211 22 5 5 100 22 8 8 8 7 6 1 1 10,661 200 2666 266 266 266 266 266 266 266 26	38 32 59 381 2 2 37 6 53 5 77 11 16,583 43 95 165 77 77 112 162 43 84 43 84 41 19 10 1	8 11 5 5 35 4 12 188 14 9,700 7 6 1 1 7 8 (*) 37 5 5 5	5 4 2 18 3 11 10 93 7 7 7,481 38 86 22 71 26 2 2 63 58 89 9	$\begin{array}{c} 9\\ 5\\ 19\\ 3\\ 4\\ 3\\ 7\\ 7\\ 8\\ 55\\ 51\\ 11\\ 77\\ 23\\ 75\\ 27, 150\\ 199\\ 30\\ 3\\ 144\\ 6\\ 87\\ 53\\ 21\\ 3\\ 21\\ 3\\ 21\\ 3\\ 21\\ 3\\ 3\\ 21\\ 3\\ 3\\ 21\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\$	111 3 299 4 434 434 434 7 202 79 4100 13.128 31 31 31 55 466 7 7	2 (*)) 2 3 3 11 300 300 300 222 19 9 34 5 5 46 7,953 217 217 212 2 4	$\begin{array}{c} 138\\ 255\\ 25\\ 124\\ 49\\ 49\\ 20\\ 134\\ 157\\ 516\\ 38\\ 25\\ 112\\ 63\\ 20\\ 285\\ 114,240\\ 138\\ 41\\ 7\\ 4\end{array}$	$\begin{array}{c} 46 \\ 7 \\ 7 \\ 17 \\ 27 \\ 9 \\ 2 \\ 4 \\ 13 \\ 1 \\ 14 \\ 13 \\ 31 \\ 31 \\ 31 \\$	42 200 177 4 344 222 15 15 36 19 9 1 200 1 5 72 126 20,816 5 5 111	$\begin{array}{c} 16\\ 5\\ 5\\ 27\\ 26\\ 32\\ 4\\ 125\\ 222\\ 15\\ 126\\ 6\\ 12\\ 15\\ 126\\ 6\\ 101\\ 101\\ 101\\ 101\\ 101\\ 101\\ 101\\$	1 2 4 2 60 16 41 128 5 5 3 1 1 96 11,048 1	4 10 9 4 5 2 2 44 4 12 (*) 13 11 12 2 2 2 4 34 11 13 5 16 6 18,101	124,842	52,867	526	1,264		
														103 3,304	1		2,262 11,298	384,429 971 772	128,495

[Millions of dollars at producers' prices]

For the distribution of industries producing a commodity, read the column for that commodity For the distribution of commodities produced by an industry, read the row for that industry	Real estate and rental	Hotels; personal and repair services exc. auto	Business services	Eating and drinking places	Automobile repair and services	Amusements	Health, educ., and social serv. and nonprofit org.	Federal Government enterprises	State and local gov- ernment enterprises	Scrap, used, and secondhand goods	Government industry	Rest of the world industry	Household industry	Inventory valuation adjustment	
Commodity number	71	72	73	74	75	76	77	78	79	81	82	83	84	85	
Livestock and livestock products						44									
Other agricultural products						56				••••••					-
Forestry and fishery products															
Iron and ferroalloy ores mining															·
			•••••	•••••		•••••	••••	••••••							1
								<i>.</i>							
			••••••			•••••	•••••							[······	1
Chemical and fertilizer mineral mining New construction															1.
Maintenance and repair construction															
Ordnance and accessories Food and kindred products							•••••		•••••	4	••••••				:
Tobacco manufactures										27					
Broad and narrow fabrics, yarn and thread mills			••••••					•••••		54					1
Miscellaneous textile goods and floor coverings Apparel		·····	1					•••••							1
Miscellaneous fabricated textile products			(*)												
Lumber and wood products, except containers		•••••	(*)							17 1	••••••				
Household furniture			2							2	· · · · · · · · · · · · · · · · · · ·				
Other furniture and fixtures Paper and allied products, except containers			1			·····			•••••	$\frac{2}{67}$	•••••				·
Paperboard containers and boxes			23	•••••						97	· · · · · · · · · · · · · · · · · · ·				
Printing and publishing			18,105							95	·····				
Chemicals and selected chemical products Plastics and synthetic materials			•••••	•••••	••••••	••••••	h		•••••	41 5	•••••				1
Drugs, cleaning and toilet preparations			1							4	· · · · · · · · · · · · · · · · · · ·				
Paints and allied products										15	L			·····	-
		•••••	1			••••	••••	•••••	•••••	9					1
Leather tanning and finishing															
Footwear and other leather products			(*)											[
Stone and clay products			·····												
	••••••			·····		}·····	}	•••••		$379 \\ 142$		·····			
										128					
Heating, plumbing, and structural metal products			1							77					ŀ
Screw machine products and stampings Other fabricated metal products	••••••				•••••				•••••	204 76	•••••		••••••	[1
Engines and turbines	••••••									13					
Farm and garden machinery	••••••	·····	·····	·····		·····	}	•••••	•••••	$ \frac{9}{21} $	••••••	•••••			
Materials handling machinery and equipment										4					
Metalworking machinery and equipment			(*)			ļ				$10 \\ 3$		•••••			·
General industrial machinery and equipment										24				[
Miscellaneous machinery, except electrical										12 17				r	•
Service industry machines			о 	• • • • • • • • • • • • • • • • • • • •						37					:
Electric industrial equipment and apparatus			1							36					·
Household appliances Electric lighting and wiring equipment			1							18 17					1
Radio, TV, and communication equipment						·····				82					
Electronic components and accessories										41 22					1
Motor vehicles and equipment										275				······	-
Aircraft and parts Other transportation equipment									•••••	19 26				 	1
Scientific and controlling instruments			1							19					1
a final fina			793					••••••	•••••	27	•••••	••••••		L	
Transportation and warehousing			1	[1					68					1
		•••••	7,944	}											·
Electric, gas, water, and sanitary services					••••••	ļ	[54			[:
Wholesale and retail trade			727			ŀ		L	·····						
Finance and insurance	275,938		121									 		í	. 1
Hotels; personal and repair services (exc. auto)	256	46,112	55												
Business services Eating and drinking places	814	17	133,755	86,027				·····	ŀ			þ			· 1
Automobile repair and services	••••••				43,103			•••••							1
Amusements Health, educ., & social serv. and nonprofit org			322 220			24,234	169.016		·····						·
Federal Government enterprises	126			1,812		40	162,016	14,240							
State and local government enterprises	2,110				276	209		•	4,907		000 00				
Government industry Rest of the world industry							[203,934	23,464		İ	· :
Household industry						ļ							5,930	10 -0.	1
Inventory valuation adjustment						l								- 18,582	1
Total commodity output	279,243	t 46 129	161.969	87.839	43,380	1 24 583	162.016	14,240	4,961	0.050	203,934	23,464	5,930	-18,582	2

* Less than \$500,000.

Table 3.—Commodity-by-Industry Direct Requirements, 1977

[Direct requirements per dollar of industry output, at producers' prices]

For the composition of inputs to an industry, read the column for that industry	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Iron and ferroalloy ores mining	Nonferrous metal ores mining	Coal mining	Crude petroleum and natural gas	Stone and clay mining and quarrying	Chemical and fertilizer mineral mining	New construction	Maintenance and repair construction	Ordnance and
Industry number	1	2	3	4	5	6	7	8	9	10	11	12	1
Livestock and livestock products Other agricultural products	$0.17029 \\ .26332$	$0.02054 \\ .03838$		$0.02716 \\ .02070$.00004					
Forestry and fishery products	.03634	.03873	.00711 .10219	.00199 .00769		.00012	.00022	(*)	.00004	.00074	.00118	.00588	
Iron and ferroalloy ores mining Nonferrous metal ores mining					.08454 .00486	.08675							
Coal mining Crude petroleum and natural gas	.00021	.00003			.00442	.00315	.14718	.04690	.00155	.00093			
Stone and clay mining and quarrying Chemical and fertilizer mineral mining	.00002	.00227 (*)		.00013	.00510	.00070			.03538	.01237 .04683	.00563	.01316	
New construction	.00623	.01037	.06682	.01063	.01117	.00355	.00681	.05537	.00634	.01218	.00118	.00108	
Food and kindred products	.21489	.01001	.00114 .01452	.00719		.00021	.00001	.00010	.00013	.00023	.00006	.00001	0. 0.
Pobacco manufactures		.00024	.01402			.00015	.00002			.000225	.00004	.00005	
Miscellaneous textile goods and floor coverings	.00034	.00148	.01040	.00339	•••••			00091	00061		.00556	.00358	
Apparel Miscellaneous fabricated textile products		.00055	.00130	.00500		.00015	.00056	.00021	.00061	.00032	.00013 .00023	.00010 .00049).
Lumber and wood products, except containers	.00017 .00004	.00013 .00255		.00128	.00160	.00783	.00413			.00093	.08436	.03049).).
Household furniture											.00047 .00191	.00039 .00118	
Paper and allied products, except containers Paperboard containers and boxes	.00158	.00058 .00131	.00009 .00009	.00059 .00782	.00005	.00012	.00033	.00007 .00004	.00598	.00227 .00019	.00284 .00003	.00384 .00003	1
Printing and publishing Chemicals and selected chemical products	.00019	.00020 .10216	.00009 .03015	.00052 .08977	.00015 .02078	.00018 .03788	.00026 .01279	.00022 .00812	.00096 .01444	.00065 .03103	.00002 .00209	.00001 .00354	:
Plastics and synthetic materials Drugs, cleaning and toilet preparations	.00215							.00007		.00019	.00032	.00040	
Paints and allied products	.00966	.04103	.00036 .02573	.03374	.02355	.02059	.02030	.00018 .00527	.03222	.02538	.00825 .02502	.01698 .03322	
Petroleum refining and related industries Rubber and miscellaneous plastics products Leather tanning and finishing Footwear and other leather products	.00553	.00479	.00051	.00448	.01583	.01674	.00833	.00041	.01050	.00440	.00880	.01824	
Footwear and other leather products	.00046	•••••	.00004	.00024 .00019	00005	00000	00001	.00003	00010	.00019	.00001 .00080	.00001	
Flass and glass products Stone and clay products Primary iron and steel manufacturing	.00009	.00093	.00004	.00119	.00005	.00009	.00001 .00451	.00014 .00022	.00019 .00054	.00042	.06623 .02396	.00154 .04726 .01468	.
rimary nonferrous metals manufacturing	.00011	.00010			.02336 .00136	.03109 .00373	.00491 .00258	.00841	.00755 .00299	.01005 .00144	.02396	.01468	
Metal containers	.00012	.00013	.00092					.00076	.00328 .00262	.00301	.06937 .00051	.06046	
Heating, plumbing, and structural metal products Screw machine products and stampings Other fabricated metal products	.00038 .00152	.00189	.00409	.00247	.00369 .01768	.00607 .01413	.00876 .00599	.00625	.01105	.00366 .00417	.00051	.00057 .02776	
ingines and turbines	.00511	.00773	.00177 .00159	.00346 .00234	.01068	.00886	.00655	.00293	.00908	.01061			
Farm and garden machinery					.03288 .00573	.03182 .00334	.04518 .00306	.00471	.03898 .00605	.02219 .00227	.00160 .00329	.00048 .00332	
Metalworking machinery and equipment			.00002	.00015	.00068	.00097	.00018	.00051	.00111	.00019	.00018	.00016	
General industrial machinery and equipment	.00029	.00026 .00065	.00083 .00007	.00010 .00031	.00928 .00141	.00725 .00491	.01019 .00333	.00344 .00264	.00870 .00469	.00486 .00241	.00449 .00019	.00188	:
Office, computing, and accounting machines				.00005							.01120	.01325	
Service industry machines	.00013	.00011			.00209	.00413	.00463	.00495 .00001	.00441	.00403	.00629 .00304	.00601	Ŀ
Electric lighting and wiring equipment Radio, TV, and communication equipment	.00007	.00004	.00009	.00027 .00004	.00010	.00039 .00009	.00073 .00004	.00029 .00007	.00038	.00023	.01446 .00307	.01319 .00255	
Electric components and accessories	.00137	.00450	.00007	.00266	.00015	.00143	.00036	.00017	.00090	.00046	.00083	.00067	
Notor vehicles and equipment	.00084	.00067	.00060 .00004	.00382	.01855	.00136	.00022	.00011	.00854	.00157	.00043	.00049	
Other transportation equipment			.03532 .00025	.00063	.00024 .00015	$.00082 \\ .00052$.00038	.00044	.00019	.00009	.00001 .00255	.00288	
cientific and controlling instruments	.00012	.00013	.00009	.00041 .00055	.00005 .00321	.00012	.00002	.00006	.00019 .00167	.00005 .00134	.00007	.00006	
Communications, except radio and TV	.01761	.01194 .00274	.00971 .00076	.02396	.02074	.01544 .00118	.00768	.00418 .00132	.01165 .00176	.01315	.02295	.02047	
Radio and TV broadcasting	.00200	.01679	.00010	.01325	.10377	.05569	.01696	.00132	.05178	.12358	.00305	.00413	
Wholesale and retail trade	.03979	.04429	.03163 .00530	.06153	.03749	.03209 .01247	.02845	.00761 .00654	.03044 .01523	.02121	.08949	.08541	یہ بر
Real estate and rental	.02173	.08647	.00020	.03758	.00102	.01720	.01961	.09192	.02341 .00617	.01524 .00343	.00237	.00239	
Hotels; personal and repair services (exc. auto) Business services	.00417	.01559	.00973	.00204 .02194 .00930	.02341	.00158	.02565	.01450	.03741	.03502 .00630	.00133	.01398	
Eating and drinking places Automobile repair and services	.00015 .00294	.00015 .00235	.00539 .00394	.01547	.00185 .01112	.00285 .01583	.00124	.00569 .00279	.00418 .00607	.01014	.00079 .00516 .00001	.00066 .00251	:
Amusements Health, educ., & social serv. and nonprofit org	.00716	.00033	.00130	.02329 .00158	.00126	.00161	.00005 .00097	.00010 .00058	.00029 .00109	.00032 .00120	.00002	(*) .00003	
Federal Government enterprises	.00012 (*)	.00013	.00078	.00368 .00124	.00121 .00039	.00227	.00040	.00027 .00011	.00117	.00301 .00097	.00044	.00035	
Noncomparable imports Scrap, used, and secondhand goods		.00010	.00018	.00004	.00068 .00146	.00385 .00364	.00029 .00055	.00229	.00023 .00216	.00074 .00704	.00002 .00014	.00001 .00004	
Value added Compensation of employees	.15353 .06022	.52319 .08106	.61926 .12424	.53158 .33727	.47327 .29258	.50692 .35535	.57901 .33533	.69258 .07273	.58433 .29911	.51931 .20046	.38737 .30630	$.51256 \\ .43404$	
Indirect business taxes	.02147 .07184	$.02091 \\ .42122$.04253 .45250	.01810 .17621	.04652 .13417	$.04462 \\ .10695$.02248 .22120	.04419 .57565	.03800 .24722	.02469 .29416	.00967 .07141	.01286 .06566	

See footnotes at end of table.

Table 3.—Commodity-by-Industry

For the composition of inputs to an industry, read the column for that industry	Food and kindred products	Tobacco manufactures	Broad and narrow fabrics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products, except containers	Wood containers	Household furniture	Other furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Printing and publishing
Industry number	14	15	16	17	18	19	20	21	22	23	24	25	26
Livestock and livestock products	.08265 .00770 .00001	.19029	0.00352 .06480 .00002	0.00750 .00393 .00001	.00062 .00569 .00001		.09747 .00132	.00020	.00002		.00053 .00002		
Iron and ferroalloy ores mining Nonferrous metal ores mining		.00051	.00108	.00029	.00012	.00015	.00014	.00060	.00039	.00009	.00008 .00526		.0000
Crude petroleum and natural gas Stone and clay mining and quarrying Chemical and fertilizer mineral mining	.00012 .00005										.00288 .00042		
New construction Maintenance and repair construction Ordnance and accessories	.00457	.00142	.00572 (*) .00007	.00388	.00314 (*) .00021	.00309 .00059	.00540 (*) .00008	.00818	.00649	.00651	.01031	.00821	.0034
Tobacco manufactures Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings		.20446	.30855	.16094 .05618	.20707 .00144	.29888 .09264	.00199		.06202 .01843	.00050	.01184 .00565		.0005
Apparel	.00006 .00026 .00012 .00029	.00012 .00003 .00035	.00016	.01385 .00150 .00008	.20850 .01283	.03204 .01227 .03449 .00140	.00031 .00031 .31022 .00006	.00040 .33460 .00918	.00408 .00291 .12311 .00086 .00214	.00100 .00009 .06715 .00044 .00034	.00023 .00005 .06998 .00005	.00012	.0001 .0000 .0000
Other furniture and fixtures Paper and allied products, except containers Paperboard containers and boxes Printing and publishing Chemicals and selected chemical products	.00966 .02025 .00487 .00603	.01203 .00604 .00976 .00119	.00123 .00697 .00045 .02114	.00506 .00521 .00080 .03174	.00355 .00390 .00104 .00187	.00321 .00834 .00193 .00182	.00052 .00188 .00044 .01207	.00040 .06125 .00180	.00214 .01135 .00175 .00264	.00776 .00160 .01220 .00120 .00677	.00003 .18271 .01431 .00096 .03345	.40237 .04230 .00109 .02306	.160 .002 .096 .020
Plastics and synthetic materials Drugs, cleaning and toilet preparations Paints and allied products Petroleum refining and related industries Rubber and miscellaneous plactics products	00025	.00090	.14459 .00174 .00008	.21278 .00131 .00032	.03241 .00253 (*)	.00905	.00053	.00599	.00422	.00036	.02398 .00157 .00028	.01028	.000. 000.
Petroleum reming and related industries. Rubber and miscellaneous plactics products. Leather tanning and finishing. Footwear and other leather products	.00387 .00953 .00001	.00315 .02005	.00706 .00921 .00023	.00624 .02852	.00450 .00437 .00419 .00009	.00215 .02635 .00976	.01104 .00589 .00022	.00958 .000040	.00578 .04946 .00359	.00485 .04032 .00038	.02886 .02336 .00002	.01153 .00215 .00002	.004 .006 .000 .000
Glass and glass products	.00027	.00003 .00010 .00011	.00285 .00023 .00003	.00271 .00025 .00018 .00454	.00015 .00002	.00017	.00112 .00503 .00074 .00037	.00219 .00559	.00519 .00421 .02376 .00688	.00158 00313 .11091 .01600	.00003 .00190 .00002 .00115	.00001 .00054 .00594 .00285	.000 .000 .000 .000
Metal containers	.03087	.00005					.00313 .00807		.00611	.01566	••••••		.000
Engines and turbines		.00490	.00015	.00010	.00061	.00009	.02037	.00339	.05638	.03447	.00734	.00492	.001
Farm and garden machinery. Construction and mining machinery Materials handling machinery and equipment	.00001 .00015 .00059 .00025	.00003 .00022 .00019	.00072 .00042 .00533	.00050 .01019	.00006 .00023 .00175 .00012	.00038 .00074	.00050 .00227 .00083 .00058	.00160 .00200	.00088 .00079 .00009	.00332 .00191	.00001 .00046 .00340 .00055	.00391 .00403	.000 .004 .000
Miscellaneous machinery, except electrical Office, computing, and accounting machines Service industry machines Electric industrial equipment and apparatus		.00019	.00120	.00140	.00063	.00073	.00211 .00059 .00060	.00379	.00156	.00343	.00118	.00169	000. 000.
Household appliances Electric lighting and wiring equipment Radio, TV, and communication equipment	(*) .00006 .00001	.00002 .00001	.00001	.00005 .00001	.00074 .00008 .00003	.00004 .00001	.00038 .00002	.00020	.00013 .00010	.00028	.00007 .00001	.00001 .00008 .00003	.000 .000 .000
Electronic components and accessories Miscellaneous electrical machinery and supplies Motor vehicles and equipment. Aircraft and parts	00001 .00004	.00003 .00005 .00003	.00023 .00003 .00005	.00001	.00005 .00007		.00030 .00121	.00020	.00003 .00012	.00009	.00006 .00011	.00008 .00013	.000 000.
Other transportation equipment Scientific and controlling instruments Optical, ophthalmic, and photographic equipment Miscellaneous manufacturing Transportation and warehousing Communications, except radio and TV	00012 00006 00010	.00009 .00003 .00009 .00688 .00065	.00018 .00009 .00020 .00956 .00436	.00003 .00034 .00016 .02164 .00176	.00012 .00012 .01427 .00833 .00845	.00014 .00010 .00199 .01184 .00320	.00004 .00022 .00014 .00036 .02329 .00137	.00060 .00020 .00020 .02713 .00299	.00056 .00015 .00119 .02223 .00555	.00019 .00011 .00017 .02099 .00479	.00036 .00021 .00014 .03602 .00228	.00019 .00024 .00026 .04242 .00255	.000 .009 .002 .026 .012
Radio and TV broadcasting	.01093	.00085 .00317 .01063 .00695	.00430 .02140 .04169 .00309	.01660 .03793 .00360	.00776 .03824	.00756 .04801	.01331 .04629	.01277 .06125	.01002 .05601	.01247 .04369	.04102 .05921	.01159 .01907	.007 .036
Finance and insurance. Real estate and rental	00280 00200 02524 00224	.00237 .00056 .04929 .00135	.00244 .00123 .02695 .00373	.00309 .00143 .01845 .00275	.00573 .00708 .00296 .01972 .00424	.00616 .00960 .00524 .01920 .00426	.00629 .00283 .00134 .01214 .00272	.01716 .00638 .00319 .02713 .00878	.01422 .00828 .00348 .03801 .00590	.01226 .00956 .00321 .04347 .00524	.00399 .00410 .00324 .02179 .00258	.00314 .00487 .00125 .01285 .00384	.009 .015 .006 .058 .020
Automobile repair and services Amusements	00177 00002 00028 00116 00066	.00177 .00008 .00042 .00233 .00022 .00008	.00154 .00001 .00098 .00134 .00044 .00042	.00145 .00016 .00195 .00053 .01436	.00191 .00005 .00054 .00400 .00019	.00183 .00315 .00232	.00365 .00001 .00112 .00070 .00014	.00339 .00339 .00259 .00040	.00534 .00102 .00209 .00252 .00023	.00536 .00048 .00156 .00336 .00017	.00262 .00007 .00058 .00109 .00089 .00069	.00298 .00002 .00016 .00129 .00030	.003 .000 .001 .016 .000
Noncomparable imports Scrap, used, and secondhand goods Value added Compensation of employees Indirect business taxes	.26892	.00008 .45649 .08700 .18852	.00042 .00076 .28232 .21226 .00822	.01436 .00630 .30660 .16910 .00998	.00051 .37316 .28896 .00396	.00656 .36058 .25754 .00358	.00014 .38154 .22463 .00873	.37031 .31285 .01476	.00151 .40042 .31044 .00705	.00020 .45532 .32430 .00654	.00069 .01323 .36681 .22596 .01573	.00047 .36483 .23586 .01366	.000 .47(.333 .011
Property-type income	.10099	.18097	.06183	.12753	.08024	.09946	.14819	.04270	.08293	.12449	.12512	.11532	.12

See footnotes at end of table.

Direct Requirements, 1977—Continued

industry output, at producers' prices]

Chemicals and selected chemical products	Plastics and synthetic materials	Drugs, cleaning and toilet preparations	Paints and allied products	Petroleum refining and related industries	Rubber and miscellaneous plastics products	Leather tanning and finishing	Footwear and other leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metals manufac- turing	Metal containers	Heating, plumbing, and structural metal products	Screw machine prod- ucts and stampings	Other fabricated metal products	Engines and turbines	Farm and garden machinery	Construction and mining machinery	Materials handling machinery and equipment	Commodity number
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
.00202 .00047 .00235	.00002	0.00106 .00205 .00039 .00001	.00029 .00293 .00002 .00099	(*)	.00001			.00003	.00009	.00002 .04962	.00001	.00001	.00001	.00001	.00002	.00002	.00002	.00001		
.00047 .00235 .00206 .00897 .00450 .02547 .00431 .01730	.00007 .00507 .01553	.00042 .00057	.00163 .00712 .00537	.00012 .60721 .00212	.00064 .00135 .00039 .00015	.00052	.00010	.000006	.00022 .00027 .01110 .05655 .00344	.00071 .04872 .00041 .00334	.05663 .00050 .00019	.00001	.00106 .00004 .00009	.00025	.00020	.00009	.00033	.00038	.00021	5 6 7 8 9
.01730 .00937 (*) .00624	.00903	.00388	.00037 .00724 .02571	.00006 .00828 .00036	.00015 .00597 .00001 .00026	.00097 .00444 .32775	.00342	.00036 .00921 .00013	.00344 .01639 .00082 .00078	.00081 .02013 .00018 .00012	.00002 .00561 .00009	.00717	.01343	.00976	.00768	.00726	.00372	.005555 .00010	.00574	10 11 12 13 14
.00003 .00045 .00092	.00470 .00022 .00006 .00052	.00035 .00003 .00007 .00014	.00005 .00010	.00020 .00001 .00023	.01520 .02336 .00027 .00013 .00258	.00013	.03644 04085 .00279 .00608	.00045 .00013 .00883	.00465 .00001 .00024 .00584	.00024 .00002 .00136	.00051 .00004 .00008 .00003 .00190	.00014	.00012	.00013 .00140 .00239	.00006 .00041	.00034	.00007	.00007	.00012	$\begin{array}{c} 101\\ 112\\ 13\\ 14\\ 15\\ 16\\ 16\\ 17\\ 18\\ 19\\ 20\\ 22\\ 22\\ 23\\ 42\\ 25\\ 22\\ 22\\ 22\\ 22\\ 22\\ 22\\ 22\\ 22\\ 2$
		.00797 .02231 .00353	.00192		.00012 .01083 .01227	.00013	.00018	.00629 .00119 .04636 .00223	.00001	.00016 .00003 .00018 .00083	.00041 .00050 .00143	.00082 .00337	.00087 .00096 .00374	.00239 .00099 .00331 .00593	.00009 .00025 .00961 .00119	.00180 .00325	.00009	.00085 .00019 .00015 .00024	.00131 .00044 00040 .00031 .00050	21 22 23 24 25
.01037 .00416 .00156 .26172 .00861 .00368 .00161 .02476 .00768	.01570 .00937 .00050 .36453 .04297 .00469 .00203	.09240 .00319 .07355 .00148	.00192 .00790 .00528 .25673 .06775 .00256 .01246	.00199 .00296 .00012 .02983 .00026 .00386 .00004 .07841 .00148	.00083 .05090 .18962 .00031 .000527 .00003 .00013 .00527 .00359 .01151 .00125	.00013 .00689 .00084 .07524	.00752 .01248 .00213 .00785 .01406 .00247	.00223 .04537 .00161 .01580	.01305 .00444 .00087 .02308 .00828 .00828 .00071 .00182	.00042 .02604 .00003 .00026 .01238	.00052 .01976 .01141 .00001 .00076	.01402 .00072 .00262 .00074 .02201 .00299	.00093 .00159 .00050 .00332	.00331 .00593 .00101 .00499 .00219 .00056 .00355	.01895 .00342 .00047 .00619	.00074 .00010 .00044 .00582	.00024 .00221 .00080 .00023 	.00015 .00024 .00080 .00078	.00133 .00037 	26 27 28 29 30
	.02079 .02078 .00001 .00034	.01010 .03456 .00002 .01485 .00043	.02000 .00329 .00005 .00082	.07841 .00148 .00004 .00026 .00173 .00045	.01271 .04766 .00003 .00013 .00527	.01095 .00013 .05366	.00152 .06020 .18226 .03950 .00049	.01580 .00522 .00036 .07844 .01201	.00182 .01916 .00557 .00001 .00086	.01238 .00119 .00007 .00003 .00773	.01127 .00566 .00001 .00027	.00181	.00480 .00697 .00792	.00238 .00584	.00502 .02513 .00131	.00374	.00273 .00207 .02906	.00129 .00231 .01792 .00002 .00001	.00553 .01658	31 32 33 34 35
.00010 .00043 .00181 .00549 .01794 .00919 .00010	.00001 .00034 .00073 .00001 .00036 .00338	.00001 .00014 .02052 .00023	.00005 .00082 .01076 .00421 .00771 .05403	.00173 .00045 .00347	.00359 .01151 .00125 .00077 .00317	.00225	.00038 .00005	.00013 .00056	.00001 .00086 .12847 .00712 .00716 .00013 .00032 .00052 .01204 .00013	.20106 .01946 .00006	.00303 .00689 .38801 .00006	.00052 .29093 .13664 .04036	.00197 .21192 .09476	.00082 .00115 .26604 .04071 .00072	.00131 .00350 .14523 .06546 .00038 .00023	.00001 .00706 .13269 .04240 .01453 .02694 .01421	.00214 .12380 .00874	.00002 .00001 .00613 .16246 .00643	.00310 .13186 .01937 .01456	36 37 38 39 40
.00010	.00142	.00443 .00720	.00154 .00406	.00209	.00567 .00023	.00006	.00288	.00214 .00062	00593	.00327 .00802 .00030	.00224 .00661	.00071 .01016	.02838 .03166 .00004	.03360 .01717	.01724 .04288 .00148	.02694 .01421 .12107	.01792 .01001 .06684 .07238	.01853 .00625 .01069 .03364 .07765	.01163 .01552 .01562 .00141	41 42 43 44 45
.00025 .00952 .00325 .00068	.00036 .00035 .00176 .00088	.00031 .00187 .00046	.00013 .00005 .00085	.00006 .00146 .00017	.00005 .00245 .00188 .00028 .00306	.00045 .00116	.00005 .00110 .00057 .00003 .00192	.00489 .00612 .00035 .00433	.00008 .00089 .00011 .00057 .00204	.00029 .00628 .00090 .00966 .00525 .00016	.00035 .00925 .00029 .00630 .00351	.00426 .00014 .00270	.00543 .00579 .00488	.01254 .00007 .00079 .03162	.00788 .00029 .00115 .00672	.01563 .02310 .03149	.00657 .04247 .01898	.00713 .06279 .00607	.04660 .00874 .06510 .01800	46 47 48 49 50 51
.00115 .00041 (*) .00004 .00001	.00005	(*) .00006 .00004	.00002 .00005 .00005	.00007 (*)	.00009 (*) .00082 .00002	.00013	.00008	.00142 .00063 .00076 .00009	.00025 .00085 .00001	.00013 .00013 .00013 (*)	.00307 .00020 (*)	.00007 .00003 .00001	.00210 .00907 .00019 .00003	.00181 .00011 .00072 .00002	.00431 .00009 .00003	.01103	.00572 .000106 .00001	.01363 .00006 .00001	.03816 .00006	52 53 54 55 56
.00001 .00002	.00001	.00011 .00007	.00045	.00001 .00103	.00032 .00017 .00071	.00006		.00006	.00001 .00237	.00004 .00003 .00006	.00003 .00007	.00001	.00004	.00214	.00024 .00015 .00008	.01364 .00615	.00673 .02094	.00008 .01328	.00137 .00010	57 58 59 60 61
.00098 .00017 .00010 .04362 .00266	.00051 .00012 .00008 .02729 .00150	.00079 .00025 .00060 .02093 .00377	.00014 .00005 .00118 .03628 .00253	.00020 .00005 .00003 .03329 .00175	.00071 .00021 .00049 .02710 .00280	.00019 .00019 .00006 .02016 .00135	.00025 .00003 .01157 .01237 .00514	.00162 .00047 .00015 .03139 .00310	.00026 .00041 .00121 .07218 .00350	.00117 .00018 .00020 .04144 .00108	.00046 .00007 .00021 .03218 .00160	.00010 .00024 .00010 .02429 .00106	.00175 .00022 .00062 .01741 .00426	.00023 .00024 .00020 .01718 .00587	.00033 .00036 .00044 .01573 .00491	.00013 .00047 .00014 .01240 .00256	.00011 .00022 .00016 .01359 .00188	.00012 .00030 .00050 .01228 .00458	.00021 .00050 .00083 .01038 .00374	62 63 64 65 66
.06270 .04061 .00586 .00706	.03145 .03567 .00341 .00737	.00919 .04003 .00798 .01610	.00750 .04333 .00656 .00564	.02404 .01576 .00580 .00252	.02064 .03189 .00602 .00810	.01488 .05533 .00341 .00213 .00825	.00637 .03174 .01049 .00683	.06522 .03525 .00579 .01135 .00223	.04592 .03081 .00774 .00735	.04670 .05135 .00495 .00297 .00174	.03969 .05048 .00575 .00323 .00155	.01321 .03720 .00602 .00555 .00258	.00025 .00951 .04405 .00628 .00625 .00496	.01321 .03535 .00500 .00463 .00204 .02198	.01652 .04015 .00854 .00595 .00262	.00867 .03966 .00384 .00288 .00139	.00924 .06983 .00312 .00432 .00097	.00907 .05922 .00420 .00292 .00125	.00772 .05676 .00429 .00601 .00164	67 68 69 70 71 72
.00266 .03051 .00622 .00113 .00013 .00101	.00227 .02806 .00455 .00315 .00003 .00089	.00331 .14349 .01223 .00166 .00016 .00354	.00376 .03243 .00783 .00254 .00008 .00117	.00044 .01671 .00234 .00079 .00001 .00058	.00191 .02427 .00536 .00193 .00007 .00155	.00825 .01263 .00238 .00103	.00474 .03578 .00682 .00229 .00002 .00036	.00223 .02353 .00460 .00406 .00010 .00063	.00203 .02505 .00581 .00415 .00001 .00075	.00174 .01452 .00207 .00067 .00001 .00014	.00155 .01411 .00248 .00182 .00005 .00047	.00258 .01241 .00454 .00171 .00008 .00069	.00496 .02154 .00555 .00238 .00027 .00068	.00325 .00291 .00004 .00161	.00262 .02701 .00508 .00246 .00004 .00078	.00139 .01673 .00290 .00268 .00012 .00033	.00097 .01160 .00281 .00076	.00125 .01884 .00368 .00085 .00005 .00016	.00164 .02031 .00493 .00243 .00019 .00033	71 72 73 74 75 76 77
.00101 .00100 .00042 .00450 .00070 .32645	.00058 .00022 .00118 .32317	.00241 .00041 .00809 .39474	.00259 .00739 .32457	.00072 .00028 .00187 .14446	.00115 .00019 .01383 .00008 .43411	.00161 .00277 .00058	.00765 .00007 .41765	.00183 .00034 .00456 .00467 .52455	.00140 .00027 .00264 .44116	.00100 .00025 .00235 .02947 .36108	.00074 .00019 .00302 .03767 .25672	.00036 .00027 .00023 	.00137 .00020 .00029 .00155 .40498	.00096 .00023 .00024 	.00151 .00041 .00068 .00107 .48283	.00092 .00018 .00062 .00255 .41721	.00155 .00013 .00120 .00113 .42839	.00105 .00014 .00177 .00041 .42314	.00179 .00012 .00083 .45144	78 79 80 81 VA
.16749 .01412 .14484 1.00000	.22616 .01740 .07961 1.00000	.19539 .01282 .18652 1.00000	.17609 .01150 .13698 1.00000	.05263 .05332 .03852 1.00000	.27252 .03125 .13034 1.00000	.22352 .00367 .13386 1.00000	.32905 .00410 .08451 1.00000	.38702 .01538 .12215 1.00000	.27375 .01822 .14919 1.00000	.29278 .01596 .05234 1.00000	.16560 .01186 .07926 1.00000	.20370 .00547 .13573 1.00000	.27681 .01077 .11740 1.00000	.32442 .00880 .09686 1.00000	.30442 .00894 .16948 1.00000	.27303 .01045 .13374 1.00000	.26497 .00726 .15616 1.00000	.28864 .01249 .12200 1.00000	.30138 .00965 .14041 1.00000	88 89 90 T

Table 3.—Commodity-by-Industry

Industry number 47 48 49 90 51 52 54 55 66 97 155 Lowesche specification Arronautzin forestre, and fabrer services 00011 000011 00011 00011	For the composition of inputs to an industry, read the column for that industry	Metalworking machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery, except electrical	Office, computing, and accounting machines	Service industry machines	Electric industrial equipment and apparatus	Household appliances	Electric lighting and wiring equipment	Radio, TV, and communication equipment	Electronic components and accessories	Misc. electrical machinery and supplies	Motor vehicles
Other apricultural products Open Open <t< th=""><th>Industry number</th><th>47</th><th>48</th><th>49</th><th>50</th><th>51</th><th>52</th><th>53</th><th>54</th><th>55</th><th>56</th><th>57</th><th>58</th><th>59</th></t<>	Industry number	47	48	49	50	51	52	53	54	55	56	57	58	59
Pressive products Dood Dood <thdood< th=""> Dood Dood</thdood<>		•••••												
Tota and forvalloy or en mining.	Forestry and fishery products													
Cont monte	ron and ferroalloy ores mining		.00001	.00001	.00001	.00001	.00001	.00003		.00002	.00002	.00003	.00072	.00
Crade persident and matrix ges 0 <th< td=""><td>Coal mining</td><td>.00018</td><td>.00002</td><td>.00009</td><td>.00011</td><td>.00001</td><td>.00021</td><td>.00015</td><td>.00043</td><td>.00029</td><td>.00008</td><td>.00005</td><td></td><td>.00</td></th<>	Coal mining	.00018	.00002	.00009	.00011	.00001	.00021	.00015	.00043	.00029	.00008	.00005		.00
Chemical and fertiliser mining	Crude petroleum and natural gas													.00
Maintenance and regat: construction 00071 00072 00072 00073 00074 00074 00075 00071 00071 00075	Chemical and fertilizer mineral mining						.00081				••••••	••••••		
Prod and Rindred products	Maintenance and repair construction	.00377	.00479	.00496	.00375	.00271	.00374	.00639	.00590	.00472	.00273	.00602	.00398	.00
Bread and narrow fabrics, yarn and threed multik 00077 0018 00038 00038 00038 Mignetinesses fabricated textile products 00000 00005 00035 00032 00012 00014 00046 00012 00014 00046 00012 00114 00046 00012 00114 00046 00012 00114 00046 00012 00114 00046 00012 00114 00046 00112 00144 00046 00112 00144 00046 00112 00114 00041 00112 00116 00012 00111 01125 00112 00112 00111 00112	Food and kindred products	.00017	.00024	.00015	.00018	.00018	.00011	.00015	.00013	.00013	.00009	.00016	.00011	.00
Appart Jones Jones <t< td=""><td>Fobacco manufactures Broad and narrow fabrics, yarn and thread mills</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>.00340</td><td>.00158</td><td></td><td></td><td></td><td>.0</td></t<>	Fobacco manufactures Broad and narrow fabrics, yarn and thread mills								.00340	.00158				.0
Miselances inherited extite products 00004 00005 00016 00015 00016 00015 00016	Miscellaneous textile goods and floor coverings	00020	00015			00005	00013				00045	00076	.00030	0. 0.
Wood construct 00052 00012 00012 00015 00016 00016 00017 00028 00014 00017 00028 000128 00017 00028 000128 00017 00028 000128 00018 00017 00028 000128 00018 00028 000128 00018 00028 00018 00017 00028 00017 00028 00018 00017 00028 00018 00017 00028 00018 00017 00028 00018 00017 00028 00018 00017 00028 00018 00017 00028 00018 00017 00028 00018 00017 00028 00018 00017 00028 00018 00017 00028 00018 00017 00028 00018 00017 00028 00018 00017 00028 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 00018 000128 00118 00118 </td <td>Miscellaneous fabricated textile products</td> <td></td> <td></td> <td>.00004</td> <td>.00008</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.0 .0</td>	Miscellaneous fabricated textile products			.00004	.00008									.0 .0
Other furthure and fixtures Organ	Wood containers	.00052	.00018	.00200						.00229	.00045			0.
Trining and publishing	Other furniture and fixtures								.00057					.0
Printing and qublishing	Paper and allied products, except containers Paperboard containers and boxes	.00024 .00404	.00029 .00112	.00233	.00039	.00463 .00386		.00642		.00029			.00034	0. .0
Platics and synthetic materials	Printing and publishing	.00126	.00153 .01348	.00112		.00203	.00107	.00157	.00111	00125	.00563	.00150	.00091	0. 0.
Paints and allied products	Plastics and synthetic materials		.01010				.00516	.00335	.01893	.01445	.00572	.00477		.0
Bubber and miseellaneous plastics products 004689 0.0168 0.06089 0.0202 0.1470 0.6487 0.0417 0.0427 0.0417 0.0427 0.0417 0.0427 0.0417 0.0427 0.0018 0.0002 0.0012 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0022 0.0023	Paints and allied products	.00135	00505	.00033	.00037	.00207	.00285	.00258	.00851	00291	.00068	.00002		0. 0.
Protream and other leather products 00002 000	Rubber and miscellaneous plastics products	.00600 .00489	.00567 .01545	.00817	.00394 .00163	.00388 .03699	.00545	.00646	.00198 .05093	.00381 .02717				0. 0.
Stone and clay products	Leather tanning and finishing	.0002			.00002	.00002	.00002			•••••	.00002	.00002		
Primary iron and steel manufacturing .08974 .08780 .12568 .00716 .07184 .06650 .08482 .06159 .00521 .00521 .00521 .00521 .00521 .00521 .00521 .00521 .00521 .00523 .00123 .00123 .00123 .00124 .00251 .00251 .00123 .00124 .00251 .00123 .00523 .00123 .00123 .00124 .00125 .00124 .00124 .00124 .	Glass and glass products	.00001	.00149	.00002	.00001	.00013	.00072	.00049	.00603	.03493	.00091	.01784	.00061	0. 0.
Metal containers 00664 01247 00789 00862 00818 00252 00167 001736 01778 007789 00778 007789 00778 007789 007789 00778 00778 007789 00778	Primary iron and steel manufacturing	.08974	.08780	.12568	.07415	.00786	.07844	.06550	.08482	.06159	.00526	.00852	.02573	0. 0.
Screw machine products. 00010 00759 01274 00616 01746 022915 002915 002909 01735 01735 Farm and grafer machinery 01284 01156 01445 02291 00104 02245 02463 Farm and grafer machinery and equipment. 00466	Metal containers								.04000	.00021				
Engines and turbines 01028 00600 00301 00824 00870 00870 Construction and mining machinery 00046 01284 01421 01603 00854 00864 00771 00274 00454 00772 Metalvorking machinery and equipment 02966 03842 01284 01421 01603 00854 00902 00654 00084 00031 00046 000771 00471 00454 00772 General industrial machinery and equipment 02966 03842 01128 00114 02905 00447 00044 00031 00065 00682 Service industry machinery and equipment 02966 03866 08700 07615 05513 01733 00665 00035 Service industry machinery and equipment 0016 00006 00016 00272 05000 05513 01733 00665 00286 01039 Electric ingting and wring equipment 00016 00002 00001 00002 00130 01337 01423 01378	Screw machine products and stampings	.00610	.00759	.01274	.00616	.01746	.02591	.01549	02310	.02915	.00909	.01735	.01378	0. 0.
Farm and garden machinery. Odd46 Construction and mining machinery and equipment. 0.0364 0.0354 0.0902 0.0654 0.0038 0.0071 0.0274 0.0454 0.0722 Metaivorking machinery and equipment. 0.0364 0.0324 0.1222 0.0114 0.2066 0.0036 0.0036 0.0034 0.0047 0.0540 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0034 0.0035 0.00355 0.00355 0.00355 0.00355 0.00355 0.00356 0.0036 0.01253 0.0036 0.00355 0.00355 0.00355 0.00355 0.00355 0.00355 0.00356 0.00365 0.0036 0.00272 0.0506 0.01253 0.0026 0.00255 0.00355 0.00355 0.00355 0.00365 0.0026 0.0026 0.00272 0.00360 0.00272 0.00360 0.00272 0.00360	Other fabricated metal products Engines and turbines		01834	.01156	.01445	.01237	.02109	.01044	.02562	.02100	.01250	.02461	.02453	0. 0.
Materials handling machinery and equipment 00046 01421 01608 00054 00962 00684 00071 00071 00074 00045 Special industry machinery and equipment 02362 02714 01821 01222 00114 02005 00046 00051 00044 00045 00044 00044 00044 00044 00045 00044 00145 00045 00145 00145 00145 00145 00045 00145 00145 00165 00160 00045 00157 00151 00006 00001 00055 00157 00015 00265 00157 00015 00265 00157 00015 00277 01422 0144 0	Farm and garden machinery								••••••			••••••		.0
Special industry machinery and equipment 03001 01228 00114 02005 000407 00034 000349 000355 00	Materials handling machinery and equipment	05969	.00046	01491	01609	00254	00002	00684	00269	00771	00974	00454	00799	.0. 0.
Miscellaneous machinery, except electrical .02302 02714 .01310 .07952 .00346 .00346 .00346 .00349 .00335 .00355 Service industry machines .00765 .00866 .07760 .00165 .00165 .00134 .0019 .0019 .0019 .0019 .0019 .0019 .00117 .00065 .00265 .01639 .01253 .01773 .00665 .00226 .01039 .01253 .0173 .00615 .00226 .00019 .00010 .00002 .00010 .00002 .00010 .00002 .00010 .00002 .00001 .00002 .00001 .00002 .00001 .00002 .00011 .00002 .00010 .00002 .00011 .00002 .00011 .00002 .00011 .00002 .00011 .00002 .00011 .00002 .00011 .00002 .00011 .00002 .00011 .00002 .00011 .00002 .00012 .00011 .00002 .00011 .00002 .00012 .00014 .00016 .00025 .00012 .00014 .00015 .000024 .00117 .00017	Special industry machinery and equipment		.03001											
Service industry machines	Miscellaneous machinery, except electrical	.02066	.03452		.01228	.00348	.02005	.00436	.00540 .00304	.00031	.00349		.00682 .00355	0. 0.
Electric industrial equipment and apparatus 0.2705 0.03866 0.03700 0.00514 0.2975 0.7466 0.7675 0.5313 0.0173 0.00625 0.00326 0.00327 0.00326 0.00326 0.00326 0.00326 0.00326 0.00326 0.00326 0.00326 0.00326 0.00326 0.00326 0.00326 0.00326 0.00326 0.00326 0.00326 0.00326 0.00036 0.00336 0.0046	Service industry machines		.00060				.05040		.01844		.00019			.0
Electric lighting and wiring equipment.00115.00009.00006.00010.00000.00000.00001.00013.01387.16422.14428.03238Miscellaneous electrical machinery and supplies.00010.00017.00017.00017.00017.00013.00137.00114.00006.00006.00006.00006.00006.00006.00006.00006.00006.00006.00006.00006.00006.00006.00006.00006.00006.00013.00256.00141.00006.000070.02280.00038.00038.00015.00076.00142.00076.00220.00038.00036.00077.00280.00076.00148.00683.00021.00155.00028.00078.00128.00078.00128.00078.00028.00078.00128.00078.00128.00078.00028.00078.00028.00078.00028.00078.00015.00148.00683.00028.00078.00078.00128.00078.00028.00078.00028.00078.00078.00128.00128.00148	Electric industrial equipment and apparatus Household appliances		.03866	.03700	.00514	.02975	.07406		.05313	.01773	.00665	.00326	.01039	0.
Electronic components and accessories .00033 .00191 .00211 .09183	Electric lighting and wiring equipment	.00115				.00272					.00615 05724			0. 0.
Motor vehicles and equipment	Electronic components and accessories	.00033		.00201		.09183		.01937		.01367	.16422	.14428	.03288	0. 0.
Other transportation equipment.	Motor vehicles and equipment	.00014	1	.00005	.00178	.00012	.00004	.00004		.00006	.00089	.00008	.00027	.2
Optical, ophthalmic, and photographic equipment. 00043 00056 00043 00059 00063 00042 00070 00230 00098 000652 Miscellaneous manufacturing. 01028 01028 00015 000067 000467 000462 000070 00230 00098 000152 Transportation and warehousing. 01028 01220 01214 01549 01284 01476 01467 01340 01664 01048 01688 02223 Communications, except radio and TV .00330 .00614 .00656 .00472 .00552 .00392 .00406 .00238 .00302 .00113 .0124 .0124 .0125 .00332 .00310 .00458 .00322 .00321 .00552 .00322 .00302 .00510 .00434 .00240 Electric, gas, water, and sanitary services .01129 .00946 .01138 .01310 .00669 .00761 .01282 .01303 .01131 .01246 Wholesale and retal .00556 .00459 .00599	Other transportation equipment	· · · · · · · · · · · · · · · · · · ·			J									0. 0.
Transportation and warehousing 01028 0.01220 0.01214 0.0149 0.01467 0.01464 0.01048 0.01638 0.0223 Communications, except radio and TV 0.0030 0.0614 0.00656 0.00472 0.00552 0.0392 0.00406 0.00238 0.00210 0.00449 0.00249 Radio and TV broadcasting 0.01129 0.00466 0.0138 0.01310 0.00669 0.09644 0.01185 0.01303 0.01550 0.00409 0.00249 0.0240 0.0240 0.0240 0.0246 0.0128 0.00105 0.00130 0.01550 0.00499 0.00249 0.00529 0.0010 0.0102 0.00410 0.0951 0.0120 0.0113 0.0123 0.00113 0.00559 0.00600 0.0113 0.00559 0.00600 0.0113 0.00236 0.00410 0.00236 0.00519 0.0102 0.00240 0.00499 0.00236 0.00539 0.00410 0.00236 0.00519 0.0131 0.0559 0.00600 0.0113 0.0559 0.0060 0.0723 0.00421 0.00236 0.00539 0.00846 0.00730 0.00539 0.00	Optical, ophthalmic, and photographic equipment	.00043	.00056	.00043	.00059	.00063	.00042	.00079	.00015	.00070	.00230	.00098	.00052	0. 0.
Radio and TV broadcasting	Miscellaneous manufacturing Transportation and warehousing	.00035 .01028	.01220		.01549	.01284				.00028			.00015 .02223	0. 0.
Electric, gas, water, and sanitary services 01129 00946 01138 01310 00669 00946 01185 01303 01155 0.0689 0.01431 0.1226 Wholesale and retail trade 03152 .05145 0.4426 0.02186 .00928 .06170 .05282 .05344 .05965 .04489 .05110 .04028 .06170 .05282 .05344 .05965 .04480 .05112 .04608 Real estate and rental .00566 .00790 .006666 .00721 .01033 .00429 .00318 .009256 .00318 .00951 .01120 Business services .00171 .00223 .00221 .00332 .00221 .00332 .00221 .00333 .00421 .00266 .00539 .00805 .00706 .00818 Business services .00271 .02227 .02480 .00433 .00421 .00281 .00271 .01274 .00143 .00164 .00176 .00318 .00271 .00163 .000074 .00118 .00177 <td>Communications, except radio and TV Radio and TV broadcasting</td> <td></td> <td>.00614</td> <td>.00656</td> <td>.00472</td> <td>.00552</td> <td></td> <td>.00406</td> <td></td> <td>.00302</td> <td></td> <td></td> <td>.00240</td> <td>.0</td>	Communications, except radio and TV Radio and TV broadcasting		.00614	.00656	.00472	.00552		.00406		.00302			.00240	.0
Finance and insurance. 00560 .00790 .00606 .00721 .01035 .00881 .00995 .00600 .01103 .00410 .00951 .01120 Real estate and rental .00556 .00539 .00599 .01092 .00409 .00826 .00313 .00539 .00851 .00766 .00815 Hotels; personal and repair services (exc. auto) .00183 .00223 .00231 .00421 .00286 .00539 .00805 .00706 .00815 Business services .02071 .02227 .02430 .05438 .0421 .02081 .04079 .02642 .03391 .03010 .02144 Automobile repair and services .00277 .00146 .000747 .00143 .00043 .00643 .00144 .00168 .00717 .00538 Anusements .00027 .00146 .000240 .00007 .00118 .00146 .00146 .00145 .00146 .00146 .00146 .00146 .00146 .00160 .00160 .00160 .00116	Electric, gas, water, and sanitary services	.01129												0. 0.
Hotels; personal and repair services (exc. auto)	Finance and insurance	.00560	.00790	.00606	.00721	.01035	.00381	.00995	.00600	.01103	.00410	.00951	.01120	.0
Automobile repair and services .00277 .00146 .00240 .00077 .00141 .00142 .00143 .00146 .00219 Amusements .00009 .00028 .00007 .00011 .00002 .00007 .00012 .00007 .00143 .00144 .00166 .00219 Health, educ, & social serv. and nonprofit org. .00091 .00042 .00098 .00144 .00002 .00007 .00017 .00043 .00219 Federal Government enterprises .00119 .00249 .00098 .00144 .00052 .00063 .00012 .00032 .00063 .00112 .00135 .00036 State and local government enterprises .00127 .00021 .00032 .00022 .00022 .00022 .00023 .00025 .00032 .00023 .00025 .00017 .00031 .00235 State and local government enterprises .00124 .00217 .00073 .00011 .00736 .00024 .00023 .00025 .00012 .00023 .00025 .00111	Hotels; personal and repair services (exc. auto)	.00183	.00223	.00221	.00332	.01096	.00273	.00421	.00286	.00539	.00805	.00720	.00559	.0. 0.
Automobile repair and services .00277 .00146 .00240 .00077 .00141 .00142 .00143 .00146 .00219 Amusements .00009 .00028 .00007 .00011 .00002 .00007 .00012 .00007 .00143 .00144 .00166 .00219 Health, educ, & social serv. and nonprofit org. .00091 .00042 .00098 .00144 .00002 .00007 .00017 .00043 .00219 Federal Government enterprises .00119 .00249 .00098 .00144 .00052 .00063 .00012 .00032 .00063 .00112 .00135 .00036 State and local government enterprises .00127 .00021 .00032 .00022 .00022 .00022 .00023 .00025 .00032 .00023 .00025 .00017 .00031 .00235 State and local government enterprises .00124 .00217 .00073 .00011 .00736 .00024 .00023 .00025 .00012 .00023 .00025 .00111	Eating and drinking places	.00632	.00599	.00869	.00747	.01019	.00483	.00648	.00434	.02642 .00684	.00781	.01077	.00589	0. 0.
Health, educ., & social serv. and nonprofit org. .00091 .00042 .00098 .00144 .00055 .00089 .00085 .00085 .00063 .00112 .00135 .00036 Federal Government enterprises .00119 .00249 .00249 .00149 .00149 .00052 .00160 .00325 .00165 .00361 .00191 .00072 State and local government enterprises .00028 .00016 .00021 .00032 .00022 .00022 .00022 .00025 .00023 .00025 .00011 .00370 .00370 .00370 .00127 Noncomparable imports .00144 .00127 .00073 .00011 .00786 .00006 .00171 .00370 .00127 Verau used, and secondhand goods .00144 .00247 .00047 .00140 .00140 .00141 .00248 .00111 .00142 .00248 .00111 .00145 .00147	Automobile repair and services	.00009		.00028					.00118	.00144	.00106			0. 0.
State and local government enterprises .00028 .00016 .00023 .00021 .00032 .00022 .00023 .00023 .00023 .00023 .00023 .00022 .00023 .00013 .00033 .00032 .000248 .00111 .00049 .00037 .00127 .00047 .00144 .00144 .00144 .00144 .00144 .00144 .00144 .00144 .00144 .00144 .00144 .00144 <t< td=""><td>Health, educ., & social serv. and nonprofit org</td><td>.00091</td><td></td><td>.00098</td><td>.00164</td><td>.00055</td><td>.00080</td><td>.00039</td><td></td><td>.00063</td><td>.00112</td><td>.00135</td><td>.00036</td><td>0. 0.</td></t<>	Health, educ., & social serv. and nonprofit org	.00091		.00098	.00164	.00055	.00080	.00039		.00063	.00112	.00135	.00036	0. 0.
Scrap, used, and secondhand goods	State and local government enterprises	.00028	.00016	.00023	.00021	.00032	.00022	.00020	.00023	.00025	.00017	.00031	.00035	0.
Value added	Scrap, used, and secondhand goods	.00142	.00231	.00046	.00130			ļ	.00006	.00171			.00447	0. 0.
Indirect business to you 00000 01070 00007 01980 00701 00007 00007 01000 00007 01000	Compensation of employees	.40895	.36082	.33614	.45866	.31279	.26194	.36709	.23144	.46210 .27877	.40473	.37956	.33725	.2
Indirect business taxes	Indirect business taxes	.00883	.01079	.00827	.01389	.00704	.00790	.00781	.00637	.00603	.00885	.01057	.01002	0.

*Less than 0.000005. 1. To remove a source of instability in the measurement of direct requirements per dollar of industry output and total requirements per dollar of delivery to final demand, the Commodity Credit Corporation has been excluded from this industry.

Direct Requirements, 1977—Continued

industry output, at producers' prices]

Aircraft and parts	Other transportation equipment	Scientific and controlling instruments	Optical, ophthalmic, and photographic equipment	Miscellaneous manufacturing	Transportation and warehousing	Communications, except radio and TV	Radio and TV broadcasting	Electric, gas, water, and sanitary services	Wholesale and retail trade	Finance and insurance	Real estate and rental	Hotels; personal and repair services (exc. auto)	Business services	Eating and drinking places	Automobile repair and services	Amusements	Health, educ., and social serv. and nonprofit org.	Federal Government enterprises ¹	State and local government enterprises	Commodity number
60 .00002	61 .00002	62 .00002	63	64 0.00006 .00094 .00030 .00002	65 0.00001 .00003 (*) .00003	.00001	.00004	.00007	69 .00005 .00001 .00159	.00002	71	72 0.00005 .00050 .00083	73 0.00006 .00007 .00004	74 0.00516 .00805 .00861 .00001	75	76 0.00143 .02695 .00260	77 0.00052 .00054 .00008 .00050	78 0.00034 .00081 .00087 .00003	79 .00008 .00054	
.00013	.00013	.00007 .00006 .00002	.00042	.00012 .00129	.00003 .00063			.05743 .12451			.00002						.00010	.02944	.02695 .00026	
.00439 .00003 .00011 .00172	.00273 (*) .00015 .00041	.00354 .00303 .00937 .00730	.00376 .00011	.00535 .00147 .01643	.03662 .00001 .00058	.03645 (*)	.00352	.03515 (*) .00005	.00666 .00001 .00085 (*) .00015	.00271 .00001 .00005	.07208 (*) (*)	.01290 (*) .00209 .00318	.00343 .00058 .00049	.00621 (*) .28821	.00806	.02713 .01202 .00126	.02182 .00001 .01367 .00015	.01075 .00001 .02650	.20730 .00001 .00003	$ \begin{array}{c c} 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 16\\ 16\\ 16\\ 16\\ 16\\ 16\\ 16\\ 16\\ 16$
.00020 .00190 .00044 .00016 .00029 .00029	.00041 .01184 .00074 .00391 .03889 .00002 .00324 .00357	.00730 .00137 .00188 .00021	.00060 .00007 .00006	.01643 .00272 .00082 .00321 .02180 .00035	.00002 .00049 .00073 .00058 .00014 (*)	.00069	.00001	.00004	.00015 .00020 .00008 .00108 .00108	.00062	.00001 (*) .00001	.00318 .00042 .00822 .00843 .00145 .00004	.00001 .00022 .00005	.00019 .00056 .00016	.00024 .00084 (*)	.00077 .00323 .00126 .00260 .00006	.00015 .00008 .00207 .00200 .00217	.00010 .00005 .00268	.00012 .00046 .00014	$ \begin{array}{c} 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \\$
.00029 .00025 .00010 .00156 .00064 .00061	.00357 .00114 .00059 .00099 .00265 .00453 .00004	.00882 .00786 .00353 .00709 .00841 .00008 .00094 .00622	.02304 .00624 .00108 .06440 .00789	.01660 .01820 .00238 .01741 .02647 .00001	.00060 .00029 .00209 .00092	.00066 .00017 .00265 .00014	.00051 .00004 .00168 .00086	.00041 .00004 .00061 .00303	.00580 .00179 .00403 .00007	.00299 .00001 .01271 .00004 .00004	.00019 .00109 .00065	.00316 .00100 .00483 .00289 .01146	.00297 .00021 .01155 .00166	.00395 .00709 .00107 .00056 .00132	.00048 .00002 .00028 .00009	.00004 .00069 .00001 .00251 .00121	.00558 .00037 .02013 .01335	.00231 .00074 .00856 .00022	.00101 .00001 .00234 .01006	20 21 22 23 24 25 26 27 28 29 30 31
.00129 .00525 .00515	.00631 .00590 .01372	.03474	.00004 .00469 .03141 .00002	.02647 .00001 .00558 .00740 .02949 .00194 .00281 .00059 .00353 .02357 .05030	.00003 .00018 .06969 .00767	.00071 .00054 .00224 .00126	.00076 .00007 .00005	.07670 .00057 .00001	.01315 .00275	.00333 .00041 .00006	.00121 .00084	.00001 .00964 .00714	.00122 .00031 .00689 .00220	.00262 .00784 .00001	.00720 .01619 .00226	.00017 .00002 .00653 .00260 .00069 .00002	.01962 .00006 .00914 .00844 .00012	.00085 .00005 .01007 .00105 .00001 .00046	.00063 .00001 .03762 .00194	22 30 31 32 33 34 35 36 37
.00015 .00159 .02723 .03876	.00476 .00983 .09209 .02183 .04103	.00059 .00452 .00296 .01804 .03649 .00035 .00219	.00843 .00224 .00366 .02566		.00016 .00042 .00230 .00076	.00022 .00001 .00118	.00001	.00001 .00007 .00018 .00004	.00023 .00027 .00017 .00002 .00030 .00030	.00006 .00001 .00001	.00001 .00004 	.00067 .00202 .00320 .00005 .00011	.00003 .00015 .00011 .00002	.00158 .00117 .00012	.00420 .00883	.00009 .00013	.00012 .00094 .00020 .00004 .00004	.00006 .00004 .00003 .00028 .00012	.00006 .00262 (*) .00002 .00005	38 39 40
.00161 .01032 .00823	.00942 .01544 .03026 .00293 .00008	.02321 .01797	.00712 .00933	.00015 .00551 .01294 .00021	.00051 .00333 .00147 .00004	.00136 .00045 .00185	.00004	.00043 .00082 .00584 .00584	.00072 .00002 .00027	.00008	.00001 .00014	.00045	.00040 .00113 .00050 .00160 .00182 .00090	.00329 .00062	.03431 .02746 .00076	.00033	.00057 .00063 (*)	.00181 .00042 .00020 .00005 .00006	.00021 .00027 .00095 .00260 .00001	41 42 43 43
.01041 .00666 .01134 .00035	.00452 .00014 .02271 .01144 .00002 .00448	.00522 .00127 .00554 .00372	.00110 .00205 .00189	.00148 .00044 .00034 .00254 .00122 .00343	.00048 .00211 .00098 .00003 .00010	.00002 .00076 .00021	.00002 .00005	.00012 .00039 .00021 .00003 (*)	.00011 .00004 (*) .00053 .00008 .00075	.00003	.00001 .00001 .00001	.00039 .01281 .00073	.00078 .00053 .00171 .00042 .00342 .00019 .00073 .00030 .00053	.00078 .00175 .00173	.00014 .00006 .00727 .00777	.00001 .00010 .00052	.00005 .00008 .00007	.00010 .00041 .00040 .00022 .00039	.00040 .00018 .00512 .00002 .00026	$\begin{array}{r} 45\\ 46\\ 47\\ 48\\ 50\\ 51\\ 52\\ 53\\ 54\\ 55\\ 56\end{array}$
.00190 .04539 .01841 .00239 .00003 .17200	.01024 .00950 .00616 .00673 .00024 .00217 .02711 .00129	.01679 .00215 .00008 .03237 .00187 .00014	.00292 .00133 .00001 .04615 .00087 .00007	.00343 .00104 .00048 .00610 .00047 .00008	$\begin{array}{c} .00142\\ .00012\\ .00031\\ .00036\\ .00023\\ .00047\\ .00262\\ .00521\end{array}$	(*) .00016 .02368 .00504 .00016 .00275	.00006 .00246 .02060 .00001 .00006	(*) .00100 (*) .00080 .00004 .00002 .00005 .00021	.00075 .00001 .00009 .00012 .00020 .00020 .00003 .00026 .00088	.00031 .00011 .00015 .00038 .00010 .00016	.00009 .00011 (*) .00013 .00005	.00031 .00663 .00036 .00071 .01130 .00016 .00023	.00073 .00030 .00053 .00024 .00347 .00043 .00058	(*) .00042 .00002 .00009 .00014	.00243 .00232 .00122 .00548 .11703	(*) .00062 .00018 .00004 .00080	.00013 .00071 .00035 .00061 .00198 .00027	.00002 .00032 .00058 .00032 .00007 .00025 .00125	.00729 .00104 .00179 .00017 .00044 .00075 .00254	53 54 55 56 57 58 59 60
.00809 .00497 .00034 .01660 .00538	.00123 .03903 .00230 .00043 .00122 .01397 .00347	.03858 .00072 .00365 .01261 .00622	.00157 .04068 .00028 .01686 .00606	.00043 .00023 .00063 .05605 .02390 .00814	.00859 .00034 .00019 .00091 .13179 .00788	.00007 .00012 .00021 .00093 .00481 .01789	.00007 .00011 .01295 .00046 .00940 .00730 .00677	.00005 .00068 .00029 .00026 .01943 .00309	.00016 .00045 .00149 .01770 .01453	.00014 .00006 .00077 .00185 .00735 .01954	.00001 .00013 .00018 .00075 .00185	.00005 .00045 .00564 .01487 .00540 .01360	.00115 .00015 .00575 .00178 .01356 .01946 .00088	(*) .00004 .00202 .01542 .00521	.00009 .00015 .00003 .00037 .02342 .01056	.00316 .00001 .00419 .00367 .01542 .00990	.00003 .00897 .00361 .00293 .01293 .01151	.00069 .00007 .00059 .00197 .06275 .00605	.00230 .00020 .00061 .00108 .01470 .00307	61 62 63 64 65 66 67
.01005 .02102 .01234 .00503 .01189 .03395 .01909 .00185 .00041 .00132 .00315 .00018	.00805 .05092 .00450 .01219 .00148 .01679 .00314 .00168 .00090 .00031 .00104 .00104	.00942 .04497 .00545 .00812 .00230 .03246 .00880 .00886 .00135 .00226 .002257 .00029	.00730 .03452 .00632 .00654 .04195 .01008 .00257 .00076 .00385 .00146 .00021	.00952 .06119 .00903 .01452 .00338 .04587 .00710 .00267 .00052 .00272 .00379 .00029	.00826 .02050 .01399 .00223 .03115 .00806 .01856 .00025 .00152 .00117 .00085	.00852 .00440 .00862 .01613 .00211 .02530 .00320 .00198 .00004 .00102 .00321 .00070	$\begin{array}{c} .00789\\ .00481\\ .00848\\ .04147\\ .00756\\ .03416\\ .01541\\ .00065\\ .21527\\ .00253\\ .00097\\ .00125 \end{array}$.20291 .01052 .00732 .00454 .00148 .00917 .00102 .00135 .00006 .00097 .00297 .00297	.01938 .01294 .01457 .03881 .00405 .07650 .01703 .01433 .00203 .00203 .00099 .00449 .00054	.00985 .00326 .19555 .02274 .00497 .06738 .00944 .00297 .00002 .00391 .01702 .00021	.00739 .00244 .02526 .06456 .01900 .00265 .00055 (*) .00032 .00032 .00200 .00014	.03731 .02012 .01518 .03836 .01453 .04751 .00683 .00727 .00038 .00613 .00308 .00308	.00674 .00931 .00936 .02786 .00867 .07069 .01365 .00845 .00988 .00388 .00750 .00021	.02084 .05819 .01142 .02979 .00540 .03775 .00184 .00145 .00938 .00181 .00136 .00071	.01098 .10478 .00655 .01728 .00220 .02732 .00231 .00401 (*) .00055 .00052 .00067	.02047 .01083 .01525 .04580 .00986 .07805 .01138 .01286 .13554 .00567 .00197 .00097	.02090 .01508 .00904 .05821 .00649 .04782 .01103 .00621 .00204 .01807 .00557 .00062	.01105 .01285 .00258 .01790 .00299 .02675 .00432 .00619 .00137 .00051 .01061 .00057	.14507 .01476 .00433 .00761 .0197 .01885 .00700 .00216 .00002 .00103 .00267 .00019	68 69 70 71 72 73 74 75 76 77 78 79
.00114 .46183 .40112 .00726 .05345 1.00000	.00012 (*) .40240 .34245 .00656 .05340 1.00000	.00424 .52712 .36912 .00775 .15025 1.00000	.00119 .55690 .29467 .01016 .25207 1.00000	.02669 .42577 .27433 .01067 .14077 1.00000	.02279 .00038 .56508 .39296 .03437 .13775 1.00000	.01703 .80027 .34736 .10538 .34753 1.00000	.00374 .58754 .32415 .02053 .24286 1.00000	.00003 .42421 .11363 .04616 .26442 1.00000	.00097 .71526 .42141 .13829 .15557 1.00000	.00197 .60604 .40763 .04260 .15580 1.00000	.00001 .79007 .02420 .17289 .59298 1.00000	.00024 .00040 .64111 .35994 .03699 .24418 1.00000	.00202 .73580 .39541 .00966 .33073 1.00000	.00050 . .44353 .30302 .03893 .10159 1.00009	.00477 .52846 .25097 .02613 .25136 1.00000	.00226 .51613 .29146 .05578 .16888 1.00000	.00019 .63360 .51085 .00340 .11936 1.00000	.02589 .70075 .72027 .01952 1.00000	.00004 .45596 .32883 .12713 1.00000	80 81 VA 88 89 90 T

Table 4.—Commodity-by-Com

										[Tota	al require	ments, di	irect and	indirect,	per dollar
Commodity number	Each entry represents the output required, directly and indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Livestock and live- stock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Iron and ferroalloy ores mining	Nonferrous metal ores mining	Coal mining	Crude petroleum and natural gas	Stone and clay mining and quarrying	Chemical and fertilizer mineral mining	New construction	Maintenance and repair construction	Ordnance and accessories	Food and kindred products
	Commodity number	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1 2 3 4 5 6 7 8 9 10	Livestock and livestock products	$\begin{array}{c} 1.30704\\ .38679\\ .00341\\ .06605\\ .00100\\ .00138\\ .00535\\ .04511\\ .00240\\ .00136\end{array}$	0.03159 1.05203 .00075 .04344 .00088 .00195 .00482 .05997 .00411 .00253	$\begin{array}{c} 0.01302\\.01713\\1.00731\\.09534\\.00092\\.00113\\.00279\\.03413\\.00179\\.00099\end{array}$	$\begin{array}{c} 0.05431\\ .05428\\ .00271\\ 1.01675\\ .00086\\ .00174\\ .00443\\ .05235\\ .00189\\ .00215\\ \end{array}$	$\begin{array}{c} 0.00102\\.00105\\.00078\\.00076\\1.08840\\.01514\\.02094\\.05443\\.00691\\.00086\end{array}$	$\begin{array}{c} 0.00122\\.00123\\.00166\\.00099\\.00440\\1.09584\\.01555\\.04432\\.00247\\.00121\end{array}$	$\begin{array}{c} 0.00077\\.00093\\.00100\\.00202\\.00129\\1.17763\\.02949\\.00118\\.00055\end{array}$	0.00099 .00088 .00050 .00122 .00121 .00065 .00352 1.06378 .00149 .00033	$\begin{array}{c} 0.00117\\.00112\\.00052\\.00072\\.00215\\.00145\\.01157\\.04586\\1.04175\\.00071 \end{array}$	$\begin{array}{c} 0.00176\\.00188\\.00070\\.00192\\.00235\\.00334\\.01630\\.06385\\.01376\\1.04654\end{array}$	$\begin{array}{c} 0.00159\\.00173\\.01257\\.00320\\.00398\\.00366\\.00805\\.03616\\.01143\\.00085\end{array}$	$\begin{array}{c} 0.00156\\.00165\\.00493\\.00708\\.00318\\.00312\\.00661\\.03943\\.01797\\.00082 \end{array}$	0.00173 .00154 .00087 .00062 .00386 .00441 .00760 .01764 .00104 .00044	0.30272 .19922 .01075 .02171 .00148 .00160 .00610 .03395 .00224 .00114
11 12 13 14 15 16 17 18 19 20	Ordnance and accessories Food and kindred products Tobacco manufactures Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings Apparel Miscellaneous fabricated textile products	.03332 .00004 .34752 .00001 .00227 .00230 .00039 .00097 .00544	.03174 .00003 .01268 (*) .00213 .00251 .00026 .00105 .00464	.06916 .00108 .02937 (*) .00416 .01113 .00043 .00202 .00631	.02934 .00004 .03899 (*) .00425 .00456 .000511 .00511 .00511	.03204 .00006 .00376 (*) .00183 .00119 .00034 .00082 .00673	.02138 .00006 .00452 (*) .00186 .00105 .00053 .00038 .00038 01550	.01914 .00005 .00275 (*) .00369 .00074 .00104 .00104 .00024 .00929	.07096 .00003 .00368 (*) 00060 .00051 .00041 .00016 .00395	.02297 .00011 .00442 (*) .00177 .00088 .00110 .00054 .00381	.03362 .00005 .00649 (*) .00407 .00074 .00069 .00038 .00502	1.00000 .01903 .00023 .00530 (*) .00402 .00726 .00073 .00060 .12675	1.01628 .00011 .00467 (*) .00348 .00509 .00056 .00082 .04844	.01765 1.05245 .00667 (*) .00228 .00094 .00134 .00044 .00668	.02673 .00006 1.29676 .00022 .00250 .00182 .00047 .00087 .00729
21 22 23 24 25 26 27 28 29 30	Printing and publishing	.00126 .00003 .00006 .01786 .01062 .00571 .07913 .00648 .00600 .00136	.00257 .00002 .00005 .00792 .00390 .00275 .15560 .00513 .00147 .00111	.00022 .00014 .00021 .00548 .00285 .00202 .05855 .00587 .00099 .00216	$\begin{array}{c} .00157\\ .00003\\ .00006\\ .01179\\ .01040\\ .00355\\ .13166\\ .00604\\ .00169\\ .00118 \end{array}$.00008 .00003 .00011 .00584 .00214 .00266 .04666 .00703 .00082 .00138	.00008 .00002 .00005 .00594 .00218 .00270 .06757 .00692 .00089 .00119	.00007 .00002 .00004 .00492 .00151 .00240 .02897 .00464 .00058 .00088	.00004 .00004 .00099 .00294 .00093 .00161 .01688 .00167 .00043 .00169	.00007 .00002 .00007 .01321 .00238 .00370 .03166 .00528 .00091 .00101	00007 .00002 .00006 .01044 .00250 .00379 .08651 .00503 .00171 .00128	.00020 .00053 .00197 .01362 .00388 .00435 .02822 .00949 .00131 .01044	$\begin{array}{c} .00019\\ .00044\\ .00123\\ .01228\\ .00369\\ .00275\\ .03114\\ .01075\\ .00132\\ .01877\end{array}$.00142 .00159 .00005 .00800 .00465 .00541 .02053 .00900 .00071 .00121	.00118 .00002 .00005 .03756 .03087 .01094 05758 .00791 .00846 .00195
31 32 33 34 35 36 37 38 39 40	Rubber and miscellaneous plastics products Leather tanning and finishing Footwear and other leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing Primary nonferrous metals manufacturing Metal containers	.00015 .00071 .00660 .00370 .01500 .01033	.06508 .01059 .00003 .00008 .00074 .00407 .01014 .00920 .00218 .00240	.04269 .00720 .00009 .00032 .00130 .00519 .01449 .00924 .00264 .00588	.05714 .01110 .00012 .00037 .00151 .00410 .01068 .00906 .00279 .00217	.05259 .02593 .00004 .00007 .00104 .00624 .06594 .01768 .00092 .00347	.04372 .02461 .00003 .00006 .00091 .01143 .06911 .02027 .00108 .00271	.03643 .01483 .00002 .00004 .00054 .00894 .03585 .01504 .00061 .00280	.01484 .00389 .00002 .00063 .00496 .02143 .00713 .00046 .00555	.05478 .01678 .00003 .00093 .01460 .03662 .01649 .00086 .00613	.05439 .01080 .00003 .00006 .00090 .00434 .03391 .01730 .00197 .00603	.04783 .01824 .00005 .00012 .00303 .08007 .07051 .05136 .00137 .07297	$\begin{array}{c} .05344\\ .02683\\ .00004\\ .00009\\ .00356\\ .05771\\ .05552\\ .04250\\ .00183\\ .06341 \end{array}$	$\begin{array}{c} .01837\\ .01793\\ .00004\\ .00008\\ .00189\\ .00515\\ .06741\\ .06679\\ .00066\\ .00256\end{array}$	$\begin{array}{c} .03713\\ .02133\\ .00006\\ .00024\\ .02237\\ .00371\\ .02474\\ .01644\\ .04190\\ .00200\\ \end{array}$
41 42 43 44 45 46 47 48 49 50	Other fabricated metal products Engines and turbines	.00814 .00194 .01083	.00157 .00598 .00173 .00919 .00107 .00025 .00079 .00142 .00247 .00215	.00213 .00915 .00391 .00297 .00076 .00034 .00098 .00076 .00309 .00175	.00251 .00690 .00469 .00403 .00092 .00024 .00102 .00135 .00213 .00202	$\begin{array}{r} .00978\\ .02650\\ .01657\\ .00022\\ .04153\\ .00676\\ .00324\\ .00066\\ .01680\\ .00545\end{array}$	$\begin{array}{r} .01095\\ .02165\\ .01403\\ .00021\\ .03890\\ .00406\\ .00348\\ .00082\\ .01386\\ .00915\end{array}$	$\begin{array}{c} .01334\\ .01165\\ .01172\\ .00021\\ .05806\\ .00395\\ .00225\\ .00045\\ .01842\\ .00692 \end{array}$.00146 .01059 .00418 .00010 .00586 .00032 .00138 .00027 .00531 .00400	.00641 .01646 .01292 .00022 .04325 .00654 .00316 .00053 .01434 .00770	.00658 .00962 .01416 .00023 .02484 .00269 .00184 .00229 .00956 .00515	.00753 .03380 .00154 .00029 .00389 .00389 .00388 .00084 .00873 .00384	.00633 .03744 .00139 .00017 .00256 .00383 .00282 .00069 .00545 .00329	.01300 .01866 .00349 .00015 .00102 .00030 .01069 .00053 .01092 .01054	$\begin{array}{r} .00478\\ .00902\\ .00126\\ .00368\\ .00090\\ .00027\\ .00162\\ .00190\\ .00235\\ .00275\end{array}$
51 52 53 54 55 56 57 58 59 60	Household appliances	.00438	.00025 .00079 .00170 .00021 .00075 .00040 .00082 .00548 .00322 .00029	.00022 .00141 .00202 .00065 .00144 .00076 .00073 .00181 .00454 .00047	.00035 .00095 .00161 .00022 .00098 .00051 .00091 .00371 .00882 .00103	.00031 .00110 .00662 .00022 .00111 .00062 .00110 .00125 .03037 .00051	.00031 .00076 .00830 .00018 .00119 .00055 .00110 .00241 .00764 .00046	.00028 .00052 .00892 .00014 .00140 .00037 .00093 .00094 .00385 .00033	.00018 .00114 .00717 .00036 .00144 .00045 .00064 .00049 .00150 .00016	.00041 .00073 .00796 .00021 .00108 .00049 .00116 .00163 .01538 .00041	.00039 .00101 .00710 .00025 .00114 .00046 .00106 .00109 .00585 .00042	$\begin{array}{c} .00061\\ .01271\\ .01169\\ .00328\\ .01563\\ .00390\\ .00257\\ .00169\\ .00463\\ .00053\end{array}$.00034 .01470 .01101 .00428 .01419 .00324 .00197 .00139 .00372 .00046	.00096 .00059 .01022 .00021 .00159 .08103 .04515 .00108 .00484 .04436	.00038 .00095 .00170 .00024 .00079 .00052 .00094 .00186 .00325 .00047
61 62 64 65 66 67 68 69 70	Scientific and controlling instruments. Optical, ophthalmic, and photographic equipment Miscellaneous manufacturing. Transportation and warehousing Communications, except radio and TV. Radio and TV broadcasting Electric, gas, water, and sanitary services. Wholesale and retail trade	.11411 .04609	.00077 .03552 .00747 .00005 .04635 .07153 .02808	.03231 .00078 .00053 .00075 .02787 .00468 .00003 .02075 .05900 .01517	.00128 .00052 .00110 .00134 .04925 .00612 .00006 .04179 .08893 .02753	00095 00080 00071 00416 04769 00603 00006 15654 06981 01752	.00143 .00115 .00076 .00168 .04075 .00621 .00005 .09641 .06216 .02587	.00035 .00082 .00058 .00107 .02434 .00483 .00005 .03869 .05325 .01747	.00020 .00088 .00040 .00072 .01408 .00397 .00003 .02950 .02317 .01536	.00046 .00066 .00092 .00253 .03589 .00670 .00007 .08231 .05478 .02728	.00052 .00081 .00083 .00211 .04049 .00674 .00007 .17313 .04956 .03857	.00112 .00356 .00125 .00335 .05920 .01140 .00014 .03501 .12928 .02477	.00071 .00386 .00071 .00278 .05011 .01041 .00006 .03051 .11764 .01834	.00069 .00200 .00415 .00152 .03603 .01051 .00007 .03719 .05035 .01393	.00105 .00066 .00092 .00105 .06515 .00979 .00007 .04723 .11623 .02684
71 72 74 74 76 70 71 76 79 80	Business services Eating and drinking places Automobile repair and services. Amusements Health, educ., & social serv. and nonprofit org Federal Government enterprises. State and local government enterprises. Noncomparable imports.	05235 .00763 .01087 .00274 .01121 .00360 .00061 .01128	00305 04318 00551 00644 00193 00156 00240 00032 00294	.02030 .00398 .03071 .00905 .00791 .00299 .00218 .00244 .00065 .00269	.06759 .00455 .05193 .01411 .01867 .02509 .00333 .00562 .00143 .00413	.02979 .00345 .05194 .00733 .01664 .00108 .00248 .00367 .00074 .00376	.03523 .00394 .04777 .00804 .02103 .00101 .00273 .00474 .00090 .00724	.03497 .00287 .04951 .00535 .00894 .00103 .00186 .00215 .00032 .00218	.10865 .00200 .02831 .00828 .00453 .00073 .00107 .00152 .00025 .00343	.03916 .00832 .06151 .00904 .00967 .00152 .00208 .00340 .00133 .00268	.03360 .00598 .06329 .01181 .01343 .00160 .00248 .00562 .00132 .00386	$\begin{array}{c} .02238\\ .00518\\ .11404\\ .00910\\ .01147\\ .00220\\ .00154\\ .00373\\ .00063\\ .00382 \end{array}$.01944 .00380 .04544 .00719 .00752 .00126 .00111 .00270 .00052 .00341	$\begin{array}{c} .02010\\ .00632\\ .06085\\ .01577\\ .00466\\ .00128\\ .00155\\ .00341\\ .00057\\ .00312 \end{array}$	$\begin{array}{c} .04713\\ .00581\\ .06813\\ .00944\\ .00883\\ .00195\\ .00392\\ .00425\\ .00120\\ .03346\end{array}$
81	Scrap, used, and secondhand goods	.00137	.00106	.00112	.00118	.00463	.00744	.00257	.00107	.00432	.00889	.00483	.00389	.00521	.00217

See footnotes at end of table.

modity Total Requirements, 1977

of delivery to final demand, at producers' prices]

Tobacco manufactures	Broad and narrow fabrics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products, except containers	Wood containers	Household furniture	Other furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Printing and publishing	Chemicals and selected chemical products	Plastics and synthetic material	Drugs, cleaning and toilet preparations	Paints and allied products	Petroleum refining and related industries	Rubber and miscella- neous plastics products	Leather tanning and finishing	Commodity number
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
0.00835 .25269 .00068 .01068 .00047 .00076 .00339 .02359 .00136 .00083	0.01187 .10214 .00085 .00550 .00104 .00253 .01020 .05442 .00201 .00294	.00202 .00348	0.00528 .03072 .00789 .00278 .00064 .00136 .03091 .00111 .00138	0.00766 .4254 .00113 .00280 .00086 .00162 .00674 .03505 .00134 .00174	0.00313 .00378 .14143 .01594 .00142 .00127 .00504 .03125 .00158 .00080	0.00268 .00268 .04909 .00620 .00137 .00088 .00573 .02864 .00133 .00055	0.00418 .01008 .01816 .00311 .00215 .00756 .02797 .00173 .00096	0.00216 .00291 .01002 .00181 .00888 .00347 .01349 .02607 .00193 .00091	0.00417 .00545 .01342 .00256 .00099 .00186 .01558 .05864 .00526 .00211	0.00268 .00333 .00594 .00152 .00142 .00192 .00996 .04639 .00292 .00161	0.00349 .00337 .00293 .00116 .00070 .00121 .00525 .02694 .00154 .00107	0.00492 .00660 .00171 .00372 .00427 .01415 .18130 .00694 .02104	0.00415 .00993 .00137 .00262 .00249 .00769 .01685 .11402 .00380 .00897	0.01212 .01096 .00172 .00199 .00163 .00302 .00650 .04416 .00266 .00305	$\begin{array}{c} 0.01075\\.00909\\.00421\\.00251\\.00422\\.00808\\.00976\\.08814\\.00925\\.00679\\\end{array}$	0.00150 .00138 .00065 .00125 .00130 .00130 .00136 .00614 .68328 .00415 .00124	0.00312 .00593 .00140 .00139 .00210 .00316 .00972 .05668 .00269 .00340	$\begin{array}{c} 0.10572\\ .07005\\ .00410\\ .00816\\ .00103\\ .00190\\ .00635\\ .04293\\ .00188\\ .00360\\ \end{array}$	1 2 3 4 5 6 7 8 9 10
.01417 .00005 .00601 1.25721 .00230 .00163 .00041 .00037 .00530	.02829 .00006 .01063 (*) 1.46526 .01618 .00226 .00077 .00538	.02575 .00005 .01227 (*) .25979 1.06037 .01742 .00216 .00723	.01983 .00006 .01046 (*) .39273 .00854 1.26189 .01711 .00453	.02153 .00005 .01309 (*) .47152 .09288 .01888 1.03096 .00710	.02796 .00020 .00856 (*) .00346 .00535 .00091 .00059 1.44506	.02681 .00010 .00922 (*) .00261 .00237 .00105 .00042 .49556	.02381 .00010 .01297 (*) .10352 .02339 .00599 .00355 .18244	.02398 .00011 .00695 (*) .01255 .02596 .00212 .00094 .10011	.03257 .00006 .01552 .00005 .02687 .00933 .00116 .00046 .12776	.03046 .00005 .01006 .00002 .01204 .00430 .00081 .00036 .05563	.01946 .00006 .01337 .00001 .00807 .00443 .00066 .00045 .02491	.03998 .00006 .01776 .00001 .00275 .00131 .00050 .00084 .00879	.03557 .00006 .01401 .01563 .00272 .00074 .00059 .00848	.02163 .00011 .04110 .00001 .00361 .00233 .00055 .00049 .00722	.03159 .00008 .04410 .0003 .00313 .00116 .00058 .00063 .00617	.06312 .00004 .00565 (*) .00101 .00088 .00042 .00042 .000489	.02568 .00007 .00920 (*) .03418 .02681 .00144 .00061 .01117	.02433 .00005 .45205 .00001 .00180 .00101 .00059 .00055 .00486	$ \begin{array}{c} 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ \end{array} $
.00108 .00001 .00002 .03158 .01034 .01667 .04875 .00845 .00197 .00063	.00032 .00002 .02107 .01578 .00427 .16261 .22453 .00549 .00166	.00015 .00002 .02918 .01420 .00460 .18988 .27691 .00513 .00202	.00013 .00002 .00003 .01926 .01139 .00461 .07425 .10904 .00580 .00110	.00016 .00002 .02382 .01749 .00550 .09551 .11934 .00362 .00128	.00020 .00004 .00821 .00526 .00308 .04360 .00772 .00083 .00751	1.00883 .00003 .00005 .03672 .06174 .00538 .02843 .01255 .00088 .00344	$\begin{array}{r} .00104\\ 1.00222\\ .00005\\ .01892\\ .01700\\ .00569\\ .04870\\ .04870\\ .04004\\ .00151\\ .01292\end{array}$.00060 .00037 1.00773 .01708 .01636 .00477 .04238 .02155 .00101 .01073	.00013 .00003 .00009 1.23393 .02138 .00507 .08879 .04560 .00358 .00217	.00008 .00003 .51626 1.05392 .00504 .07921 .03319 .00206 .00355	.00006 .00002 .00004 .22657 .01003 1.13135 .05610 .01390 .00142 .00141	.00010 .00003 .02489 .00860 .00540 1.31548 .01880 .00763 .00345	$\begin{array}{r} .00010\\ .00003\\ .00005\\ .03646\\ .01457\\ .00464\\ .46903\\ 1.07644\\ .00880\\ .00393\end{array}$.00020 .00002 .00004 .03686 .02922 .01037 .15933 .01766 1.07608 .00323	$\begin{array}{r} .00011\\ .00003\\ .00005\\ .02274\\ .01426\\ .01095\\ .38224\\ .08146\\ .00654\\ 1.01551\end{array}$.00004 .00004 .00009 .00909 .00484 .00259 .06042 .00348 .00516 .00178	.00024 .00005 .03723 .01886 .00421 .17874 .21758 .00325 .00234	.00043 .00002 .00004 .02216 .02038 .00673 .13272 .00577 .03340 .00135	21 22 23 24 25 26 27 28 29 30
.02623 .03147 .00002 .00065 .00062 .00202 .00202 .00650 .00484 .00094 .00109	.04241 .02572 .00012 .00042 .00572 .00382 .01116 .01100 .00313 .00218	.04061 .04571 .00014 .00015 .00497 .00398 .01325 .01942 .00366 .00209	.02725 .01735 .00605 .00034 .00213 .00263 .00796 .00800 .00178 .00150	.02892 .04125 .00958 .00026 .00320 .00305 .01114 .00882 .00215 .00168	.03641 .01449 .00013 .00043 .00261 .01124 .02192 .01315 .00148 .00683	.03414 .00937 .00006 .00019 .00132 .00832 .02295 .00892 .00106 .00377	.02852 .06057 .00398 .00015 .00729 .00948 .05328 .02662 .00198 .00244	.02616 .05030 .00045 .00010 .00316 .00877 .16150 .04501 .00151 .00226	.06386 .03654 .00006 .00013 .00141 .00684 .01371 .01329 .00211 .00283	.05065 .02102 .00004 .00011 .00098 .00527 .02237 .01738 .00194 .00244	.02747 .01924 .00018 .00012 .00101 .00306 .01038 .01014 .00148 .00157	.06707 .01753 .00005 .00018 .00191 .00670 .02940 .04400 .01307 .00335	.06092 .02979 .00004 .00015 .00200 .00580 .01999 .02581 .00971 .00277	.03476 .04481 .00004 .00013 .01811 .00383 .02175 .01826 .02526 .00194	$\begin{array}{c} .05707\\ .01517\\ .00008\\ .00016\\ .00273\\ .01658\\ .04281\\ .04437\\ .06168\\ .00243\end{array}$	$\begin{array}{c} 1.10219\\ .00683\\ .00003\\ .00011\\ .00107\\ .00688\\ .02060\\ .00963\\ .00489\\ .00481\end{array}$.04248 1.05995 .00017 .00025 .00700 .00788 .03017 .01814 .00333 .00286	.03878 .01170 1.05690 .00013 .00859 .00563 .01373 .01118 .01642 .00179	31 32 33 34 35 36 37 38 39 40
.00113 .00939 .00072 .00233 .00060 .00021 .00092 .00085 .00142 .00136	.00169 .00502 .00139 .00109 .00131 .00142 .00178 .01023 .00285 .00392	.00198 .00552 .00140 .00048 .00132 .00049 .00207 .01464 .00321 .00424	.00144 .00432 .00088 .00044 .00075 .00059 .00127 .00563 .00182 .00272	.00190 .00441 .00100 .00054 .00089 .00071 .00164 .00196 .00333	.01429 .03485 .00142 .00058 .00109 .00097 .00481 .00193 .00293 .00539	.00618 .01911 .00130 .00053 .00088 .00049 .00414 .00333 .00206 .00691	.01092 .06687 .00121 .00034 .00116 .00045 .00359 .00278 .00271 .00495	.02182 .04417 .00180 .00027 .00162 .00045 .00676 .00139 .00606 .00777	.00314 .01682 .00151 .00025 .00168 .00041 .00211 .00578 .00309 .00373	.00242 .01494 .00136 .00019 .00120 .00031 .00587 .00722 .00266 .00451	.00188 .00768 .00084 .00021 .00076 .00024 .00123 .00677 .00167 .00214	.00288 .01005 .00289 .00030 .00383 .00052 .00217 .01049 .00777 .00372	.00232 .00832 .00201 .00028 .00249 .00041 .00193 .00691 .00606 .00352	.00679 .01290 .00112 .00048 .00131 .00034 .00197 .00251 .00448 .00269	.00409 .01156 .00170 .00032 .00231 .00041 .00213 .00365 .00413 .00360	.00177 .01114 .00338 .00014 .00448 .00036 .00140 .00086 .00598 .00348	.00558 .01157 .00163 .00021 .00144 .00036 .00423 .00487 .00346 .00373	.00256 .00560 .00109 .00138 .00101 .00024 .00153 .00171 .00202 .00307	41 42 43 44 45 46 47 48 49 50
.00037 .00040 .00092 .00013 .00043 .00031 .00082 .00150 .00185 .00025	.00040 .00085 .00208 .00023 .00087 .00059 .00141 .00090 .00237 .00036	$\begin{array}{c} .00036\\ .00085\\ .00239\\ .00022\\ .00084\\ .00051\\ .00120\\ .00051\\ .00225\\ .00047\end{array}$.00038 .00064 .00141 .00113 .00068 .00069 .00119 .00052 .00211 .00028	.00042 .00069 .00158 .00072 .00074 .00054 .00112 .00055 .00258 .00258 .00033	.00028 .00165 .00288 .00026 .00127 .00051 .00083 .00099 .00543 .00046	.00038 .00101 .00203 .00024 .00105 .00052 .00138 .00061 .00383 .00048	.00046 .00081 .00244 .00024 .00092 .00094 .00168 .00056 .00361 .00045	.00075 .00128 .00662 .00025 .00120 .00086 .00165 .00082 .00893 .00066	.00038 .00091 .00222 .00026 .00096 .00052 .00107 .00054 .00310 .00054	.00031 .00080 .00222 .00024 .00087 .00054 .00092 .00052 .00299 .00063	.00060 .00062 .00151 .00022 .00067 .00073 .00182 .00051 .00257 .00046	.00042 .00210 .00448 .00029 .00108 .00057 .00136 .00054 .00277 .00061	.00041 .00145 .00305 .00026 .00098 .00053 .00128 .00047 .00268 .00054	.00082 .00079 .00199 .00026 .00076 .00062 .00174 .00058 .00250 .00041	.00045 .00115 .00278 .00028 .00088 .00061 .00118 .00051 .00390 .00060	.00027 .00115 .00558 .00035 .00139 .00055 .00082 .00082 .00051 .00346 .00044	$\begin{array}{r} .00044\\ .00083\\ .00247\\ .00021\\ .00156\\ .00063\\ .00187\\ .00061\\ .00326\\ .00074\end{array}$.00044 .00080 .00151 .00026 .00078 .00045 .00092 .00084 .00241 .00243	51 52 53 55 55 56 57 58 59 60
.00038 .00039 .00093 .00073 .02693 .00562 .00009 .02375 .04023 .02120	.00058 .00094 .00102 .00120 .04816 .01291 .00008 .07612 .09927 .01831	$\begin{array}{c} .00071\\ .00083\\ .00122\\ .00131\\ .06355\\ .00944\\ .00007\\ .07095\\ .09093\\ .01782\end{array}$.00071 .00067 .00093 .01983 .03675 .01766 .00007 .04457 .08964 .01926	.00060 .00075 .00098 .00363 .04451 .01152 .00007 .05183 .09957 .01949	.00514 .00080 .00077 .00129 .05594 .00674 .00005 .04087 .04087 .01996	.00226 .00117 .00102 .00124 .06435 .00935 .00935 .00907 .04234 .10664 .03327	.00121 .00123 .00108 .00260 .05561 .01264 .00008 .04317 .09888 .02975	.00118 .00099 .00102 .00114 .05464 .01086 .00008 .04750 .08298 .02612	.00122 .00104 .00111 .00113 .07674 .00883 .00006 .08862 .10505 .01741	.00117 .00089 .00106 .00113 .09184 .00890 .00006 .06271 .07628 .01593	$\begin{array}{c} .00073\\ .00055\\ .01122\\ .00492\\ .05617\\ .01603\\ .00009\\ .03878\\ .07698\\ .02159\end{array}$.00094 .00177 .00110 .00119 .08370 .00921 .00008 .11811 .07739 .02214	.00085 .00157 .00107 .00106 .07557 .00865 .00008 .10043 08091 .01912	$\begin{array}{c} .00079\\ .00159\\ .00198\\ .00202\\ .05577\\ .01193\\ .00020\\ .04609\\ .07515\\ .02241 \end{array}$.00103 .00104 .00108 .00230 .08541 .00972 .00008 .06346 .09020 .02261	.00062 .00104 .00064 .00083 .05754 .00680 .00005 .06026 .04202 .02161	.00074 .00150 .00109 .00150 .06511 .00874 .00007 .06627 .07103 .01868	.00078 .00077 .00101 .00104 .06138 .00837 .00006 .05329 .11349 .01986	61 62 63 65 66 67 68 69 70
.03763 .00284 .08636 .00593 .00563 .00179 .00153 .00506 .00049 .00226 .00098	.03343 .00509 .07885 .01280 .00762 .00172 .00298 .00471 .00103 .00488 .00262	.02754 .00524 .06688 .01167 .00733 .00145 .00199 .00507 .00111 .01946 .00870	.02818 .00676 .06466 .01236 .00704 .00146 .00228 .00782 .00782 .0073 .00449	.03142 .00832 .06713 .01251 .00723 .00148 .00472 .00567 .00065 .01054 .00227	.01875 .00425 .04265 .00938 .00982 .00138 .00268 .00304 .00052 .00311 .00165	.02345 .00633 .06087 .01565 .00996 .00150 .00505 .00545 .00080 .00311 .00176	.02676 .00688 .07626 .01334 .01109 .00274 .00369 .00562 .00068 .00586	.02568 .00629 .07648 .01178 .01041 .00208 .00290 .00612 .00055 .00463 .00721	.02497 .00669 .05994 .00991 .00878 .00144 .00205 .00388 .00148 .00531 .01766	.02330 .00521 .05158 .01082 .00918 .00120 .00153 .00399 .00109 .00505 .00853	.03590 .00975 .08602 .02590 .00860 .00211 .00306 .01949 .00073 .00434	.04041 .00586 .07096 .01403 .00730 .00170 .00260 .00398 .00090 .00997 .00437	.03544 .00607 .07318 .01371 .00850 .00163 .00260 .00368 .00082 .00765 .00280	03935 .00745 .18861 .02075 .00717 .00341 .00545 .00612 .00086 .01355 .00224	.03215 .00767 .07830 .01684 .00873 .00180 .00294 .00567 .00055 .01381 .00385	.08118 .00285 .04852 .01035 .00590 .00108 .00182 .00277 .00060 .00612 .00131	.02813 .00520 .01266 .00705 .00141 .00299 .00371 .00064 .08151	.03014 .01247 .05956 .00992 .00708 .00150 .00248 .00466 .00358 .01452 .01452	71 72 73 74 75 76 77 78 79 80 81

Table 4.—Commodity-by-Commodity

[Total requirements, direct and indirect, per dollar of

Apple Experiment CommonRy means at the burners at the											[100011					dollar of
1 Lewstock and livestock products 0.0212 0.0015	Commodity number	indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the	Footwear and other leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metals manufacturing	Metal containers	Heating, plumbing, and structural metal products	Screw machine products and stampings	Other fabricated metal products	Engines and turbines	Farm and garden machinery	Construction and mining machinery	Materials handling machinery and equipment	Metalworking machinery and equipment
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Commodity number	34	35	36	37	38	39	40	41	42	43	44	45	46	47
12 Maintenance and repair construction 40200 0211 00100 00100 000000 00000 00000	1 2 3 4 5 6 7 8 9 10	Other agricultural products Forestry and fishery products	.02070 .00242 .00256 .00090 .00140 .00486 .02709	.00151 .00263 .00103 .00088 .00182 .00923 .04505 .02231	.00258 .00174 .00105 .00198 .00261 .02347 .04825 .06702	.00116 .00084 .06831 .00607 .08045 .04386 .00664	.00158 .00111 .00092 .00265 .09931 .01200 .04684 .00203	.00176 .00102 .00086 .02150 .01651 .02848 .03580 .00294	.00143 .00114 .00082 .01645 .01276 .02203 .02708 .00277	.00155 .00106 .00077 .01968 .00659 .02591 .02621 .00263	.00157 .00145 .00084 .01302 .00874 .01899 .02930 .00259	.00118 .00061 .01236 .00707 .01708 .02345 .00230	.00130 .00097 .00071 .01188 .00352 .01662 .02071 .00191	.00123 .00070 .00066 .01426 .00333 .01935 .02112 .00237	.00133 .00081 .00067 .01177 .00454 .01615 .02188 .00195	.00122 .00065 .00055 .00820 .00433 .01214 .02006 .00199
22 Househud furniture	12 13 14 15 16 17 18 19	Maintenance and repair construction Ordnance and accessories Food and kindred products Tobacco manufactures Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings.	.01855 .00005 .09567 (*) .07269 .04731	.00006 .00555 (*) .00229 .00096 .00093 .00042	.00102 .00725 (*) .01056 .00116 .00078 .00043	.00036 .00446 (*) .00162 .00084 .00076 .00062	.00006 .00551 (*) .00301 .00105 .00054 .00038	.00014 .00680 .00051 .00168 .00080 .00066 .00041	.00021 .00588 (*) .00179 .00099 .00064 .00046	.00017 .00569 (*) .00284 .00123 .00065 .00259	.00014 .00584 (*) .00282 .00152 .00091 .00042	.00016 .00486 (*) .00187 .00104 .00084 .00072	.00010 .00487 (*) .00264 .00198 .00054 .00103	.00013 .00500 (*) .00208 .00154 .00052 .00077	.00011 .00560 (*) .00188 .00151 .00056 .00038	.00039 .00522 (*) .00162 .00086 .00055 .00055
38) Metal containers	22 23 24 25 26 27 28 29	Household furniture Other furniture and fixtures	.00002 .00003 .02964 .02153 .00653 .07476 .05415 .01028 .00117	.00004 .00004 .03386 .05411 .00522 .07707 .00631 .00098	.00005 .00007 .02761 .00774 .00399 .05648 .01758 .00192	.00003 .00013 .00667 .00311 .00314 .05607 .00468 .00085	.00003 .00005 .00912 .00498 .00385 .06738 .02561 .00106	.00003 .00007 .01332 .00677 .01948 .04268 .01161 .00172	.00004 .00009 .01011 .00736 .00402 .03141 .00796 .00131	.00003 .00014 .01397 .00931 .00406 .03529 .00964 .00136	.00004 .00006 .01444 .01220 .00434 .05602 .01533 .00141	.00005 .00011 .01024 .00641 .00362 .02214 .00620 .00063	.00004 .00011 .00856 .00586 .00364 .02448 .01120 .00065	.00003 .00009 .00710 .00321 .00372 .02316 .00807 .00061	.00003 .00046 .00835 .00375 .00427 .02226 .00849 .00063	.00003 .00007 .00828 .00676 .00366 .02491 .00702 .00059
42 Degrees and turchness .00083 .00165 .00227 .00037 .00027 .00036 .00021 .00021 .00036 .00021 .00036 .00021 .00036 .00021 .00031 .00035 .00032 .00031 .00031 .00035 .00032 .00031 .00031 .00032 .00031 .00032 .00031 .00032 .00031 .00032 .00032 .00032 .00032 .00032 .00032 .00032 .00032 .00032 .00032 .00031 .00133 .00232 .00032 .00031 .00133 .00332 .00032 .00031 .00133 .00336 .00032 .00041 .00131 .00136 .00233 .00041 .00131 .00136 .00233 .00041 .00131 .00035 .00031 .00131 .00036 .00031 .00131 .00036 .00031 .00131 .00036 .00031 .00141 .00041 .00037 .00141 .00032 .00031 .00141 .00032 .00031 .00131 .00036 .00031 .00131 .00036 .00031 .00111 .00032 .0	32 33 34 35 36 37 38 39			.00010 .00046 1.08282 .01852 .01293 .01791 .00133	.01450 .00005 .00007 .00198 1.14703 .02815 .02423 .00152	.01016 .00004 .00015 .00089 .01575 1.26754 .05460 .00109	.01787 .00003 .00008 .00135 .00987 .04337 1.62226 .00138	.01055 .00003 .00009 .00091 .00847 .39665 .25276 1.04420	.01616 .00004 .00922 .00940 .29680 .17808 .00107	.01573 .00007 .00008 .00227 .00871 .35504 .09209 .00185	.03154 .00009 .00243 .00960 .21288 .12730 .00181	.01392 .00003 .00007 .00108 .01459 .22727 .10540 .00071	.04044 .00006 .0008 .00123 .00884 .21629 .04719 .00094	.02829 .00004 .00010 .00116 .01377 .26251 .04285 .00074	.02599 .00003 .00007 .00098 .00995 .21671 .06392 .00075	.01236 .00005 .00008 .00101 .01518 .14873 .06254 .00076
51 Office, computing, and accounting machines 00046 00071 00087 00086 00071 00087 00027 00028 00186 </td <td>42 48 44 46 46 47 48 49</td> <td>Engines and turbines</td> <td>.00083</td> <td>.00646 .00165 .00015 .00201 .00039 .00694 .00786 .00283</td> <td>.02010 .00293 .00019 .01207 .00089 .00263 .00110 .00453</td> <td>.01793 .00401 .00035 .00752 .00139 .00981 .00184 .01721</td> <td>.01780 .00279 .00017 .00467 .00120 .01725 .00138 .01450</td> <td>.02099 .00207 .00021 .00330 .00071 .01069 .00111 .00825</td> <td>.04160 .00253 .00036 .00287 .00062 .01137 .00097 .01336</td> <td>.02785 .00247 .00026 .00275 .00059 .01821 .00104 .00833</td> <td>1.04706 .00356 .00024 .00254 .00052 .01367 .00141 .00845</td> <td>$\begin{array}{r} .02559\\ 1.12261\\ .00060\\ .00510\\ .00049\\ .02285\\ .00069\\ .03466\end{array}$</td> <td>.02069 .07970 1.07345 .00298 .00049 .01326 .00077 .05441</td> <td>.02137 .04279 .00171 1.08275 .00063 .01346 .00073 .07693</td> <td>.02555 .02083 .00042 .00666 1.04398 .01464 .00087 .07459</td> <td>.01643 .00241 .00019 .00169 .00038 1.05501 .00078 .02577</td>	42 48 44 46 46 47 48 49	Engines and turbines	.00083	.00646 .00165 .00015 .00201 .00039 .00694 .00786 .00283	.02010 .00293 .00019 .01207 .00089 .00263 .00110 .00453	.01793 .00401 .00035 .00752 .00139 .00981 .00184 .01721	.01780 .00279 .00017 .00467 .00120 .01725 .00138 .01450	.02099 .00207 .00021 .00330 .00071 .01069 .00111 .00825	.04160 .00253 .00036 .00287 .00062 .01137 .00097 .01336	.02785 .00247 .00026 .00275 .00059 .01821 .00104 .00833	1.04706 .00356 .00024 .00254 .00052 .01367 .00141 .00845	$\begin{array}{r} .02559\\ 1.12261\\ .00060\\ .00510\\ .00049\\ .02285\\ .00069\\ .03466\end{array}$.02069 .07970 1.07345 .00298 .00049 .01326 .00077 .05441	.02137 .04279 .00171 1.08275 .00063 .01346 .00073 .07693	.02555 .02083 .00042 .00666 1.04398 .01464 .00087 .07459	.01643 .00241 .00019 .00169 .00038 1.05501 .00078 .02577
62 Scientific and controlling instruments. 00077 00227 00085 00216 00113 00112 00112 00104 00009 00113 00113 00113 00112 00144 00009 00113 00113 00113 00113 00113 00113 00113 00113 00112 00144 00100 00096 00113 00117 00144 00100 00099 00112 00114 00100 00099 00112 00114 00110 00122 00133 00117 00144 00100 00099 00112 00114 00100 00196 00117 00125 00131 00131 00131 00133 00117 00144 00100 00964 00073 005722 .05647 05143 04674 04555 04552 04553 01073 010765 00066 00006 .00065 .00061 .00061 .00061 .00061 .00061 .00061 .00061 .00061 .00061 .00061 .00061 .00061 .00061 .00061 .00061 .00061 .00061 .00061 .000061 .00061<	52 53 54 55 56 57 58 59	Office, computing, and accounting machines Service industry machines Electric industrial equipment and apparatus Household appliances Electric lighting and wiring equipment Radio, TV, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies Motor vehicles and equipment	.00046 .00061 .00138 .00021 .00070 .00055 .00117 .00051 .00214	.00071 .00396 .00088 .00160 .00054 .00097 .00048 .00277	00092 00315 00027 00187 00075 00127 00066 00778	.00111 .01274 .00029 .00131 .00065 .00144 .00084 .00780	.00087 .00909 .00022 .00144 .00082 .00243 .00243 .00090 .00392	.00085 .00618 .00025 .00098 .00055 .00124 .00058 .00423	.00311 .01568 .00031 .00124 .00101 .00222 .00070 .00551	.00140 .00806 .00039 .00185 .00107 .00208 .00139 .01721	.00085 .00975 .00023 .00097 .00073 .00254 .00254 .00074 .00445	.00099 .01979 .00020 .00103 .00124 .00348 .01511 .01614	.00107 .01386 .00024 .00208 .00077 .00193 .00933 .03448	.00096 .02323 .00019 .00096 .00090 .00215 .00163 .02421	.00083 .04753 .00019 .00102 .00081 .00304 .00234 .00592	.00066 .03225 .00016 .00189 .00061 .00274 .00095 .00633
72 Hotels: personal and repair services (exc. auto) 00950 .00473 .00473 .00462 .00523 .00612 .00513 .00543 .00598 .00392 .00435 .00468 .00467 73 Business services .0143 .05490 .00599 .00473 .00509 .004512 .00612 .00513 .00543 .00598 .04535 .05286 .05143 .05290 .04535 .05286 .05143 .05143 .05098 .04543 .05286 .0514 .00142 .00164 .0112 .0118 .0118 .01198 .00134 .00142 .00636 .00143 .00142 .00636 .00143 .00142 .00636 .00124 .00836 .00112 .00136 .00173 .00766 .00738 .00780 .00738 .00738 .00738 .00738 .00150 .00127 .00112 .00126 .00132 .00132 .00132 .00133 .00143 .00143 .00143 .00132 .00132 .00133 .00132 .00132 .00133 .00134 .00130 .00143 .00130 .00143 .00130 <t< td=""><td>62 64 65 66 67 68 69</td><td>Scientific and controlling instruments. Optical, ophthalmic, and photographic equipment Miscellaneous manufacturing. Transportation and warehousing Communications, except radio and TV. Radio and TV broadcasting Electric, gas, water, and sanitary services. Wholesale and retail trade</td><td>00077 .00095 .01382 .04559 .01177 .00008 .03842 .07934</td><td>.00227 .00117 .00092 .06141 .00809 .00005 .10665 .06262</td><td>.00085 .00120 .00240 .11376 .00954 .00006 .09044 .06401</td><td>.00216 .00087 .00131 .08117 .00679 .00005 .10188 .09371</td><td>.00143 .00083 .00130 .08186 .00857 .00006 .10617 .10963</td><td>.00122 .00115 .00117 .07428 .00723 .00005 .07124 .09428</td><td>.00283 .00102 .00166 .05722 .01023 .00031 .05625 .09179</td><td>.00138 .00103 .00117 .05647 .01131 .00006 .05937 .08158</td><td>.00128 .00112 .00144 .05149 .01030 .00006 .05856 .08102</td><td>.00113 .00144 .00100 .04674 .00862 .00006 .04681</td><td>.00102 .00096 .00099 .04585 .00778 .00005 .04453 .11286</td><td>.00108 .00113 .00142 .04552 .01066 .00006 .04609 .10387</td><td>.00114 .00133 .00174 .04135 .00971 .00006 .04217 .09737</td><td>.00233 .00110 .00110 .03513 .00785 .00005 .03949 .06215</td></t<>	62 64 65 66 67 68 69	Scientific and controlling instruments. Optical, ophthalmic, and photographic equipment Miscellaneous manufacturing. Transportation and warehousing Communications, except radio and TV. Radio and TV broadcasting Electric, gas, water, and sanitary services. Wholesale and retail trade	00077 .00095 .01382 .04559 .01177 .00008 .03842 .07934	.00227 .00117 .00092 .06141 .00809 .00005 .10665 .06262	.00085 .00120 .00240 .11376 .00954 .00006 .09044 .06401	.00216 .00087 .00131 .08117 .00679 .00005 .10188 .09371	.00143 .00083 .00130 .08186 .00857 .00006 .10617 .10963	.00122 .00115 .00117 .07428 .00723 .00005 .07124 .09428	.00283 .00102 .00166 .05722 .01023 .00031 .05625 .09179	.00138 .00103 .00117 .05647 .01131 .00006 .05937 .08158	.00128 .00112 .00144 .05149 .01030 .00006 .05856 .08102	.00113 .00144 .00100 .04674 .00862 .00006 .04681	.00102 .00096 .00099 .04585 .00778 .00005 .04453 .11286	.00108 .00113 .00142 .04552 .01066 .00006 .04609 .10387	.00114 .00133 .00174 .04135 .00971 .00006 .04217 .09737	.00233 .00110 .00110 .03513 .00785 .00005 .03949 .06215
81 Scrap used and secondhand goods 00173 00605 00976 04008 06261 09179 01790 01499 01956 01964 01017 01056 00040 00047	72 78 74 76 76 77 78 78	Hotels: personal and repair services (exc. auto) Business services Eating and drinking places Automobile repair and services Amusements Health, educ., & social serv. and nonprofit org Federal Government enterprises State and local government enterprises	00950 .07487 .01393 .00715 .00156 .00194 .01103 .00104	.00473 .05079 .01005 .00850 .00120 .00169 .00413 .00069	.00514 .05909 .01236 .01024 .00127 .00205 .00396 .00073	.00462 .04859 .00838 .00681 .00112 .00134 .00358 .00065	.00523 .05486 .01045 .00956 .00136 .00203 .00390 .00070	00612 05016 01180 00753 00127 00198 00341 00073	.00810 .05547 .01198 .00766 .00161 .00188 .00402 .00060	.00513 .05567 .00953 .00798 .00123 .00280 .00355 .00062	.00545 .05743 .01103 .00708 .00126 .00188 .00397 .00075	.00508 .05098 .01042 .00780 .00132 .00150 00358 .00054	.00392 .04538 .00961 .00596 .00116 .00138 .00408 .00049	.00435 .05230 .01054 .00581 .00127 .00123 .00367 .00050	.00468 .05268 .01167 .00717 .00143 .00139 .00430 .00046	.00416 .04542 .01112 .00633 .00109 00180 .00311 .00054
51 Scrap, used, and secondnana goods	81		.00173	.00695	.00276	.04008	.06261	.02173	.01780	.01482	.01350	.01394	.01017	.01050	.00940	.00877

See footnotes at end of table.

Total Requirements, 1977—Continued

delivery to final demand, at producers' prices]

Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery, except electrical	Office, computing, and accounting machines	Service industry machines	Electric industrial equipment and apparatus	Household appliances	Electric lighting and wiring equipment	Radio, TV, and communication equipment	Electronic components and accessories	Misc. electrical machinery and supplies	Motor vehicles and equipment	Aircraft and parts	Other transportation equipment	Scientific and controlling instruments	Optical, ophthalmic, and photographic equipment	Miscellaneous manufacturing	Transportation and warehousing	Communications, except radio and TV	Commodity number
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	
0.00165 .00268 .00097 .00805 .00535 .01200 .02349 .00178 .00093	0.00178 .00166 .00093 .01054 .00547 .01500 .02387 .00207 .00065	0.00153 .00136 .00056 .00056 .00665 .00472 .01043 .01808 .00205 .00046	0.00221 .00202 .00073 .00074 .00239 .00398 .00547 .01948 .00122 .00056	0.00162 .00158 .00123 .00079 .00817 .00977 .01299 .02549 .00198 .00175	0.00158 .00146 .00088 .00073 .00637 .00862 .01068 .02352 .00193 .00070	0.00178 .00222 .00167 .00088 .00806 .00711 .01356 .02625 .00227 .00104	0.00176 .00187 .00109 .00082 .00617 .00860 .01098 .02566 .00249 .00096	0.00192 .00190 .00094 .00087 .00180 .00476 .00486 .01751 .00114 .00058	0.00219 .00211 .00080 .00084 .00229 .00686 .00649 .02507 .00218 .00101	0.00168 .00172 .00067 .00080 .00452 .01409 .00865 .02837 .00152 .00134	0.00154 .00264 .00094 .01069 .00536 .01605 .02491 .00237 .00093	0.00302 .00272 .00077 .00071 .00340 .00587 .00672 .01877 .00109 .00040	0.00169 .00211 .00645 .00140 .00923 .00499 .01372 .02484 .00242 .00079	0.00299 .00386 .00111 .00089 .00305 .00547 .00668 .02327 .00146 .00086	0.00224 .00232 .00095 .00093 .00148 .00483 .00567 .03081 .00173 .00217	0.00368 .00611 .00443 .00152 .00279 .00671 .00715 .03023 .00311 .00126	0.00171 .00150 .00065 .00086 .00087 .00073 .00317 .06361 .00149 .00028	0.00063 .00056 .00034 .00051 .00033 .00051 .00158 .00724 .00086 .00010	1 2 3 4 5 6 7 8 9 10
.01972 .00016 .00609 (*) .00367 .00149 .00058 .00034 .00797	.02096 .00010 .00664 (*) .00309 .00589 .00088 .00088 .00041 .00739	.01723 .00026 .00582 (*) .00212 .00289 .00058 .00044 .00392	.01667 .00007 .00847 (*) .00319 .00195 .00074 .00042 .00476	.02088 .00011 .00610 (*) .00291 .00167 .00063 .00071 .01057	.02118 .00011 .00601 (*) .00217 .00128 .00059 .00047 .00698	.02322 .00010 .00652 (*) .00897 .00253 .00075 .00046 .01472	.02071 .00008 .00660 (*) .00489 .00146 .00064 .00041 .00895	.01714 .00044 .00725 (*) .00426 .00198 .00126 .00043 .00722	.02060 .0008 .00834 (*) .00373 .00196 .00160 .00040 .00542	.01963 .00006 .00632 (*) .00257 .00169 .00057 .00043 .00466	.02102 .00016 .00509 (*) .01721 .00787 .00126 .02785 .00788	.01742 .00075 .01168 (*) .00595 .00119 .00087 .00287 .00287	.02078 .00021 .00564 (*) .00887 .01499 .00175 .00533 .06403	.01710 .00010 .01104 (*) .02013 .00913 .00261 .00045 .00851	.01717 .00014 .00845 (*) .00323 .00237 .00053 .00038 .00081	.02174 .00008 .01116 .00001 .03279 .00578 .00204 .00391 .03895	.05814 .00006 .00652 (*) .00195 .00158 .00132 .00111 .00468	.04212 .00004 .00235 (*) .00086 .00042 .00103 .00022 .00269	11 12 13 14 15 16 17 18 19 20
.00037 .00010 .00890 .00463 .00450 .04012 .00930 .00080 .00123	.00061 .00004 .00005 .01166 .00684 .00397 .02324 .00927 .00927 .00081 .00165	.00021 .00008 .00004 .009888 .00862 .00465 .01629 .00528 .00077 .00133	.00015 .00032 .00004 .02106 .00879 .00626 .02737 .01904 .00092 .00313	.00205 .00005 .00009 .01402 .01202 .00441 .03509 .01744 .00084 .00483	$\begin{array}{r} .00073\\ .00015\\ .00005\\ .01697\\ .00795\\ .00455\\ .03140\\ .01290\\ .00073\\ .00384\end{array}$.00183 .00005 .02312 .02220 .00493 .04760 .03809 .00112 .01014	.00039 .00010 .00004 .01859 .02343 .00460 .04683 .02720 .00096 .00421	.00064 .01184 .00003 .01384 .00710 .01021 .02899 .02136 .00086 .00191	.00027 .00177 .00005 .01819 .00959 .00509 .04980 .02109 .00103 .00139	.00019 .00010 .00004 .01188 .01029 .00395 .07088 .02082 .00131 .00283	.00042 .00017 .00275 .01198 .00685 .00377 .03964 .02432 .00106 .00663	$\begin{array}{r} .00035\\ .00110\\ .00041\\ .00775\\ .00305\\ .00560\\ .01816\\ .00831\\ .00083\\ .00258\end{array}$.00028 .00352 .00384 .00978 .00484 .00415 .03294 .01838 .00088 .00850	.00018 .00038 .00005 .02471 .01243 .00690 .04092 .02717 .00176 .00228	.00014 .00013 .04289 .01089 .00470 .11501 .02180 .00144 .00115	.00049 .00006 .00004 .04316 .02390 .00679 .06537 .04836 .00167 .00695	.00005 .00008 .00013 .00621 .00507 .01329 .00425 .00089 .00177	.00004 .00032 .00006 .00406 .0094 .00451 .00469 .00196 .00104 .00149	21 22 23 24 25 26 27 28 29 30
.02348 .02468 .00005 .00007 .00267 .01000 .14522 .07468 .00093 .01470	.02651 .01932 .00003 .00007 .00122 .01272 .19228 .08014 .00078 .01024	.01887 .00832 .00003 .00008 .00070 .01926 .12121 .07079 .00058 .00199	$\begin{array}{c} .02042 \\ .05457 \\ .00004 \\ .00010 \\ .00377 \\ .00694 \\ .04206 \\ .05897 \\ .00096 \\ .01167 \end{array}$	$\begin{array}{c} .02643\\ .03220\\ .00005\\ .00011\\ .00234\\ .01233\\ .14878\\ .15000\\ .00110\\ .01102\end{array}$	$\begin{array}{r} .02470\\ .02466\\ .00003\\ .00007\\ .00217\\ .01426\\ .11562\\ .13073\\ .00093\\ .00530\end{array}$.02422 .06251 .00007 .00013 .00812 .01311 .14606 .10391 .00166 .00268	.02442 .03752 .00003 .00009 .03859 .00970 .10785 .12949 .00120 .00190	.01702 .05247 .00009 .00011 .00638 .00614 .03103 .07202 .00087 .00767	.02339 .05437 .00005 .00010 .02103 .01546 .03837 .10235 .00110 .00424	.02492 .03706 .00003 .00007 .00292 .00709 .06573 .20880 .00134 .00339	.02430 .07108 .00031 .00016 .01475 .01126 .19411 .07490 .00128 .00249	.02067 .01645 .00007 .00010 .00203 .00597 .06157 .09125 .00088 .00407	.02647 .02628 .00011 .00010 .00741 .01764 .16851 .07044 .00124 .04634	.02328 .04617 .00036 .00066 .00731 .00740 .05349 .07847 .00160 .00414	$\begin{array}{c} .02360\\ .04147\\ .00006\\ .00011\\ .01108\\ .00599\\ .02068\\ .05770\\ .00185\\ .00202\end{array}$.02945 .04002 .00295 .00324 .00210 .00803 .04803 .09655 .00189 .00199	.09571 .01360 .00004 .00008 .00106 .00509 .01518 .00902 .00084 .00433	.00807 .00498 .00002 .00004 .00063 .00310 .00576 .00723 .00028 .00288	31 32 33 34 35 36 37 38 39 40
$\begin{array}{r} .01337\\ .02662\\ .01337\\ .00039\\ .00171\\ .00095\\ .01823\\ 1.02946\\ .04090\\ .03318\end{array}$.01830 .02036 .00910 .00035 .00241 .00054 .01920 .00095 1.06426 .02435	$\begin{array}{r} .01039\\ .02166\\ .00521\\ .00022\\ .00167\\ .00036\\ .02052\\ .00057\\ .01839\\ 1.08472 \end{array}$.02598 .02409 .00119 .00017 .00082 .00027 .00782 .00782 .00089 .00430 .00802	.03493 .03260 .00623 .00021 .00190 .00042 .01509 .00093 .02775 .02106	.02175 .01920 .00875 .00016 .00172 .00037 .01148 .00072 .00973 .01002	.02985 .03511 .00215 .00028 .00176 .00042 .00878 .00124 .01107 .00883	.03287 .02891 .00142 .00022 .00154 .00037 .01204 .00122 .00478 .00805	.01655 .02383 .00097 .00018 .00088 .00025 .00632 .00632 .00079 .00296 .00731	.02351 .03312 .00112 .00017 .00116 .00029 .00828 .00115 .00308 .00749	.01936 .03312 .00146 .00018 .00152 .00038 .01139 .00114 .01116 .00827	.10294 .04313 .01484 .00022 .00223 .00067 .00969 .00124 .01407 .02036	$\begin{array}{r} .01703\\ .01716\\ .00130\\ .00021\\ .00103\\ .00028\\ .01584\\ .00054\\ .01160\\ .01786\end{array}$.02004 .02826 .03677 .00027 .00521 .00555 .00996 .00121 .03023 .01878	.02768 .02529 .00141 .00022 .00125 .00029 .00844 .00126 .00468 .00952	.01057 .01571 .00094 .00017 .00101 .00024 .00328 .00177 .00446 .00450	.00912 .01970 .00149 .00026 .00131 .00036 .00419 .00202 .00336 .00566	.00344 .00893 .00316 .00018 .00084 .00035 .00157 .00035 .00431 .00293	.00290 .00342 .00243 .00008 .00030 .00020 .00057 .00016 .00146 .00098	41 42 43 44 45 46 47 48 49 50
.00058 .00126 .04610 .00018 .00097 .00140 .00656 .00080 .00423 .00174	.00073 .00088 .04337 .00026 .00100 .00084 .00566 .00089 .00416 .00191	.00063 .00061 .01016 .00017 .00080 .00101 .00284 .00751 .00617 .00380	$\begin{array}{c} 1.18050\\.00060\\.03894\\.00024\\.00430\\.00132\\.13111\\.00208\\.00292\\.00103\end{array}$.00072 1.05236 .08692 .00031 .00662 .00093 .00425 .00115 .00793 .00100	$\begin{array}{c} .00291\\ .00074\\ 1.08008\\ .00022\\ .00607\\ .00128\\ .02704\\ .00159\\ .00529\\ .00248\end{array}$.00086 .01976 .06231 1.01218 .01141 .00062 .00440 .00102 .00441 .00063	.00092 .00078 .02281 .00026 1.01940 .00110 .02064 .02111 .00425 .00093	.00364 .00076: .01125 .00023 .00763 1.06112 .19777 .00121 .00338 .00208	.00828 .00065 .00961 .00024 .00346 .00248 1.16150 .00081 .00286 .00088	$\begin{array}{r} .00107\\ .00104\\ .01602\\ .00025\\ .00517\\ .00063\\ .04162\\ 1.04029\\ .00652\\ .00050\end{array}$.00050 .01515 .00944 .00024 .00668 .00966 .00709 .02246 1.37013 .00098	$\begin{array}{r} .00165\\ .00056\\ .00644\\ .00027\\ .00119\\ .06098\\ .03919\\ .00367\\ .00285\\ 1.20634\end{array}$.00071 .00618 .01802 .01009 .00764 .00889 .00429 .00412 .00412 .00349	.00604 .00068 .02136 .00018 .00303 .00161 .04144 .00253 .00418 .00183	.00156 .00061 .00595 .00018 .00218 .00218 .00068 .05593 .00137 .00218 .00039	.00083 .00203 .00548 .00022 .00145 .00134 .01017 .00105 .00297 .00071	.00037 .00143 .00524 .00057 .00152 .00155 .00159 .00119 .00942 .00727	$\begin{array}{c} .00031\\ .00073\\ .00107\\ .00023\\ .00104\\ .02584\\ .01115\\ .00043\\ .00473\\ .00015\\ \end{array}$	51 52 53 54 55 56 57 58 59 60
$\begin{array}{c} .00057\\ .00110\\ .00147\\ .00110\\ .04048\\ .01162\\ .00006\\ .04172\\ .08590\\ .01971\end{array}$.00075 .00262 .00126 .00108 .04207 .01186 .00006 .04551 .08153 .01769	$\begin{array}{c} .00060\\ .00096\\ .00156\\ .00117\\ .04005\\ .00994\\ .00009\\ .03979\\ .05150\\ .01767\end{array}$.00052 .00151 .00209 .00207 .04056 .01287 .00008 .03418 .09089 .02539	.00065 .01581 .00132 .00321 .04943 .01045 .00006 .04813 .10736 .01699	.00099 .00212 .00162 .00158 .04363 .00958 .00006 .04474 .08857 .02240	.00066 .02808 .00117 .00632 .04899 .00933 .00933 .00008 .05223 .09725 .01946	.00062 .00117 .00189 .00137 .04946 .00914 .00006 .04938 .09681 .02447	.00051 .00194 .00370 .00156 .03589 .01169 .00008 .03336 .08226 .01719	.00059 .00112 .00217 .00145 .04583 .01157 .00007 .04706 .08897 .02316	$\begin{array}{c} .00064\\ .00131\\ .00134\\ .00105\\ .05493\\ .00832\\ .00006\\ .04995\\ .08457\\ .02471\end{array}$.00091 .00348 .00105 .00139 .04952 .00747 .00006 .04888 .10221 .01748	$\begin{array}{c} .00067\\ .01106\\ .00720\\ .00148\\ .04296\\ .01213\\ .00008\\ .03675\\ .05581\\ .02721\\ \end{array}$	$\begin{array}{c} 1.03893\\.00374\\.00131\\.00238\\.04814\\.00972\\.00007\\.04406\\.09655\\.01764\end{array}$.00057 1.03683 .00193 .00467 .03888 .01187 .00007 .03823 .07840 .01673	$\begin{array}{c} .00054\\ .00294\\ 1.04131\\ .00118\\ .04405\\ .01159\\ .00008\\ .03813\\ .06535\\ .01730\end{array}$	$\begin{array}{r} .00136\\ .00096\\ .00170\\ 1.05943\\ .05701\\ .01482\\ .00009\\ .04329\\ .10025\\ .02271\end{array}$	$\begin{array}{c} .01064\\ .00094\\ .00088\\ .00177\\ 1.16200\\ .01309\\ .00006\\ .02853\\ .04404\\ .02633\end{array}$	$\begin{array}{c} .00025\\ .00041\\ .00067\\ .00139\\ .01199\\ 1.02045\\ .00004\\ .01598\\ .01543\\ .01428\end{array}$	61 62 63 64 65 66 67 68 69 70
$\begin{array}{c} .02087\\ .00522\\ .05313\\ .01234\\ .00585\\ .00119\\ .00148\\ .00490\\ .00048\\ .00469\end{array}$.02064 .00517 .05502 .01463 .00674 .00155 .00204 .00436 .00056 .00428	.02375 .00598 .08206 .01295 .00858 .00161 .00273 .00377 .00048 .00286	.02704 .01628 .07192 .01871 .00655 .00162 .00204 .00204 .00460 .00072 .01188	.02108 .00626 .05825 .01227 .00615 .00136 .00210 .00334 .00062 .00449	.02318 .00724 .05113 .01265 .00609 .00121 .00147 .00405 .00053 .00591	.02065 .00646 .07744 .01192 .00675 .00163 .00229 .00610 .00062 .00595	.02218 .00859 .05987 .01350 .00662 .00146 .00190 .00433 .00063 .00453	.04881 .01245 .06929 .01589 .00573 .00177 .00257 .00652 .00652 .00738	.02483 .01131 .06530 .01812 .00811 .00207 .00275 .00474 .000699 .00595	$\begin{array}{c} .02420\\ .00873\\ .05376\\ .01256\\ .00756\\ .00291\\ .00163\\ .00329\\ .00073\\ .00564 \end{array}$.01898 .00446 .05810 .00900 .01349 .00152 .00249 .00427 .00066 .00794	$\begin{array}{c} .02173\\ .01726\\ .06969\\ .02843\\ .00629\\ .00214\\ .00288\\ .00631\\ .00053\\ .00465\\ \end{array}$.02923 .00495 .05259 .01035 .00704 .00230 .00159 .00379 .00049 .00401	.02368 .00553 .06392 .01512 .01277 .00291 .00343 .00496 .00062 .00803	$\begin{array}{c} .02211\\ .00697\\ .07227\\ .01619\\ .00670\\ .00243\\ .00516\\ .00386\\ .00057\\ .00497\\ .00497\\ \end{array}$	$\begin{array}{c} .03306\\ .00678\\ .08256\\ .01426\\ .00796\\ .00232\\ .00423\\ .00681\\ .00072\\ .03329\end{array}$.02740 .00439 .05555 .01315 .02319 .00144 .00257 .00324 .00119 .02767	$\begin{array}{c} .02289\\ .00331\\ .03618\\ .00529\\ .00335\\ .00070\\ .00148\\ .00437\\ .00080\\ .01829\end{array}$	71 72 73 74 75 76 77 78 .79 80

Table 4.—Commodity-by-Commodity Total Requirements, 1977—Continued

[Total requirements, direct and indirect, per dollar of delivery to final demand, at producers' prices]

	[Total require	mentos, di		man ect,	per dona											
Commodity number	Each entry represents the output required, directly and indirectly, of the commodity named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Radio and TV broadcasting	Electric, gas, water, and sanitary services	Wholesale and retail trade	Finance and insurance	Real estate and rental	Hotels; personal and repair services (exc. auto)	Business services	Eating and drinking places	Automobile repair and services	Amusements	Health, educ., and social serv. and nonprofit org.	Federal Government enterprises	State and local government enterprises	Noncomparable imports	Scrap, used, and secondhand goods
	Commodity number	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81
1 2 3 4 5 6 7 8 9 10	Livestock and livestock products Other agricultural products Porestry and fishery products Agricultural, forestry, and fishery services Iron and ferroally ores mining Nonferrous metal ores mining Coal mining Crude petroleum and natural gas Stone and clay mining and quarrying Chemical and fertilizer mineral mining	0.00412 .00992 .00060 .00186 .00025 .00043 .00213 .01018 .00057 .00018	0.00085 .00080 .00069 .00108 .00088 .00072 .08760 .20988 .00191 .00040	0.00256 .00213 .00069 .00232 .00025 .00026 .00270 .01837 .00052 .00013	0.00165 .00135 .00040 .00051 .00019 .0019 .00179 .00947 .00033 .00009	0.00086 .00084 .00049 .00634 .00030 .00031 .00163 .00737 .00149 .00012	0.00234 .00325 .00081 .00171 .00047 .00069 .00488 .02214 .00103 .00034	0.00239 .00235 .00076 .00072 .00037 .00045 .00208 .01310 .00054 .00025	$\begin{array}{c} 0.09401\\ .06824\\ .01201\\ .00827\\ .00071\\ .00076\\ .00464\\ .02225\\ .00123\\ .00050\\ \end{array}$	0.00115 .00118 .00051 .00074 .00265 .00157 .00567 .02497 .00167 .00039	0.01008 .03894 .00123 .00603 .00044 .00053 .00372 .02029 .00119 .00031	0.00692 .00549 .00089 .00185 .00043 .00068 .00360 .02085 .00103 .00054	0.00413 .00332 .00070 .00068 .00024 .00024 .00169 .01343 .00038 .00011	.00126 .00132 .01826 .06071 .00558		
11 12 13 14 15 16 17 18 19 20	New construction	.02148 .00004 .01350 (*) .00167 .00065 .00130 .00060 .00293	.08114 .00003 .00314 (*) .00099 .00069 .00043 .00025 .00602	.01778 .00006 .00977 (*) .00102 .00063 .00049 .00036 .00415	.01150 .00007 .00644 (*) .00113 .00041 .00024 .00106 .00210	.08163 .00003 .00229 (*) .00048 .00051 .00011 .00018 .00420	.02580 .00005 .00834 (*) .01372 .00211 .01097 .00919 .00567	.01319 .00056 .00893 (*) .00165 .00072 .00063 .00038 .00500	.02384 .00006 .37423 .00001 .00205 .00141 .00041 .00105 .00493	.02327 .00007 .00426 (*) .00321 .00164 .00146 .00353 .00363	.04782 .00007 .02692 (*) .00562 .00193 .00505 .00200 .00821	.03570 .00006 .02561 (*) .00357 .00119 .00300 .00243 .00436	.01302 .00003 .01651 (*) .00294 .00085 .00033 .00403 .00168	.00006 .00578 (*) .00181 .00170 .00110 .00055		
21 22 23 24 25 26 27 28 29 30	Wood containers	.00005 .00010 .00055 .00583 .00131 .00472 .00944 .00218 .00065 .00060	.00004 .00004 .00011 .00468 .00136 .00271 .01902 .00232 .00095 .00177	.00008 .00002 .00003 .01360 .00305 .00748 .00620 .00214 .00091 .00063	.00002 .00002 .01235 .00095 .02056 .00469 .00149 .00062 .00040	.00003 .00004 .00010 .00292 .00057 .00274 .00539 .00133 .00026 .00156	.00007 .00010 .00004 .01187 .00363 .00840 .01708 .00744 .01325 .00100	.00004 .00004 .00003 .03516 .00206 .02259 .01311 .00343 .00178 .00091	$\begin{array}{c} .00040\\ .00002\\ .00004\\ .02335\\ .01727\\ .00688\\ .02505\\ .00551\\ .00426\\ .00107\end{array}$	$\begin{array}{c} .00017\\ .00005\\ .00036\\ .00711\\ .00288\\ .00322\\ .01595\\ .00617\\ .00067\\ .00900 \end{array}$.00014 .00012 .00014 .00850 .00196 .00708 .01644 .00399 .00118 .00132	.00006 .00003 .00005 .01771 .00308 .02564 .03068 .00516 .02228 .00109	.00003 .00002 .00003 .00671 .00170 .01119 .00538 .00198 .00160 .00050	.00036 .00789 .00195 .00462 .03375 .00438 .00121		
31 32 33 34 35 36 37 38 39 40	Petroleum refining and related industries Rubber and miscellaneous plastics products. Leather tanning and finishing Footwear and other leather products. Glass and glass products Stone and clay products Primary iron and steel manufacturing Primary nonferrous metals manufacturing Metal containers Heating, plumbing, and structural metal products	.01048 .00479 .00006 .00022 .00111 .00200 .00410 .00534 .00063 .00155	.11018 .00592 .00002 .00006 .00066 .00630 .01459 .00806 .00087 .00560	.02303 .00571 .00006 .00028 .00084 .00182 .00426 .00296 .00085 .00129	.01074 .00294 .00005 .00013 .00046 .00106 .00252 .00215 .00036 .00082	.00819 .00362 .00001 .00003 .00040 .00484 .00518 .00395 .00026 .00549	.02247 .01387 .00033 .00080 .00339 .00624 .00773 .00815 .00090 .00195	.01566 .00700 .00004 .00010 .00084 .00170 .00608 .00499 .00079 .00113	$\begin{array}{c} .02327\\ .01678\\ .00005\\ .00014\\ .00846\\ .00381\\ .01188\\ .00800\\ .01234\\ .00174 \end{array}$	$\begin{array}{c} .03164\\ .01497\\ .00006\\ .00008\\ .00685\\ .01385\\ .04682\\ .02127\\ .00105\\ .00187\end{array}$.02246 .00800 .00023 .00090 .00113 .00372 .00731 .00572 .00124 .00331	.02187 .01436 .00009 .00019 .00239 .00302 .00651 .00601 .00175 .00244	.01764 .00385 .00019 .00070 .00064 .00125 .00413 .00290 .00072 .00100	.00004 .00012 .00138 .02123 .02111 .01528 .00107		
41 42 43 44 45 46 47 48 49 50	Screw machine products and stampings Other fabricated metal products. Engines and turbines	.00278	.00296 .00752 .00916 .00035 .00581 .00069 .00120 .00031 .00399 .00301	.00155 .00310 .00058 .00024 .00046 .00045 .00052 .00052 .00035 .00078 .00134	.00084 .00161 .00041 .00018 .00035 .00014 .00029 .00032 .00032 .00058 .00048	.00072 .00334 .00030 .00028 .00034 .00034 .00031 .00014 .00062 .00048	.00275 .00605 .00076 .00018 .00064 .00021 .00080 .00055 .00105 .00158	.00193 .00384 .00117 .00161 .00205 .00093 .00131 .00145 .00259 .00141	.00567 .00519 .00090 .00132 .00065 .00022 .00094 .00162 .00142 .00138	$\begin{array}{c} .04944\\ .03719\\ .00333\\ .00018\\ .00092\\ .00028\\ .00298\\ .00298\\ .00046\\ .00329\\ .01277\end{array}$.00246 .00465 .00089 .00067 .00065 .00031 .00063 .00046 .00118 .00129	.00231 .00417 .00063 .00023 .00056 .00023 .00061 .00065 .00102 .00102	.00224 .00221 .00055 .00013 .00030 .00018 .00038 .00023 .00088 .00106	.00259 .00418 .00201 .00119 .00159 .00051		
51 52 53 54 55 56 57 58 59 60	Office, computing, and accounting machines Service industry machines Electric industrial equipment and apparatus Household appliances Electric lighting and wiring equipment. Radio, TV, and communication equipment. Electronic components and accessories Miscellaneous electrical machinery and supplies Motor vehicles and equipment Aircraft and parts.	.00064 .00062 .00091 .00023 .00072 .00323 .02611 .00029 .00168 .00018	.00026 .00133 .00454 .00050 .00267 .00060 .00090 .00061 .00238 .00038	.00133 .00087 .00027 .00060 .00088 .00109 .00061 .00439	.00128 .00032 .00059 .00054 .00049 .00104 .00181 .00033 .00166 .00014	.00019 .00122 .00103 .00048 .00132 .00038 .00042 .00033 .00072 .00007	.01587 .00152 .00240 .00703 .00115 .00146 .01656 .00052 .00252 .00252 .00018	.00387 .00060 .00190 .00045 .00096 .00117 .00649 .00071 .00302 .00024	$\begin{array}{c} .00045\\ .00247\\ .00132\\ .00027\\ .00107\\ .00057\\ .00098\\ .00090\\ .00236\\ .00033\end{array}$	$\begin{array}{c} .00038\\ .01045\\ .00583\\ .00021\\ .00374\\ .00302\\ .00220\\ .00869\\ .16195\\ .00046\end{array}$.00065 .00166 .00136 .00042 .00170 .00099 .00161 .00071 .00500 .00026	.00058 .00082 .00126 .00039 .00149 .00102 .00240 .00245 .00245 .00245	$\begin{array}{c} .00055\\ .00070\\ .00084\\ .00025\\ .00091\\ .00067\\ .00068\\ .00066\\ .00476\\ .00059\end{array}$.00442 .00432 .00279 .00453 .00134 .00116 .00114 .00303		
61 62 63 64 65 66 67 68 69 70	Other transportation equipment Scientific and controlling instruments. Optical, ophthalmic, and photographic equipment Miscellaneous manufacturing Transportation and warehousing. Communications, except radio and TV Radio and TV broadcasting Electric, gas, water, and sanitary services Wholesale and retail trade Finance and insurance	.00115 .00028 .01533 .00184 .02342 .01350 1.00697 .02484 .02055 .02158	.00063 .00137 .00084 .00109 .04527 .00740 .00004 1.24724 .03590 .01917	.00010 .03261 1.02558	.00048 .00280 .00200 .00309 .01910 .02813 .00011 .02153 .01340 1.24915	.00015 .00037 .00048 .00064 .00767 .00445 .00003 .01606 .01469 .03594	.01689 .01968 .01849 .00008 .05840 .03940	.00144 .00042 .00786 .00264 .02879 .02318 .00116 .01933 .02666 .01837	.00101 .00043 .00097 .00302 .04527 .01208 .00008 .04808 .10189 .02793	$\begin{array}{c} .00066\\ .00099\\ .00075\\ .00125\\ .04627\\ .01639\\ .00006\\ .03460\\ .13330\\ .01781\end{array}$.00429 .00047 .00594 .00548 .03375 .01703 .00012 .04343 .03418 .03084	$\begin{array}{c} .00043\\ .00982\\ .00476\\ .00470\\ .02873\\ .01627\\ .00008\\ .03881\\ .03442\\ .01955\end{array}$	$\begin{array}{r} .00120\\ .00029\\ .00083\\ .00299\\ .09128\\ .00764\\ .00004\\ .01824\\ .01895\\ .00654\end{array}$.00117 .00126 .00260 .03588 .00992 .00006 .23616 .05339	l	
71 72 73 74 75 76 77 78 79 80	Real estate and rental	$\begin{array}{c} .06572\\ .01194\\ .07076\\ .02161\\ .00590\\ .25088\\ .00460\\ .00324\\ .00161\\ .00618\end{array}$.03738 .00338 .03373 .00626 .00572 .00081 .00197 .00493 .00043 .00267	.05128 .00589 .09476 .02050 .01677 .00405 .00185 .00663 .00072 .00322	.03855 .00792 .09915 .01485 .00578 .00169 .00569 .02299 .00042 .00438	1.07331 .00124 .03043 .00466 .00191 .00069 .00077 .00340 .00024 .00077	.05308 1.01699 .07153 .01134 .01007 .00178 .00731 .00544 .00128 .00288	.03908 .01071 1.08858 .01901 .01034 .01569 .00470 .01095 .00049 .00416	$\begin{array}{r} .05526\\ .00880\\ .07593\\ 1.00844\\ .00677\\ .01238\\ .00372\\ .00524\\ .00122\\ .01384 \end{array}$	$\begin{array}{c} .03330\\ .00472\\ .05829\\ .00830\\ 1.00945\\ .00134\\ .00166\\ .00299\\ .00098\\ .00315\end{array}$	$\begin{array}{r} .07195\\ .01375\\ .11398\\ .01763\\ .01810\\ 1.15345\\ .00780\\ .00495\\ .00070\\ .00544 \end{array}$	$\begin{array}{r} .07481\\ .00871\\ .07287\\ .01560\\ .00917\\ .00378\\ 1.01940\\ .00794\\ .00086\\ .00302 \end{array}$.03061 .00283 .03542 .00453 .01103 .00137 .00106 1.00549 .00079 .01627	.02606 .00470 .04814 .01245		
81	Scrap, used, and secondhand goods	.00049	.00102	.00056	.00039	.00040	.00127	.00096	.00114	.00764	.00074	.00081	.00045	.00160	1	1.00000

*Less than 0.000005.

Nore.--The generation of the requirement for the commodity scrap, used, and secondhand goods is based on the assumption that the proportion of the commodity in each industry's total output will be the same as in 1977.

Table 5.—Industry-by-Commodity Total Requirements, 1977

[Total requirements, direct and indirect, per dollar of delivery to final demand, at producers' prices]

	[10tal requiremen	nus, airect :		ci, per don		ery to IIn		, at produc	ers prices	5j				
Industry number	Each entry represents the output required, directly and indirectly, from the industry named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Livestock and livestock products	Other agricultural products	Forestry and fishery products	Agricultural, forestry, and fishery services	Iron and ferroalloy ores mining	Nonferrous metal ores mining	Coal mining	Crude petroleum and natural gas	Stone and clay mining and quarrying	Chemical and fertilizer mineral mining	New construction	Maintenance and repair construction	Ordnance and accessories
	Commodity number	1	2	3	4	5	6	7	8	9	10	11	12	13
1 2 3 4 5 6 7 8 9 10	Livestock and livestock products	.39293 .00295 .05794 .00093 .00145 .00536 .04774	$\begin{array}{c} 0.03374\\ 1.05540\\ .00065\\ .03810\\ .00082\\ .00201\\ .00483\\ .06303\\ .00392\\ .00432 \end{array}$	$\begin{array}{c} 0.03175\\.14672\\.87092\\.08363\\.00086\\.00119\\.00279\\.03593\\.00173\\.00167\end{array}$	0.10039 .13040 .00234 .89186 .00081 .00180 .00444 .05506 .00183 .00366	$\begin{array}{c} 0.00113\\ .00123\\ .00068\\ .00066\\ 1.00516\\ .09599\\ .02097\\ .05910\\ .00894\\ .00140 \end{array}$	$\begin{array}{c} 0.00136\\ .00156\\ .00144\\ .00087\\ .00946\\ 1.08702\\ .01725\\ .04903\\ .00277\\ .00223\\ \end{array}$	$\begin{array}{c} 0.00087\\ .00115\\ .00087\\ .00079\\ .00173\\ .00173\\ 1.17690\\ .03158\\ .00146\\ .00089 \end{array}$	$\begin{array}{c} 0.00111\\ .00105\\ .00044\\ .00107\\ .00112\\ .00074\\ .00352\\ 1.06151\\ .00147\\ .00053 \end{array}$	0.00129 .00126 .00045 .00063 .00201 .00282 .01421 .04930 .98287 .00266	0.00196 .00215 .00060 .00168 .00226 .00498 .01633 .06888 .01304 .94368	0.00200 .00386 .01087 .00281 .00369 .00394 .00808 .03841 .01122 .00129	0.00202 .00293 .00426 .00621 .00295 .00335 .00665 .04177 .01727 .00127	$\begin{array}{c} 0.00189\\ .00173\\ .00075\\ .00054\\ .00359\\ .00466\\ .00760\\ .01900\\ .00102\\ .00067\end{array}$
$11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20$	New construction Maintenance and repair construction Ordnance and accessories. Food and kindred products Tobacco manufactures. Broad and narrow fabrics, yarn and thread mills. Miscellaneous textile goods and floor coverings. Apparel. Miscellaneous fabricated textile products. Lumber and wood products, except containers.	.00009 .34045	.03174 .00007 .01304 .00001 .00257 .00241 .00030 .00091 .00493	$\begin{array}{r} .06916\\ .00110\\ .02898\\ .00001\\ .00487\\ .01038\\ .00052\\ .00175\\ .00635\end{array}$.02934 .00010 .03869 .00001 .00515 .00434 .00063 .00434 .00463	.03204 .00020 .00394 (*) .00235 .00122 .00038 .00073 .00678	.02138 .00019 .00476 (*) .00233 .00109 .00055 .00036 .01542	.01914 .00014 .00286 (*) .00396 .00078 .00106 .00024 .00924	.07096 .00008 .00368 (*) .00073 .00050 .00042 .00015 .00395	.02297 .00021 .00451 (*) .00218 .00091 .00112 .00049 .00388	.03362 .00015 .00674 .00001 .00437 .00078 .00072 .00036 .00509	1.00000 .01903 .00047 .00541 .00001 .00490 .00699 .00079 .00060 .12518	$\begin{array}{c} 1.01628\\.00033\\.00480\\.00001\\.00437\\.00491\\.00062\\.00076\\.04803\end{array}$.01765 .95108 .00667 (*) .00285 .00099 .00136 .00041 .00681
21 22 23 24 25 26 27 28 29 30	Wood containers. Household furniture Other furniture and fixtures. Paper and allied products, except containers Paperboard containers and boxes. Printing and publishing. Chemicals and selected chemical products. Plastics and synthetic materials. Drugs, cleaning and toilet preparations. Paints and allied products.	.00720 .00752 .00150	.00234 .00006 .0008 .00841 .00391 .00765 .12675 .00773 .00391 .00136	$\begin{array}{c} .00021\\ .00020\\ .00026\\ .00581\\ .00287\\ .00553\\ .04860\\ .00627\\ .00198\\ .00223\end{array}$	$\begin{array}{c} .00143\\ .00008\\ .00010\\ .01219\\ .01034\\ .00947\\ .10760\\ .00801\\ .00379\\ .00140 \end{array}$.00008 .00011 .00018 .00628 .00225 .00857 .03939 .00693 .00165 .00146	.00009 .00011 .00012 .00640 .00228 .00814 .05607 .00729 .00202 .00202	.00007 .00007 .00009 .00514 .00158 .00799 .02457 .00451 .00110 .00093	.00004 .00007 .00011 .00306 .0095 .00480 .01534 .00176 .00072 .00168	$\begin{array}{c} .00007\\ .00008\\ .00012\\ .01326\\ .00247\\ .01069\\ .02715\\ .00510\\ .00176\\ .00107\end{array}$.00007 .00007 .00010 .01066 .00255 .01095 .17348 .00607 .00306 .00142	.00028 .00085 .00215 .01417 .00398 .01731 .02544 .00855 .00193 .01024	$\begin{array}{c} .00021\\ .00068\\ .00135\\ .01274\\ .00381\\ .00804\\ .02801\\ .00969\\ .00202\\ .01831\end{array}$.00130 .00168 .00081 .00860 .00470 .01230 .01932 .00778 .00113 .00126
31 32 33 34 35 36 37 38 39 40	Petroleum refining and related industries Rubber and miscellaneous plastics products	.01567 .01077	.07915 .01091 .00003 .00009 .00073 .00438 .01107 .00988 .00223 .00270	$\begin{array}{c} .04717\\ .00741\\ .00009\\ .00032\\ .00128\\ .00527\\ .01512\\ .00955\\ .00266\\ .00590\end{array}$	$\begin{array}{c} .06895\\ .01136\\ .00013\\ .00038\\ .00149\\ .00430\\ .01156\\ .00966\\ .00287\\ .00245\\ \end{array}$.05534 .02512 .00004 .00009 .00105 .00656 .06662 .01830 .00098 .00403	.04917 .02394 .00003 .00098 .01138 .06948 .02088 .00114 .00328	$\begin{array}{c} .03796\\ .01445\\ .00002\\ .00006\\ .00056\\ .00885\\ .03625\\ .01527\\ .00066\\ .00322\end{array}$.01603 .00391 .00002 .00007 .00062 .00494 .02179 .00735 .00048 .00548	.06503 .01680 .00003 .00094 .05722 .03782 .01679 .00091 .00638	$\begin{array}{c} .06148\\ .01087\\ .00003\\ .00007\\ .00089\\ .00506\\ .03443\\ .01766\\ .00201\\ .00621\\ \end{array}$.04917 .01833 .00005 .00017 .00303 .07816 .07213 .05148 .00148 .06979	$\begin{array}{c} .05482\\ .02630\\ .00005\\ .00013\\ .00354\\ .05681\\ .05750\\ .04274\\ .00192\\ .06066\end{array}$.01984 .01942 .00004 .00010 .00188 .00527 .07059 .06626 .00074 .00565
41 42 43 44 45 46 47 48 49 50	Screw machine products and stampings Other fabricated metal products Engines and turbines Farm and garden machinery Construction and mining machinery and equipment Materials handling machinery and equipment Metalworking machinery and equipment General industrial machinery and equipment Miscellaneous machinery, except electrical	.00178	.00164 .00542 .00158 .00881 .00135 .00026 .00089 .00145 .00245 .00245 .00207	$\begin{array}{c} .00221\\ .00815\\ .00352\\ .00297\\ .00109\\ .00037\\ .00103\\ .00087\\ .00305\\ .00170\\ \end{array}$.00254 .00623 .00418 .00394 .00124 .00025 .00107 .00138 .00217 .00197	$\begin{array}{c} .00966\\ .02361\\ .01479\\ .00122\\ .04098\\ .00631\\ .00335\\ .00096\\ .01585\\ .00532\end{array}$	$\begin{array}{c} .01072\\ .01946\\ .01257\\ .00115\\ .03825\\ .00387\\ .00354\\ .00108\\ .01315\\ .00874 \end{array}$	$\begin{array}{c} .01285\\ .01075\\ .01057\\ .00137\\ .05641\\ .00382\\ .00237\\ .00072\\ .01709\\ .00663\end{array}$	$\begin{array}{c} .00155\\ .00938\\ .00386\\ .00306\\ .00594\\ .00035\\ .00138\\ .00036\\ .00503\\ .00503\\ .00380\end{array}$	$\begin{array}{c} .00641\\ .01485\\ .01160\\ .00115\\ .04238\\ .00609\\ .00318\\ .00079\\ .01350\\ .00738\\ \end{array}$	$\begin{array}{c} .00647\\ .00884\\ .01262\\ .00085\\ .02458\\ .00256\\ .00192\\ .00233\\ .00910\\ .00495\end{array}$	$\begin{array}{c} .00778\\ .03023\\ .00190\\ .00077\\ .00461\\ .00364\\ .00349\\ .00129\\ .00874\\ .00380\end{array}$	$\begin{array}{c} .00661\\ .03316\\ .00171\\ .00057\\ .00327\\ .00356\\ .00296\\ .00106\\ .00578\\ .00325\\ \end{array}$.01646 .01882 .00510 .00043 .00199 .00195 .01319 .00117 .01087 .01029
51 52 53 54 55 56 57 58 59 60	Office, computing, and accounting machines Service industry machines Electric industrial equipment and apparatus Household appliances Electric lighting and wiring equipment Radio, TV, and communication equipment Electronic components and accessories Miscellaneous electrical machinery and supplies Motor vehicles and equipment Aircraft and parts	.00051 .00105 .00188 .00038 .00096 .00070 .00102 .00421 .00571 .00069	.00043 .00093 .00171 .00030 .00079 .00052 .00089 .00523 .00368 .00047	$\begin{array}{c} .00039\\ .00148\\ .00201\\ .00073\\ .00144\\ .00090\\ .00078\\ .00134\\ .00507\\ .00095\end{array}$.00053 .00108 .00166 .00031 .00101 .00063 .00097 .00360 .00919 .00130	.00064 .00144 .00644 .00045 .00127 .00090 .00127 .00148 .03154 .00164	.00063 .00101 .00794 .00040 .00133 .00085 .00127 .00256 .00928 .00145	$\begin{array}{c} .00054\\ .00074\\ .00844\\ .00036\\ .00147\\ .00062\\ .00109\\ .00112\\ .00534\\ .00125\end{array}$	$\begin{array}{c} .00032\\ .00119\\ .00666\\ .00045\\ .00143\\ .00060\\ .00070\\ .00059\\ .00205\\ .00049\end{array}$	$\begin{array}{c} .00068\\ .00099\\ .00759\\ .00039\\ .00119\\ .00175\\ .00129\\ .00180\\ .01649\\ .00133 \end{array}$.00062 .00118 .00678 .00041 .00121 .00068 .00117 .00126 .00691 .00124	.00107 .01252 .01124 .00375 .01471 .00436 .00286 .00205 .00674 .00124	$\begin{array}{c} .00078\\ .01435\\ .01055\\ .00467\\ .01335\\ .00367\\ .00226\\ .00171\\ .00560\\ .00109\end{array}$.00306 .00146 .01045 .00152 .00421 .11320 .04381 .00172 .00828 .07739
61 62 63 64 65 66 67 68 69 70	Other transportation equipment	.00094 .00077 .00092 .00166 .05993 .01122 .00262 .04098 .11359 .04629	.00057 .00064 .00079 .00136 .03524 .00747 .00216 .04035 .07121 .02826	$\begin{array}{c} .03161\\ .00087\\ .00065\\ .00110\\ .02772\\ .00468\\ .00154\\ .01806\\ .05873\\ .01530\\ \end{array}$	$\begin{array}{c} .00137\\ .00070\\ .00129\\ .00193\\ .05229\\ .00612\\ .00260\\ .03636\\ .08853\\ .02775\\ \end{array}$	$\begin{array}{c} .00134\\ .00104\\ .00090\\ .00453\\ .04806\\ .00603\\ .00260\\ .13482\\ .06949\\ .01774\end{array}$	$\begin{array}{c} .00175\\ .00136\\ .00097\\ .00220\\ .04069\\ .00621\\ .00239\\ .08315\\ .06188\\ .02607\end{array}$	$\begin{array}{c} .00072\\ .00101\\ .00072\\ .00147\\ .02411\\ .00483\\ .00248\\ .03340\\ .05301\\ .01768\end{array}$	$\begin{array}{c} .00033\\ .00094\\ .00046\\ .00093\\ .01402\\ .00397\\ .00142\\ .02752\\ .02306\\ .01547\end{array}$	$\begin{array}{r} .00081\\ .00088\\ .00105\\ .00295\\ .03580\\ .00670\\ .00308\\ .07096\\ .05454\\ .02754 \end{array}$	$\begin{array}{c} .00079\\ .00099\\ .00101\\ .00262\\ .04123\\ .00674\\ .00317\\ .14920\\ .04934\\ .03883\\ \end{array}$	$\begin{array}{c} .00156\\ .00376\\ .00151\\ .00426\\ .05803\\ .01140\\ .00573\\ .03026\\ .12869\\ .02527\end{array}$	$\begin{array}{r} .00108\\ .00398\\ .00099\\ .00334\\ .04914\\ .01041\\ .00229\\ .02640\\ .11711\\ .01853\end{array}$.00330 .00504 .00455 .00278 .03547 .01051 .00305 .03207 .05012 .01419
71 72 73 74 75 76 77 77 78 79	Real estate and rental	.08630 .00534 .04349 .00748 .01080 .00281 .01128 .00507 .00754	$\begin{array}{c} .11467\\ .00317\\ .03600\\ .00540\\ .00639\\ .00199\\ .00162\\ .00374\\ .00660\\ \end{array}$.02006 .00401 .02542 .00887 .00786 .00301 .00222 .00323 .00363	$\begin{array}{r} .06679\\ .00463\\ .04308\\ .01382\\ .01855\\ .02484\\ .00340\\ .00711\\ .00758\end{array}$	$\begin{array}{c} .02944\\ .00349\\ .04298\\ .00717\\ .01653\\ .00117\\ .00256\\ .00697\\ .01690\end{array}$.03482 .00398 .03956 .00788 .02090 .00109 .00279 .00694 .01139	.03455 .00292 .04099 .00524 .00888 .00111 .00193 .00317 .00496	.10737 .00211 .02369 .00811 .00450 .00077 .00111 .00237 .00424	.03869 .00838 .05091 .00885 .00961 .00162 .00216 .00531 .01034	$\begin{array}{c} .03320\\ .00603\\ .05237\\ .01157\\ .01335\\ .00171\\ .00257\\ .00929\\ .01880\end{array}$.02211 .00524 .09424 .00891 .01140 .00239 .00170 .00497 .00599	.01921 .00383 .03758 .00704 .00747 .00134 .00117 .00379 .00512	$\begin{array}{c} .01986\\ .00635\\ .05031\\ .01545\\ .00463\\ .00139\\ .00164\\ .00164\\ .00461\\ .00523\end{array}$

Table 5.—Industry-by-Commodity

[Total requirements, direct and indirect, per dollar

										[Total red	quirement	s, direct ar	nd indirect	, per dollar
Industry number	Each entry represents the output required, directly and indirectly, from the industry named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Food and kindred products	Tobacco manufactures	Broad and narrow fabrics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products, except containers	Wood containers	Household furniture	Other furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Printing and publishing
	Commodity number	14	15	16	17	18	19	20	21	22	23	24	25	26
1 2 3 4 5 6 7 8 9 10	Livestock and livestock products	0.32520 .20508 .00929 .01904 .00137 .00170 .00611 .03607 .00215 .00179	$\begin{array}{c} 0.00893\\ .25360\\ .00059\\ .00987\\ .00044\\ .00079\\ .00339\\ .02491\\ .00130\\ .00139 \end{array}$	0.01230 .10270 .00073 .00482 .00097 .00260 .01020 .05731 .00194 .00477	$\begin{array}{c} 0.01467\\.02985\\.00099\\.00244\\.00115\\.00346\\.00948\\.05920\\.00195\\.00561\end{array}$	$\begin{array}{c} 0.00569\\ .03193\\ .00683\\ .00244\\ .00059\\ .00140\\ .00546\\ .03267\\ .00108\\ .00221 \end{array}$	0.00802 .04294 .00098 .00245 .00080 .00168 .00674 .03702 .00129 .00282	0.00595 .02601 .12228 .01398 .00132 .00137 .00504 .03324 .00157 .00131	$\begin{array}{c} 0.00380\\ .01045\\ .04244\\ .00544\\ .00127\\ .00098\\ .00573\\ .03058\\ .00132\\ .00089 \end{array}$	$\begin{array}{c} 0.00479\\.01804\\.01570\\.00273\\.00288\\.00247\\.00766\\.02975\\.00170\\.00151\end{array}$	0.00250 .00455 .00866 .00158 .00821 .00410 .01349 .02786 .00189 .00189	$\begin{array}{c} 0.00473\\ .00766\\ .01160\\ .00224\\ .00092\\ .00193\\ .01559\\ .06240\\ .00503\\ .00308\\ \end{array}$	$\begin{array}{c} 0.00300\\ .00435\\ .00514\\ .00133\\ .00132\\ .00202\\ .00997\\ .04925\\ .00280\\ .00249 \end{array}$	$\begin{array}{c} 0.00380\\ .00392\\ .00253\\ .00102\\ .00066\\ .00126\\ .00526\\ .02859\\ .00148\\ .00170\\ \end{array}$
11 12 13 14 15 16 17 18 19 20	New construction Maintenance and repair construction Ordnance and accessories Food and kindred products Tobacco manufactures. Broad and narrow fabrics, yarn and thread mills Miscellaneous textile goods and floor coverings Apparel. Miscellaneous fabricated textile products. Lumber and wood products, except containers	.02673 .00011 1.26841 .00011 .00310 .00184 .00052 .00083 .00746	.01417 .00007 .00617 1.25793 .00287 .00167 .00044 .00038 .00545	.02829 .00011 .01116 .00001 1.44880 .02210 .00959 .00740 .00564	.02575 .00012 .01301 .00001 .29287 .98272 .02194 .00478 .00761	.01983 .00010 .01090 .00001 .40114 .01084 1.25071 .01697 .00465	.02153 .00009 .01343 .00001 .57490 .09364 .03692 .86803 .00734	.02796 .00028 .00876 .00001 .00406 .00674 .00095 .00074 1.42352	$\begin{array}{c} .02681\\ .00076\\ .00930\\ .00001\\ .00342\\ .00290\\ .00108\\ .00049\\ .56373\end{array}$.02381 .00029 .01306 .00001 .10557 .02261 .00659 .00417 .18211	.02398 .00025 .00732 .00001 .01716 .02628 .00227 .00138 .10254	.03257 .00012 .01677 .00023 .03044 .01062 .00169 .00174 .12786	.03046 .00012 .01154 .00010 .01434 .00488 .00104 .00093 .05640	.01946 .00011 .01379 .00005 .00942 .00502 .00079 .00092 .02498
21 22 23 24 25 26 27 28 29 30	Wood containers	.00109 .00023 .00010 .03719 .03068 .01883 .05045 .00792 .01095 .00204	.00099 .00006 .00007 .03310 .01039 .02654 .04093 .00815 .00273 .00074	.00030 .00014 .00016 .02191 .01572 .01331 .16195 .18727 .00873 .00311	.00015 .00094 .00196 .04117 .01384 .19100 .24297 .00906 .00394	.00012 .00014 .00012 .01968 .01135 .01207 .07518 .08941 .00739 .00179	.00016 .00214 .00075 .02876 .01748 .01445 .09389 .11017 .00704 .00207	.00127 .00178 .00172 .01143 .00537 .00826 .03696 .00738 .00180 .00740	$\begin{array}{r} .91592\\ .00105\\ .00223\\ .03734\\ .06261\\ .01270\\ .02535\\ .01065\\ .00148\\ .00345\end{array}$.00120 .98095 .00318 .02017 .01710 .01457 .04557 .03423 .00258 .01283	.00067 .00350 .95644 .01806 .01641 .01494 .03798 .01905 .00188 .01059	.00038 .00032 .00047 1.20036 .02327 .02156 .08147 .03854 .00532 .00254	.00033 .00017 .00024 .50729 1.04004 .01765 .07027 .02819 .00351 .00377	$\begin{array}{r} .00010\\ .00012\\ .00025\\ .22879\\ .01148\\ 1.12057\\ .05001\\ .01255\\ .00254\\ .00155\end{array}$
31 32 33 34 35 36 37 38 39 40	Petroleum refining and related industries Rubber and miscellaneous plastics products Leather tanning and finishing Footwear and other leather products	.04200 .02098 .00007 .00025 .02175 .00400 .02518 .01684 .04186 .00235	.03042 .03020 .00002 .00007 .00063 .00223 .00721 .00520 .00108 .00129	.05962 .02930 .00012 .00046 .00573 .00486 .01207 .01173 .00324 .00255	.06092 .05686 .00014 .00020 .00505 .00691 .01432 .02011 .00377 .00256	.03473 .01954 .00605 .00127 .00221 .00313 .00850 .00834 .00187 .00172	.03873 .04540 .00979 .00268 .00332 .00417 .01170 .00930 .00228 .00229	$\begin{array}{r} .03962\\ .01495\\ .00014\\ .00066\\ .00263\\ .01228\\ .02497\\ .01396\\ .00156\\ .00841\end{array}$.03579 .01210 .00006 .00028 .00136 .00869 .02425 .00938 .00141 .01115	.03284 .06252 .00396 .00024 .00735 .00986 .05665 .02772 .00215 .00433	.02979 .05018 .00045 .00019 .00315 .00902 .16116 .04597 .00168 .00546	$\begin{array}{c} .07128\\ .03820\\ .00007\\ .00028\\ .00144\\ .00929\\ .01532\\ .01462\\ .00249\\ .00375\end{array}$	$\begin{array}{r} .05763\\ .02344\\ .00004\\ .00018\\ .00154\\ .00637\\ .02398\\ .01801\\ .00720\\ .00298\end{array}$	$\begin{array}{r} .03250\\ .02006\\ .00018\\ .00027\\ .00105\\ .00360\\ .01129\\ .01052\\ .00622\\ .00190\end{array}$
41 42 43 44 45 46 47 48 49 50	Screw machine products and stampings Other fabricated metal products. Engines and turbines	.00491 .00826 .00118 .00362 .00112 .00029 .00163 .00186 .00237 .00264	.00121 .00835 .00068 .00228 .00076 .00022 .00095 .00085 .00146 .00131	.00187 .00503 .00131 .00121 .00157 .00134 .00184 .00967 .00301 .00374	.00219 .00543 .00133 .00065 .00159 .00052 .00216 .01360 .00339 .00406	.00162 .00415 .00084 .00052 .00092 .00057 .00132 .00584 .00584 .00190 .00259	$\begin{array}{c} .00504\\ .00477\\ .00095\\ .00064\\ .00108\\ .00079\\ .00165\\ .00588\\ .00253\\ .00253\\ .00340\end{array}$.01384 .03122 .00139 .00111 .00148 .00094 .00458 .00260 .00315 .00518	.00617 .01822 .00124 .00317 .00115 .00050 .00391 .00399 .00221 .00656	.01114 .05977 .00121 .00092 .00239 .00057 .00375 .00375 .00388 .00388	.02196 .04274 .00238 .00119 .00231 .00121 .00689 .00195 .00669 .00746	.00328 .01695 .00143 .00043 .00192 .00043 .00214 .00557 .00359	$\begin{array}{c} .00404\\ .01604\\ .00130\\ .00087\\ .00146\\ .00034\\ .00560\\ .00681\\ .00276\\ .00432 \end{array}$	$\begin{array}{c} .00198\\ .00865\\ .00081\\ .00031\\ .00092\\ .00026\\ .00144\\ .00631\\ .00174\\ .00206\end{array}$
51 52 53 54 55 56 57 58 59 60	Electric industrial equipment and apparatus	.00056 .00112 .00171 .00040 .00087 .00067 .00099 .00188 .00386 .00386	.00053 .00047 .00094 .00019 .00047 .00042 .00084 .00147 .00212 .00040	.00063 .00099 .00209 .00033 .00117 .00082 .00148 .00102 .00275 .00061	.00064 .00101 .00256 .00108 .00243 .00080 .00193 .00073 .00271 .00077	.00058 .00075 .00142 .00115 .00080 .00085 .00123 .00061 .00289 .00047	.00171 .00098 .00161 .00039 .00185 .00072 .00122 .00066 .00530 .00055	.00052 .00176 .00282 .00057 .00145 .00072 .00105 .00105 .00110 .00648 .00079	.00057 .00110 .00200 .00039 .00113 .00070 .00440 .00071 .00451 .00072	.00094 .00104 .00251 .00131 .00125 .00273 .00215 .00079 .00493 .00091	.00441 .00214 .00675 .00545 .00184 .00142 .00184 .00120 .02202 .00261	$\begin{array}{c} .00152\\ .00103\\ .00243\\ .00073\\ .00132\\ .00078\\ .00132\\ .00068\\ .00465\\ .00082\\ \end{array}$	$\begin{array}{r} .00089\\ .00108\\ .00229\\ .00047\\ .00106\\ .00075\\ .00108\\ .00068\\ .00397\\ .00089\end{array}$	$\begin{array}{c} .00232\\ .00070\\ .00158\\ .00035\\ .00114\\ .00129\\ .00186\\ .00060\\ .00306\\ .00096\end{array}$
61 62 63 64 65 66 67 68 69 70	Optical, ophthalmic, and photographic equipment Miscellaneous manufacturing Transportation and warehousing Communications, except radio and TV Radio and TV broadcasting. Electric, gas, water, and sanitary services Wholesale and retail trade	.00114 .00091 .00107 .00165 .06402 .00979 .00341 .04083 .11571 .02713	$\begin{array}{c} .00044\\ .00050\\ .00105\\ .00141\\ .02652\\ .00562\\ .00433\\ .02059\\ .04005\\ .02157\end{array}$.00066 .00119 .00143 .00222 .04771 .01291 .00395 .06594 .09882 .01865	.00080 .00122 .00173 .00233 .06263 .00944 .00335 .06157 .09052 .01811	.00090 .00096 .00115 .02008 .03626 .01766 .00324 .03857 .08923 .01953	.00183 .00117 .00126 .00861 .04389 .01152 .00336 .04487 .09912 .01977	.00560 .00122 .00088 .00250 .05496 .00674 .00214 .03531 .09116 .02014	.00250 .00131 .00111 .00197 .06313 .00935 .00305 .03654 .10616 .03352	$\begin{array}{c} .00141\\ .00165\\ .00129\\ .00706\\ .05462\\ .01264\\ .00382\\ .03730\\ .09844\\ .03007 \end{array}$	$\begin{array}{c} .00418\\ .00274\\ .00148\\ .00260\\ .05371\\ .01086\\ .00383\\ .04100\\ .08261\\ .02644 \end{array}$	$\begin{array}{c} .00134\\ .00179\\ .00217\\ .00240\\ .07566\\ .00883\\ .00300\\ .07655\\ .10457\\ .01767\end{array}$	$\begin{array}{c} .00194\\ .00127\\ .00159\\ .00214\\ .09009\\ .00890\\ .00259\\ .05422\\ .07593\\ .01615\end{array}$	$\begin{array}{c} .00078\\ .00095\\ .01140\\ .00712\\ .05510\\ .01603\\ .00431\\ .03354\\ .07664\\ .02196\end{array}$
71 72 73 74 75 76 77 78 79	Hotels; personal and repair services (exc. auto) Business services Eating and drinking places	.04657 .00588 .05640 .00924 .00877 .00206 .00402 .00573 .00790	.03718 .00291 .07148 .00559 .00193 .00165 .00580 .00379	.03303 .00515 .06522 .01253 .00757 .00185 .00309 .00680 .00981	.02721 .00529 .05531 .01142 .00729 .00157 .00208 .00704 .00974	.02785 .00680 .05348 .01211 .00699 .00157 .00232 .00922 .00924	.03105 .00836 .05553 .01226 .00718 .00159 .00481 .00725 .00708	.01853 .00428 .03528 .00919 .00976 .00144 .00274 .00431 .00614	.02317 .00637 .05034 .01533 .00990 .00160 .00513 .00691 .00685	$\begin{array}{c} .02644\\ .00693\\ .06306\\ .01807\\ .01102\\ .00286\\ .00379\\ .00704\\ .00660\end{array}$	$\begin{array}{c} .02538\\ .00634\\ .06324\\ .01154\\ .01034\\ .00220\\ .00300\\ .00753\\ .00680\end{array}$.02467 .00673 .04957 .00971 .00872 .00154 .00214 .00612 .01210	$\begin{array}{c} .02302\\ .00525\\ .04266\\ .01060\\ .00912\\ .00129\\ .00160\\ .00570\\ .00964 \end{array}$	$\begin{array}{c} .03547\\ .00981\\ .07115\\ .02536\\ .00855\\ .00225\\ .00225\\ .00317\\ .02106\\ .00625\end{array}$

Total Requirements, 1977—Continued

of delivery to final demand, at producers' prices]

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Chemicals and selected chemical products	Plastics and synthetic materials	Drugs, cleaning and toilet preparations	Paints and allied products	Petroleum refining and related industries	Rubber and miscellaneous plastics products	Leather tanning and finishing	Footwear and other leather products	Glass and glass products	Stone and clay products	Primary iron and steel manfacturing	Primary nonferrous metals manufacturing	Metal containers	Heating, plumbing, and structural metal products	Screw machine products and stampings	Other fabricated metal products	Engines and turbines	Farm and garden machinery	Construction and mining machinery	Materials handling machinery and equipment	Industry number
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
$\begin{array}{c} 0.00541\\ .00717\\ .00148\\ .00326\\ .00401\\ .01440\\ .01678\\ .18656\\ .00664\\ .00664\\ .03607\end{array}$	0.00452 .01036 .00119 .00230 .00234 .00783 .01686 .11812 .00366 .01419	0.01292 .01144 .00149 .00175 .00152 .00313 .00651 .04624 .00255 .00483	0.01165 .00992 .00364 .00221 .00394 .00835 .00979 .09141 .00885 .01112	0.00166 .00159 .00057 .00109 .00121 .00145 .00615 .71977 .00433 .00192	$\begin{array}{c} 0.00335\\ .00627\\ .00121\\ .00122\\ .00196\\ .00330\\ .00972\\ .05941\\ .00260\\ .00540 \end{array}$	$\begin{array}{c} 0.11359\\.07219\\.00355\\.00715\\.00096\\.00197\\.00635\\.04527\\.00182\\.00498\end{array}$	$\begin{array}{c} 0.02515\\.02144\\.00209\\.00225\\.00083\\.00146\\.02863\\.00117\\.00241 \end{array}$	0.00165 .00200 .00227 .00090 .00083 .00190 .00929 .04846 .02116 .00266	0.00214 .00295 .00150 .00092 .00184 .00283 .02863 .05203 .06906 .00742	0.00131 .00137 .00072 .00077 .068111 .01113 .08042 .04724 .00653 .00262	0.00162 .00183 .00096 .00080 .00293 .09869 .01215 .05049 .00202 .00209	$\begin{array}{c} 0.00206\\ .00199\\ .00088\\ .00075\\ .01994\\ .01799\\ .02850\\ .03824\\ .00289\\ .00158\end{array}$	0.00170 .00168 .00099 .00072 .01525 .01388 .02204 .02914 .00271 .00120	0.00184 .00178 .00092 .00068 .01821 .00801 .02591 .02840 .00258 .00133	0.00171 .00186 .00126 .00074 .01206 .00964 .01900 .03138 .00254 .00182	0.00140 .00133 .00053 .00056 .01145 .00794 .01709 .02542 .00228 .00089	0.00143 .00151 .00084 .00063 .01099 .00438 .01662 .02241 .00188 .00093	$\begin{array}{c} 0.00144\\.00140\\.00061\\.00058\\.01318\\.00437\\.01935\\.02278\\.00235\\.00094 \end{array}$	$\begin{array}{c} 0.00160\\ .00151\\ .00070\\ .00059\\ .01089\\ .00539\\ .01615\\ .02361\\ .00193\\ .00086\end{array}$	1 2 3 4 5 6 7 8 9 10
.03998 .00014 .02249 .00004 .00393 .00153 .00054 .00076 .00984	.03557 .00012 .01577 .00003 .07424 .00478 .00093 .00066 .00887	.02163 .00016 .04699 .00007 .00473 .00273 .00273 .00061 .00060 .00810	$\begin{array}{c} .03159\\ .00014\\ .04480\\ .00016\\ .00770\\ .00184\\ .00062\\ .00059\\ .00664\end{array}$.06312 .00010 .00583 .00001 .00132 .00089 .00044 .00025 .00497	$\begin{array}{c} .02568\\ .00019\\ .01140\\ .00002\\ .04731\\ .02759\\ .00188\\ .00115\\ .01220\end{array}$.02433 .00008 .44280 .00004 .00222 .00112 .00075 .00052 .00504	.01855 .00011 .09409 .00002 .07555 .04453 .01122 .00147 .01482	$\begin{array}{c} .02741\\ .00013\\ .00585\\ .00001\\ .00310\\ .00104\\ .00096\\ .00042\\ .02582\end{array}$.03816 .00100 .00738 .00001 .01370 .00126 .00085 .00047 .01586	.04318 .00077 .00462 (*) .00199 .00087 .00087 .00078 .00056 .00711	.02806 .00024 .00572 .00001 .00448 .00134 .00057 .00039 .00960	.03161 .00041 .00878 .00259 .00240 .00088 .00088 .00088 .00039 .00780	.03318 .00227 .00620 (*) .00233 .00105 .00068 .00046 .01180	.02999 .00120 .00762 .00001 .00366 .00127 .00071 .00225 .00927	.02593 .00087 .00611 .00001 .00387 .00178 .00094 .00094 .01448	.02446 .00353 .00495 (*) .00233 .00107 .00086 .00065 .00472	.02046 .00052 .00511 (*) .00343 .00200 .00058 .00101 .00856	.02304 .00055 .00507 (*) .00267 .00156 .00056 .00069 .00567	.02212 .00049 .00566 (*) .00245 .00153 .00059 .00043 .00695	11 12 13 14 15 16 17 18 19 20
$\begin{array}{r} .00010\\ .00010\\ .00014\\ .02870\\ .00862\\ .01365\\ 1.06076\\ .04468\\ .02770\\ .00564\end{array}$.00010 .00033 .03833 .01456 .01318 .52342 .85113 .02021 .01043	.00020 .00022 .00011 .03759 .02912 .03177 .16897 .02106 1.01637 .00374	.00011 .00010 .00012 .02444 .01426 .01989 .33256 .07709 .01723 .98439	.00005 .0008 .00011 .00927 .00483 .00811 .06324 .00422 .00655 .00187	.00027 .00067 .00090 .04496 .02228 .01207 .17493 .18766 .00772 .00389	.00040 .00011 .00007 .02229 .02022 .01356 .11252 .00782 .03429 .00158	$\begin{array}{c} .00036\\ .00077\\ .00043\\ .03053\\ .02182\\ .01590\\ .06896\\ .04623\\ .01135\\ .00157\end{array}$.00614 .00785 .00012 .03368 .05474 .01132 .06377 .006888 .00225 .00318	.00012 .00013 .00018 .02816 .00776 .01084 .05370 .01579 .00329 .00398	.00027 .00029 .00024 .00695 .00315 .00876 .04679 .00511 .00180 .00183	.00067 .00039 .00011 .00946 .00502 .01008 .06014 .02181 .00226 .00258	.00021 .00019 .00013 .01353 .00796 .02635 .03722 .01032 .00253 .02388	.00099 .00107 .00085 .01061 .00741 .01066 .02772 .00721 .00189 .00505	.00108 .00045 .00050 .01413 .01010 .01048 .03101 .00864 .00198 .00504	.00028 .00112 .00051 .01998 .01296 .01291 .05047 .01412 .00281 .00711	.00023 .00019 .00021 .01042 .00645 .00946 .01955 .00559 .00113 .00203	.00027 .00074 .00045 .00896 .00599 .00884 .02347 .00990 .00124 .00417	.00036 .00016 .00020 .00745 .00331 .00968 .02043 .00726 .00117 .00275	.00075 .00016 .00172 .00869 .00508 .01027 .02000 .00753 .00117 .00260	21 22 23 24 25 26 27 28 29 30
$\begin{array}{r} .20853\\ .02294\\ .00005\\ .00020\\ .00189\\ .00833\\ .03523\\ .04923\\ .01321\\ .00546\end{array}$	$\begin{array}{c} .11454\\ .03977\\ .00005\\ .00017\\ .00270\\ .00908\\ .02229\\ .02763\\ .00981\\ .00362\end{array}$	$\begin{array}{c} .05384\\ .04514\\ .00005\\ .00017\\ .01764\\ .00462\\ .02295\\ .01925\\ .02531\\ .00246\end{array}$.09912 .01832 .00008 .00037 .00301 .01835 .04452 .04552 .06138 .00365	1.05619 .00699 .00003 .0012 .00106 .00759 .02123 .01000 .00491 .00488	$\begin{array}{c} .06161\\ 1.00364\\ .00021\\ .00064\\ .00744\\ .01051\\ .03126\\ .02086\\ .00382\\ .00478\end{array}$	$\begin{array}{c} .05175\\ .01284\\ 1.05237\\ .00110\\ .00836\\ .00581\\ .01447\\ .01179\\ .01647\\ .00211 \end{array}$	$\begin{array}{c} .03114\\ .07780\\ .19793\\ 1.02281\\ .00299\\ .00428\\ .01391\\ .01053\\ .00450\\ .00185\end{array}$	$\begin{array}{c} .04890\\ .01267\\ .00010\\ .00047\\ 1.05101\\ .02321\\ .01370\\ .02567\\ .00206\\ .00617\end{array}$.06177 .01855 .00005 .00020 .00211 1.10918 .02972 .02632 .00160 .00503	.04735 .01084 .00005 .00017 .00092 .01578 1.23918 .06041 .00115 .00519	$\begin{array}{c} .05091\\ .01831\\ .00003\\ .00010\\ .00136\\ .00992\\ .05600\\ 1.57981\\ .00145\\ .00569\end{array}$	$\begin{array}{c} .04054\\ .01115\\ .00003\\ .00011\\ .00094\\ .00856\\ .39066\\ .25027\\ 1.03608\\ .00461\end{array}$	$\begin{array}{c} .03063\\ .01740\\ .00004\\ .00013\\ .00924\\ .01057\\ .29992\\ .17914\\ .00185\\ .96584\end{array}$.02850 .01707 .00007 .00236 .00883 .35615 .09285 .00330 .00680	$\begin{array}{c} .03245\\ .03445\\ .00009\\ .00033\\ .00271\\ .01072\\ .27089\\ .13772\\ .00231\\ .00901 \end{array}$.02718 .01410 .00003 .00009 .00112 .01447 .22501 .10471 .00084 .02132	$\begin{array}{c} .02298\\ .04100\\ .00006\\ .00019\\ .00127\\ .00929\\ .21686\\ .04809\\ .00125\\ .00834 \end{array}$.02358 .02801 .00004 .00012 .00120 .01394 .25997 .04401 .00083 .02448	$\begin{array}{c} .02546\\ .02768\\ .00003\\ .00010\\ .00104\\ .01027\\ .21514\\ .06433\\ .00085\\ .02792 \end{array}$	31 32 33 34 35 36 37 38 39 40
.00311 .00954 .00271 .00094 .00473 .00057 .00260 .01043 .00776 .00370	.00283 .00815 .00189 .00059 .00291 .00043 .00220 .00668 .00600 .00342	$\begin{array}{c} .00676\\ .01217\\ .00108\\ .00065\\ .00160\\ .00036\\ .00252\\ .00268\\ .00268\\ .00444\\ .00260\end{array}$.00445 .01243 .00160 .00062 .00271 .00044 .00224 .00390 .00435 .00350	.00188 .00991 .00314 .00034 .00463 .00038 .00143 .00093 .00564 .00333	.00634 .01341 .00167 .00052 .00218 .00041 .00465 .00486 .00470 .00553	.00264 .00525 .00102 .00143 .00120 .00025 .00153 .00171 .00203 .00293	.00513 .01289 .00080 .00057 .00099 .00033 .00250 .00269 .00188 .00409	.00480 .00632 .00159 .00034 .00219 .00042 .00640 .00736 .00351 .00665	.00391 .01866 .00270 .00053 .01205 .00089 .00279 .00188 .00456 .00507	.01014 .02068 .00408 .00297 .00980 .00177 .01084 .00261 .01689 .01014	.00910 .01854 .00283 .00046 .00504 .00121 .01593 .00178 .01516 .00948	$\begin{array}{c} .01156\\ .02130\\ .00209\\ .00110\\ .00418\\ .00084\\ .01035\\ .00159\\ .00836\\ .00838\end{array}$.03625 .04154 .00538 .00308 .00687 .00142 .01188 .00338 .01614 .01138	.97620 .03175 .00307 .00195 .00407 .00103 .01842 .00197 .00996 .03677	$\begin{array}{c} .02387\\ .89927\\ .00411\\ .00198\\ .00919\\ .00120\\ .01679\\ .00270\\ .01663\\ .01192 \end{array}$.03687 .02716 .98150 .00636 .03704 .00134 .02211 .00224 .04540 .04105	.03064 .02335 .07046 1.01420 .01612 .00212 .01827 .00284 .05286 .02828	.01642 .02320 .03886 .02024 1.03904 .00413 .01472 .00260 .07314 .01441	$\begin{array}{c} .02121\\ .03036\\ .01965\\ .00400\\ .04413\\ .93632\\ .01835\\ .00777\\ .07230\\ .02523\end{array}$	41 42 43 44 45 46 47 48 49 50
$\begin{array}{c} .00134\\ .00279\\ .00483\\ .00053\\ .00129\\ .00098\\ .00175\\ .00140\\ .00358\\ .00099\end{array}$	$\begin{array}{c} .00085\\ .00174\\ .00315\\ .00042\\ .00107\\ .00106\\ .00144\\ .00085\\ .00325\\ .00085\end{array}$.00109 .00128 .00206 .00089 .00087 .00085 .00178 .00086 .00342 .00069	.00082 .00147 .00289 .00048 .00102 .00090 .00132 .00094 .00746 .00087	.00044 .00125 .00525 .00045 .00139 .00070 .00088 .00064 .00404 .00404	.00164 .00125 .00310 .00089 .00188 .00154 .00262 .00107 .00412 .00257	.00061 .00094 .00153 .00036 .00082 .00058 .00096 .00095 .00279 .00058	.00089 .00074 .00145 .00037 .00105 .00076 .00128 .00143 .00264 .00064	.00051 .00085 .00424 .00098 .00261 .00075 .00111 .00069 .00338 .00072	.00057 .00120 .00405 .00038 .00214 .00136 .00180 .00101 .01060 .00168	.00094 .00153 .01243 .00092 .00227 .00127 .00198 .00176 .01762 .00249	.00071 .00287 .01091 .00060 .00384 .00453 .00339 .00796 .00993 .00136	.00068 .00205 .00633 .00165 .00166 .00136 .00156 .00193 .00877 .00132	.00201 .00654 .01544 .00304 .00271 .00236 .00341 .00179 .01392 .00384	$\begin{array}{c} .00239\\ .00206\\ .00821\\ .00641\\ .00426\\ .00175\\ .00395\\ .00232\\ .05018\\ .00385\end{array}$	$\begin{array}{c} .00403\\ .00316\\ .01041\\ .00109\\ .00302\\ .00358\\ .00361\\ .00178\\ .01250\\ .00391 \end{array}$.00108 .00164 .02880 .00080 .00164 .00200 .00466 .01505 .03830 .04772	.00097 .00323 .01392 .00247 .00243 .00130 .00238 .00939 .04648 .00702	.00113 .00181 .02237 .00083 .00142 .00174 .00296 .00255 .03341 .00697	.00516 .00413 .04706 .00086 .00366 .00252 .00350 .00314 .02144 .00749	$\begin{array}{c} 51 \\ 52 \\ 53 \\ 54 \\ 55 \\ 56 \\ 57 \\ 58 \\ 59 \\ 60 \end{array}$
.00105 .00290 .00289 .00439 .08274 .00921 .00356 .10491 .07704 .02244	.00094 .00199 .00244 .00256 .07464 .00865 .00367 .08766 .08055 .01944	.00088 .00565 .00262 .00561 .05479 .01193 .00945 .04009 .07481 .02324	.00111 .00144 .00213 .00385 .08385 .00972 .00392 .05563 .08979 .02295	.00073 .00114 .00076 .00127 .05666 .00680 .00243 .05365 .04183 .02181	.00095 .00224 .00309 .00579 .06410 .00874 .00313 .05751 .07071 .01895	.00084 .00105 .00122 .00181 .06036 .00837 .00299 .04626 .11297 .02011	.00069 .00145 .00122 .01659 .04480 .01177 .00375 .03327 .07898 .02497	.00088 .00504 .00138 .00150 .06090 .00809 .00255 .09197 .06234 .01716	.00131 .00101 .00166 .00452 .11172 .00954 .00296 .07800 .06372 .02232	.00147 .00234 .00104 .00194 .08011 .00679 .00244 .08782 .09329 .01858	.00116 .00261 .00106 .00239 .08082 .00857 .00275 .09155 .10913 .02323	.00106 .00151 .00158 .00184 .07308 .00723 .00251 .06143 .09386 .02138	.00430 .00422 .00131 .0281 .05631 .01023 .00303 .04850 .09137 .01997	.00132 .00252 .00156 .00283 .05561 .01131 .00279 .05119 .08122 .01787	$\begin{array}{c} .00200\\ .00397\\ .00154\\ .00411\\ .05075\\ .01030\\ .00288\\ .05055\\ .08065\\ .02090\\ \end{array}$.00853 .00166 .00305 .00160 .04601 .00862 .00256 .04036 .08415 .01661	.01097 .00148 .00132 .00217 .04511 .00778 .00228 .03839 .11235 .01496	.00444 .00201 .00170 .00205 .04481 .01066 .00263 .03973 .10340 .01645	.00231 .00312 .00159 .00232 .04071 .00971 .00264 .03636 .09693 .01629	61 62 63 64 65 66 66 67 68 69 70
.03993 .00592 .05872 .01374 .00725 .00182 .00270 .00758 .01448	.03502 .06054 .01343 .00845 .00176 .00270 .00641 .01254	.03888 .00755 .15587 .02033 .00713 .00373 .00571 .00777 .00708	.03177 .00772 .06476 .01649 .00867 .00193 .00305 .00775 .00912	.08022 .00294 .04030 .01014 .00586 .00117 .00188 .00433 .00840	.02779 .00525 .05158 .01240 .00701 .00151 .00307 .00556 .00885	.02978 .01251 .04928 .00972 .00703 .00160 .00257 .00629 .01057	.02544 .00954 .06191 .01364 .00710 .00168 .00204 .01233 .00618	.02751 .00477 .04203 .00984 .00844 .00128 .00176 .00658 .01253	.02627 .00518 .04888 .01210 .01018 .00137 .00213 .00619 .01351	.02156 .00466 .04019 .00821 .00676 .00120 .00140 .00598 .01256	.02447 .00527 .04538 .01023 .00950 .00145 .00210 .00648 .01310	.02360 .00616 .04149 .01156 .00749 .00135 .00204 .00531 .00966	.02244 .00813 .04587 .01173 .00761 .00170 .00195 .00562 .00769	.02001 .00517 .04604 .00934 .00793 .00132 .00288 .00513 .00794	.02127 .00549 .04749 .01080 .00704 .00136 .00195 .00557 .00557	.01774 .00511 .04215 .01021 .00775 .00141 .00156 .00494 .00644	.01934 .00395 .03754 .00942 .00593 .00123 .00144 .00545 .00621	.01786 .00438 .04324 .01032 .00577 .00135 .00130 .00506 .00634	.02085 .00472 .04357 .01143 .00712 .00151 .00147 .00562 .00584	71 72 73 74 75 76 77 77 78 79

Table 5.—Industry-by-Commodity

[Total requirements, direct and indirect, per dollar

										Total requ	irements,	direct and	mairect,	per donar
Industry number	Each entry represents the output required, directly and indirectly, from the industry named at the beginning of the row for each dollar of delivery to final demand of the commodity named at the head of the column	Metalworking machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery, except electrical	Office, computing, and accounting machines	Service industry machines	Electric industrial equipment and apparatus	Household appliances	Electric lighting and wiring equipment	Radio, TV, and communication equipment	Electronic components and accessories	Misc. electrical machinery and supplies	Motor vehicles and equipment
	Commodity number	47	48	49	50	51	52	53	54	55	56	57	58	59
1 2 3 4 5 6 7 8 9 10	Livestock and livestock products	0.00148 .00138 .00056 .00048 .00759 .00491 .01214 .02167 .00199 .00092	0.00180 .00290 .00084 .00070 .00746 .00591 .01201 .02525 .00176 .00138	0.00194 .00186 .00080 .00060 .00976 .00622 .01500 .02573 .00206 .00091	0.00166 .00151 .00049 .00617 .00518 .01043 .02604 .00206 .00066	0.00240 .00220 .00063 .00223 .00413 .00548 .02844 .00120 .00088	0.00177 .00183 .00107 .00069 .00760 .01030 .01300 .01300 .02740 .00196 .00206	$\begin{array}{c} 0.00172\\.00166\\.00076\\.00064\\.00593\\.00903\\.01069\\.02524\\.00192\\.00107\end{array}$	0.00196 .00255 .00144 .0077 .00748 .00766 .01357 .02809 .00224 .00159	$\begin{array}{c} 0.00192\\.00211\\.00095\\.00072\\.00574\\.00899\\.01100\\.02745\\.00243\\.00150\end{array}$	0.00210 .00212 .00081 .00076 .00169 .00486 .00487 .01874 .00111 .00091	0.00238 .00231 .00069 .00073 .00215 .00698 .00651 .02678 .00215 .00159	0.00184 .00190 .00058 .00070 .00424 .01431 .00867 .03021 .00150 .00214	0.00168 .00285 .00082 .00069 .00990 .00612 .01605 .02675 .00233 .00137
11 12 13 14 15 16 17 18 19 20	New construction Maintenance and repair construction Ordnance and accessories	.01713 .00222 .00527 (*) .00211 .00088 .00057 .00066 .00529	.01972 .00234 .00767 (*) .00679 .00298 .00066 .00043 .00830	.02096 .00055 .00668 (*) .00378 .00576 .00092 .00041 .00753	.01723 .00138 .00581 (*) .00254 .00276 .00061 .00044 .00415	.01667 .00025 .00856 .00001 .00437 .00207 .00082 .00043 .00043	.02088 .00051 .00703 .00001 .00404 .00182 .00069 .00067 .01077	.02118 .00103 .00611 .00299 .00141 .00062 .00045 .00708	.02322 .00041 .00710 .00001 .01118 .00268 .00088 .00088 .00051 .01500	.02071 .00034 .00680 .00001 .00646 .00158 .00068 .00045 .00915	.01714 .00997 .00735 (*) .00555 .00212 .00131 .00044 .00760	.02060 .00048 .00851 .00001 .00503 .00245 .00173 .00042 .00564	.01963 .00027 .00657 .00001 .00382 .00178 .00060 .00042 .00481	
21 22 23 24 25 26 27 28 29 30	Wood containers Household furniture Other furniture and fixtures Paper and allied products, except containers Paperboard containers and boxes Printing and publishing	.00063 .00052 .00031 .00846 .00688 .00936 .02245 .00695 .00108 .00245	$\begin{array}{c} .00034\\ .00023\\ .00044\\ .01064\\ .00478\\ .01180\\ .04526\\ .00856\\ .00191\\ .00132\end{array}$.00056 .00017 .00045 .01221 .00688 .01027 .02140 .00817 .00276 .00170	.00020 .00017 .00048 .01002 .00859 .01406 .01450 .00470 .00111 .00135	.00015 .00167 .00084 .03209 .00894 .01677 .02606 .01625 .00150 .00319	$\begin{array}{c} .00187\\ .00023\\ .00075\\ .01442\\ .01205\\ .01113\\ .03268\\ .01492\\ .00174\\ .00484\end{array}$.00067 .00029 .00013 .01740 .00800 .01044 .02801 .01117 .00135 .00388	.00168 .00443 .00098 .02367 .02222 .01392 .04457 .03177 .00276 .01012	.00037 .00091 .00045 .01934 .02337 .01154 .04237 .02285 .00192 .00432	.00060 .01199 .00036 .01598 .00726 .01843 .02802 .01808 .00163 .00202	.00026 .00258 .00014 .02843 .00975 .01261 .04944 .01835 .00195 .00156	$\begin{array}{c} .00019\\ .00026\\ .00039\\ .01317\\ .01035\\ .01013\\ .06693\\ .01840\\ .00558\\ .00298 \end{array}$	$\begin{array}{c} .00040\\ .00056\\ .00285\\ .01297\\ .00716\\ .01053\\ .03625\\ .02133\\ .00201\\ .00663\end{array}$
31 32 33 34 35 36 37 38 39 40	Petroleum refining and related industries Rubber and miscellaneous plastics products Leather tanning and finishing Footwear and other leather products Glass and glass products Stone and clay products Primary iron and steel manufacturing Primary nonferrous metals manufacturing Metal containers	.02334 .01933 .00005 .00027 .00138 .01677 .15280 .06842 .00137 .01082	.02690 .02725 .00005 .00018 .00266 .01055 .14536 .07568 .00113 .01782	.02825 .02158 .00003 .00009 .00156 .01401 .19537 .08279 .00089 .01621	.01991 .01122 .00003 .00009 .01936 .12299 .07064 .00068 .00779	.02262 .05365 .00004 .00014 .00374 .00751 .04415 .05852 .00110 .01175	.02921 .03197 .00005 .00015 .00239 .01243 .14911 .14788 .00126 .01695	$\begin{array}{r} .02714\\ .02464\\ .00003\\ .00010\\ .00246\\ .01477\\ .11602\\ .13091\\ .00105\\ .00807\end{array}$.02861 .06166 .00008 .00018 .00847 .01329 .14611 .10329 .00187 .00853	.02865 .03840 .00004 .00012 .03817 .01250 .11629 .13013 .00153 .00444	$\begin{array}{r} .01957\\ .05078\\ .00009\\ .00014\\ .00640\\ .00679\\ .03275\\ .07157\\ .00101\\ .00843\end{array}$.02797 .05403 .00005 .00014 .02048 .01616 .04117 .10194 .00125 .00510	.03169 .03675 .00003 .00010 .00290 .00766 .06833 .20998 .00147 .00668	$\begin{array}{c} .02774\\ .06913\\ .00035\\ .00028\\ .01457\\ .01155\\ .19549\\ .07723\\ .00161\\ .00487\end{array}$
41 42 43 44 45 46 47 48 49 50	Screw machine products and stampings	.03646 .02775 .00537 .00140 .00455 .00201 .94401 .00681 .02781 .03043	$\begin{array}{r} .01470\\ .03100\\ .01439\\ .00391\\ .00496\\ .00405\\ .02349\\ .94155\\ .04593\\ .03312\end{array}$.02145 .02643 .01314 .00317 .01375 .00395 .02131 .00799 .95298 .02678	$\begin{array}{r} .01177\\ .02731\\ .00578\\ .00107\\ .00457\\ .00170\\ .02143\\ .00197\\ .02569\\ 1.01496\end{array}$.02564 .02235 .00254 .00039 .00134 .00039 .00857 .00857 .00351 .00734 .00776	.03509 .03212 .00862 .00122 .00397 .00080 .01498 .00403 .03229 .02062	.02303 .02127 .03026 .00066 .00461 .00093 .01231 .00135 .01261 .00987	$\begin{array}{c} .03925\\ .03443\\ .00417\\ .00180\\ .00264\\ .00056\\ .00901\\ .00207\\ .01456\\ .00888\end{array}$.03337 .02933 .00185 .00123 .00208 .00208 .00046 .01170 .00163 .00731 .00805	.01613 .02206 .00151 .00056 .00196 .00041 .00623 .00107 .00387 .00712	$\begin{array}{c} .02343\\ .03075\\ .00129\\ .00038\\ .00157\\ .00035\\ .00859\\ .00150\\ .00576\\ .00576\\ .00747 \end{array}$.02125 .03139 .00176 .00078 .00208 .00073 .01070 .00159 .01133 .00928	$\begin{array}{c} .09815\\ .03972\\ .01503\\ .00121\\ .00493\\ .00140\\ .00998\\ .00187\\ .01556\\ .02120\\ \end{array}$
51 52 53 54 55 56 57 58 59 60	Office, computing, and accounting machines Service industry machines Electric industrial equipment and apparatus Household appliances Electric lighting and wiring equipment. Radio, TV, and communication equipment. Electronic components and accessories Miscellaneous electrical machinery and supplies Motor vehicles and equipment Aircraft and parts	.00228 .00201 .03258 .00052 .00303 .00165 .00495 .00245 .01880 .00367	.00244 .00313 .04348 .00076 .00186 .00547 .01291 .00177 .00950 .00893	.00609 .00783 .04459 .00463 .00185 .00236 .00236 .00894 .00269 .01193 .01151	.00181 .00225 .01019 .00074 .00186 .00378 .00424 .01475 .01347 .00534	$\begin{array}{c} 1.08423\\.00177\\.04122\\.00061\\.00655\\.01641\\.16164\\.00437\\.00681\\.00586\end{array}$	$\begin{array}{c} .00183\\ .98914\\ .08156\\ .02552\\ .00714\\ .00306\\ .00476\\ .00320\\ .02371\\ .00445\end{array}$	$\begin{array}{c} .00824\\ .00172\\ .98061\\ .00303\\ .01173\\ .01219\\ .02912\\ .00889\\ .01726\\ .00577\end{array}$.00301 .03747 .05872 .94933 .01125 .00268 .00537 .00213 .01572 .00169	.00322 .00235 .03307 .00149 .93291 .00713 .02966 .02408 .01635 .00469	.01150 .00149 .01616 .00132 .01115 1.02579 .18402 .00318 .00488 .00828	$\begin{array}{c} .04200\\ .00145\\ .02502\\ .00051\\ .00980\\ .03528\\ 1.03462\\ .00387\\ .00463\\ .00402\\ \end{array}$.00624 .00517 .01831 .00282 .00959 .00321 .04314 .96420 .03502 .00112	$\begin{array}{r} .00136\\ .02081\\ .00991\\ .00176\\ .00824\\ .01082\\ .00737\\ .02487\\ 1.34830\\ .00309\end{array}$
61 62 63 64 65 66 67 68 69 70	Other transportation equipment Scientific and controlling instruments Optical, ophthalmic, and photographic equipment Miscellaneous manufacturing Transportation and warehousing Communications, except radio and TV Radio and TV broadcasting Electric, gas, water, and sanitary services Wholesale and retail trade Finance and insurance	.00366 .00348 .00186 .00270 .03462 .00785 .00228 .03406 .06187 .01533	.00201 .00240 .00349 .00244 .03986 .01162 .00267 .03602 .08551 .01993	.00397 .00609 .00282 .00244 .04145 .01186 .00276 .03924 .08116 .01793	.00179 .00282 .00328 .00269 .03942 .00994 .00411 .03429 .05127 .01803	$\begin{array}{c} .00092\\ .00626\\ .00665\\ .00323\\ .03986\\ .01287\\ .00361\\ .02950\\ .09048\\ .02570\end{array}$.00204 .01572 .00178 .00390 .04864 .01045 .00292 .04153 .10688 .01724	$\begin{array}{c} .00616\\ .00934\\ .00243\\ .00217\\ .04296\\ .00958\\ .00256\\ .03860\\ .08817\\ .02261\end{array}$.00119 .02948 .00223 .00750 .04826 .00933 .00388 .04508 .04508 .09681 .01980	.00112 .00967 .00932 .00321 .04868 .00914 .00300 .04263 .09638 .02473	$\begin{array}{r} .00103\\ .00612\\ .00638\\ .00315\\ .03530\\ .01169\\ .00347\\ .02880\\ .08189\\ .01749\end{array}$.00149 .00582 .00598 .00277 .04512 .01157 .00327 .04063 .08857 .02344	.00089 .00569 .00319 .00227 .05401 .00832 .00269 .04318 .08419 .02493	$\begin{array}{c} .00293\\ .00432\\ .00155\\ .00246\\ .04874\\ .00747\\ .00291\\ .04218\\ .10175\\ .01773\end{array}$
71 72 73 74 75 76 77 78 79	Real estate and rental	.01756 .00419 .03756 .01089 .00629 .00116 .00186 .00428 .00428	.02063 .00525 .04394 .01208 .00581 .00128 .00125 .00622 .00576	.02040 .00520 .04550 .01432 .00670 .00163 .00211 .00577 .00623	.02347 .00602 .06784 .01269 .00852 .00175 .00284 .00496 .00555	$\begin{array}{c} .02672\\ .01632\\ .05948\\ .01832\\ .00651\\ .00174\\ .00213\\ .00592\\ .00538\end{array}$.02083 .00630 .04817 .01201 .00611 .00146 .00218 .00483 .00483	.02290 .00728 .04230 .01239 .00605 .00130 .00154 .00543 .00620	$\begin{array}{c} .02041\\ .00650\\ .06401\\ .01167\\ .00671\\ .00176\\ .00239\\ .00764\\ .00713\end{array}$	$\begin{array}{c} .02191\\ .00863\\ .04951\\ .01322\\ .00658\\ .00156\\ .00198\\ .00585\\ .00689\\ \end{array}$	$\begin{array}{c} .04824\\ .01251\\ .05737\\ .01556\\ .00570\\ .00188\\ .00267\\ .00775\\ .00775\\ .00512 \end{array}$	$\begin{array}{c} .02454\\ .01135\\ .05400\\ .01775\\ .00806\\ .00217\\ .00284\\ .00630\\ .00666\end{array}$	$\begin{array}{c} .02391\\ .00877\\ .04447\\ .01230\\ .00751\\ .00298\\ .00170\\ .00479\\ .00719\end{array}$	$\begin{array}{c} .01876\\ .00450\\ .04804\\ .00881\\ .01341\\ .00161\\ .00257\\ .00569\\ .00690\\ \end{array}$

*Less than 0.000005.

Note.—The generation of the requirement for the commodity scrap, used, and secondhand goods is based on the assumption that the proportion of the commodity in each industry's total output will be the same as in 1977.

Total Requirements, 1977—Continued

of delivery to final demand, at producers' prices]

Aircraft and parts	Other transportation equipment	Scientific and controlling instruments	Optical, ophthalmic, and photographic equipment	Miscellaneous	Transportation and warehousing	Communications, except radio and TV	Radio and TV broadcasting	Electric, gas, water, and sanitary services	Wholesale and retail trade	Finance and insurance	Real estate and rental	Hotels; personal and repair services (Exc. auto)	Business services	Eating and drinking	Automobile repair and services	Amusements	Health, educ., and social serv. and nonprofit org.	Federal Government enterprises	State and local government enterprises	Industry number
60 0.00325 .00292 .00066 0.00063 .00317 .00607 .00673 .02024 .00107 .00061	61 0.00194 .00319 .00558 .00123 .00855 .00855 .008565 .01372 .02665 .00241 .00118	62 0.00324 .00412 .00096 .00078 .00285 .00565 .00669 .02481 .00143 .00133	63 0.00244 .00256 .00082 .00139 .00490 .00568 .03238 .00168 .00346	64 0.00399 .00690 .00383 .00133 .00261 .00687 .00716 .03206 .00299 .00200	65 0.00187 .00181 .00056 .00075 .00081 .00079 .00318 .06723 .00147 .00044	66 0.00070 .00066 .00030 .00045 .00053 .00158 .00780 .00083 .00016	67 0.00488 .01074 .00052 .00163 .00023 .00045 .00213 .01098 .00055 .00029	68 0.00096 .00099 .00060 .00095 .00082 .00081 .08756 .23650 .00190 .00062	69 0.00284 .00243 .00060 .00204 .00023 .00027 .00270 .01973 .00051 .00020	70 0.00179 .00147 .00035 .00045 .00014 .00020 .00179 .01022 .00032 .00015	71 0.00119 .00139 .00042 .005566 .00028 .00033 .00164 .00794 .00144 .00019	72 0.00257 .00351 .00070 .00150 .00044 .00073 .00488 .02396 .00101 .00054	73 0.00260 .00257 .00066 .00063 .00034 .00047 .00208 .01397 .00053 .00040	74 0.10073 .07120 .01039 .00726 .00066 .00081 .00464 .02392 .00119 .00078	75 0.00126 .00132 .00044 .00065 .00246 .00176 .00567 .02672 .00167 .00058	76 0.01286 .04227 .00106 .00529 .00041 .00056 .00372 .02183 .00116 .00050	77 0.00745 .00582 .00077 .00162 .00040 .00071 .00360 .02230 .00100 .00090	78 0.00444 .00351 .00061 .00060 .00022 .00026 .00169 .01434 .00038 .00017	79 0.00188 .00207 .00142 .00269 .00117 .00142 .01826 .06677 .00540 .00141	1 2 3 4 5 6 7 8 9 9 10
.01742 .01724 .01157 (*) .00668 .00125 .00097 .00250 .00424	.02078 .00313 .00577 (*) .01068 .01416 .00192 .00466 .06385	.01710 .00062 .01113 .00001 .02397 .00914 .00435 .00097 .00914	.01717 .00058 .00885 .00001 .00457 .00245 .00058 .00058	.02174 .00074 .01213 .00004 .03663 .00631 .00382 .00441 .03943	.05814 .00023 .00647 (*) .00234 .00154 .00135 .00096 .00469	.04212 .00029 .00235 (*) .00101 .00042 .00103 .00020 .00269	.02148 .00010 .01326 (*) .00186 .00065 .00131 .00053 .00293	.08114 .00010 .00318 .00118 .00069 .00044 .00023 .00599	.01778 .00009 .00962 (*) .00120 .00063 .00051 .00033 .00415	.01150 .00008 .00635 (*) .00134 .00043 .00043 .00027 .00092 .00211	.08163 .00005 .00227 (*) .00059 .00050 .00012 .00016 .00418	.02580 .00010 .00836 (*) .01496 .01110 .00216 .01110 .00783 .00568	.01319 .00055 .00886 .00001 .00193 .00076 .00066 .00066 .00038 .00501	.02384 .00010 .36614 .0003 .00251 .00142 .00045 .00094 .00499	.02327 .00027 .00436 (*) .00395 .00163 .00152 .00302 .00374	.04782 .00011 .02643 (*) .00604 .00188 .00508 .00174 .00816	.03570 .00009 .02534 .00001 .00415 .00122 .00305 .00210 .00210	.01302 .00006 .01620 (*) .00344 .00086 .00041 .00342 .00169	.28581 .00015 .00583 (*) .00219 .00166 .00112 .00050 .01470	11 12 13 14 15 16 17 18 19 20
.00032 .00122 .00073 .00833 .00833 .00312 .01348 .01700 .00724 .00129 .00258	.00030 .00378 .00405 .01044 .00494 .01022 .02998 .01588 .00163 .00840	.00018 .00177 .00164 .02765 .01253 .01478 .04408 .02373 .00993 .00244	.00014 .00076 .00051 .05006 .01100 .01489 .11687 .02223 .00335 .00152	.00048 .00141 .00112 .05138 .02383 .01979 .06217 .04009 .00541 .00723	.00005 .00013 .00016 .00635 .00196 .01129 .01267 .00386 .00118 .00177	.00003 .00034 .00008 .00096 .00854 .00433 .00173 .00110 .00146	.00005 .00015 .00007 .00615 .00134 .01265 .00856 .00204 .00082 .00061	.00004 .00008 .00013 .00478 .00650 .00650 .01733 .00235 .00131 .00176	.00008 .00005 .00005 .01842 .00308 .01808 .00574 .00191 .00102 .00064	.00002 .00005 .00004 .01228 .00101 .03138 .00428 .00134 .00070 .00041	.00003 .00006 .00011 .00296 .00059 .00614 .00472 .00123 .00036 .00153	.00007 .00024 .00011 .01234 .00368 .01648 .01648 .01589 .00663 .01290 .00104	.00004 .0009 .00007 .03469 .00230 .14437 .01164 .00312 .00197 .00092	.00037 .00012 .00008 .02313 .01717 .01553 .02211 .00517 .00506 .00112	.00016 .00020 .00042 .00741 .00299 .00985 .01454 .00551 .00105 .00878	.00014 .00017 .00861 .00201 .01983 .01437 .00370 .00148 .00133	.00006 .00010 .00010 .01779 .00316 .03350 .02679 .00505 .02166 .00114	.00003 .00005 .00074 .00172 .01502 .00500 .00180 .00180 .00167 .00051	.00008 .00023 .00041 .00808 .00199 .01004 .02878 .00440 .00180 .00543	21 22 23 24 25 26 27 28 29 30
.02178 .01715 .00007 .00016 .00203 .00640 .06224 .09004 .00096 .00680	.02906 .02689 .00011 .00015 .00729 .01777 .16789 .07089 .00137 .04707	.02683 .04719 .00036 .00113 .00798 .00861 .05484 .07811 .00176 .00748	.03529 .04108 .00006 .00020 .01081 .00680 .02246 .05780 .00197 .00256	.03567 .04323 .00305 .00391 .00245 .00908 .04929 .09556 .00207 .00327	.09266 .01312 .00004 .0009 .00105 .00513 .01560 .00915 .00088 .00436	.00824 .00485 .00002 .00004 .00063 .00309 .00597 .00720 .00031 .00285	.01105 .00472 .00006 .00022 .00109 .00204 .00431 .00537 .00066 .00157	.10706 .00585 .00002 .00006 .00066 .00631 .01540 .00819 .00089 .00553	.02264 .00555 .00007 .00028 .00083 .00186 .00445 .00302 .00090 .00133	.01076 .00291 .00005 .00013 .00045 .00109 .00263 .00218 .00045 .00084	.00844 .00353 .00001 .00003 .00040 .00478 .00538 .00538 .00399 .00028	.02340 .01358 .00033 .00084 .00624 .00624 .00625 .00096 .00207	.01641 .00691 .0004 .00011 .00084 .00180 .00635 .00509 .00509 .00091 .00124	.02505 .01627 .00005 .00015 .00824 .00391 .01219 .00819 .01240 .00191	.03201 .01479 .00007 .00011 .01365 .04878 .02194 .00117 .00261	.02325 .00783 .00023 .00090 .00112 .00375 .00762 .00582 .00128 .00330	.02433 .01397 .00009 .00021 .00234 .00312 .00686 .00619 .00187 .00251 .00229	.01742 .00378 .00020 .00070 .00063 .00128 .00427 .00294 .00078 .00103	.05177 .00999 .00004 .00014 .00137 .02091 .02195 .01548 .00112 .01745 .00306	31 32 33 34 35 36 37 38 39 40
.01704 .01671 .00275 .00087 .00162 .00058 .01517 .00085 .01159 .01755	.02093 .02702 .03311 .00276 .00817 .00150 .00980 .00348 .02946 .01806	02721 03341 00299 00082 00413 00075 00997 00335 00738 00937	.01040 .01420 .00102 .00033 .00130 .00027 .00326 .00202 .00489 .00453	.01086 .02012 .00149 .00072 .00221 .00039 .00453 .00229 .00382 .00550	.00342 .00797 .00294 .00030 .00110 .00036 .00154 .00043 .00412 .00282	.00280 .00311 .00218 .00013 .00045 .00020 .00057 .00020 .00145 .00095	.00156 .00253 .00043 .00028 .00042 .00016 .00051 .00029 .00073 .00074	.00295 .00676 .00815 .00054 .00601 .00068 .00120 .00039 .00388 .00288	.00153 .00281 .00055 .00026 .00052 .00052 .00052 .00052 .00052 .00079 .00128	.00084 .00150 .00038 .00020 .00039 .00014 .00029 .00032 .00058 .00046	.00075 .00298 .00031 .00030 .00041 .00032 .00032 .00017 .00065 .00046	.00283 .00550 .00075 .00025 .00025 .00022 .00085 .00061 .00120 .00152	.00195 .00357 .00110 .00161 .00213 .00087 .00127 .00127 .00141 .00248 .00136	.00552 .00479 .00085 .00134 .00078 .00023 .00096 .00156 .00147 .00320	.04680 .03277 .00333 .00044 .00158 .00041 .00310 .00066 .00385 .01228	.00242 .00419 .00084 .00070 .00076 .00030 .00064 .00049 .00121 .00124	.00393 .00061 .00028 .00068 .00068 .00066 .00068 .00107 .00099	.00217 .00203 .00052 .00015 .00036 .00018 .00039 .00024 .00086 .00101	.01149 .00245 .00413 .00234 .00114 .00164 .00065 .00309 .00859	41 42 43 44 45 46 47 48 49 50
.00465 .00091 .00725 .00097 .00181 .06171 .03706 .00513 .00707 1.17140	.00235 .00681 .01761 .01014 .00799 .00947 .00454 .00454 .00464 .04822 .01176	.01665 .00262 .02836 .00143 .00460 .01286 .04133 .00427 .00957 .01006	.00873 .00084 .00789 .00036 .00311 .00615 .05259 .00223 .00338 .00095	.00377 .00286 .00547 .00115 .00230 .00268 .01113 .00167 .00559 .00295	.00054 .00150 .00492 .00066 .00152 .00169 .00157 .00126 .00983 .00740	00073 .00077 .00127 .00030 .00113 .02521 .01017 .00052 .00493 .00046	.00149 .00064 .00127 .00026 .00085 .00394 .02337 .00039 .00184 .00033	.00039 .00137 .00433 .00058 .00254 .00074 .00095 .00070 .00297 .00087	.00060 .00131 .00086 .00082 .00060 .00094 .00105 .00062 .00451 .00030 .00046	.00131 .00035 .00060 .00054 .00049 .00111 .00171 .00034 .00176 .00021 .00050	.00024 .00121 .00100 .00052 .00043 .00043 .00043 .00043 .00035 .00090 .00014	.01519 .00166 .00257 .00670 .00126 .00215 .01548 .00063 .00294 .00043	.00392 .00066 .00193 .00049 .00100 .00146 .00603 .00075 .00330 .00044	.00056 .00244 .00132 .00040 .00108 .00108 .00108 .00094 .00281 .00049	.00074 .01075 .00567 .00087 .00392 .00334 .00234 .00234 .00873 .16129 .00105	.00077 .00166 .00136 .00049 .00164 .00110 .00156 .00075 .00524 .00041	.00085 .00088 .00134 .00147 .00124 .00230 .00236 .00277 .00042 .00047	.00060 .00072 .00082 .00089 .00089 .00071 .00068 .00067 .00488 .00066	.00053 .00440 .00416 .00285 .00429 .00153 .00124 .00128 .00382 .00066 .00193	51 52 53 54 55 56 57 58 59 60 61
.00201 .01138 .00812 .00242 .01213 .00349 .03168 .05556 .02750	1.01343 .00429 .00164 .00358 .04734 .00972 .00265 .03802 .09612 .01787	.00147 .92299 .01102 .00825 .03827 .01187 .00320 .03302 .07805 .01701	.00068 .01174 .98612 .00215 .04329 .01159 .00362 .03312 .06505 .01761	.00211 .00316 .00281 1.00836 .05597 .01482 .00414 .03744 .09980 .02307	.01049 .00101 .00094 .00211 1.13191 .01309 .00278 .02473 .04384 .02656	.00031 .00056 .00077 .00159 .01185 1.02043 .00181 .01378 .01536 .01443	.00117 .00054 .01464 .00219 .02307 .01350 1.01044 .02142 .02046 .02188	.00077 .00137 .00091 .05697 .00740 .00169 1.07282 .03574 .01931	.00043 .00132 .00264 .02914 .01882 .00475 .02810 1.02095 .02463	$\begin{array}{r} .00033\\ .00195\\ .00350\\ .01883\\ .02813\\ .00497\\ .01855\\ .01334\\ 1.24879\end{array}$.00018 .00039 .00049 .00081 .00768 .00445 .00153 .01384 .01463 .03605	.00044 .00133 .00661 .01665 .01977 .01849 .00358 .05032 .03922 .02682	.00148 .00059 .00757 .00799 .02825 .02817 .05455 .01668 .02654 .02324	.00105 .00056 .00104 .00343 .04461 .01208 .00381 .04146 .10143 .02825	.00101 .00130 .00090 .00179 .04545 .01639 .00292 .02985 .13270 .01806	.00058 .00571 .00590 .03334 .01703 .00571 .03744 .03402 .03133	.00899 .00472 .00444 .02838 .01627 .00365 .03350 .03350 .03427 .01986	.00033 .00083 .00810 .08908 .00764 .00178 .01573 .01887 .00669	.00182 .00136 .00295 .03740 .00992 .00242 .21410 .05315 .01711	62 63 64 65 66 67 68 69 70
.02147 .01730 .05762 .02784 .00625 .00225 .00298 .00778 .00537	.02888 .00499 .04352 .01014 .00699 .00238 .00166 .00514 .00629	.02340 .00557 .05286 .01481 .01268 .00299 .00352 .00625 .00625	$\begin{array}{r} .02185\\ .00701\\ .05975\\ .01586\\ .00666\\ .00253\\ .00525\\ .00519\\ .00559\end{array}$.03267 .00684 .06828 .01397 .00791 .00245 .00435 .00827 .00827	.02708 .00443 .04595 .01288 .02304 .00153 .00265 .00511 .03421	.02262 .00334 .02995 .00518 .00332 .00076 .00153 .00486 .00282	.06494 .01202 .05863 .02116 .00587 .24746 .00469 .00466 .00720	.03694 .00342 .02797 .00613 .00568 .00086 .00201 .02826 .11707	.05067 .00596 .07840 .02008 .01666 .00418 .00198 .01030 .00708	.03810 .00798 .08200 .01454 .00575 .00186 .00582 .02397 .00386	1.06061 .00223 .02826 .00456 .00190 .00074 .00081 .00433 .01009	.05245 1.01668 .05960 .01110 .01001 .00190 .00741 .00691 .00774	.03862 .01111 .89907 .01862 .01027 .01763 .00618 .01185 .00357	.05460 .00887 .06287 .98764 .00673 .01236 .00383 .02729 .00760	.03291 .00477 .04823 .00813 1.00301 .00144 .00174 .00420 .01233	.07110 .01385 .09434 .01726 .01798 1.13731 .00795 .00815 .01612	.07392 .00880 .06040 .01528 .00912 .00387 1.01950 .00915 .00590	.03025 .00287 .02934 .00444 .01096 .00142 .00110 1.00607 .00517	$\begin{array}{c} .02575\\ .00474\\ .03983\\ .01220\\ .00671\\ .00117\\ .00209\\ .01065\\ 1.01261\end{array}$	71 72 73 74 75 76 77 78 79

States and those that are purchased abroad and used abroad by United States residents-are shown in the row for noncomparable imports (row 80) at foreign port value. The total value of all such imports is shown as a negative entry in the import column (row 80, column 95).

Inventories.—Table 1 shows change in business inventories for each commodity. Inventory change, which is a component of final demand, represents the change in inventory of the commodity wherever held and it is stated at book value. The inventory valuation adjustment, which converts inventory change from book value to replacement cost, is shown as a single entry for the total of all commodities (row 85, column 93). (The inventory accounting in I-O differs from that used in the NIPA's. The NIPA's show the change in inventories held by each industry valued at replacement cost.)

Supplementary data

Final demand in the NIPA's is expressed at purchasers' prices rather than producers' prices, and in categories that differ from those used in I-O. Before I-O tables 4 and 5 can be used to measure the commodity or industry requirements arising from changes in the level and composition of GNP, the GNP (or components thereof) must be stated in the prices of the year to which the I-O tables refer, in the I-O commodity categories, and at producers' prices with separate entries for the trade margin and transportation costs. In I-O terminology, a bill of goods must be formulated. Supplementary data that are useful in establishing bills of goods are provided in tables A, B, C, and D.10

Table A shows the I-O commodity composition in 1977 of each NIPA category of final demand, in producers' and purchasers' prices. For each commodity within a category of final demand, the table shows the trade margin and transportation costs included in the purchasers' price. This table may be used if the final demand to be analyzed is given in purchasers' prices and in the classification of the I-O table.

Table B shows the I-O commodity composition in 1977 of each of the 86 categories of personal consumption expenditures (PCE) in the NIPA's (table 2.4) in producers' and purchasers' prices. For each commodity within a PCE category, the table shows the trade margin and transportation costs included in the purchas-

10. Tables A, B, and C are shown at the 85-commodity level. They also are available at the 537-commodity level for \$7.00 each. See footnote 2 for instructions for ordering.

ers' price. This table may be used if the PCE to be analyzed is given in the classification of the NIPA's.

Table C shows the I–O commodity composition in 1977 of each of the 24 categories of producers' durable equipment (PDE) in the NIPA's (table 5.6) in producers' and purchasers' prices. For each commodity within a PDE category, the table shows the trade margin and transportation costs included in the purchasers' price. This table may be used if the PDE to be analyzed is given in the classification of the NIPA's.

Table D reconciles exports and imports as shown in the I-O tables with the preliminary revised NIPA esti-mates for 1977. The adjustments to merchandise remove goods from exports that are subsequently returned to the exporter and remove from imports goods that are subsequently reexported. The adjustments to fees and royalties reclassify the fees and royalties of affiliates so that all payments are treated as imports and all receipts are treated as exports. In the NIPA's, transactions between U.S. parents and their foreign affiliates are shown on a net basis in exports while transactions between foreign parents and their U.S. affiliates are shown on a net basis in imports.

Additional information that is useful in formulating bills of goods will be provided in the staff paper referenced in footnote 9.

APPENDIX A.—BEA Publications Relating to Input-Output

Articles in the SURVEY OF CURRENT BUSINESS

1. Morris R. Goldman, Martin L. Marimont, and Beatrice N. Vaccara, "The Interindustry Structure of the United States, 1958," November 1964.

2. Norman Frumkin, "Construction Activity in the 1958 Input-Output

Study," May 1965. 3. "The Transactions Table of the 1958 Input-Output Study and Revised Direct and Total Requirements Data," September 1965.

4. Nancy W. Simon, "Personal Consumption Expenditures in the 1958 Input-Output Study," October 1965.

5. "Additional Industry Detail for the 1958 Input-Output Study," April 1966.

6. "Industrial Impact of the 1966 Housing and Commercial Building Decline," November 1966.

7. "The Input-Output Structure of the U.S. Economy: 1963," November 1969.

8. Allan H. Young and Claiborne M. Ball, "Industrial Impacts of Residential Construction and Mobile Home Production," October 1970.

9. "Personal Consumption Expenditures in the 1963 Input-Output Study," January 1971.

10. Beatrice N. Vaccara, "An Input-Output Method for Long-Range Economic Projections," July 1971.

11. Allan H. Young, Leo C. Maley, Jr., Sally R. Reed, and Roy A.

Seaton, II, "Interindustry Transactions in New Structures and Equipment, 1963," August 1971.

12. Albert J. Walderhaug, "The Composition of Value Added in the 1963 Input-Output Study," April 1973.

13. Philip M. Ritz and Eugene P. Roberts, "Industry Inventory Requirements: An Input-Output Analysis," November 1973.

14. "The Input-Output Structure of the U.S. Economy: 1967," February 1974.

15. Nancy W. Simon and Philip M. Ritz, "Producers' Durable Equipment in the 1963 and 1967 Input-Output Studies," February 1975.

16. Irving Stern, "Industry Effects of Government Expenditures: An Input-Output Analysis," May 1975.

17. Irving Stern, "Interindustry Transactions in New Structures and Equipment, 1967," September 1975.

18. Philip M. Ritz, "New Construction and State and Local Government Purchases in the 1967 Input-Output Study," November 1977.

19. Philip M. Ritz, "The Input-Output Structure of the U.S. Economy, 1972," February 1974.

20. Philip M. Ritz, Eugene P. Roberts, and Paula C. Young, "Dollar-Value Tables for the 1972 Input-Output Study," April 1979.

21. Peter E. Coughlin, "New Structures and Equipment by Using In-dustries, 1972," July 1980.

APPENDIX A.—BEA Publications Relating to Input-Output—Continued

Supplements to the SURVEY OF CURRENT BUSINESS

22. Input-Output Structure of the U.S. Economy: 1963: Volume 1, "Transactions Data for Detailed Industries;" Volume 2, "Direct Require-ments for Detailed Industries;" Volume 3, "Total Requirements for Detailed Industries;" Office of Business Economics (now BEA), 1969.

23. Input-Output Structure of the U.S. Economy: 1967; Volume 1, "Transactions Data for Detailed Industries;" Volume 2, "Direct Require-ments for Detailed Industries;" Volume 3, "Total Requirements for De-tailed Industries;" BEA, 1974. Available on microfiche from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, \$4,50 for each. Accession numbers COM 74-50843, COM 74-50844, and COM 74-50845, respectively.

24. Irving Stern, Industry Effects of Government Expenditures, 1975. Volume 1, "85-Industry Detail;" Volume 2, "367-Industry Detail;" BEA, September 1975. Both are available from National Technical Information Service, Springfield, VA 22161; \$13.00 for Volume 1, \$40.00 for Volume 2 (microfiche \$4.50 for each). Accession numbers COM 75-11157 and COM 75-11158, respectively.

25. Irving Stern, Interindustry Transactions in New Structures and Equipment, 1963 and 1967; Volume I, "Tables with Additional Capital Goods Producing Industry Detail;" Volume II. "Methods and Sources for 1967;" BEA, 1975. Available from National Technical Information Serv-ice, Springfield, VA 22161; \$10.00 for Volume I, \$13.00 for Volume II (microfiche \$4.50 for each). Accession numbers PB-248-876 and PB-248-877, respectively.

26. The Detailed Input-Output Structure of the U.S. Economy: 1972; Volume I, "The Use and Make of Commodities by Industries;" Volume II, "Total Requirements for Commodities and Industries;" BEA, 1979. Available from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402; \$9.50 for Volume I and \$8.50 for Volume II. Stock numbers 003-010-00064-3 and 003-010-00065-1, respectively.

BEA Staff Papers

27. "Input-Output Transactions, 1961," Staff Paper in Economics and Statistics, No. 16, Office of Business Economics (now BEA), 1968. Available from National Technical Information Service, Springfield, VA 22161; \$10.00 per copy (microfiche \$4.50). Accession number PB-193-953.

28. "Input-Output Transactions, 1966," Staff Paper in Economics and Statistics, No. 19, BEA, February 1972. Available from National Technical Information Service, Springfield, VA 22161; \$8.50 per copy (\$4.50 microfiche). Accession number COM 72-10299

29. Arlene K. Shapiro, "Input-Output Analysis as a Predictive Tool," Staff Paper No. 20, BEA, December 1972. Available from National Technical Information Service, Springfield, VA 22161; \$11.50 per copy (\$4.50 microfiche). Accession number COM 73-10146.

30. Roger H. Bezdek, "Empirical Tests of Input-Output Forecasts: Review and Critique," Staff Paper No. 24, BEA, July 1974. Available from National Technical Information Service, Springfield, VA 22161; \$8.50 per copy (\$4.50 microfiche). Accession number COM 74-11439.

31. Arlene K. Shapiro, "Sources of Error in Input-Output Projections," Staff Paper No. 26, BEA, July 1975. Available from National Technical Information Service, Springfield, VA 22161; \$8.50 per copy (\$4.50 microfiche). Accession number COM 75-11074.

32. Paula C. Young and Philip M. Ritz, "Summary Input-Output Tables of the U.S. Economy: 1968, 1969, and 1970," Staff Paper No. 27, September 1975. Available from National Technical Information Service, Springfield, VA 22161; \$11.50 per copy (\$4.50 microfiche). Accession number PB-246-690.

33. Paula C. Young and Philip M. Ritz, "Input-Output Tables of the U.S. Economy: 1971," Staff Paper No. 28, BEA, March 1977. Available from National Technical Information Service, Springfield, VA 22161; \$8.50 per copy (\$4.50 microfiche). Accession number PB-265-194.

34. Albert J. Walderhaug, "Revised Input-Output Tables for the U.S. Economy, 1967," Staff Paper No. 29, BEA, June 1977. Available from National Technical Information Service, Springfield, VA 22161; \$10.00 per copy (\$4.50 microfiche). Accession number PB-270-259.

42. Beatrice N. Vaccara, "Changes Over Time in U.S. Input-Output Relationships." Paper presented at Seminar on Input-Output Analysis sponsored by the YMCA Center for International Management Studies and the State Planning Committee of Romania, July 1969.

43. "The Input-Output Structure of the United States Economy: 1947," Office of Business Economics (now BEA), March 1970.

44. "Definitions and Conventions of the 1963 Input-Output Study," BEA, April 1972.

45. "Industrial Composition of Personal Consumption Expenditures by PCE Category in Producers' and Purchasers' Prices, 1963," BEA. Table showing producing industry detail at 367-industry level of classification.

46. "Interindustry Transactions in New Structures and Equipment, 1963," BEA. Table showing producing industry detail at 367-industry level of classification.

47. "Notes on Methods and Sources Used in Preparing the 1963 Capital Flow Table," Office of Business Economics (now BEA), November 1971.

35. Peter E. Coughlin, "Employment and Employee Compensation in the 1967 Input-Output Study," Staff Paper No. 31, BEA, February 1978. Available from National Technical Information Service, Springfield, VA 22161; \$8.50 per copy (\$4.50 microfiche). Accession number PB-278-759.

36. Paula C. Young and Philip M. Ritz, "Update Input-Output Tables of the U.S. Economy, 1972 (Derived from the 1967 Input-Output Table), Staff Paper No. 32, BEA, April 1979. Available from National Technical Information Service, Springfield, VA 22161; \$10.00 per copy (\$4.50 microfiche). Accession number PB-295-622.

37. Philip M. Ritz, "Definitions and Conventions of the 1972 Input-Output Study," Staff Paper No. 34, BEA, July 1980. Available from National Technical Information Service, Springfield, VA 22161; \$14.50 per copy (\$4.50 microfiche). Accession number PB-80-208-911.

38. Peter E. Coughlin and Albert J. Walderhaug, "New Structures and Equipment by Using Industries, 1971: Detailed Estimates and Methodolo-Staff Paper No. 35, BEA, September 1980. Available from National gy, Technical Information Service, Springfield, VA 22161; \$13.00 per copy (\$4.50 microfiche). Accession number PB-81-203-666.

39. Paula C. Young and Shirley F. Loftus, "Summary Input-Output Tables of the U.S. Economy: 1973, 1974, and 1975," Staff Paper No. 37, BEA, October 1981. Available from National Technical Information Service, Springfield, VA 22161; \$11.50 per copy (\$4.50 microfiche). Accession number PB-82-142-399.

40. Jane-Ring F. Crane, "Employment and Employee Compensation in the 1972 Input-Output Study," Staff Paper No. 38, BEA, October 1981. Available from National Technical Information Service, Springfield, VA 22161; \$7.00 per copy (\$4.50 microfiche). Accession number PB-82-142-415.

41. Paula C. Young and Mark A. Planting, "Summary Input-Output Tables of the U.S. Economy: 1976, 1978, and 1979," Staff Paper No. 39, BEA, January 1983. Available from National Technical Information Service, Springfield, VA 22161; \$13.00 per copy (\$4.50 microfiche). Accession number PB-83-167-403.

Miscellaneous Papers

48. "Industrial Composition of Personal Consumption Expenditures by PCE Category in Producers' and Purchasers' Prices, 1967," BEA, 1974. Table showing producing industry detail at 367-industry level of classifi-

49. "Definitions and Conventions of the 1967 Input-Output Study," BEA, October 1974. Available from National Technical Information Service, Springfield, VA 22161; \$11.50 per copy (\$4.50 microfiche). Accession number PB-296-293.

50. "Mathematical Derivation of the Total Requirements Tables for the 1972 Input-Output Study," BEA, February 1979. 51. Nancy W. Simon, "Subdivision of Electric Utilities in the 1972

Input-Output Study," BEA, January 1981.

NOTE.—If additional information regarding the above publications is needed, it can be obtained from the Interindustry Economics Division (BE-51), Bureau of Economic Analysis, U.S. Department of Commerce, Washington, D.C. 20230, telephone no. (202) 523-0683.

APPENDIX B.—Industry Classification of the 1977 Input-Output Tables¹

The titles in bold face represent the groupings of industries used for the summary version of the 1977 tables.

	Industry number and title	Related Census-SIC codes (1977 edition)		Industry number and title	Related Census-SIC codes (1977 edition)
AGRIC	ULTURE, FORESTRY, AND FISHERIES			New garages and service stations New stores and restaurants	
	1 Livestock and livestock products		11.0206 N	New religious buildings	nt 15-17.
1.0100	Dairy farm products	0241, pt. 0191, pt. 0259,	11.0207 N 11.0231 N	New educational buildings New hospitals New residential institutions and other health related facili-	pt. 15–17. pt. 15–17.
	Poultry and eggs	n+ 0201		ties	pt. 15-17.
		0259), pt. 0191, pt.	11.0241 N	New amusement and recreation buildings Other new nonfarm buildings	pt. 15-17.
1.0301	Meat animals Miscellaneous livestock	0213, pt. 0251. 021 (excl. pt. 0219), pt.	11.0301 N	New telephone and telegraph facilities	pt. 16–17.
1.0302	Miscellaneous livestock	0191, pt. 0259, pt 0291. 027 (excl. pt. 0279), pt.	11.0302 N 11.0303 N	New railroads New electric utility facilities	pt. 16-17.
		0191, pt. 0219, pt. 0259, pt. 0291.	11.0305 N	New gas utility facilities New petroleum pipelines	. pt. 16-17.
	2 Other agricultural products		11.0306 N 11.0307 N	New water supply facilities New sewer system facilities	pt. 16–17. pt. 16–17.
2.0100	Cotton	0131. pt. 0191. pt. 0219	11.0308 N	New local transit facilities	J pt. 16-17.
2 0201	Cotton Food grains	pt. 0259, pt. 0291.	11.0501 N 11.0502 N	New highways and streets New farm housing units and additions and alterations New form service facilities	pt. 15, pt. 17.
2 0202	Feed grains	pt. 0259, pt. 0291.	11.0601 N	New farm service facilities New petroleum and natural gas well drilling New petroleum, natural gas, and solid mineral exploration	pt. 13, pt. 17. pt. 138.
		Dt. 0219, pt. 0259, pt.			pt. 138, pt. 148.
2.0203	Grass seeds	0291. pt. 0139, pt. 0191, pt.		New access structures for solid mineral development	nt 148
2.0300	Tobacco	0219, pt. 0259, pt. 0291. 0132, pt. 0191, pt. 0219,	11.0702 N	New military facilities New dams and reservoirs	. pt. 15-17.
2.0401	Fruits	pt. 0259, pt. 0291. pt. 017. pt. 0191. pt. 0219.	11.0703 (Other new conservation and development facilities Other new nonbuilding facilities	pt. 15–17.
2.0402	Tree nuts	pt. 0259, pt. 0291. 0173 pt 0179 pt 0191		12 Maintenance and repair construction	
2.0404	Grass seeds Tobacco Fruits Tree nuts	pt. 0219, pt. 0259, pt. 0291.	12.0100 N	-	nt 15 nt 17
2.0501	Vegetables	0134, 0161, pt. 0119, pt.	12.0201 M	Maintenance and repair, residential Maintenance and repair of other nonfarm buildings	. pt. 15-17.
		0134, 0161, pt. 0119, pt. 0139, pt. 0191, pt. 0219, pt. 0259, pt. 0291.	12.0203 N	Maintenance and repair of farm residential buildings Maintenance and repair of farm service facilities	. pt. 15, pt. 17.
2.0502	Sugar crops	0133, pt. 0191, pt. 0219, pt. 0259, pt. 0291.	12.0204 N	Maintenance and repair of telephone and telegraph facili- ties	pt. 16-17.
2.0503	Miscellaneous crops	pt. 0119, pt. 0139, pt. 0191, pt. 0219, pt. 0259.	12.0205 M	Maintenance and repair of railroads Maintenance and repair of electric utility facilities	. pt. 16-17.
2.0600	Oil bearing crops	pt. 0291. 0116 pt 0119 pt 013 pt	12.0207 N	Maintenance and repair of gas utility facilities Maintenance and repair of petroleum pipelines	. pt. 16-17.
	Oil bearing crops	0173, pt. 0219, pt. 0259, pt. 0291.	12.0209 N	Maintenance and repair of water supply facilities	. pt. 16-17.
2.0701	Forest products	pt. 018. pt. 0191. pt. 0219.	12.0211 N	Maintenance and repair of sewer facilities Maintenance and repair of local transit facilities	. pt. 16-17.
2.0702	Greenhouse and nursery products	pt. 0259, pt. 0291. pt. 018, pt. 0191, pt. 0219,	12.0212 M 12.0213 M	Maintenance and repair of military facilities Maintenance and repair of conservation and development	1
		pt. 0259, pt. 0291.	12.0214 N	facilities Maintenance and repair of highways and streets	. pt. 16–17.
	3 Forestry and fishery products		12.0215 N 12.0216 N	Maintenance and repair of petroleum and natural gas wells. Maintenance and repair of other nonbuilding facilities	. pt. 138. . pt. 15-17.
$3.0001 \\ 3.0002$	Forestry products Commercial fishing	081-4, 097. 091.	11	CTURING	•
	4 Agricultural, forestry, and fishery services		[]	13 Ordnance and accessories	
4.0001	Agricultural, forestry, and fishery services	0254, 07 (excl. 074, and	13.0100 C 13.0200 A	Guided missiles and space vehicles Ammunition, except for small arms, n.e.c	. 3761. . 3483.
	Landscape and horticultural services	078), 085, 092, pt. 0279. 078.	13.0300 7	Tank and tank components Small arms	. 3795.
MININ		010.	13.0600 \$	Small arms ammunition Other ordnance and accessories	. 3482.
	5 Iron and ferroalloy ores mining		13.0100 (. 0403.
r 0000	. –	101 102		14 Food and kindred products	
5.0000	Iron and ferroalloy ores mining	101, 100.	14.0101 1 14.0102 S	Meat packing plants Sausages and other prepared meats	. 2011. . 2013.
	6 Nonferrous metal ores mining		14.0104 I	Poultry dressing plants Poultry and egg processing	. 2017.
6.0100 6.0200	Copper ore mining Nonferrous metal ores mining, except copper	102. 103-5, pt. 108, 109.	14.0300 (Creamery butter Cheese, natural and processed	. 2022.
	7 Coal mining		14.0500 1	Condensed and evaporated milk Ice cream and frozen desserts	.] 2024.
7.0000	Coal mining	1111, pt. 1112, 1211, pt.	14.0600 I	Fluid milk Canned and cured sea foods	. 2026.
	-	1213.	14.0800 (Canned specialties	. 2032.
	8 Crude petroleum and natural gas		14.1000 1	Dehydrated food products Pickles, sauces, and salad dressings	. 2034.
8.0000	Crude petroleum and natural gas	131, 132.	14.1200	Fresh or frozen packaged fish	. 2092.
	9 Stone and clay mining and quarrying		14.1302	Frozen specialties	. 2038.
	Dimension, crushed and broken stone mining and quarrying		14.1402 (Flour and other grain mill products Cereal breakfast foods	. 2043.
9.0002	Clay, ceramic, and refractory minerals mining	144. 145.	14.1501 1	Blended and prepared flour Dog, cat, and other pet food	. 2047.
9.0004	Nonmetallic mineral services and miscellaneous minerals mining.	pt. 148, 149.	14.1600	Prepared feeds, n.e.c Rice milling	. 2044.
	10 Chemical and fertilizer mineral mining]	14.1700	Wet corn milling Bread, cake, and related products	
10.0000	Chemical and fertilizer mineral mining	147.	14.1802	Sugar Sugar	. 2052.
	RUCTION		14.2001	Confectionery products Chocolate and cocoa products	. 2065.
	11 New construction		14.2003 (Chewing gum	2067.
11.0101		nt 15 nt 17 nt 6559	14.2102	Malt	. 2083.
11.0102	New residential 2-4 unit structured, nonfarm	pt. 15-17.	14.2104	Wines, brandy, and brandy spirits Distilled liquor, except brandy	
11.0103 11.0104	New residential high-rise apartments	pt. 15-17.	14.2300	Bottled and canned soft drinks Flavoring extracts and sirups, n.e.c	[2087.
11.0105 11.0106	New hotels and motels	pt. 15-17.	14.2400	Cottonseed oil mills Soybean oil mills	2074.
$11.0107 \\ 11.0201$	New dormitories and other group housing	pt. 15-17.	14.2600	Vegetable oil mills, n.e.c. Animal and marine fats and oils	. 2076.
11.0202	New office buildings	pt. 15-17. pt. 15-17.	14.2800	Roasted coffee	2095.
	features at and of appandix B	pt. 10-11.	14.2900	Shortening and cooking oils	

	Industry number and title	Related Census-SIC codes (1977 edition)		Industry number and title	Related Census-SIC code (1977 edition)
$14.3000 \\ 14.3100$	Manufactured ice Macaroni and spaghetti	. 2097.	24.0705	Stationery products	2648.
	Food preparations, n.e.c	. 2098. . 2099.		Converted paper products, n.e.c	
	15 Tobacco manufactures			25 Paperboard containers and boxes	
15 0101	Cigarettes	911	25.0000	Paperboard containers and boxes	265.
15.0102	Cigars	. 212.	1	26 Printing and publishing	
$15.0103 \\ 15.0200$		213. 214.	26 0100	• • •	
	0 10	. 214.	26.0200		272.
	16 Broad and narrow fabrics, yarn and thread mills		26.0301	Book publishing Book printing	
$16.0100 \\ 16.0200$		004	26.0400	Miscellaneous publishing	274.
16.0300	Yarn mills and finishing of textiles, n.e.c.	. 224. 2269, 2281-3. 2284.	26.0501 26.0502	Lithographic platemaking and services	2795.
16.0400	Thread mills	. 2284.	26.0601 26.0602	Manifold business forms	276.
	17 Miscellaneous textile goods and floor coverings		26.0700	Greeting card publishing	
17.0100		. 227.	26.0801 26.0802	Engraving and plate printing Bookbinding and related work	
17.0200 17.0300			26.0803 26.0804		
17.0400	Padding and upholstery filling	2293.	26.0805	Electrotyping and stereotyping	2794.
$17.0500 \\ 17.0600$. 2294. . 2295.]]	27 Chemicals and selected chemical products	
$17.0700 \\ 17.0900$. 2296.	07 0100	-	991 (arral 99105) 9965
17.1001	Nonwoven fabrics	2297	27.0100	Industrial inorganic and organic chemicals	2869.
17.1002	Textile goods, n.e.c	2299.	27.0201 27.0202	Nitrogenous and phosphatic fertilizers	
	18 Apparel		27.0300	Agricultural chemicals, n.e.c.	2879.
18.0101			27.0401 27.0402	Adhesives and sealants	2891.
18.0102 18.0201		. 2252. 2253	27.0403 27.0404		
18.0202	Knit underwear mills	2254.	27.0405	Carbon black	2895.
$18.0203 \\ 18.0300$. 2259. . 2257-8.	27.0406	Chemical preparations, n.e.c	2899.
18.0400		. 231–8, 39996.		28 Plastics and synthetic materials	
	19 Miscellaneous fabricated textile products			Plastics materials and resins	
19.0100	Curtains and draperies	2391.	28.0200		
$19.0200 \\ 19.0301$	Housefurnishings, n.e.c	2392.		Organic fibers, noncellulosic	
19.0302	Canvas and related products	2394.		29 Drugs, cleaning and toilet preparations	
19.0303 19.0304		2395. 2396.	29.0100	Drugs	283.
$19.0305 \\ 19.0306$	Schiffli machine embroideries	2397.	29.0201	Soap and other detergents	2841.
19.0300	• ·	. 2099.	29.0202 29.0203		
	20 Lumber and wood products, except containers		29.0300	Toilet preparations	2844.
$20.0100 \\ 20.0200$	Logging camps and logging contractors Sawmills and planing mills, general	2411. 2421.		30 Paints and allied products	
20.0300	Hardwood dimension and flooring mills	2426.	30.0000	Paints and allied products	285.
20.0400 20.0501	Special product sawmills, n.e.c	2429. 2431.	11	31 Petroleum refining and related industries	
20.0502 20.0600	Wood kitchen cabinets Veneer and plywood	2434.	01 0101	-	291.
20.0701	Structural wood members, n.e.c	2439.	31.0101 31.0102	Lubricating oils and greases	2992.
20.0702 20.0800	Prefabricated wood buildings	2491.	31.0103 31.0200		
20.0901 20.0902	Wood pallets and skids Particleboard	. 2448.	31.0300	Asphalt felts and coatings	2952.
20.0902	Wood products, n.e.c.		11	32 Rubber and miscellaneous plastics products	
	21 Wood containers		32.0100	Tires and inner tubes	301.
91 0000	Wood containers	2441, 2449.	32.0200	Rubber and plastics footwear	302.
L1.0000		5111, 5110.	32.0301 32.0302	Fabricated rubber products, n.e.c.	306.
	22 Household furniture		32.0400 32.0500		307. 304.
22.0101		2511.	1	-	
22.0102 22.0103	Wood TV and radio cabinets	2517.		33 Leather tanning and finishing	011
22.0200 22.0300	Upholstered household furniture	. 2512. 2514	33.0001	Leather tanning and finishing	311.
22.0300		. 2515.	[]	34 Footwear and other leather products	
	23 Other furniture and fixtures		34.0100		313. 3143-9.
00.0105		0701	$34.0201 \\ 34.0202$	House slippers	3142.
23.0100 23.0200	Metal office furniture	. 2522.	34.0301 34.0302	Luggage	
$23.0300 \\ 23.0400$	Public building furniture	. 2531.	34.0303	Women's handbags and purses	3171.
23.0500	Metal partitions and fixtures	. 2542.	34.0304 34.0305	Leather goods, n.e.c.	319.
23.0600 23.0700			[]	35 Glass and glass products	
	24 Paper and allied products, except containers		05 0100		001 0000 000
		241	35.0100 35.0200	Glass and glass products, except containers	
04.0405	Pulp mills	. 262.	1	36 Stone and clay products	
24.0100 24.0200	Paper mills, except building paper			ov stone and city products	1
$\begin{array}{c} 24.0200\\ 24.0300 \end{array}$	Paper mills, except building paper Paperboard mills	. 263.	11		
$\begin{array}{c} 24.0200\\ 24.0300\\ 24.0400\\ 24.0500\end{array}$	Paper mills, except building paper Paperboard mills Envelopes Sanitary paper products	. 263. . 2642. . 2647.	36.0100 36.0200	Cement, hydraulic Brick and structural clay tile	3251.
$\begin{array}{r} 24.0200\\ 24.0300\\ 24.0400\\ 24.0500\\ 24.0602 \end{array}$	Paper mills, except building paper Paperboard mills Envelopes Sanitary paper products Building paper and board mills.	. 263. . 2642. . 2647. 266	36.0200 36.0300	Brick and structural clay tile Ceramic wall and floor tile	3251. 3253.
$\begin{array}{c} 24.0200\\ 24.0300\\ 24.0400\\ 24.0500\end{array}$	Paper mills, except building paper Paperboard mills Envelopes	. 263. 2642. 2647. 2666. 2641. 2643.	36.0200	Brick and structural clay tile Ceramic wall and floor tile Clay refractories Structural clay products, n.e.c.	

APPENDIX B.—Industry Classification of the 1977 Input-Output Tables ¹— Continued

	Industry number and title	Related Census-SIC codes (1977 edition)		Industry number and title	Related Census-SIC codes (1977 edition)
	Fine earthenware food utensils	3263. 3264.		46 Materials handling machinery and equipment	
$36.0800 \\ 36.0900$	Porcelain electrical supplies	3269.		Elevators and moving stairways	3534.
36.1000	Concrete block and brick Concrete products, n.e.c.	3271.	46.0200 46.0300	Conveyors and conveying equipment Hoists, cranes, and monorails	3535. 3536.
$36.1100 \\ 36.1200$	Ready-mixed concrete	3273.	46.0400	Industrial trucks and tractors	3537.
36.1300	Lime. Gypsum products	3274.		47 Metalworking machinery and equipment	
$36.1400 \\ 36.1500$	Cutstone and stone products	328.	1		1
36.1600	Abrasive products Asbestos products	3291.	47.0100 47.0200	Machine tools, metal cutting types Machine tools, metal forming types	3541. 3542.
$36.1700 \\ 36.1800$	Aspestos products	3293.	47.0300	Special dies and tools and machine tool accessories	3544-5.
36.1900	Minerals, ground or treated Mineral wool	3295.	47.0401 47.0402	Power driven hand tools Rolling mill machinery	3546. 3547.
$36.2000 \\ 36.2100$	Nonclay refractories		47.0402	Metalworking machinery, n.e.c.	
36.2200	Nonmetallic mineral products, n.e.c.	3299.		48 Special industry machinery and equipment	
	37 Primary iron and steel manufacturing			• • • • • •	
97 0101	Blast furnaces and steel mills	9910	48.0100 48.0200	Food products machinery Textile machinery	3551. 3552.
$37.0101 \\ 37.0102$	Electrometallurgical products	3313.	48.0300	Woodworking machinery	3553.
37.0103	Steel wire and related products	3315.	48.0400 48.0500		3554. 3555.
$37.0104 \\ 37.0105$	Cold finishing of steel shapes Steel pipe and tubes	3317.		Special industry machinery, n.e.c.	3559.
37.0200	Iron and steel foundries	332.		49 General industrial machinery and equipment	
$37.0300 \\ 37.0401$	Iron and steel forgings Metal heat treating	3398.	1	45 General moustrial machinery and equipment	
37.0402	Primary metal products, n.e.c.	3399.	49.0100	Pumps and compressors	3561, 3563.
	38 Primary nonferrous metals manufacturing		49.0200 49.0300	Ball and roller bearings Blowers and fans	3562. 3564.
00.000		0001	49.0400	Industrial patterns	3565.
$38.0100 \\ 38.0200$	Primary copper Primary lead	3332	49.0500 49.0600		3566, 3568. 3567.
38.0300	Primary zinc Primary aluminum	3333.	49.0700	General industrial machinery, n.e.c.	3569.
$38.0400 \\ 38.0500$	Primary aluminum Primary nonferrous metals, n.e.c.	3334, 28195. 3339		50 Miscellaneous machinery, except electrical	
38.0600	Secondary ponferrous metals	334	FD 000-		2500
$38.0700 \\ 38.0800$	Copper rolling and drawing	3351. 3353-5		Carburetors, pistons, rings, valves	
38.0900	Nonferrous rolling and drawing, n.e.c.	3356.	50.0002	Machinery, except electrical, n.e.c.	3599.
$38.1000 \\ 38.1100$	Nonferrous wire drawing and insulating Aluminum castings	3357.	1	51 Office, computing, and accounting machines	
38.1200	Brass, bronze, and copper castings	3362.	51.0101	Electronic computing equipment	3573.
38.1300	Nonferrous castings, n.e.c	3369.	51.0102	Calculating and accounting machines	3574.
38.1400	Nonferrous forgings	. 0400.	51.0300 51.0400	Scales and balances Typewriters and office machines, n.e.c	3576. 3572, 3579.
	39 Metal containers			•••	
39.0100	Metal cans	3411.	11	52 Service industry machines	
39.0200	Metal barrels, drums, and pails	3412.	52.0100	Automatic merchandising machines	3581.
40 H	eating, plumbing, and fabricated structural metal products		52.0200 52.0300	Commercial laundry equipment Refrigeration and heating equipment	3582. 3585.
		0.401	52.0400	Measuring and dispensing pumps	3586.
40.0100 40.0200	Metal sanitary ware Plumbing fixture fittings and trim	3432.	52.0500	Service industry machines, n.e.c	3589.
40.0300	Plumbing fixture fittings and trim Heating equipment, except electric	. 3433.		53 Electric industrial equipment and apparatus	
40.0400 40.0500	Fabricated structural metal Metal doors, sash, and trim	. 3441.	53 0100	Instruments to measure electricity	3825.
40.0600	Fabricated plate work (boiler shops)	. 3443.	53.0200	Transformers	3612.
40.0700 40.0800	Sheet metal work Architectural metal work	. 3444.	53.0300	Switchgear and switchboard apparatus Motor and generators	3613. 3621.
40.0800	Prefabricated metal buildings		53.0500	Industrial controls	3622.
40.0902	Miscellaneous metal work	. 3449.	53.0600 53.0700	Welding apparatus, electric Carbon and graphite products	3623. 3624.
	41 Screw machine products and stampings	1	53.0800	Electrical industrial apparatus, n.e.c	3629.
41.0100	Screw machine products and bolts, nuts, rivets, and wash-		11	54 Household appliances	
	ers	345.	11		
41.0201 41.0202	Automotive stampings Crowns and closures	. 3465. . 3466.	54.0200	Household cooking equipment Household refrigerator and freezers	3631. 3632.
41.0203	Metal stampings, n.e.c.	. 3469.	54.0300	Household laundry equipment	3633.
	19 Other fabricated water and the	l	54.0400 54.0500	Household vacuum cleaners	3635.
	42 Other fabricated metal products	1	54.0600	Sewing machines	3636.
42.0100 42.0201	Cutlery Hand and edge tools, n.e.c.	. 3421. . 3423.	54.0700	Household appliances, n.e.c.	3639.
42.0202	Hand saws and saw blades	. 3425.	11	55 Electric lighting and wiring equipment	
42.0300 42.0401	Hardware, n.e.c Plating and polishing	. 3429.	55.0100	Electric lamps	
42.0402	Metal coating and allied services	. 3479.	55.0200	Lighting fixtures and equipment.	3645-8.
42.0500 42.0700	Miscellaneous fabricated wire products	. 3495-6.	55.0300	Wiring devices	3643-4.
42.0800	Steel springs, except wire Pipe, valves, and pipe fittings	. 3494, 3498.	11	56 Radio, TV, and communication equipment	
42.1000 42.1100	Metal foil and leaf	. 3497.	FORTOS		
44.1100	Fabricated metal products, n.e.c.	. 3499.	56.0100 56.0200		3651. 3652.
	43 Engines and turbines		56.0300	Telephone and telegraph apparatus	3661
43 0100	Turbines and turbine generator sets	. 3511.	20.0400	Radio and TV communication equipment	3662.
	Internal combustion engines, n.e.c.		11	57 Electronic components and accessories	Í
			57.0100	Electron tubes	3671-3.
	44 Farm and garden machinery	1	57.0200	Semiconductors and related devices	3674
44.0001	Farm machinery and equipment	3523.	57.0300	Other electronic components	3675-9.
44.0002	Lawn and garden equipment	3524.	11	58 Miscellaneous electrical machinery and supplies	1
	45 Construction and mining machinery	}	11		0.001
			58.0100	Storage batteries Primary batteries, dry and wet	3691. 3692.
45.0100	Construction machinery and equipment Mining machinery, except oil field	3531.	58.0300	X-ray apparatus and tubes	
		. 3532.	58.0400	Engine electrical equipment	3694.
$45.0200 \\ 45.0300$	Oil field machinery	. 3533.	58.0500	Electrical equipment and supplies, n.e.c.	3699.

APPENDIX B.—Industry Classification of the 1977 Input-Output Tables¹— Continued

	Con	linucu	
Industry number and title	Related Census-SIC codes (1977 edition)	Industry number and title	Related Census-SIC codes (1977 edition)
59 Motor vehicles and equipment 59.0100 Truck and bus bodies 59.0200 Truck trailers	3713. 3715.	70.0200 Credit agencies other than banks 70.0300 Security and commodity brokers 70.0400 Insurance carriers 70.0500 Insurance agents, brokers, and services	61, 67 (excl. 6732). 62. 63. 64.
59.0301 Motor vehicles and car bodies	3711. 3714.	71 Real estate and rental	
60 Aircraft and parts 60.0100 Aircraft	3721.	71.0100 Owner-occupied dwellings	Not applicable. 65–6, (excl. pt. 6552), pt. 1531.
60.0200 Aircraft and missile engines and engine parts 60.0400 Aircraft and missile equipment, n.e.c. 61 Other transportation equipment	3724, 3764. 3728, 3769.	SERVICES 72 Hotels; personal and repair services (except auto)	
61.0100 Ship building and repairing 61.0200 Boat building and repairing 61.0300 Railroad equipment 61.0500 Motorcycles, bicycles, and parts 61.0601 Travel trailers and campers 61.0602 Mobile homes	3731. 3732. 374. 375. 3792. 2451. 3716. 3799.	 72.0100 Hotels and lodging places. 72.0201 Laundry, cleaning, garment services, and shoe repair	721, 725. 726. 722, 729. 762.
62 Scientific and controlling instruments		73 Business services	
62.0100 Engineering and scientific instruments	3811. 3823-4, 3829. 3822. 3841. 3842. 3842. 3843. 387.	73.0101 Miscellaneous repair shops. 73.0102 Services to dwellings and other buildings	734. 736. 737. 7391–2, 7397. 7393. 7394.
63 Optical, ophthalmic, and photographic equipment	000	73.0109 Other business services	· 7332-3, 7395. . 732, 7331, 7339, 735,
63.0100 Optical instruments and lenses 63.0200 Ophthalmic goods 63.0300 Photographic equipment and supplies 64 Miscellaneous manufacturing	383. 385. 386.	73.0200 Advertising	7399. 731. 811. 8911.
64.0101 Jewelry, precious metal	3911. 3915. 3914. 3961.	services, n.e.c	893, 899. 58, pt. 70.
64.0200 Musical instruments 64.0301 Games, toys, and children's vehicles 64.0302 Dolls 64.0400 Sporting and athletic goods, n.e.c.	393. 3944. 3942. 3949.	75 Automobile repair and services 75.0001 Automotive rental and leasing, without drivers	. 751.
64.0400 Sporting and athletic goods, n.e.c. 64.0501 Pens and mechanical pencils. 64.0502 Lead pencils and art goods. 64.0503 Marking devices. 64.0504 Carbon paper and inked ribbons.	3951. 3952. 3953. 3955.	75.0002 Automotive repair shops and services 75.0003 Automobile parking and car washes 76 Amusements	. 753, 7549. . 752, 7542.
64.0600 Artificial trees and flowers. 64.0701 Buttons. 64.0702 Needles, pins, and fasteners. 64.0800 Brooms and brushes. 64.0900 Hard surface floor coverings. 64.1000 Burial caskets and vaults. 64.1010 Signs and advertising displays.	3962. 3963. 3964. 3991. 3996. 3995. 3998.	76.0100 Motion pictures 76.0201 Theatrical producers (except motion pictures), bands, and entertainers 76.0202 Bowling alleys, billiard and pool establishments 76.0203 Commercial sports, except racing 76.0204 Racing (including track operations)	792. 793. 7941. 7948.
64.1200 Manufacturing industries, n.e.c TRANSPORTATION, COMMUNICATIONS, AND UTILITIES	3999 (excl. 39996).	76.0205 Membership sports and recreation clubs 76.0206 Other amusement and recreation services	. 7997. . 791, 799 (excl. 7997).
65 Transportation and warehousing ²	,	77 Health, educational, and social services and nonprofit	
65.0100 Railroads and related services	40, 474, pt. 4789. 41. 42, pt. 4789. 44. 45. 45. 46. 471, 4723, pt. 478. 4722.	77.0100 Doctors and dentists	. 806. : 805. - 074, 8049, 807-9. . 821. . 822.
66 Communications, except radio and TV		cational services, n.e.c	. 823-9.
66.0000 Communications, except radio and TV	48 (excl. 483).	zations	861-2. 863-4.
67 Radio and TV broadcasting		77.0503 Religious organizations	866. 84, 865, 869, 8922, 6732.
 67.000 Radio and TV broadcasting 68 Electric, gas, water, and sanitary services ² 	483.	77.0600 Job training and related services	. 8331. . 8351. . 8361.
68.0100 Electric services (utilities)	491, pt. 493. 492, pt. 493. 494, 4952. 495 (excl. 4952), 496-7, pt. 493.	77.0900 Social services, n.e.c.	8321, 8399.
WHOLESALE AND RETAIL TRADE	-	78 Federal Government enterprises	
69 Wholesale and retail trade		78.0100 U.S. Postal Service	
69.0100 Wholesale trade 69.0200 Retail trade	50, 51. 52-7, 59, 7396, 8042.	78.0300 Commodity Credit Corporation 78.0400 Other Federal Government enterprises	pt. 613. several. ³
FINANCE, INSURANCE, AND REAL ESTATE		79 State and local government enterprises	1
70 Finance and insurance ²	60.	79.0100 Local government passenger transit 79.0200 State and local electric utilities	pt. 491.
70.0100 Banking	00.	79.0300 Other State and local government enterprises	several. ³

APPENDIX B.—Industry Classification of the 1977 Input-Output Table ¹— Continued

Industry number and title	Related Census-SIC codes (1977 edition)	Industry number and title	Related Census-SIC codes (1977 edition)
SPECIAL INDUSTRIES		95 Imports	
80 Noncomparable imports		95.0000 Imports	
80.0000 Noncomparable imports		96 Federal Government purchases, national defense	
81 Scrap, used and secondhand goods		96.0000 Federal Government purchases, national defense	
81.0001 Scrap 81.0002 Used and secondhand goods		97 Federal Government purchases, nondefense	
82 Government industry		97.0000 Federal Government purchases, nondefense	
82.0000 Government industry		98 State and local government purchases, education	
83 Rest of world industry		98.0001 State and local government purchases, elementary and	
83.0000 Rest of the world industry		secondary education. 98.0002 State and local government purchases, higher education 98.0003 State and local government purchases, other education and	
84 Household industry		98.0003 State and local government purchases, other education and libraries.	
84.0000 Household industry		99 State and local government purchases, other	
85 Inventory valuation adjustment		99.1001 State and local government purchases, health and hospitals. 99.1002 State and local government purchases, public assistance	
85.0000 Inventory valuation adjustment		and relief. 99 1003 State and local government purchases, sewerage	
VALUE ADDED AND FINAL DEMAND		99,1004 State and local government purchases, sanitation 99,2001 State and local government purchases, police	
V.A. Value added		99.2002 State and local government purchases, fire 99.2003 State and local government purchases, correction	
87.0000 Value added		99.3001 State and local government purchases, highways 99.3002 State and local government purchases, water and air facili-	
88 Compensation of employees		ties. 99.3003 State and local government purchases, transit utilities	
88.0000 Compensation of employees		99.3003 State and local government purchases, statist defined and transportation.	
89 Indirect business taxes		99.3005 State and local government purchases, gas and electric utilities.	
89.0000 Indirect business taxes		99.3006 State and local government purchases, water 99.3007 State and local government purchases, urban renewal and	
90 Property-type income		community facilities. 99.3008 State and local government purchases, natural and agricul- tural resources and recreation.	
90.0000 Profit-type income, net interest, and capital consumption allowances		99.3009 State and local government purchases, other general gov- ernment.	
91 Personal consumption expenditures			
91.0000 Personal consumption expenditures		OTHER SYMBOLS	
92 Gross private fixed investment		Outputs	
92.0000 Gross private fixed investment		T.I.U. Total intermediate use	
93 Change in business invertories	!	T.F.D. Total final demand T.C.O. Total commodity output	
93.0000 Change in business inventories		Inputs	
94 Exports		T.I.I. Total intermediate inputs	
94.0000 Exports		V.A. Value added T.I.O. Total industry output	

1. The industry classification is usually identical with that for the commodity that is the pri-mary product of the industry. However, for some industries, the primary product, or a component thereof, is the same as the primary product of another industry. In such cases, commodity output is included with the industry most definitively associated with the commodity, usually the largest producer.

2. Excluding government enterprises.
3. In the 1977 SIC, government enterprise activities are generally classified with the similar private activity. In I-O, activities of enterprises are classified in groups 78 and 79 and the corresponding SIC's are shown except for 78.0400 and 79.0300, each of which includes a number of SIC's and several activities for which no comparable SIC exists.

CURRENT BUSINESS STATISTICS

THE STATISTICS here update series published in BUSINESS STATISTICS: 1982, a statistical supplement to the SURVEY OF CURRENT BUSINESS. That volume (available from the Superintendent of Documents for \$8.00, stock no. 003-010-00124-1) provides a description of each series, references to sources of earlier figures, and historical data as follows: For all series, monthly or quarterly, 1979 through 1982, annually, 1961-82; for selected series, monthly or quarterly, 1961-82 (where available).

The sources of the series are given in BUSINESS STATISTICS: 1982; they appear in the main methodological note for each series, and are also listed alphabetically on pages 135-136. Series originating in Government agencies are not copyrighted and may be reprinted freely. Series from private sources are provided through the courtesy of the compliers, and are subject to their copyrights.

Unless otherwise stated in footnotes below, data	1982	1983					19	83						19	84	
through 1982 and methodological notes are as shown in BUSINESS STATISTICS: 1982	Ann	ual	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
		GE	NERA	L BI	JSIN	ESS I	NDIC	CATO	RS							
PERSONAL INCOME BY SOURCE																
Seasonally adjusted, at annual rates: Total personal incomebil. \$	2,578.6	2,742.1	2,670.1	2,689.0	2,719.3	2,732.6	2,747.6	2,756.4	2,781.6	2,812.5	2,833.5	2,859.6	r2,906.5	r2,927.4	'2,942.3	2,957.1
Wage and salary disbursements, totaldo Commodity-producing industries, total do Manufacturing Distributive industries	1,568.1 509.2 383.8 378.8	1,664.6 529.7 402.8 397.2	1,616.8 510.0 387.9 388.4	1,632.1 517.1 393.5 390.7	1,652.2 522.0 397.5 394.8	1,660.9 527.5 401.2 397.5	1,673.5 533.3 405.8 400.0	1,680.5 537.0 408.5 396.8	1,691.8 543.1 413.3 399.8	1,710.6 546.7 416.0 408.1	1,715.3 550.5 419.5 408.0	1,726.0 552.9 421.6 411.8	1,748.7 564.0 429.7 414.3	"1,757.1 "568.5 "433.6 "414.6	r1,763.3 r569.6 r435.6 416.4	1,784.1 578.1 441.8 420.8
Service industries	374.1 306.0 156.6	411.5 326.2 173.4	397.8 320.6 166.0	402.4 321.9 168.1	408.2 327.1 170.1	411.3 324.7 172.2	414.1 326.1 174.3	415.5 331.1 176.3	419.6 329.2 178.4	425.2 330.6 180.6	424.7 332.1 182.6	427.6 333.7 184.9	432.7 337.7 186.9	*434.8 339.3 189.0	*436.6 340.7 191.1	443.0 342.1 193.0
Farm do Nonfarm do	21.5 87.4	20.9 107.6	22.3 100.8	22.1 103.1	21.4 106.6	19.4 109.0	16.6 109.9	14.9 110.9	15.0 113.0	20.7 114.2	23.8 114.3	30.4 115.0	47.6 119.9	'49.5 '121.7	*46.5 *121.8	31.0 123.7
Rental income of persons with capital consumption adjustment	49.9 66.4 366.2 374.5 112.0 2,527.6	54.8 70.5 366.3 403.6 119.5 2,691.5	54.3 68.9 355.7 402.0 116.8 2,618.4	54.6 69.0 355.0 402.7 117.6 2,637.5	54.8 69.4 356.9 406.7 118.8 2,668.5	55.0 69.5 359.4 406.7 119.5 2,683.8	55.3 70.2 364.4 403.5 120.1 2,701.4	50.8 70.9 370.2 402.2 120.3 2,711.8	55.8 71.6 375.2 401.9 121.1 2,736.7	56.0 72.3 378.3 402.0 122.2 2,761.8	56.2 72.9 380.9 409.8 122.4 2,779.7	56.5 73.4 384.0 412.4 122.9 2,799.2	56.7 74.1 389.6 411.3 128.3 r2,828.8	57.0 75.1 395.6 *411.1 128.7 *2,847.7	57.2 76.2 402.2 r413.1 129.0 r2,865.4	57.4 77.0 406.2 414.9 130.2 2,895.4
Seasonally adjusted, at annual rates: Total personal income. bil. \$. Less: Personal tax and nontax payments do Equals: Disposable personal income do Personal consumption expenditures do Durable goods do Nondurable goods do Services do Interest paid by consumers to do Dusiness	2,578.6 402.1 2,176.5 2,051.1 1,991.9 244.5 761.0 986.4 58.1	2,742.1 406.5 2,335.6 2,221.9 2,158.0 279.4 804.1 1,074.5 62.8	2,670.1 403.6 2,266.5 2,146.2 2,084.6 259.6 780.1 1,044.9 60.6	2,689.0 402.2 2,286.8 2,181.8 2,119.9 270.6 786.6 1,062.7 60.9	2,719.3 415.5 2,303.8 2,218.8 2,156.4 278.6 804.4 1,073.4 61.3	2,732.6 420.2 2,312.4 2,228.0 2,164.8 284.1 807.7 1,073.0 62.1	2,747.6 396.9 2,350.7 2,238.9 2,174.8 287.1 813.8 1,073.9 62.9	2,756.4 400.1 2,356.3 2,238.7 2,173.8 278.2 813.1 1,082.5 63.7	2,781.6 403.4 2,378.2 2,260.1 2,194.7 283.2 817.4 1,094.2 64.1	2,812.5 408.3 2,404.2 2,279.9 2,213.4 289.7 825.7 1,097.9 65.1	2,833.5 411.0 2,422.5 2,294.3 2,227.1 293.9 827.7 1,105.5 65.8	2,859.6 414.7 2,444.9 2,320.7 2,252.1 312.2 821.6 1,118.4 67.2	r2,906.5 419.2 r2,487.4 r2,970.1 r2,301.3 r322.1 r852.5 r1,126.6 67.6	r2,927.4 r421.8 r2,505.7 r2,347.1 r2,277.0 r312.7 r839.6 r1,124.7 r68.9	^r 2,942.3 ^r 423.3 ^r 2,519.1 ^r 2,355.9 ^r 2,285.1 ^r 309.9 ^r 837.8 ^r 1,137.4 ^r 69.6	2,957.1 427.9 2,529.2 2,382.4 2,310.9 314.1 851.5 1,145.3 70.2
Personal transfer payments to foreigners (net) do	1.1	1.2	1.0	1.1	1.1	1.1	1.2	1.2	1.2	1.4	1.4	1.4	1.2	1.2	1.2	1.2
Equals: personal saving do Personal saving as percentage of disposable	125.4 5.8	113.7 4.9	120.3 5.1	104.9 4.5	85.1 4.0	84.4 4.0	111.8 4.5	117.5 4.9	118.2 5.0	124.3 5.1	128.2 5.2	124.2 *5.0	117.2 5.4	"158.5 "5.8	r163.1 6.2	146.9
personal income §	1,060.2 970.2 139.8 364.2 466.2 205.3	1,094.6 1,011.4 156.3 376.1 479.0 213.4	990.8 147.1 370.0 473.7 210.4	4.3 1,078.4 999.7 152.1 370.0 477.6 212.1	1,083.3 1,014.0 157.0 376.2 480.8 212.7	1,087.5 1,018.1 160.3 378.0 479.7 212.6	1,100.4 1,018.1 160.7 378.8 478.5 213.6	4.3 1,097.4 1,012.4 155.5 377.0 479.9 214.7	1,102.6 1,017.5 157.4 378.4 481.7 215.7	1,113.5 1,025.1 160.5 382.5 482.1 215.9	1,121.5 1,031.0 162.7 384.7 483.6 216.0	1,129.4 1,040.3 172.4 380.3 487.6 216.5	"1,142.9 "1,057.4 "177.7 "391.2 "488.5 "217.6	"1,151.3 "1,046.2 "172.7 "386.8 "486.7 "217.6	0.2 1,152.1 1,045.1 171.2 384.3 489.6 218.7	
INDUSTRIAL PRODUCTION																
Federal Reserve Board Index of Quantity Output																
Not Seasonally Adjusted																
Total index 1967=100	138.6	147.6	140.5	141.9	143.9	149.7	147.0	153.3	158.4	158.4	154.7	151.5	'154.3	*160 .5	P161.6	°162.2
By industry groupings: Mining and utilities do	146.3	142.9	136.8	134.2	133.4	137.8	146.8	152.2	148.2	141.6	142.6	152.6	¹ 158.4	'154 .6	P148.2	•144.3
Manufacturing do Nondurable manufactures do Durable manufactures	137.6 156.2 124.7	148.2 168.1 134.5	141.5 160.8 128.1	143.0 162.3 129.7	145.4 165.0 131.8	151.3 172.6 136.5	146.8 167.6 132.4	153.4 177.6 136.7	160.0 183.2 143.9	160.7 182.1 145.9	156.1 173.9 143.8	150.9 164.5 141.4	"153.9 "166.8 "145.0	'161.3 '175.6 151.4	P163.8 P177.3 P154.4	°164.7 °178.5 °155.2
Seasonally Adjusted																
Total index do	138.6	147.6	140.0	142.6	144.4	146.4	149.7	151.8	153.8	155.0	155.3	156.2	r158.5	*16 0.1	P160.9	°163.1
By market groupings: Products, total	141.8 141.5 142.6	149.2 147.1 151.7	141.6 139.9 144.3	144.5 142.8 147.7	146.2 144.5 150.4	148.1 146.4 152.4	150.9 149.0 154.8	153.2 150.7 156.3	154.9 152.1 157.3	155.6 152.7 156.9	155.8 153.2 156.1	157.4 155.2 157.7	159.7 157.5 159.5	'160.5 '158.2 '159.6	P161.2 P158.8 P159.9	*163.2 *160.7 *161.6

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SURVEY OF CURRENT BUSINESS

May	1984
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Unless otherwise stated in footnotes below, data	1982	1983					194	83						19	84	
through 1982 and methodological notes are as shown in BUSINESS STATISTICS: 1982	Ann	ual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
	GEI	NERA	L BU	SINE	SS IN	DIC	ATOF	rs—c	ontir	ued		I		L		
INDUSTRIAL PRODUCTION—Continued																
Seasonally Adjusted—Continued By market groupings—Continued Final products—Continued																
Durable consumer goods	129.2 129.5	147.5 158.2	136.3 142.6	140.5 144.9	145.5 152.2	149.2 160.0	152.9 167.0	154.2 168.1	157.5 172.9	156.7 171.3	155.9 171.5	158.6 178.4	r163.4 r184.5	'162.7 '182.3	₽163.3 ₽183.7	•164.0 •179.0
Autos and utility vehicles	99.0 86.6	134.0 117.4	142.0 116.4 99.9	117.8 102.7	102.2 124.9 107.4	135.4 118.3	145.4 129.8	147.0 132.0	153.1 135.0	149.2 129.6	149.2 129.4	157.8 137.4	163.3 140.7	162.9 141.2	P164.5 P143.1	•156.7 •134.5
Home goods do Nondurable consumer goods do	129.1 148.0	141.4 153.4	132.8 147.5	138.1 150.5	141.8 152.3	143.2 153.6	144.9 155.6	146.4 157.1	148.8 157.2	148.4 157.1	147.£ 156.1	147.5 157.3	*151.5 *157.9	"151.6 "158.3	P151.9 P158.6	
Clothing do Consumer staples do					162.8							166.0		166.9	P167.3	*169.1
Consumer foods and tobacco do Nonfood staples	149.7 169.7	153.5 175.4	148.4 169.4	150.9 172.9	153.2 174.0	155.9 174.1	156.6 177.2	156.3 181.6	154.6 182.7	156.0 180.3	154.5 178.1	155.4 178.3	156.5 178.2	156.8 *178.7	₽180.1	•181.8
Equipment do Business equipment do	139.8 157.9	140.8 153.3	133.8 143.7	136.2 146.9	136.5 147.7	138.2 150.2	141.0 153.3	143.1 156.6	144.9 158.7	147.0 161.3	149.1 164.1	151.8 167.3	*154.9 *170.7	156.3 172.2	P157.2 P173.1	*159.0 *175.4
Industrial equipment #do Building and mining equip do Manufacturing equipment	134.9 214.2 107.2	120.4 159.3 107.1	113.1 145.3 99.7	113.5 141.8 101.7	114.5 146.2 102.5	116.3 148.7 105.0	119.9 154.4 108.9	124.3 159.2 113.3	125.6 160.8 115.0	126.6 166.9 114.6	128.6 175.8 114.3	130.8 185.3 115.1	*133.7 *185.1 *119.7	"134.9 "181.9 "121.6	°134.9 °173.9 °124.7	*136.5 *171.9 *127.6
Commercial, transit, farm eq. # do Commercial equipment	184.4 253.5	191.3 273.2	179.2 255.7	185.4 264.3	186.1 265.0	189.5 270.9	191.9 276.0	194.0 277.4	196.9 281.7	201.3 288.1	205.1 292.5	209.6 298.9	r213.3 r303.2	*215.3 *305.7	₽217.2 ₽309.3	•220.3 •314.3
Transit equipment do Defense and space equipment do	103.9 109.4	95.2 119.9	90.1 117.0	92.0 118.2	92.6 117.6	93.2 118.0	92.0 120.4	95.9 120.2	97.6 121.8	100.0 122.9	103.2 124.0	106.0 125.7	⁷ 110.1 ⁷ 128.3	'111.2 '129.5	₽110.3 ₽130.5	•132.7
Intermediate productsdo Construction suppliesdo Business suppliesdo	143.3 124.3 162.1	156.6 142.5 170.7	147.8 133.1 162.3	150.8 136.4 165.2	152.2 138.4 166.0	154.5 142.1 166.8	158.1 145.8 170.4	162.2 149.0 175.3	165.4 151.4 179.3	166.5 152.3 180.6	165.5 151.6 179.4	165.4 151.5 179.3	167.8 155.5 *180.1	י169.1 י157.1 י181.0	P169.9 P158.9 P180.9	•161.3
Materials	133.7 125.0	145.2 138.6	137.6 128.7	139.7 132.4	141.7 134.7	143.7 137.0	147.8 141.1	149.7 144.2	152.2 147.4	154.0 149.4	154.5 150.3	154.5 151.3	*156.6 *154.6	"159.6 "158.5	₽160.6 ₽159.8	
Nondurable goods materials do Energy materials do	157.5 125.1	174.5 124.8	167.5 121.9	168.7 121.6	172.1 121.1	174.3 121.8	177.0 127.7	178.0 128.0	182.3 126.4	185.3 126.3	184.8 127.1	180.3 130.0	'181.2 '131.3	"184.6 "131.2	₽186.5 ₽130.6	*189.1 *131.0
By industry groupings: Mining and utilities do Mining	146.3 126.1	142.9 116.6	137.7 112.6	138.9 111.6	139.7 112.8	139.6 112.6	143.8 115.0	146.0 116.1	146.5 117.1	145.8 118.3	147.2 121.1	151.5 123.7	"151.4 "124.8	"149.1 "124.5	₽149.4 ₽123.5	°149.5 °123.3
Metal mining do Coal	82.4 142.7	80.9 136.3	75.2 127.3	79.8 125.3	84.4 125.6	82.9 124.6	82.5 139.9	80.9 141.2	78.7 140.5	81.0 142.7	84.6 144.8	82.3 145.2	89.4 151.5	*97.4 163.2	P100.6 P164.0	
Oil and gas extraction # do Crude oil do	131.1 95.1	116.6 95.1	114.4 95.3	112.2 96.0	112.5 95.3	112.6 95.9	113.9 95.7	114.7 94.3	116.3 95.4	117.3 94.4	119.8 94.0	123.4 94.6	"123.1 "96.4	"120.1 195.4	°117.6 °93.8	•117.9
Natural gas do Stone and earth minerals do	104.1 112.1	94.7 122.8	98.2 114.0	97.9 117.7	94.1 122.5	87.4 121.7	89.1 121.2	91.0 125.0	91.5 126.5	92.9 127.4	96.7 132.2	98.5 133.9	99.6 *134.8	133.2	°136.3	
Utilities do Electric do	168.7 190.5	172.4 196.0	165.8 188.2	169.3 192.7	169.7 192.9	169.8 192.0	176.0 200.9	179.3 205.4	179.3 204.5	176.5 200.7	176.3 200.2	182.5 208.0	181.0 206.8	'176.6 '200.1	₽178.3 ₽202.2	
Manufacturingdo Nondurable manufacturesdo Foodsdo	137.6 156.2 151.1	148.2 168.1 156.4	140.4 160.7 152.0	143.1 163.3 153.7	145.1 165.4 155.6	147.4 167.8 157.7	150.6 170.6 159.9	152.8 172.9 159.3	155.1 174.6 158.2	156.2 175.6 157.6	156.4 174.8 157.1	156.8 173.9 157.7	r159.5 r175.2 r159.4	*161.6 *177.4 160.0	₽162.4 ₽177.8	*164.9 *179.9
Tobacco products do Textile mill products do	118.0 124.5	112.1 140.8	113.4 131.9	114.8 136.6	112.9 139.6	120.0 141.8	112.9 146.7	117.1 147.4	112.7 148.7	109.1 148.7	109.5 145.8	112.3 145.0	116.4 143.9	110.9 *142.3	₽142.9	
Apparel products	150.8	140.0	156.3	157.0	161.5	163.0	165.1	168.6	170.4	171.5	172.1	170.1	-172.3	176.2	P174.9	•176.0
Printing and publishing do Chemicals and products do	144.1 196.1	152.5 215.0	145.9 205.7	145.7 208.5	145.2 211.0	147.4 214.7	152.0 218.3	157.8 220.3	161.7 224.1	162.7 228.4	162.0 225.6	161.7 221.1	163.4 ¹ 221.5	"164.8 "226.1	₽165.1 ₽227.0	•167.0
Petroleum products do Rubber and plastics products do	121.8 254.7	120.3 291.9	114.8 272.0	120.6 283.0	123.8 288.0	123.0 293.8	124.3 296.1	123.2 306.9	125.1 310.9	123.6 310.8	125.4 309.1	114.4 314.4	118.8 *317.2	*127.6 318.5	P127.8 P323.4	•130.9
Leather and products do Durable manufactures do	60.9 124.7	61.9 134.5	59.4 126.3	58.7 129.1	59.6 131.0	60.1 133.2	62.3 136.8	64.4 138.8	64.2 141.6	64.0 142.8	63.2 143.6	145.0	'61.4 '148.6	"63.9 "150.6	₽63.9 ₽151.7	•154.4
Urdnance, pvt. and govt do Lumber and products do	86.9 112.6	95.4 137.2	91.9 128.7	93.2 132.1	92.6 135.8	93.3 137.4	95.2 141.3	96.8 141.6	98.0 142.3	98.8 141.7	99.3 141.0	99.8 143.8	99.7 *146.0	799.6 146.0	P100.4 P147.7	•102.0
Furniture and fixturesdo Clay, glass, and stone productsdo Primary metalsdo	151.9 128.2 75.3	170.5 143.4 85.4	161.0 135.6 81.2	167.7 138.3 83.1	169.6 139.2 84.9	173.1 141.7 84.8	175.2 145.8 85.5	179.0 147.9 87.5	180.7 151.7 90.6	181.0 151.9 95.3	177.5 152.7 92.2	177.9 153.8 90.4	'183.8 '157.8 93.2	"185.6 "160.4 "98.4	P186.0 P160.7 P97.7	•99.8
Iron and steel do Nonferrous metals do	61.7 99.7	71.5 110.1	66.9 107.3	68.5 105.4	69.5 110.0	69.7 110.7	71.8 112.6	75.1 108.1	78.2 113.5	84.3 115.5	79.2 114.1	74.1	80.7 117.4	"86.0 "121.3	₽84.5 ₽122.8	
Fabricated metal products do Nonelectrical machinery do Electrical machinery do	114.8 149.0 169.3	120.2 150.6 185.5	113.9 138.6 173.8	115.3 143.1 177.2	115.5 146.1 180.1	118.5 149.5 182.4	122.7 154.2 188.3	126.0 157.3 189.2	127.4 158.3 195.8	126.9 159.2 198.4	128.5 161.8 200.1	129.2 164.3 201.5	131.7 169.5 206.2	*132.6 *171.5 *209.9	P134.9 P173.1 P211.8	°176.9
Transportation equipment do Motor vehicles and parts do	104.9 109.8	117.8 137.1	110.1 123.2	111.4 125.5	113.8 130.4	116.6 136.2	119.7 142.3	121.1 144.3	124.7 150.9	125.5 150.9	127.3 152.9		r134.9 r166.3	r135.6 r165.1	P136.0 P166.1	•135.4 •163.0
Instruments do BUSINESS SALES	161.9	158.7	154.0	155.1	156.0	156.1	159.3	161.6	163.6	163.0	163.0	164.6	r167.8	*1 6 8.6	°170.2	•173.5
Mfg. and trade sales (unadj.), total @ mil. \$	*4,122,053	*4,405,156	*363,739	"348,454	"364,388		*352,447	, i	r386,670	*389,500	*389,339			, í		
Mfg. and trade sales (seas. adj.), total @ do Manufacturing, total ††	¹⁴ ,122,053 ¹ 1,910,317 ¹ 922,313	¹¹ 4,405,156 ¹¹ 2,047,400 11 021 514	*348,227 *161,809 *79,653	"351,012 "162,997 "80 124	*360,488 *166,603	r171,756	*370,181 *171,408	*373,283 *174,112 *86 730	*379,229 *177,521	"382,457 "177,324 "89 181	"386,564 "180,875 "92 311		*184,406	*398,815 *185,005	188,177	
Durable goods industries do Nondurable goods industries do	*988,004	*1,025,886	*79,653 *82,156	r80,124 r82,873	"82,011 "84,592		*85,076 *86,332	*86,730 *87,382	*88,963 *88,558	"89,181 "88,143	"92,311 "88,564	"96,351 "90,001	^{195,283} 189,123	*96,297 *88,708	91,254	
Retail trade, total ‡do Durable goods storesdo Nondurable goods storesdo	^{r1} 1,074,561 ^r 324,489 ^r 750,072	r ¹ 1,173,966 r385,141 r788,825	¹ 93,804 ¹ 29,986 ¹ 63,818	^{195,125} 130,671 164,454	"97,239 "31,705 "65,534	"98,638 "32,790 "65,848	¹ 98,832 132,597 166,235	"98,277 "31,951 "66,326	"99,537 "32,905 "66,632	*100,923 *33,882 *67,041	"101,896 "34,641 "67,255	"102,438 "35,532 "66,906	*106,602 37,127 69,475	*105,482 *36,909 *68,573	103,377 34,945 68,432	
Merchant wholesalers, total †do Durable goods establishmentsdo Nondurable goods establishmentsdo	1,137,175 467,107 670,068	¹ 1,183,790 504,810 678,980	92,614 38,794 53,820	92,890 39,224 53,666	96,646 40,667 55,979	98,577 42,479 56,098	99,941 42,824 57,117	100,894 42,757 58,137	102,171 43,535 58,636	104,210 44,519 59,691	103,793 44,946 58,847	106,892 46,363 60,529	47,855	*108,328 *47,308 *61,020	48,024	
Mfg. and trade sales in constant (1972) dollars (seas. adj.), total bil. \$ Manufacturing do			156.2 71.5	156.0 72.0	161.6 73.7	165.8 76.1	164.0 74.8	164.7 76.4	166.2 76.7	166.1 76.1	168.8 78.0	172.5	י174.1 י79.3	"172.8 "79.4	172.7	
Manuracturing do Retail trade do Merchant wholesalers dodo			71.5 47.8 36.9	47.7 36.3	49.1 38.8	49.8	74.8 49.8 39.4	76.4 49.0 39.3	49.7 39.8	49.9 40.1	78.0 50.7 40.2	80.0 51.2 41.3	52.4	51.9	80.1 50.9 41.6	

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data	1982	1983					19	83						19	84	
through 1982 and methodological notes are as shown in BUSINESS STATISTICS: 1982	Anı	nual	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
	GE	NERA	L BU	SINE	ss in	NDIC	ATO	RS-C	ontir	nued	L	L				I
BUSINESS INVENTORIES																
Mfg. and trade inventories, book value, end of year or month (unadj.), total @ mil. \$	*500,915	r509,324	^{501,048°ء}	r501,712	[*] 501,063	*498,8 31	*497,598	^{500,692}	506,40 4	516,614	⁷ 521,655	509,324	513,621	•525,177	533,416	
Mfg. and trade inventories, book value, end of year or month (seas. adj.), total @ mil. \$	⁷ 505,546	⁷ 514,336	*499,370	•500,263	¹ 501,035	•500,615	•501,379	'504,284	¹ 506,984	•509,171	•511,453	[•] 514,336	•518,062	•527,216		
Manufacturing, total ††do Durable goods industriesdo Nondurable goods industriesdo	"264,599 "175,009 "89,590	*260,426 *171,571 *88,855	"257,803 "170,144 "87,659	"257,748 "170,368 "87,380	^r 258,281 r171,065 r87,216	"257,661 "170,154 "87,507	"257,699 "169,679 "88,020	"259,074 "170,283 "88,791	"259,168 "170,084 "89,084	"259,569 "170,219 "89,350	"259,873 "170,656 "89,217	^r 260,426 ^r 171,571 '88,855	¹ 260,884 171,549 189,335	"264,074 "173,203 "90,871	267,236 175,794 91,442	
Retail trade, total ‡ do Durable goods stores do Nondurable goods stores do	'125,384 '56,748 '68,636	*135,843 *63,447 *72,396	*126,998 *57,775 *69,223	*127,613 *58,057 *69,556	'129,197 '58,796 '70,401	"129,782 "59,120 "70,662	"129,556 "58,614 "70,942	"130,983 "59,400 "71,583	*132,142 *60,627 *71,515	"132,777 "61,048 "71,729	"134,622 "62,441 "72,181	*135,843 *63,447 *72,396	137,977 63,749 74,228	"142,731 "66,513 "76,218	143,704 66,915 76,789	
Merchant wholesalers, total † do Durable goods establishments do Nondurable goods establishments do	115,563 76,013 39,550	118,067 75,811 42,256	114,569 74,104 40,465	114,902 73,753 41,149	113,557 72,647 40,910	113,172 72,501 40,671	114,124 73,193 40,931	114,227 73,076 41,151	115,674 74,249 41,425	116,825 74,806 42,019	116,958 74,791 42,167	118,067 75,811 42,256	119,201 76,408 42,793	'120,411 '76,910 '43,501	120,905 77,399 43,506	
Mfg. and trade inventories in constant(1972)dollars, end of year or month(seas.adj.),total bil. \$ Manufacturing do Retail trade do Merchant wholesalers do			257.6 136.5 65.9 55.2	257.2 136.3 65.8 55.1	257.5 136.6 66.2 54.7	257.1 136.3 66.3 54.4	256.9 136.3 66.0 54.7	258.1 136.7 66.5 54.9	259.3 136.6 67.3 55.4	259.8 136.5 67.6 55.7	260.7 136.5 68.3 55.8	261.6 136.5 68.9 56.3	262.3 *136.0 69.6 56.6	r265.7 r137.1 r71.7 r56.9	266.7 138.3 71.6 56.7	
BUSINESS INVENTORY-SALES RATIOS						-1 -0	-1 05						1.00	1.00		
Manufacturing and trade, total @ ratio Manufacturing, total †† do	*1.52 1.73	1.37 1.52	'1.43 1.59	"1.43 1.58	1.39 r1.55	י1.36 י1.50	'1.35 1.50	^{1.35} 1.49	"1.34 1.46	r1.33 r1.46	r1.32 1.44	r1.30 1.40	1.29 1.41	1.32 1.43	1.33 1.42	
Durable goods industries do Materials and supplies do Work in process do Finished goods do	2.37 0.72 1.03 0.61	2.01 0.60 0.90 0.51	⁷ 2.14 0.63 ⁷ 0.96 0.55	*2.13 0.63 0.95 0.54	r2.09 r0.62 r0.94 0.53	1.99 0.59 0.89 0.51	1.99 0.59 0.90 0.51	1.96 0.59 0.88 0.50	1.91 0.57 0.86 0.48	71.91 70.57 70.86 0.48	1.85 r0.55 0.83 r0.46	1.78 0.54 "0.80 0.44	r1.80 0.54 0.81 0.45	1.80 0.54 0.81 0.44	1.91 0.55 0.82 0.44	
Nondurable goods industries do Materials and supplies do Work in process do Finished goods do	1.13 0.44 0.18 0.50	1.03 0.41 0.17 0.46	1.07 0.42 0.17 0.47	*1.05 0.42 0.17 0.47	"1.03 0.41 0.17 "0.46	*1.02 0.40 *0.17 *0.45	1.02 0.40 0.17 0.45	*1.02 0.41 *0.17 *0.45	r1.01 0.40 0.16 r0.44	r1.01 r0.40 0.17 0.44	1.01 r0.40 0.17 0.44	0.99 0.40 0.16 0.43	'1.00 0.41 0.16 0.43	1.02 0.42 0.17 0.44	1.00 0.40 0.16	
Retail trade, total ‡do Durable goods storesdo Nondurable goods storesdo	'1.42 '2.18 '1.09	1.33 1.85 1.07	1.35 1.93 1.08	1.34 1.89 1.06	1.33 1.85 1.07	1.32 1.80 1.07	1.31 1.80 1.07	1.33 1.86 1.08	1.33 1.84 1.07	1.32 1.80 1.07	1.32 1.80 1.07	1.33 1.79 1.08	1.29 1.72 1.07	1.35 *1.89 1.11	1.39 1.91 1.12	
Merchant wholesalers, total †do Durable goods establishmentsdo Nondurable goods establishmentsdo	r1.25 r2.01 r0.72	1.17 1.76 0.72	1.24 1.91 0.75	1.24 1.88 0.77	1.17 1.79 0.73	1.15 1.71 0.72	1.14 1.71 0.72	1.13 1.71 0.71	1.13 1.71 0.71	1.12 1.68 0.70	1.13 1.66 0.72	1.10 1.64 0.70	1.08 1.60 "0.69	1.11 1.63 *0.72	1.11 1.61 0.71	······
Manufacturing and trade in constant (1972) dollars, totaldo do Manufacturing			1.65 1.91 1.38 1.50	1.65 1.89 1.38 1.52	1.59 1.85 1.35 1.41	1.55 1.79 1.33 1.37	1.57 1.82 1.33 1.39	1.57 1.79 1.36 1.40	1.56 1.78 1.36 1.39	1.56 1.79 1.35 1.39	1.54 1.75 1.35 1.39	1.52 1.71 1.34 1.36	1.51 1.72 1.33 1.33	1.54 1.73 1.38 1.37	1.54 1.73 1.41 1.36	
MANUFACTURERS' SALES, INVENTORIES,														· ·		
AND ORDERS ^{††} Shipments (not seas. adj.), total mil. \$	r1,910,317	2,047,400	'169,554	r163,795	168,253	181,97 3 ت	'158,331	171,649	^{185,882} ¹	r182,791	•1 79 ,712	r179,624	169,717	186,65 5 ت	197,324	
Durable goods industries, total do Stone, clay, and glass products do Primary metals. do Blast furnaces, steel mills do Fabricated metal products do Machinery, except electrical do Transportation equipment do Motor vehicles and parts do	^{1922,313} 44,005 107,031 47,320 ^{113,975} 180,612 ^{141,056} ^{195,054} 112,177 48,873	*1,021,514 *49,058 *117,904 *48,189 *120,570 *178,267 *156,016 *240,496 *151,870 *50,016	r85,177 r3,887 r9,665 r4,054 r9,951 r15,389 r13,028 r20,404 r12,346 r4,156	*81,878 *3,963 *3,936 *9,703 *13,989 *12,462 *19,473 *11,984 *3,897	*83,736 *4,109 *9,863 *3,922 *10,108 *14,245 *12,526 *19,893 *12,874 *3,908	r92,444 r4,519 r10,363 r4,283 r10,663 r16,413 r13,890 r22,359 r14,087 r4,381	^{r76,670} ^{r3,945} ^{r9,042} ^{r3,661} ^{r9,148} ^{r13,844} ^{r11,481} ^{r16,771} ^{r10,216} ^{r3,894}	r83,373 r4,476 r9,748 r4,026 r10,306 r14,102 r12,416 r18,436 r11,690 r4,084	r93,189 r4,688 r10,505 r4,245 r11,107 r16,034 r14,398 r21,613 r14,015 r4,596	r92,735 r4,531 r10,659 r4,300 r11,224 r15,606 r14,066 r21,948 r14,988 r4,444	*91,572 *4,289 *10,542 *4,382 *10,522 *15,534 *14,059 *22,551 *14,885 *4,415	^{r92,344} ^{r3,734} ^{r10,932} ^{r4,476} ^{r10,006} ^{r17,546} ^{r14,330} ^{r22,014} ^{r13,222} ^{r4,674}	*85,815 *3,758 *10,526 *4,300 *9,891 *14,429 *13,129 *13,129 *21,819 *15,372 *4,041	^{r96,948} ^{r4,328} ^{r11,457} ^{r4,789} ^{r11,121} ^{r16,717} ^{r14,435} ^{r24,529} ^{r16,865} ^{r4,333}	103,644 4,502 12,469 5,267 11,705 18,466 15,808 25,538 17,584 4,755	······
Nondurable goods industries, total do Food and kindred products do Tobacco products do Textile mill products do	988,004 277,324 14,455 47,217	^{1,025,886} 286,605 15,462 52,219	"84,377 24,454 "1,268 4,557	^r 81,917 22,835 ^r 1,070 4,140	r84,517 r23,829 r1,187 4,332	¹ 89,529 124,901 1,514 4,763	^r 81,661 ^r 22,423 ^r 1,154 3,775	788,276 724,167 71,264 4,651	^r 92,693 r25,908 r1,525 4,830	¹ 90,056 124,694 1,341 4,807	*88,140 *24,050 *1,410 4,474	r87,280 r24,344 r1,771 r4,496	^r 83,902 ^r 22,701 ^r 1,035 ^r 4,202	^{•89,707} •24,300 •1,241 •4,771	25,402 1,502	·····
Paper and allied products do Chemical and allied products do Petroleum and coal products. do Rubber and plastics products do	78,989 172,803 206,430 50,163	⁷ 85,135 7190,230 7191,551 750,320	7,058 *16,063 14,781 *4,015	7,070 *15,305 15,431 *4,146	6,975 *16,261 15,835 *4,108	7,423 *16,959 *16,850 *4,472	^{16,719} 14,460 16,671 3,994	"7,274 "15,751 "16,784 "4,305	^{r7,425} ^{r17,532} ^{r16,961} ^{r4,514}	"7,462 "16,290 "16,295 "4,574	'7,275 '16,078 '16,084 '4,300	"7,135 "16,706 "16,412 "4,095	"7,459 "16,485 "15,582 "3,985	r8,024 r17,486 r15,825 r4,340	18,822 16,672	······
Shipments (seas. adj.), total do By industry group:			*161,809	*162,997	*166,60 3	r171,756	r171,408	r174,112	*177,52 1	177,324	⁼1 8 0,875	*186,35 2	*184,406	*185,005	188,177	
Durable goods industries, total # do Stone, clay, and glass products			^r 79,653 ^r 3,833 ^r 9,014 ^r 3,695	r80,124 r3,882 r9,120 r3,702	⁷ 82,011 74,015 79,508 73,872	¹ 85,594 14,123 19,750 13,994	^r 85,076 r3,982 r9,954 r4,050	"86,730 "4,235 "10,121 "4,189	*88,963 *4,304 *10,286 *4,266	⁷ 89,181 74,226 10,631 74,406	^r 92,311 '4,346 '11,164 '4,641	¹ 96,351 14,250 11,964 14,796	^{195,283} 14,462 10,783 14,335	¹ 96,297 14,634 10,973 4,565	4,451 11,631	
Fabricated metal products do Machinery, except electrical do Electrical machinery do Transportation equipment do Motor vehicles and parts do Instruments and related products do	·		^{19,433} ^{14,161} ^{12,464} ^{18,469} ^{11,122} ^{3,930}	^{19,493} ^{14,078} ^{12,450} ^{18,476} ^{11,120} ^{3,976}	^{19,912} ^{14,265} ^{12,554} ^{18,898} ^{11,985} ^{3,984}	"9,887 "14,975 "12,972 "20,491 "12,682 "4,083	*,000 *9,921 *15,360 *12,791 *19,617 *12,509 *4,330	4,165 '10,227 '15,013 '12,762 '20,988 '13,656 '4,145	*10,616 *15,416 *13,571 *21,063 *13,732 *4,297	r10,681 r15,588 r13,594 r20,609 r13,513 r4,305	4,041 10,766 15,912 13,966 22,039 14,395 14,395 14,304	^{110,889} ^{16,444} ^{14,579} ^{23,531} ^{15,602} ^{4,568}	*10,904 *16,327 *14,327 *24,223 *16,761 *4,490	*,000 *11,083 *16,481 *14,216 *24,257 *16,540 *4,426	11,088 16,997 15,148 23,119 15,844	
Nondurable goods industries, total #			*82,156 *23,759 *1,361 *4,135 *6,735 *14,792 *15,186 *3,952	*82,873 *23,581 *1,096 *4,172 *6,949 *14,789 *15,954 *4,008	*84,592 *24,214 *1,183 *4,260 *6,930 *15,482 *15,811 *4,091	"86,162 "23,956 "1,444 "4,377 "7,107 "15,935 "16,384	*86,332 *23,812 *1,156 *4,434 *7,143 *15,920 *16,778 *4,204	*,140 *87,382 *24,018 *1,220 *4,518 *7,108 *16,348 *16,691 *4,168	*,251 *88,558 *24,316 *1,432 *4,523 *7,229 *16,904 *16,868 *4,354	*88,143 *23,904 *1,295 *4,615 *7,354 *17,145 *16,218 *4,308	*88,564 *23,765 *1,423 *4,482 *7,542 *17,209 *16,074 *4,499	*90,001 *24,502 *1,618 *4,806 *7,701 *17,329 *16,093 *4,567	"89,123 "24,542 "1,137 "4,770 "7,743 "17,088 "15,699	*88,708 *23,998 *1,349 *4,787 *7,797 *17,159 *15,751 *4,320	91,254 24,699 1,617 4,717 7,737 17,361 17,138	

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nless otherwise stated in footnotes below, data	1982	1983						33						19	84	
ness otherwise stated in footnotes below, data prough 1982 and methodological notes are as hown in BUSINESS STATISTICS: 1982		ual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Ар
	GEI	NERA	L BU	SINE	SS IN	NDICA	ATOF	ksC	ontir	nued						L
MANUFACTURERS' SALES, INVENTORIES, AND ORDERS †—Continued																
hipments (seas. adj.)Continued																
By market category: Home goods and apparel mil. \$	1190.888	¹¹ 145,185	11,291	11.685	*11,751	r12,046	^{12,264 -}	r12,420	r12,489	¹ 12,601	12,850 ⁻	'12,878	13,289	13.070	13,144	
Consumer staples	¹ 367,743	r1383,308 r1297,016	¹ 31,801	r31,175	r32,038 r23,322	*32,137	"31.669	r32,265	12,400 132,345 125,524	r31,952	r32,151	r33,349	r32,856 r25,971	r32,477	33,743 27,046	
Automotive equipment	1130,758	¹¹ 174,193	¹ 23,808 12,923	r23,790 r12,922 r12,273	r13,795	"25,198 "14,537 "13,330	"24,892 "14,351	"24,547 "15,517	r15,627	"25,125 "15,412	"26,281 "16,294	י27,441 י17,775	*18,818	"26,409 "18,594	17,965	
Construction materials and supplies	¹ 135,945 ¹ 854,213	¹¹ 157,168 ^{1890,530}	12,172 69,814	"12,273 71,152	12,846 72,851	13,330 74,508	"13,049 75,183	r13,367 r75,996	"13,771 "77,765	"13,748 "78,486	13,943 79,356	13,919 80,990	r13,959 r79,513	'14,643 '79,812	14,158 82,121	
Supplementary series	157 753	1164 777	5,002	¹ 5,211		r5,439	* 5,442	r5,462	15,595	•5,702	^{5,828}	•5,855	¹ 5,989	r5,930	6,102	
Capital goods industries	1327,990 1271,305	*1337.497	27,158 21,925	27,188 21,879	י5,237 י26,622 י21,387	*28,647	28,158 22,581	^{27,996}	¹ 28,948	r28,749	r29,825 r24,138	'31,123 '25,445	'29,810	r30,010	30,832 25,098	
Defense do	r156,685	r ¹ 65,158	5,233	*5,309	⁵ ,235	¹ 23,265 15,382	-22,581 -5,577	"22,514 "5,482	r23,482 r5,466	"23,109 "5,640	*5,687	*5,678	"24,092 "5,718	\$5,852	25,098	
ventories, end of year or month:	000 007		-250 205		-000 070						-070 000		-000 005	-005 5 40	000 000	
Book value (unadjusted), total do Durable goods industries, total do Nondurable goods industries, total do	261,987 172,615	^r 257,601 ^r 169,023	"259,225 "171,286	"259,984 "172,010	"260,272 "172,770	"257,793 "170,803	"257,219 "169,776	"258,403 "170,438	"257,216 "169,056	¹ 258,831 169,331	"259,223 "169,575	'257,601 '169,023	r170,750	"265,548 "174,288	268,639 176,957	
	89,372	*88,578	•87,939	[*] 87,974	*87,502	¹ 86,990	¹ 87,443	r87,965		¹ 89,500	¹ 89,648	*88,578	•90,057	'91,260	91,682	
Book value (seasonally adjusted), total do By industry group:	¹ 264,599	^r 260,426	*257,803	r257,748	*258,281	¹ 257,661	¹ 257,699	*259,074	*259,168	*259,569	*259,873	r260,426	*260,884	r264,074	267,236	
Durable goods industries, total # do Stone, clay, and glass products	175,009 5,923	171,571 ¹ 5,677	170,144 5,800	'170,368 '5,802	171,065 5,752	170,154 5,725	169,679 5,739	'170,283 '5,705	170,084 5,685	170,219 5,694	170,656 5,688	'171,571 '5,677	171,549 5,600		175,794 5,682	
Primary metals	'21,409	19,228	*20,305	20,587	r20,578	20.335	20,081	19,962	19,782	19,668	19,700	19,228	19,009	19,434	19,868	
	"10,666 "17,723	'9,122 '17,819	"9,858 "17,192	*10,017 *17,305	9,949° 17,327°	"9,817 17,371	'9,711 17,519	"9,521 *17,608	"9,401 "17,541	"9,371 "17,352	*9,402 *17,666	"9,122 "17,819	*8,893 *17,765	"9,139 "17,892	9,291 18,007	
Fabricated metal products do Machinery, except electrical do	*40,099	r36,711	*38,961	*38,534	*38,346	*38,021	17,513 37,463	r37,398	37,174	*37,042	r37,032	'36,711	*36,922	r37,089	37,500	
Electrical machinery do Transportation equipment do	"26,595 "40,446	¹ 28,154 140,528	"26,179 "39,243	"26,212 "39,356	"26,488 "39,867	r26,739 r39,348	"26,801 "39,313	r27,061 r39,580	"27,175 39,687	*27,347 *39,809	"27,516 "39,646	"28,154 "40,528	^{*28,127} *40,716	"28,471 "41,206	28,932 42,120	
Electrical machinery do	r8,315 r9,237	"9,460 "9,014	"8,163 "8,860	18,381 18,941	18,471 18,997	*8,390 *8,867	"8,519 "8,884	^r 8,525 r8,957	18,578 18,937	*8,729 *8,949	^{r8,919} r9,023	"9,460 "9,014	"9,617 "8,828	r9,751 r9,020	9,971 9,043	
By stage of tabrication.																
Materials and supplies do Work in process do Finished goods do	"52,475 "77,724	"51,640 "77,372	'50,426 '76,184	'50,548 '76,277	r50,805 r76,752	"50,564 "76,211	"50,206 "76,189	^{150,759} 176,335	"50,821 "76,401	"50,909 "76,788	"51,174 "76,582	"51,640 "77,372	"51,910 "77,058	"52,228 "78,173	53,001 79,799	
	r44,810	¹ 42,559	*43,534	¹ 43,543	*43,508	*43,379	*43,284	*43,189	*42,862	'42,522	r42,900	*42,559	'42,581	*42,802	42,994	
Nondurable goods industries, total # do Food and kindred products do	*89,590 *20,678	*88,855 *20,797	*87,659 *20,673	187,380 120,533	"87,216 "20,514	"87,507 "20,344	*88,020 *20,343	¹ 88,791 121,054	r89,084 r21,025	189,350 120,783	"89,217 "20,680	r88,855 r20,797	189,335 120,996	'90,871 '21,354	91,442 21,670	
Tobacco products do Textile mill products	*4,407 *6,183	"3,931 "6,899	^r 4,214 ^r 6,201	"4,245 "6,259	"4,201 "6,378	r4,269 r6,482	r4,460 r6,583	*4,217 *6,678	74,200 76,814	'4,120 '6,966	74,050 76,954	r3,931 r6,899	'3,870 '6,951	"3,831 "6,960	3,745 7,046	
Paper and allied products	*8,563	*8,729	r8,389	r8,323	'8,372	r8,383	r8,366	^r 8,412	^{78,489}	*8,640	*8,755	18,729	r8,829	¹ 8,898	8,919	
Petroleum and coal products	*19,878 *9,389	*19,582 *8,232	'19,435 '8,801	'19,472 '8,651	'19,340 '8,598	'19,340 '8,615	'19,488 '8,590	*19,669 *8,475	'19,566 '8,674	'19,649 '8,680	19,700 8,462	19,582 8,232	19,509 8,165	19,840 8,739	20,137 8,222	
By stage of tabrication:	-5,813	r5,673	r5,643	*5,654	*5,67 2	r5,727	*5,740	•5,721	*5,701	5,724	r5,723	•5,673	"5,684	•5,797	5,924	•••••
Materials and supplies do Work in process do Finished goods do	^{135,074} 14,309	r36,066 r14,485	'34,632 '14,221	'34,472 '14,369	'34,411 '14,211	"34,736 "14,266	r34,606 r14,468	"35,394 "14,441	"35,731 "14,490	"35,682 "14,647	r35,558 r14,841	r36,066 r14,485	"36,486 "14,656	'37,063 '14,739	36,886 14,888	
Finished goods	*40,207	¹ 38,304	r38,806	*38,539	38,594	*38,505	¹ 38,946	*38,956	*38,863	-39,021	*38,818	'38,304	*38,193	*39,069	39,668	
By market category: Home goods and apparel do	*20,179	¹ 20,946	'19,771	'19,88 2	r19,925	¹ 20,186	¹ 20,163	"20,250	r20,448	*20,65 0	* 20,683	¹ 20,946	'21,283	¹ 21,365	21,814	
Consumer staples do	*33,259	¹ 32,143	*32,790	¹ 32,581	32,540	*32,523	*32,642	*32,809	r32.209	r32,128	*32.223	*32,143	*32,497	r32,865	33,107	•••••
Equip. and defense prod., exc. auto do Automotive equipment	"76,422 "10,468	"73,257 "11,626	^{174,348} 10,161	74,000 10,337	r74,292 r10,525	"73,444 "10,447	^{173,102} 10,568	73,254 10,658	^r 73,148 ^r 10,632	r73,223 r10,772	'73,045 '11,031	^{-73,257} -11,626	"73,445 "11,720	"74,025 "11,945	74,914 12,153	
Construction materials and supplies do Other materials and supplies do	18,886 105,385	19,134 103,320	"18,655 102,078	'18,712 '102,236	"18,662 102,337	"18,827 102,234	r19,019 r102,205	"19,149 "102,954	19,307 103,424	'19,217 '103,579	"19,275 103,616	19,134 103,320	"19,047 102,892	*19,199 *104,675	19,348 105,900	
Supplementary series: Household durables do	r9,879	r10,093	¹ 9,681	*9,765	r9,795	'9,861	'9 ,752	*9,767	^{19,848}	'9,906	'9,86 0		10,144	r10,161	10,415	
Capital goods industries do	*86,197	r83,191	*84,154	*83,756	[*] 84,157	r83,484	*82,928	r83,115	*83,063	*83,070	r82,631	¹ 83,191	*83,278	*83,839	85,318	
Nondefense do Defense do	"70,259 "15,938	"65,432 "17,759	"67,380 "16,774	*66,974 *16,782	*66,972 *17,185	"66,189 "17,295	r65,528 r17,400	"65,312 "17,803	"65,555 "17,508	^{65,712} 17,358	'65,268 '17,363	'65,432 '17,759	"65,466 "17,812	"65,622 "18,217	18,597	
ew orders, net (not seas. adj.), total do Durable goods industries, total do	1,888,668 901,550	¹ 2,081,200 1,053,671	171,784 86,901	'166,400 '84,166	167,484 82,843	r183,472 r93,928	160,111 78,153י	*172,271 *83,839	"187,600 "94,731	^{189,532} 99,529	183,563 95,606	"184,379 "97,124	^{178,284} 94,005	7194,643 7104,611	206,950 113,313	
Nondurable goods industries, total do	987,118		184,883	*82,234	r84,641	r89,544	18,155	*88,432	192,869	*90,003	r87,957	197,124 187,255	184,279	^{104,011} ^{90,032}	93,637	
ew orders, net (seas. adj.), total do By industry group:	r11, 888,66 8	¹¹ 2,081,200	'162,36 8	'165,869	*168,09 0	*175,877	*174,451	'176,360	°180,336	'182,911	¹ 186,606	'188,374	*188,671	r191,336	195,558	
Durable goods industries, total do	^{1901,550}	¹¹ 1,053,671	*79,801	*82,865	¹ 83,286	¹ 89,460	¹ 87,878	*88,820	r91,509	*94,776	°97,991	*98,444	*99,439	102,345	104,465	
Primary metals do Blast furnaces, steel mills do	*143,539	¹¹ 123,394 ¹⁵ 1,282	"8,861 "3,539	"9,185 "3,656	^{19,745} 14,020	'10,127 '4,039	10,311 ¹ 4,322 ¹	'10,773 '4,519	"10,998 "4,843	"11,273 "4,962	'12,147 '4,999	"11,809 "4,836	'11,622 '4,848	'11,442 '4,773	11,280 4,711	
Nonferrous and other primary met do	148,201	*159,618	*4,475	*4,584	*4,685	*5,026	*4,918	*5,212	*4,942	*5,138	*5,935	*5,683	*5,361	*5,316		
Fabricated metal products do Machinery, except electrical do	^{1106,790} ^{1162,913}	¹¹ 119,455 1180,874	"9,515 14,392	"9,288 "14,339	"9,932 "14,659	"9,845 15,377	^{19,798} 15,122	"10,180 "15,207	'10,524 '16,944	"10,591 17,073	'10,736 '16,115	'10,779 '16,415	"10,986 "17,159	"11,411 "17,215	10,983 18,196	
Electrical machinery do Transportation equipment do	¹¹ 147,579 ¹² 200,596	¹¹ 165,573 ¹¹ 254,004	12,735 17,995	"12,860 "20,350	"13,632 18,167	*13,308 *22,738	"14,450 "20,391	13,854 21,159	14,350 20,498	"15,055 "22,551	'14,801 '25,717	"15,369 "25,167	"15,658 24,931	16,143 26,702	16,746 28,298	
Aircraft, missiles, and parts do	¹ 67,743	^{r1} 81,899	r5,621	*7,444	*4,280	•7,954	¹ 5,421	*6,033	r6,179	r7,672 r	*8,308	'8,47 7	¹ 6,423	7,487	11,217	
Nondurable goods industries, total do Industries with unfilled orders ‡, do Industries without unfilled orders ◊ do	¹² 987,118 ¹² 02,344 ¹³ 784,774	^{r1} 1,027,529 ^{r1} 222,706 ^{r1} 804,823	"82,567 "18,049 "64,518	r83,004 r17,896 r65,108	*84,804 *18,293 *66,511	"86,417 "18,692 "67,725	"86,573 "18,701 "67,872	"87,540 "18,984 "68,556	788,827 718,880 769,947	"88,135 "19,177 "68,958	"88,615 "19,470 "69,145	"89,930 "19,712 "70,218	"89,232 "20,035 "69,197	^r 88,991 ^r 20,141 ^r 68,850	91,093 19,701 71,392	
By market category:							1									
Home goods and apparel do Consumer staples	1367,750	**383.242	11,165 31,789	11,696 31,175	12,054 32,046	12,092 32,100	"12,436 "31,645	12,468 32,273	'12,441 '32,366	"12,529 "31,934	"12,877 "32,176	'13,024 '33,330	"13,591 32,839	"13,440 "32,500	12,928 33,696	
Equip. and defense prod., excl. auto do Automotive equipment	**288.324	*1310,882 *1176,620	*22,837 *12,879	"26,229 "13,175	"23,431 "13,901	27,580 14,769	"25,325 "14,686	"24,608 "16,071	"27,262 "15,492	^{127,967} 15,814	'30,009 '16,615	27,589 18,060	"27,558 "19,042	r30,335	33,377 17,852	
Construction materials and supplies do	1131,667	1156,572	12,554	12,218	12,627	r13,321	r12,884	r13,428	13,669	13,737	¹ 13,864	*13,824	13,93 7	14,773	14,180	
Other materials and supplies do	· ·	*1907,993	•71,144	•71,376	•74,031	*76,015	*77,475	•77,512	*79,106	*80,930	'81,065	*82,547	¹ 81,704	¹ 81,497	83,525	
Household durables	¹ 57,162 ¹ 323,565	^{165,384} 1354,712	4,948 26,882	"5,231 "29,269	"5,531 "26,654	'5,475 '31,519	^r 5,612 r28,810	"5,510 "27,990	'5,514 '30,449	^{75,645} 32,065	¹ 5,826 133,684	^{15,980} 132,493	^{16,299} 131,701	"6,249 "34,307	5,859 38,061	
Nondefense do	111940 166	^{1273,162}	20,131	121,960	121,849	^{123,827} 17,692	722 060	*22.887	¹ 25.295	¹ 25,499	24,680	24,893	25,093	*27,018	26,581	

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data	1982	1983					19							19	84	
through 1982 and methodological notes are as shown in BUSINESS STATISTICS: 1982	Ann	ual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
	GEN	VERA	L BU	SINE	ss in	IDIC	ATO	rs—c	ontir	nued						
MANUFACTURERS' SALES, INVENTORIES, AND ORDERS ††—Continued																
Unfilled orders, end of year or month (unadjusted), total	^r 294,147 ^r 285,266 ^r 8,881	'327,947 '317,423 '10,524	r305,145 r295,445 r9,700	^{1307,750} 1297,733 10,017	"306,981 "296,840 "10,141	r308,479 r298,323 r10,156	r310,259 r299,806 r10,453	*300,272	^r 312,599 ^r 301,814 ^r 10,785	*308,608	*312,642		r336,515 r325,614 r10,901	^{1344,503} 1333,278 11,225	342,952	
Unfilled orders, end of year or month (seasonally adjusted) total	¹ 296,147 ¹ 287,014 ¹ 15,145 ¹ 6,843 ¹ 6,155	r330,122 r319,303 r20,817 r10,094 r8,195	r300,195 r290,614 r16,946 r7,813 r6,936	r293,355 r17,011 r7,767 r7,033	r304,554 r294,630 r17,248 r7,915 r7,051	r298,496 r17,625 r7,960 r7,328	r311,718 r301,298 r17,982 r8,232 r7,375	r303,389 r18,635 r8,563 r7,748	r316,782 r305,935 r19,347 r9,140 r7,777	r311,530 r19,989 r9,696 r7,848	r317,209 r20,971 r10,053 r8,460	r319,303 r20,817 r10,094 r8,195	r323,457 r21,656 r10,607 r8,392	"329,512 "22,127 "10,816 "8,533	337,055 21,776 10,725 8,208	
Fabricated metal products do Machinery, except electrical do Electrical machinery do Transportation equipment do Aircraft, missiles, and parts do	^r 21,646 ^r 55,759 ^r 60,333 ^r 121,203 ^r 93,037	r20,534 r58,363 r69,996 r134,467 r103,890	^r 21,262 ^r 54,163 ^r 61,556 ^r 123,441 ^r 95,424	^r 21,057 ^r 54,424 ^r 61,966 ^r 125,315 ^r 97,010	¹ 21,068 ¹ 54,818 ¹ 63,044 ¹ 24,584 ¹ 95,735	"21,026 "55,220 "63,380 "126,831 "97,316	^r 20,903 ^r 54,982 ^r 65,039 ^r 127,605 ^r 97,039	"20,856 "55,176 "66,131 "127,776 "97,101	^r 20,764 ^r 56,704 ^r 66,910 ^r 127,211 ^r 97,447	^{129,153} 99,487	"20,644 "58,392 "69,206 "132,831 "101,605	¹ 20,534 ¹ 58,363 ¹ 69,996 ¹ 134,467 ¹ 103,890	"20,616 "59,195 "71,325 "135,174 "104,419	¹ 20,942 ¹ 59,930 ¹ 73,254 ¹ 137,621 ¹ 105,846	20,836 61,131 74,855 142,798 111,416	·····
Nondur. goods ind. with unfilled orders ‡do By market category: Home goods and apparel *do Consumer staples * By market category: Home goods and apparel *	¹ 9,133 ¹ 3,477 ¹ 799 ¹ 83,056 ¹ 2,866 ¹ 2,866 ¹ 90,703 ¹ 3,057 ¹ 219,762 ¹ 23,108 ¹ 96,654	*10,819 *4,234 *728 *196,656 *7,618 *12,276 *108,610 *3,715 *236,703 *123,942 *112,761	r9,581 r3,601 r764 r182,777 r5,265 r12,950 r94,838 r3,162 r221,026 r118,792 r102,234	*9,712 *764 *185,216 *12,895 *95,062 *3,182 *223,107 *118,873 *104,234	r9,924 r3,915 r772 r185,325 r5,624 r12,676 r96,242 r3,476 r223,139 r119,335 r103,804	*10,179 *3,961 *735 *187,707 *5,856 *12,667 *97,749 *3,512 *226,011 *119,897 *106,114	*10,420 *4,133 *711 *188,140 *6,191 *12,502 *100,041 *3,682 *226,663 *119,376 *107,287	*10,578 *4,181 *719 *188,201 *6,745 *12,563 *101,558 *3,730 *226,657 *119,749 *106,908	*10,847 *4,133 *740 *189,939 *6,610 *12,461 *102,899 *3,649 *228,158 *121,562 *106,596	*10,839 *4,061 *722 *192,781 *7,012 *12,450 *105,343 *3,592 *231,474 *123,952 *107,522	*10,890 *4,088 *747 *196,509 *7,333 *12,371 *107,051 *3,590 *235,333 *124,494 *110,839	*10,819 *4,234 *728 *196,656 *7,618 *12,276 *108,610 *3,715 *236,703 *123,942 *112,761	*10,928 *4,537 *711 *198,240 *7,842 *12,254 *110,801 *4,026 *238,591 *124,941 *113,650	*11,213 *4,909 *735 *202,168 *8,039 *12,385 *112,489 *4,346 *242,889 *127,802 *115,087	4,692 687 208,498 7,926 12,406 113,896 4,104 250,119 129,285 120,834	
BUSINESS INCORPORATIONS @ New incorporations (50 States and Dist. Col.): Unadjusted	566,942	600,400	53,796 48,032	49,294 48,903	50,763 50,211	54,357 50,992	47,726 48,601	53,515 52,828	49,890 50,445	49,331 50,441	47, 9 24 51,642	51,969 51,557	52,885 53,044			
FAILURES @ Failures, total number. Commercial service do Construction do Manufacturing and mining do Retail trade do Wholesale trade do																
Liabilities (current), totalthous. \$ Commercial service do Construction do Manufacturing and mining do Retail trade do Wholesale trade do	(²)	······														······
Failure annual rate (seasonally adjusted) No. per 10,000 concerns														`		

		,	C	OMM	ODIJ	ry Pl	RICE	5								
PRICES RECEIVED AND PAID BY FARMERS †																
Prices received, all farm products 1910-14=100	609	616	612	622	624	612	601	635	621	614	615	641	660	658	*66 3	666
Crops # do Commercial vegetables do Cotton do Feed grains and hay do Food grains do Fruit do Tobacco	524 630 469 378 401 649 1,489	555 654 534 453 407 474 1,513	526 705 525 416 412 452 1,517	549 749 510 447 423 464 1,517	559 701 537 466 423 476 1,526	548 698 528 460 396 475 1,521	545 582 566 464 380 441 1,521	601 595 566 490 410 597 1,465	583 619 533 490 414 394 1,570	579 670 540 476 412 433 1,521	579 657 564 476 405 443 1,478	593 722 568 476 397 527 1,465	599 815 529 479 399 479 1,469	592 843 555 473 391 473 1,457	7601 7771 7595 7483 7399 7481 1,448	607 711 579 502 408 496 1,444
Livestock and products #do Dairy products do Meat animals do Poultry and eggs do	696 831 876 252	678 829 830 269	703 832 895 242	698 826 891 236	691 813 874 252	679 807 848 257	659 807 806 262	669 813 813 278	660 826 781 294	649 844 758 283	651 850 742 312	689 844 804 335	724 832 853 373	726 820 869 364	"727 807 "890 339	726 801 884 353
Prices paid: Production itemsdo All commodities and services, interest, taxes, and wage rates (parity index)1910-14=100	865 1,076	884 1,105	878 1,096	885 1,102	888 1,106	887 1,107	881 1,104	886 1,108	889 1,112	885 1,110	891 1,116	895 1,119	901 1,128	903 1,132	'910 '1,138	914 1,142
Parity ratio § do	57	56	56	56	56	55	54	57	56	55	55	57	59	58	58	58
CONSUMER PRICES (U.S. Department of Labor Indexes)														i.		
Not Seasonally Adjusted								Í							1	
ALL ITEMS, WAGE EARNERS AND CLERICAL WORKERS, REVISED (CPI-W)	288.6	297.4	293.0	294.9	296.3	297.2	298.2	299.5	300.8	301.3	301.4	301.5	302.7	303.3	303.3	304.1
ALL ITEMS, ALL URBAN CONSUMERS (CPI-U) ◊	289.1	298.4	293.4	295.5	297.1	298.1	299.3	300.3	301.8	302.6	303.1	303.5	305.2	306.6	307.3	308.8
All items less shelterdo All items less food \diamond do All items less medical care \diamond do	273.3 288.4 286.8	283.5 298.3 295.1	278.7 292.4 290.1	280.8 294.7 292.3	282.4 296.5 293.9	283.4 297.8 294.9	284.5 299.3 296.0	285.4 300.5 297.0	286.8 302.3 298.5	287.5 303.2 299.3	287.8 303.9 299.7	288.1 304.0 300.0	289.8 304.8 301.6	291.4 305.9 302.9	291.9 306.8 303.6	293.2 308.6 305.1

See footnotes at end of tables.

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S--6

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as	1982	1983					194	33						- 19	84	
shown in BUSINESS STATISTICS: 1982	Anr	nual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
		CC	OMMO	ODIT	Y PR	ICES	-Cor	ntinu	ed							
CONSUMER PRICES—Continued (U.S. Department of Labor Indexes)—Continued Not Seasonally Adjusted																
All items (CPI-U)—Continued 1967 == 100 Nondurables do Nondurables do Durables do Commodities do Durables do Commodities less food do Services do Food # do Food at home do	263.8 273.6 261.6 241.1 250.9 333.3 285.7 279.2	271.5 279.0 266.3 253.0 259.0 344.9 291.7 282.2	266.7 274.4 258.9 247.4 252.4 339.4 290.5 281.9	269.2 277.3 263.0 248.7 255.4 341.2 291.9 283.4	270.9 279.3 266.3 249.5 257.6 342.6 292.4 283.8	271.6 279.7 267.3 251.2 258.9 344.0 292.0 283.0	272.5 280.3 268.4 252.9 260.2 345.6 292.0 282.8	273.4 281.0 269.6 254.3 261.4 346.8 292.2 282.5	274.5 281.8 270.6 256.4 262.9 349.0 292.6 282.5	275.0 281.7 270.2 258.7 263.6 350.2 292.9 282.3	275.2 281.1 269.5 261.0 264.1 351.0 292.5 281.4	275.5 281.2 268.5 261.8 263.8 351.6 293.9 283.0	276.8 283.2 267.4 261.4 263.0 353.9 299.4 290.2	278.3 285.3 269.1 260.9 263.8 355.3 302.1 293.6	278.7 285.5 269.3 262.2 264.4 356.5 302.2 293.1	280.1 286.3 270.7 265.2 266.5 358.1 302.3 292.8
Housing ◊ do Shelter #◊ do Rent, residential do Homeowners' cost * Dec. 1982=100. Fuel and utilities # 1967=100. Fuel oil, coal, and bottled gas do Gas (piped) and electricity do Household furnishings and operation ◊	314.7 337.0 224.0 350.8 667.9 393.8 233.2	323.1 344.8 236.9 102.5 370.3 628.0 428.7 238.5	318.6 339.3 233.6 100.9 363.8 625.3 418.0 237.6	320.3 341.7 234.5 101.7 363.6 610.6 420.5 239.0	321.8 342.7 235.1 102.0 369.3 621.0 429.1 238.4	323.1 343.6 235.9 102.2 373.6 620.0 437.4 238.6	324.5 345.3 237.1 102.7 375.5 619.3 440.5 238.9	324.8 346.6 238.2 103.0 375.1 619.0 439.1 238.0	326.4 348.5 239.5 103.5 376.4 623.2 440.5 238.9	326.8 349.8 240.4 103.9 374.4 624.7 435.6 239.4	327.0 351.1 241.3 104.3 371.3 623.9 428.2 239.9	327.4 351.8 242.0 104.5 370.6 623.9 427.5 240.5	329.2 353.2 242.9 104.9 376.0 642.8 427.3 240.4	331.0 354.0 243.6 105.1 383.0 688.6 429.0 240.4	321.5 355.5 244.8 105.6 °380.1 <u>660.0</u> 429.5 241.2	333.2 357.8 246.4 106.2 380.9 650.7 432.3 242.3
Apparel and upkeep do Transportation do Private do New cars do Used cars do Public do Medical care do Seasonally Adjusted ‡ 40	191.8 291.5 287.5 197.6 296.4 346.0 328.7	196.5 298.4 293.9 202.6 329.7 362.6 357.3	194.5 287.4 282.7 201.2 309.3 354.5 352.3	195.5 292.3 287.5 201.1 312.7 361.1 353.5	196.1 296.2 291.7 201.6 317.1 359.2 354.3	195.6 298.3 293.8 201.6 322.7 361.2 355.4	195.0 300.4 296.0 201.4 329.6 363.2 357.7	197.3 302.4 298.0 202.1 336.8 365.0 360.0	200.4 303.7 299.2 202.7 343.9 366.6 361.2	200.7 305.0 300.4 204.3 350.4 368.2 362.9	200.7 306.3 301.7 206.2 356.1 370.3 364.9	199.3 306.3 301.8 207.0 357.6 369.0 366.2	196.4 306.0 300.9 207.2 357.3 378.2 369.5	196.2 305.8 300.8 207.2 357.2 377.4 373.2	198.8 306.9 301.9 207.2 362.2 377.4 374.5	199.2 309.6 304.8 207.4 370.0 377.1 375.7
All items, percent change from previous month ◊	·····		0.1 266.9 290.3 281.7 194.2 289.7 285.2 201.4 339.9	0.7 269.0 255.5 291.5 282.9 194.7 293.7 289.1 201.4 341.9	0.4 270.4 292.1 283.4 195.7 296.4 292.1 201.1 342.8	0.2 270.7 258.1 291.5 282.1 196.3 297.3 292.9 201.3 343.9	0.4 271.6 259.5 291.2 281.5 197.3 298.7 294.2 201.7 345.5	0.4 272.6 260.8 291.7 281.6 197.9 300.8 296.4 203.3 346.8	0.4 273.6 262.0 292.3 281.8 198.2 302.8 298.4 204.9 348.2	0.4 274.5 262.8 293.5 282.8 198.2 304.4 300.0 205.5 349.5	0.4 275.1 263.4 294.1 283.0 198.5 305.5 301.1 205.3 351.4	0.2 275.8 263.7 295.4 284.4 198.5 306.1 301.7 205.7 352.4	0.6 277.7 263.9 300.2 291.2 199.0 306.7 301.7 205.6 354.1	0.4 278.6 264.3 302.2 293.7 198.5 306.6 301.7 206.4 355.6	0.2 279.1 265.1 301.8 292.7 198.6 309.4 304.6 207.4 356.7	0.5 280.1 266.7 301.7 292.2 198.5 311.2 306.6 207.6 358.6
PRODUCER PRICES § (U.S. Department of Labor Indexes) Not Seasonally Adjusted						01010			01012							
All commodities 1967=100. By stage of processing: Crude materials for further processing	299.3 319.5 310.4 280.7 281.0 279.4 279.4 315.3 292.7 279.8	303.1 323.6 312.4 285.2 284.6 287.3 286.7 315.8 295.7 287.3	300.6 321.6 309.5 283.4 282.7 285.6 284.6 313.0 293.2 285.3	300.6 325.8 308.7 283.1 282.3 286.2 285.3 312.4 292.7 286.0	301.5 325.8 309.7 284.2 283.6 286.5 286.0 313.5 293.7 286.7	302.4 323.3 311.3 285.0 284.6 286.7 286.7 314.5 295.0 287.3	303.2 320.6 312.8 285.7 285.2 287.2 287.4 315.4 296.1 288.0	304.7 327.1 314.0 286.1 285.7 287.7 287.8 317.8 296.9 288.3	305.3 328.5 315.5 285.1 285.1 285.1 286.8 319.7 297.2 287.2	306.0 324.8 315.6 287.6 287.0 289.9 289.2 319.1 298.5 289.6	305.5 324.0 315.5 286.8 285.9 290.0 289.3 318.1 298.4 289.8	r306.1 r327.5 r315.7 r287.2 r286.3 r290.4 r290.1 r318.4 r298.8 r290.5	308.1 333.7 316.6 289.4 288.8 291.5 290.7 321.6 300.0 291.1	308.8 332.8 317.4 290.6 290.1 292.5 292.2 321.7 301.0 292.4	311.1 339.4 319.5 291.7 291.4 292.7 293.2 325.0 302.7 293.3	311.4 340.1 320.2 291.4 290.6 294.1 294.0 324.9 303.0 294.1
Nondurable manufactures do Farm prod., processed foods and feeds do Farm products do Foods and feeds, processed do Industrial commodities do Chemicals and allied products do Fuels and related prod, and power do Further and household durables do	306.4 248.9 242.4 251.5 312.3 292.3 693.2 693.2	304.4 253.9 248.2 256.0 315.8 292.9 665.9	301.4 250.6 241.5 254.5 313.5 289.8 658.0 212.2	299.7 254.7 250.5 256.0 312.4 291.3 644.8	301.0 254.7 250.4 256.1 313.6 291.1 651.9	303.1 252.5 247.4 254.3 315.3 290.8 665.5	304.5 251.5 244.3 254.4 316.5 293.7 668.7	305.9 255.5 253.5 255.5 317.3 294.4 671.7	307.8 259.1 256.4 259.6 317.1 295.9 672.3	307.7 257.5 255.2 257.8 318.5 295.5 669.5	307.4 256.0 251.0 257.6 318.3 296.4 663.7 215.7	307.5 ¹ 257.9 254.0 ¹ 259.0 318.4 ¹ 297.7 ¹ 658.0 19.7 ¹ 658.0	309.4 264.4 263.3 263.9 319.2 298.5 655.8	310.0 263.5 261.5 263.5 320.4 296.7 656.7	312.5 268.3 267.4 267.8 321.9 300.8 659.6	312.3 267.9 265.4 268.2 322.5 301.8 656.5
Furniture and nousehold duraties do Hides, skins, and leather products do Lumber and wood products do Machinery and equipment do Metals and metal products do Nonmetallic mineral products do Pulp, paper, and allied products do Rubber and plastics products do	206.9 262.6 284.7 278.8 301.6 320.2 288.7 241.4	213.9 271.4 307.3 286.4 307.1 325.3 297.6 243.4	212.3 264.9 305.8 284.7 304.4 322.0 294.8 241.8	212.8 267.4 307.2 285.4 304.6 324.1 295.4 243.0	213.6 269.4 308.0 286.0 306.1 324.1 296.0 243.2	214.0 271.2 314.8 286.2 306.3 324.5 297.0 243.1	214.8 272.3 314.6 287.4 307.3 325.1 297.8 243.4	214.9 274.7 313.9 287.4 308.2 326.3 298.8 243.7	215.4 274.4 305.6 287.9 310.7 327.2 299.9 243.2	215.3 273.7 305.6 287.6 310.9 328.0 302.2 244.4	215.7 277.0 304.9 288.0 310.9 328.9 303.6 243.6	"215.7 "277.3 "308.7 288.8 "311.9 "328.9 "304.0 "243.8	216.3 280.1 309.2 289.6 312.7 328.8 307.6 244.1	216.9 283.2 315.6 290.4 314.6 332.3 310.5 245.4	217.4 287.0 316.0 291.2 316.6 333.6 312.7 246.1	217.9 287.4 315.4 292.4 317.8 335.6 315.3 246.5
Textile products and appareldo Transportation equipment #Dec. 1968=100 Motor vehicles and equip	204.6 249.7 251.3	204.9 256.7 256.8	203.4 255.2 255.4	203.5 255.6 255.9	204.3 255.8 256.2	204.7 256.1 256.5	205.3 256.2 256.6	206.0 256.8 256.8	206.2 250.4 249.1	207.0 260.6 260.6	207.7 260.5 260.5	"207.8 260.7 "260.6	208.0 261.7 261.0	209.3 262.3 261.2	209.9 262.4 261.3	209.6 262.9 261.8
Finished goods, percent change from previous month By stage of processing: Crude materials for further processing 1967=100 Intermediate materials, supplies, etc. do Finished goods # do Finished goods, # do Finished consumer goods do Foods. do Finished goods, exc. foods. do Durable do Outable do Outable do PURCHASING POWER OF THE DOLLAR			-0.1 320.2 309.1 283.4 282.7 261.1 288.9 232.6 331.3 285.8	0.0 323.2 307.9 283.3 282.6 263.1 287.7 232.7 329.0 285.9	0.3 321.6 309.1 284.1 283.5 262.0 289.5 233.1 332.0 286.5	0.4 321.1 311.3 285.2 284.7 260.5 292.1 233.8 336.0 287.0	0.0 317.9 312.2 285.2 284.6 259.3 292.5 234.1 336.7 287.5	0.4 325.0 313.4 286.3 285.5 260.2 293.5 234.7 337.9 288.8	0.1 328.8 315.3 286.6 286.1 262.1 293.4 234.4 337.9 288.5	0.2 329.2 316.2 287.1 286.6 264.8 292.8 233.0 338.1 288.6	-0.1 330.4 316.6 286.9 286.3 263.9 292.9 233.8 337.5 289.0	r0.2 r333.6 317.1 r287.4 r286.7 r265.8 292.4 r234.0 r336.5 r289.8	0.6 336.2 317.3 289.1 288.7 272.7 292.0 234.0 335.7 290.4	0.4 331.1 317.4 290.2 289.7 274.5 292.6 235.3 335.9 291.9	0.5 337.7 319.1 291.6 291.3 276.7 293.8 237.3 336.3 292.9	0.0 337.5 319.3 291.6 290.9 275.1 294.1 237.2 337.0 293.8
As measured by: Producer prices	0.356 0.346	0.351 0.335	0.353 0.341	0.353 0.338	0.352 0.337	0.351 0.335	0.350 0.334	0.350 0.333	0.351 0.331	0.348 0.330	0.349 0.330	0.348 0.329	0.346 0.328	0.344 0.326	0.343 0.325	0.343 0.324

See footnotes at end of tables.

May 1984

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as	1982	1983					198	83						19	84	
shown in BUSINESS STATISTICS: 1982	Апп	ual	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	- Dec.	Jan.	Feb.	Mar.	Apr.
		CON	STRU	JCTI	ON A	ND F	REAL	EST.	ATE							
CONSTRUCTION PUT IN PLACE																
New construction (unadjusted), total mil. \$	232,049	262,667	18,259	19,597	21,461	23,578	24,389	26,123	26,507	24,352	23,514	21,458	r19,194	*19,77 1	22,077	
Private, total # do Residential do	180,979 74,810	212,287 110,708	15,058 7,163	16,071 8,221	17,382 9,222	18,966 10,167	19,558 10,991	20,549 11,600	21,015 11,872	19,651 10,721	19,019 9,952	17,840 8,484	"16,019 "8,212	"16,547 "8,474	18,688 9,847	
New housing units do	51,916	85,189	5,463	.6,066	6,799	7,743	8,361	8,753	8,884	8,569	8,337	7,259	r6,705	¹ 6,664	7,588	
Nonresidential buildings, except farm and public utilities, total # mil. \$	65,134	61,117	4,793	4,733	4,797	5,184	5,158	5,547	5,489	5,293 967	5,458	5,287	4,957 961	¹ 5,130	5,467 1,073	
Industrial do Commercial do Public utilities:	17,343 37,284	13,144 36,269	1,117 2,751	1,074 2,770	1,068 2,812	1,131 3,108	1,066 3,135	1,244 3,242	1,156 3,236	3,231	1,058 3,321	1,111 3,185	3,010	*1,010 *3,141	3,370	
Telephone and telegraph do	7,110	6,430	561	501	547	581	517	397	587	588	606	662	r391	464		
Public, total # do	51,070	50,381	3,200	3,526	4,079	4,612	4,831	5,574	5,492	4,701	4,495	3,617	3,175	r3,224	3,389	1
Buildings (excluding military) # do Housing and redevelopment do	16,997 1,658	17,231 1,678	1,326 151	1,332 136	1,423 137	1,523 133	1,537 120	1,683 151	1,600 147	1,456 151	1,430 141	1,312 136	1,259 110	'1,241 120	1,242 115	
Industrial do Military facilities do	1,632 2,205	1,800 2,536	151 198	137 212	154 199	152 161	166 239	137 207	200 253	143 192	145 268	135 233	121 216	136 218	137 251	
Highways and streets do	13,521	14,177	558	770	1,115	1,415	1,547	2,023	1,866	1,694	1,326	802	590	r 6 13	703	
New construction (seasonally adjusted at annual rates), total bil. \$			241.9	247.4	254.8	264.3	274.2	282.0	285.4	265.6	265.8	265.3	1275.7	"292.0	295.6	
Private, total # do			194.9	199.5	206.0	214.7	222.8	228.5	232.6	217.0	214.9	215.5	*225.0	'239.2	243.5	
Residential do New housing units do			96.1 72.3	102.0 77.3	107.5 82.2	113.5 87.9	122.3 92.7	127.1 94.8	129.1 95.0	116.5 92.1	110.4 91.9	108.0 92.6	"116.9 95.2	"128.3 "100.3	131.9 100.5	
Nonresidential buildings, except farm and public utilities, total #			61.3	57.6	57.6	60.0	59.3	62.5	62.6	58.9	62.4	64.0	67.0	r69.7	70.5	
Industrial			14.3 35.5	13.2 33.6	13.0 33.3	13.1 35.9	12.2 35.9	14.2 36.3	13.2 36.9	10.5 36.1	12.3 38.1	12.9 39.0	13.1 40.9	-13.9 -42.7	13.7 43.8	
Public utilities: Telephone and telegraph do			6.3	6.3	6.6	6.5	6.3	4.3	6.5	6.5	6.9	8.0	r5.9	6.6		
Public, total # do			47.0	47.9	48.7	49.6	51.4	53.5	52.8	48.6	50.9	49.8	50.7	¹ 52.8	52.0	
Buildings (excluding military) # do			17.2	16.8	17.3	17.4	17.7	18.3	17.2	16.8	16.5	16.0	17.2	'17.0	16.3	
Housing and redevelopment do Industrial do			1.9 1.8	1.6 1.6	1.6 1.7	1.6 1.7	1.4 2.0	1.8 1.7	1.8 1.9	1.8 2.0	1.6 2.1	1.6 1.6	1.4 1.4	1.6 2.0	1.4 1.6	
Military facilities do Highways and streets do			2.5 11.9	2.8 12.9	2.3 13.0	1.9 12.9	2.7 14.1	2.3 15.9	2.7 15.9	2.5 14.6	3.2 14.4	3.0 14.8	2.8 13.7	2.7 '14.9	3.2 15.9	
CONSTRUCTION CONTRACTS																
Construction contracts in 50 States (F.W. Dodge Division, McGraw-Hill):																
Valuation, total	156,240 1112	192,751 138	16,100 131	'16,315 129	18,934 148	20,339 151	17,028 137	18,597 154	17,388 143	16,227 139	15,365 145	13,422 134	13,751 150	14,155 150	17,577 144	17,42 14
Public ownership mil. \$	41.256	45,308	3,807	125	4,479	5,070	4,162	4,621	4,369	3,806	3,307	3,138	2,700	3,790	3,860	3.71
Private ownership do	114,984	147,442	12,293	¹² ,678 r12	14,455	15,270	12,866	13,976	13,019	12,421	12,058	10,284	11,051	10,365	13,716	
Nonresidential do Residential	59,594 59,210	61,905 93,201	5,278 7,945	74,394 7,859	5,246 8,235	6,334 10,158	5,312 8,471	6,006 9,257	5,437 8,644	5,795 8,221	5,511 7,575	4,741 6,482	5,300 6,600	4,249 6,800	5,849 8,806	9,33
Non-building construction do New construction planning	37,436	37,645	2,878	*4,062	5,453	3,847	3,246	3,334	3,308	2,210	2,280	2,200	1,851	3,106	2,921	2,690
(Engineering News-Record) § do	149,206	162,576	12,737	10,930	11,165	13,185	9,729	13,206	12,902	12,744	16,795	24,714	12,685	17,259	16,851	13,619
HOUSING STARTS AND PERMITS New housing units started:																
Unadjusted: Total (private and public)thous	1.072.0	1,712.4	135.8	136.4	175.5	173.8	162.0	177.7	156.8	159.9	136.4	108.5	109.2	'130.4	^{136.5}	
Privately owned do One-family structures	1,062.2 662.6		134.6 86.2							159.3 91.9	136.0 81.9				'135.9 '87.4	
Seasonally adjusted at annual rates: †		_,														
Total privately owned do One-family structures do			1,592 1,016	1,549 1,030	1,779 1,150	1,743 1,124	1,793 1,048	1,873 1,124	1,679 1,038	1,672 1,017	1,730 1,074	1,694 1,021	1,980 1,301	r2,262 r1,463	"1,645 "1,068	1,963 1,148
New private housing units authorized by building permits (16,000 permit-issuing places):																
Monthly data are seas. adj. at annual rates: Total	1.000	·1,605	1,492	'1,556	1,66 0	1.764	1,75 2 ¹	1.671	^{1.540ء}	*1,65 0	'1.649	1,602	r1,799	r1,902	¹ 1,727 ¹	1,72
One-family structures do	546	*902	859	*860	¹ 943	r1,010	⁷ 930	*900	*864	1905	r919	^{-,002} 913	¹ 989	*1,083	*974	
Manufacturers' shipments of mobile homes @ Unadjustedthous	239.6	295.6	25.4	25.1	26.8	29.5	23.4	30.2	28.1	26.8	23.5	18.7	20.0	22.2	25.5	
Seasonally adjusted at annual rates do CONSTRUCTION COST INDEXES			275	284	289	299	296	307	305	308	313	310	314	293	287	
Dept. of Commerce composite	154.1	157.1	156.5	156.8	155.3	154.2	156.8	158.4	158.9	158.5	157.3	158.6	159.9	160.3	161.4	
American Appraisal Co., The:													,			
Average, 30 cities					······		·····						·····			
New York					 		·····					 				
St. Louis do Boeckh indexes:						•••••		•••••	•••••			•••••	•••••	••••••	•••••	
Average, 20 cities: Apartments, hotels, office buildings. 1977=100	150.0	159.6	155.8		157.7		162.0		163.2		163.3		164.9		165.1	
Commercial and factory buildings	151.9 147.5	159.9 156.2	°157.1 153.5		°159.0 155.4		°161.6 157.8		°162.5 158.5		°162.6 158.8		°164.1 162.7		°3164.6 162.8	
Engineering News-Record:																
Building	330.6 356.1	352.9 378.6	348.1 372.9	347.4 372.5	347.9 372.6	353.5 379.2	357.3 382.5	359.4 384.7	359.7 385.6	357.6 384.2	358.3 384.8	356.1 382.6	355.5 382.5	356.2 382.9	357.1 383.4	² 358. ² 384.
	l .	l ·										1				I

Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as	1982	1983					19	83						19	84	
shown in BUSINESS STATISTICS: 1982	Anr	nual	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.'	Feb.	Mar.	Apr.
	CON	STRU	CTIO	N AN	ID R	EAL	ESTA	TE—	Cont	inued	l					
REAL ESTATE ◊																
Mortgage applications for new home construction: FHA net applications thous. units Seasonally adjusted annual rates do	99.8	176.1	17.1 180	16.5 187	15.1 156	²19.0 ²212	16.8 209	20.3 218	14.5 168	11.9 146	11.2 148	9.6 139	9.7 136	10.3 134	12.9 139	11.4 128
Requests for VA appraisals do Seasonally adjusted annual rates do	155.0	262.8	27.3 292	22.7 249	22.4 245	26.3 293	22.7 266	28.0 288	21.4 255	17.3 205	17.9 204	16.5 259	15.0 201	21.2 260	24.3 263	17. 19
Home mortgages insured or guaranteed by: Fed. Hous. Adm.: Face amount mil. \$ Vet. Adm.: Face amount § do	8,087.07 5,428.27			2,447.06 1,189.71	1,637.70 1,910.77	3,427.90 1,541.01	2,464.19 1,223.94	2,174.87 2,193.18	3,933.79 2,091.70	2,190.42 1,934.18	2,674.40 1,598.29	1,580.28 1,447.58	1,169.61 1,543.78	1,516.84 1,449.02	2,431.43 1,201.61	1,184.7 1,113.5
Federal Home Loan Banks, outstanding advances to member institutions, end of period mil. \$	66,004	58,953	60,024	59,371	58,628	58,800	58,264	57,377	57,862	58,560	57,712	58,953	57, 39 7	57,171	57, 6 08	59,42
New mortgage loans of all savings and loan associations, estimated total mil. \$ By purpose of loan:	54,298	135,290	10,104	10,475	10,997	14,186	12,854	13,992	13,637	11,070	11,175	14,483	10,249	'10, 36 7	13,404	
Home construction do Home purchase do All other purposes do	11,765 21,779 20,754	26,096 53,982 55,212	2,169 3,447 4,488	2,273 3,839 4,363	2,252 4,438 4,307	2,605 5,783 5,798	2,302 5,512 5,040	2,481 6,327 5,184	2,437 5,648 5,552	2,155 4,810 4,105	2,162 4,516 4,497	2,760 5,229 6,494	1,788 3,953 4,508	"1,904 "3,702 "4,761	2,394 5,036 5,974	
				DOM	ESTI	C TR	ADE	Im	L		I					L
ADVERTISING																
Magazine advertising (Publishers Advertising Report, Inc.):																
Cost, total mil. \$ Apparel and accessories	3,428.9 155.7	206.2	320.6 20.4	330.9 17.3	374.7 15.7	295.5 9.0	249.3 8.9	250.0 20.0	347.6 32.6	448.9 24.2	447.0 22.0	368.2 16.9	265.2 7.4	325.1 17.4	374.2 26.1	
Automotive, incl. accessories do Building materials do	333.5 52.2	404.5 52.3	35.8 3.7	36.2 5.0	45.6 7.0	34.6 2.5	24.5 3.4	22.6 2.9	19.6 8.0	47.7 4.4	46.5 4.3	40.1 2.1	33.0 3.3	34.9 2.6	41.1 5.1	
Drugs and toiletries	330.6 263.8	383.6 292.3	31.6 23.9	36.2 20.7	39.5 24.9	30.8 21.6	27.3 23.2	28.6 18.2	37.1 22.7	38.5 34.6	37.3 38.5	29.4 26.2	27.7 18.4	34.1 23.7	35.7 26.2	
Beer, wine, liquors do	257.6	242.6	19.6	19.6	20.5	21.5	14.6	13.0	17.3	25.6	30.0	37.2	8.6	13.6	16.4	
Houshold equip., supplies, furnishings do Industrial materials do	147.4 50.9	175.7 43.7	12.2 3.1	17.2 3.3	19.6 4.4	11.5 2.9	10.6 2.5	7.2 2.7	18.2 4.5	22.0 5.7	24.9 6.0	16.3 4.3	7.8 2.5	8.0 3.4	13.9 3.2	
Soaps, cleansers, etc	26.6 358.6	25.3	1.9 34.9	2.6 36.0	2.6 38.2	1.5 36.4	1.1 35.3	2.1 29.9	2.1 28.0	3.6 33.3	2.8 31.9	1.7 31.2	2.1 32.0	1.7 25.3	3.6 33.7	
All other do	1,452.0		133.5	136.8	156.3	121.6	98.0	103.0	157.4	209.4	202.8	163.1	122.4	160.4	167.3	
Newspaper advertising expenditures (Newspaper Advertising Bureau, Inc.):		[[
Total * mil. \$	17,694	20,582	1,668	1,584	1,825	1,742	1,612	1,686	1,690	2,074	2,016	1,872	1,589			
Classified do National do	4,852 2,452	6,006 2,734	473 235	472 226	532 255	522 228	540 192	539 194	515 220	625 282	516 273	440 206	539 224			
Retail do	10,390	11,841	961	886	1,038	992	880	954	956	1,166	1,227	1,226	825			
WHOLESALE TRADE †																
Merchant wholesalers sales (unadj.), total mil. \$ Durable goods establishments do Nondurable goods establishments do	1,137,175 467,107 670,068	504,810	100,445 41,781 58,664	90,803 38,479 52,324	98,304 40,870 57,434	103,032 44,858 58,174	94,672 40,811 53,861	103,062 44,809 58,253	102,862 44,754 58,108	106,051 46,300 59,751	105,762 45,620 60,142	107,361 45,621 61,740	104,313 43,165 61,148	*103,183 *44,848 *58,335	114,993 50,185 64,808	
Merchant wholesalers inventories, book value, end of year or month (unadj.), total mil. \$	116,765	119,421	115,695	115,115	112,624	112,130	112,019	112,420	114,993	117,778	118,566	119,421	119,818	¹ 121,319	122,070	
Durable goods establishments	75,633	75,432 43,989	74,178 41,517	74,048 41,067	73,228 39,396	73,371 38,759	73,339	73,368	74,769 40,224	74,582 43,196	74,417	75,432 43,989	75,185 44,633	76,295 45,024	77,476 44,594	
RETAIL TRADE \$	41,102		-1,017	41,007	03,030	30,103	00,000	00,002	-0,224	40,100	11,140	40,000	44,000	40,024	44,004	
All retail stores: Estimated sales (unadj.), total mil. \$			93,740	93,856	97,831	100,605	99,444	100,131	97,926	100,658	103,865	125,759	93,089	'93,686	•103,796	¹ 103,251
Durable goods stores # do Building materials, hardware, garden supply,	324,489		31,307	30,826	33,201	35,568	33,387	33,587	32,769	33,593	34,002	38,188	31,170	'32,931	r36,308	
and mobile home dealers mil. \$ Automotive dealers do Furniture, home furn., and equip do	51,301 182,607 46,106	59,873 221,687 51,774	4,319 19,298 4,010	4,823 18,454 3,912	5,721 19,644 3,953	5,999 21,293 4,153	5,591 19,621 4,279	5,660 19,207 4,544	5,446 18,659 4,342	5,557 19,219 4,428	5,103 19,036 4,899	4,863 18,910 6,207	4,141 18,792 4,279	r4,329 r20,607 r4,129	"5,000 "22,666 "4,529	¹ 5,618 ¹ 22,460 ¹ 4,312
Nondurable goods stores do General merch. group stores do	750,072 132,581	788,825 142,997	62,433 10,342	63,030 10,591	64,630 11,297	65,037 11,263	66,057 10,665	66,544 11,521	65,157 11,199	67,065 12,063	69,863 14,755	87,571 23,492	61,919 8,853	"60,755 "9,150	'67,488 '11,180	¹ 66,621 11,746
Food stores	249,257 103,547	259,441 103,121	21,162 7,983	21,392 8,227	21,505 8,768	21,868 9,013	23,049 9,368	21,921 9,356	21,878 8,839	21,780 8,836	21,501 8,569	23,492 24,304 8,917	8,833 21,110 8,340	*20,845 *7,948	"22,920 "8,521	¹ 21,67 ¹ 8,632
Apparel and accessory stores do Eating and drinking places do Drug and proprietary stores do	51,387 104,715 35,967	54,005 115,710 38,766	4,118 9,363 3,187	4,266 9,582 3,094	4,264 9,898 3,147	4,178 10,070 3,164	4,043 10,520 3,126	4,555 10,420 3,201	4,312 9,941 3,134	4,617 10,113 3,168	5,169 9,494 3,251	7,910 9,724 4,428	3,765 9,210 3,249	r3,630 r9,232 r3,231	"4,410 "10,129 "3,411	14,847 19,890 13,444
Liquor stores do Estimated sales (seas. adj.), total	19,394	19,690	1,486 93,804	1,530 95,125	1,555 97,239	1,608 98,638	1,703 98,832	1,656 98,277	1,611 99,537	1,603 100,923	1,689 101,896	2,470 102,438	1,481 106,602	1,404 ⁻¹ 105,482	1,554 *103,377	¹ 106,38
Durable goods stores # do			29,986	30,671	31,705	32,790	32,597	31,951	32,905	33,882	34,641	35,532	37,127	¹ 36,909	134,945	¹ 36,75
Building materials, hardware, garden supply, and mobile home dealers # mil. \$ Building materials and supply stores do			4,673 3,396	4,798 3,486	5,032 3,582	5,131 3,656	5,117 3,688	5,094 3,676	5,042 3,638	5,102 3,681	5,188 3,751	5,293 3,826	5,494 4,042	"5,630 "4,215	¹ 5,447 4,051	15,554
Hardware stores do Automotive dealers do			765 17,169	767 17,689	808 18,350	816 19,236	825 18,901	812 18,053	809 18,857	805 19,620	826 20,286	843 21,164	874 22,033	*830 *21,983	806 r20,383	¹ 21,69
Motor vehicle and miscellaneous auto dealers do			15,475	16,013	16,590	17,455	17,092	16,237	17,034	17,780	18,388	19,201	20,041	"20,060	r18,544	¹ 19,81
Auto and home supply stores do			1,694	1,676	1,760	1,781	1,809	1,816	1,823	1,840	1,898	1,963	1,992	r1,923	1,839	
Furniture, home furn., and equip. # do Furniture, home furnishings stores do Household appliance, radio, TV do			4,078 2,432 1,334	4,143 2,427 1,382	4,201 2,464 1,414	4,224 2,477 1,420	4,340 2,548 1,465	4,408 2,621 1,454	4,413 2,638 1,444	4,476 2,715 1,444	4,510 2,684 1,500	4,629 2,737 1,557	4,791 2,829 1,622	"4,644 "2,707 "1,592	*4,595 2,681 1,569	¹ 4,759

SURVEY OF CURRENT BUSINESS

May 1984						ILL'IN .	BUS									
Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as	1982	1983					19	83						19	84	
shown in BUSINESS STATISTICS: 1982	Anr	ual	Mar.	Apr.	May	June	July	Aụg.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
		Ľ	OME	ESTIC	TRA	DE-	-Cont	tinue	d							
RETAIL TRADE ‡—Continued						<										
All retail storesContinued Estimated sales (seas. adj.)Continued										1						
Nondurable goods stores mil. \$ General merch. group stores do			63,818 11,400	64,454 11,415	65,534 11,694	65,848 11,871	66,235 11,845	66,326 11.878	66,632 12,001	67,041 12,112	67,255 12,317	66,906 12,330	69,475 12,835		*68,432 *12,379	169,63 12,81
Department stores		·····	9,328 749	9,313 751	9,542 765	9,721 762	9,666 784	9,709 774		9,893 778	12,317 10,026 804	12,350	12,635		12,379 10,164 808	¹ 10,54
Food stores do			21,215	21,326	21,572	21,673	21,915	21,819	21,943	21,992	21,978	21,754	22,468	122,266	122.381	122,64
Grocery stores do Gasoline service stations do		·····	19,945 8,230	20,069 8,395	20,287 8,690	20,402 8,675	20,618 8,739	20,505 8,851	20,611 8,760	20,669 8,731	20,642 8,673	20,410 8,759	21,189 8,751	'8,66 7	'21,011 '8,775	¹ 21,30 ¹ 8,88
Apparel and accessory stores #do Men's and boys' clothingdo Women's clothing, spec. stores, furriers do Shoe storesdo			4,285 660 1,698 740	4,447 687 1,719 767	4,560 706 1,770 775	4,546 685 1,747 781	4,467 680 1,726 769	4,430 657 1,706 768	4,451 659 1,734 783	4,570 679 1,831 788	4,676 696 1,895 793	4,665 685 1,888 788	4,704 698 1,901 814	"4,747 "678 "1,955 "807	*4,793 711 1,945 797	¹ 4,98
Eating and drinking placesdo Drug and proprietary storesdo Liquor storesdo			9,448 3,190 1,594	9,468 3,183 1,604	9,536 3,185 1,608	9,581 3,209 1,621	9,723 3,253 1,633	9,729 3,273 1,646		9,924 3,297 1,661	9,983 3,311 1,682	9,714 3,258 1,699	10,268 3,434 1,689	10,281 3,405	'10,079 '3,428 1,634	19,93 13,55
Estimated inventories, end of year or month: Book value (unadjusted), total	122,163 56,176	132,302 62,820	126,128 58,213	126,613 58,201	128,167 59,440	128,908 59,876	128,360 58,546	129,869 57,998	134,195 59,604	140,005 61,577	143,866 63,968	132,302 62,820	r138,355 r66,220	132,916 63,218	·····	
Building materials, hardware, garden supply, and mobile home dealers do Automotive dealers do Furniture, home furn., and equip do	9,470 25,458 9,297	10,327 29,643 10,132	10,372 26,221 9,717	10,381 26,328 9,662	10,436 26,903 9,772	10,444 27,014 9,918	10,272 25,776 9,864	10,375 24,741 10,114	10,394 25,781 10,249	10,288 27,130 10,442	10,279 28,810 10,713	10,327 29,643 10,132	"11,000 "32,204 "10,210	30,200		
Nondurable goods stores # do	65,987	69,482	67,915	68,412	68,727	69,032	69,814	71,871	74,591	78,428	79,898	69,482	r72,135	69.698		
General merch. group stores do Department stores do Food stores do	22,561 16,747 14,350	24,467 18,290 14,501	24,747 18,347 13,965	25,427 18,944 13 922	25,677 19,127 13,983	25,577 18,994 14,081	26,072 19,243 13,987	27,175 20,077 13,988	28,636 21,176 14,333	30,664 22,752 14,770	61,552 23,685 15,079	24,467 18,290 14,501	"26,432 "19,831 "14,287	24,609 18,437 14,293	·····	·
Apparel and accessory stores do	10,555	10,715	10,746	13,922 10,778	10,512	10,597	10,789	11,319	11, 9 31	12,562	12,525	10,715	*11,366	10,744		
Book value (seas. adj.), total do Durable goods stores # do Building materials, hardware, garden	125,384 56,748	135,843 63,447	12 6,99 8 57,775	127,613 58,057	129,197 58,796	129,782 59,120	129,556 58,614	130,983 59,400	132,142 60,627	132,777 61,048	134,622 62,441	135,843 63,447	"142,764 "66,740	137,977 63,749		
Supply, and mobile home dealers do Automotive dealers do Furniture, home furn., and equip do	9,824 25,181 9,448	10,713 29,350 10,286	10,080 25,707 9,805	10,049 26,223 9,750	10,112 26,221 9,831	10,229 26,100 9,918	10,282 25,496 9,984	10,396 26,126 10,084	10,542 27,166 10,098	10,424 27,979 10,031	10,425 28,810 10,281	10,713 29,350 10,286	"11,033 "32,076 "10,429	10,800 29,695 10,337	·	·····
Nondurable goods stores # do General merch. group stores do	68,636 24,906	72,396 27,060	69,223 25,573	69,556 25,859	70,401 26,285	70,662 26,218	70,942 26,431	71,583 26,776	71,515 26,659	71,729 26,641	72,181 27,237	72,396 27,060	r76,024 r28,943	74,228 27,605		
Department stores do Food stores do Apparel and accessory stores do	18,403 14,180 11,029	20,143 14,329 11,208	18,934 13,909 10,965	19,155 13,950 11,032	19,497 14,110 10,916	19,521 14,166 11,039	19,676 14,258 10,998	19,977 14,347 11,032	19,846 14,449 11,140	19,767 14,396 11,307	20,244 14,416 11,233	20,143 14,329 11,208	"21,745 "14,416 "12,079	20,623 14,466 11,716	·····	
irms with 11 or more stores: Estimated sales (unadjusted), total mil. \$	389,715	415,631	32,536	32,663	33,711	33,799	33,768	34,458	34,006	35,122	38,368	51,970	' 30,849	30,668		
Durable goods stores do Auto and home supply stores	28,212 4,059	32,795 4,416	2,382 345	2,475 361	2,723 371	2,814 393	2,734 394	2,791 407	2,721 379	2,808 395	3,079 396	4,467 414	r2,368 r31,1	2,317 316		
Nondurable goods stores # do General merchandise group stores do	361,503 119,467	382,836 129,045	30,154 9,323	30,188 9,547	30,988 10,213	30,985 10,175	31,034 9,568	31,667 10,411	31,285 10,083	32,314 10,857	35,289 13,366	47,503 21,353	"28,481 "8,262	28,351 7,952		
Food stores do Grocery stores do	135,499 133,587	141,353 139,424	11,704 11,540	$11,720 \\ 11,572$	11,604 11,456	11,705 11,557	12,369 12,220	11,734 11,587	11,883 11,738	11,746 11,595	11,803 11,648	13,571 13,276	'11,440 '11,284	11,584 11,439		
Apparel and accessory stores	20,143 22,138 19,410	22,237 24,354 21,582	1,717 2,030	1,710 2,033 1,696	1,704 2,071	1,689 2,025	1,624 2,134 1,739	1,926 2,140	1,802 2,083 1,733	1,890 2,147 1,747	2,193 2,053 1,844	3,560 2,099 2,717	*1,440 *2,042 *1,772	1,429 1,971	······	
Drug stores and proprietary stores do Estimated sales (sea. adj.), total # do	19,410		1,727 33,599	33,589	1,751 34,440	1,751 34,557	34,646	1,760 34,752	35,032	35,319	35,648	35,456	*36,783	37,047		
Auto and home supply stores do Department stores do Variety stores			354 8,903	347 8,912	363 9,139	361 9,308	372 9,243	387 9,287	376 9,347	378 9,467	382 9,589		'386 '10,075	10,099		
Grocery stores			595 11,483	591 11,446	605 11,678	600 11,627	608 11,716	605 11,704	605 11,738	609 11,772	11,874	614 11,544	⁷ 651 12,043	650 12,143	••••••	
Apparel and accessory stores	·····		1,760 767 377	1,773 746	1,811 761	1,849 783	1,832 775	1,815 762	1,854 783	1,880 805	1,935 837	1,996 895	"2,035 "901 "427	2,050 907 436	••••••	
Shoe stores do Drug stores and proprietary stores do			1,743	388 1,765	392 1,772	401 1,789	395 1,813	395 1,824	403 1,863	412 1,866	414 1,893	413 1,813	1,924	1,930		
,	LAB	OR FC	RCE	, EMI	PLOY	MEN	T, A	ND E	ARN	INGS						
LABOR FORCE AND POPULATION Not Seasonally Adjusted																
otal noninstitutional population, persons 16 years of age and over *thous	173,939	175,891	175.320	175.465	175.622	175.793	175,970	176.122	176.297	176,474	176.636	176,809	177.219	177,363	177.510	177.66
Labor force, total @	111,872 1,668	113,226 1,676	111,537 1,664	175,465 111,546 1,671	111,977 1,669	115,051 1,668	115,644 1,664	115,260 1,682	113,892	113,737 1,695	113,832 1,685	113,483 1,688	112,711 1,686	113,052 1,684	113,514 1,686	113,84 1,69
Xivilian noninstitutional population *	172,271 110,204	174,215	173,656 109,873	173,794	173,953		174,306	174.440	174.602	174,779 112,042	174,951	175,121 111,795	175,533		175,824 111,828	'175,90 112,15
Employed do	99,526 10,678	100,834 10,717	97,994 11,879	98,840 11,035	99,543 10,765	101,813 11,570	103,273	103,167 10,411		102,659 9,383	103,018 9,129			101,961		
Seasonally Adjusted ◊											·					
Civilian labor force, total do Participation rate † percent	 64.0	64.0	110,735 63.8	63.9	63.8	111,905 64.3	64.2	64.3	64.3	111,866 64.0	64.0	64.0	63.9	112,693 64.1	112,912 64.2	64
Employed, totalthous Employment-population ratio † percent	 57.8 3.401	 57.9 3,383	99,316 57.2 3,386	99,606 57.3 3,392	99,762 57.3 3,374	100,743 57.9 3,479	101,225 58.1 3,499	101,484 58.2 3,449	101,876 58.3 3,308	101,970 58.3 3,240	102,606 58.6 3,257	102,941 58.8 3,356	103,190 58.8 3,271	103,892 59.1 3,395	104,140 59.2 3,281	104,40 59 3,39
Agriculture	3,401 96,125	3,383 97,450	95,930	96,214	96, 388	97,264	97,726	98,035	98,568	9 8,730	99,349	99,585	99,918	100,496	100,859	101,00
Unemployed, total do Long term, 15 weeks and over do	3,485	4,210	11,419 4,587	11,369 4,396	11,188 4,510	11,162 4,486	10,600 4,398	10,633 4,078		9,896 3,655	9,42 9 3,527	9,195 3,369	9,026 3,201	8,801 2,984	8,772 2,873	8,84 2,85

See footnotes at end of tables.

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May	1984
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Inless otherwise stated in footnotes below, data hrough 1982 and methodological notes are as	1982	1983					198	33						19	84	
hown in BUSINESS STATISTICS: 1982	Ann	ual	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
LABO	OR FO	RCE,	EMP	LOYN	MENT	г , а N	D EA	RNI	NGS-	-Cont	tinue	d				
LABOR FORCE—Continued																[
Seasonally Adjusted Civilian labor force—Continued																l
Unemployed—Continued Rates (unemployed in each group as percent																
of civilian labor force in the group): § All civilian workers	9.7	9.6	10.3	10.2	10.1	10.0	9.5	9.5	9.2	8.8	8.4	8.2	8.0	7.8	7.8	7
Men, 20 years and over Women, 20 years and over	8.8 8.3	8.9 8.1	9.6 8.8	9.7 8.5	9.5 8.5	9.1 8.6	8.8 7.9 22.7	8.7 8.0	8.6 7.8	8.2 7.5	7.8 7.2	7.4 7.1	7.3 7.1	7.0 6.9	6.8 6.9	7
Both sexes, 16-19 years	23.2	22.4	23.6	23.4	23.0	23.6		22.8	21.8	21.6	20.2	20.1	19.4	19.3	19.9	
White Black *	8.6 18.9	8.4 19.5	9.1 20.1	8.9 20.7	8.8 20.3	8.6 20.3	8.2 19.6	8.2 19.8	8.0 18.9	7.7 18.3	7.3 17.7	7.1 17.8	6.9 16.7	6.7 16.2	6.7 16.6	16
Hispanic origin * Married men, spouse present	13.8 6.5	13.8 6.5	15.7 7.1	14.6 7.1	13.9 7.0	14.0 6.7	12.3 6.2	12.9 6.3	13.1 6.1	12.4 5.7	12.3 5.5	11.6 5.2	11.2 5.0	10.2 4.9	11.3 4.7	
Married women, spouse present Women who maintain families	7.4	7.0 12.2	7.5 13.3	7.4 13.0	7.4 12.7	7.6 12.5	7.0 11.8	6.9 11.8	6.8 12.0	6.3 11.4	6.0 10.5	6.1 10.9	6.0 10.7	5.9 11.0	5.8 11.0	
Industry of last job: Private nonagricultural wage and											2010	1 2010				
salary workers	10.1 20.0	9.9 18.4	10.7 20.2	10.5 20.0	10.4 20.0	10.1 18.4	9.7 18.0	9.8 17.9	9.4 18.1	9.0 15.8	8.6 15.6	8.3 16.3	7.9 15.0	7.8 15.1	7.6 13.3	
Construction Manufacturing	12.3	11.2	12.8	12.5	12.3	11.6	10.7	11.2	10.2	9.6	8.9	8.3	8.4	7.5	7.5	7
Durable goods Agricultural wage and salary workers *	13.3 14.7	12.1 16.0	14.3 15.9	13.7 16.8	13.5 16.8	12.5 16.5	11.4 15.0	11.7 15.1	10.9 16.5	10.2 16.2	9.0 15.7	8.3 15.6	8.0 15.5	7.3 14.0	7.8 14.6	7 12
Not Seasonally Adjusted																
Occupation: * Managerial and professional specialty	3.3	3.3	3.5	3.4	3.3	3.5	3.6	3.4	3.2	2.7	2.7	2.6	3.0	2.7	2.4	2
Technical, sales, and administrative support	6.1	6.3		6.3	6.4	6.8	6.3	6.4	5.9	5.9	5.5	5.2 9.6	5.7	5.6	5.2	
Service occupations Precision production, craft, and repair	10.8 10.6	10.9 10.7	11.7 13.7	11.3 12.3	11.4 11.1	11.4 10.7	10.5 9.4	10.3 9.3	10.8 8.9	11.1 8.2	9.9 7.9	9.6 8.4	9.9 10.0	9.5 10.0	9.6 9.1	
Operators, fabricators, and laborers Farming, forestry, and fishing	16.7 8.5	15.5 10.0	18.8	17.0 10.1	16.1 7.9	14.5 6.2	14.1 7.4	13.8 8.3		12.6 9.2	12.7 10.8	13.0 12.0	13.9 13.6	13.7 11.5	12.8 11.2	
EMPLOYMENT		10.0		1011		0.2		0.0			2010					
Employees on payrolls of nonagricultural estab.																
Total, not adjusted for seasonal variationthous Private sector (excl. government) do	89,596 73,793	89,978 74,234	88,172 72,121	89,005 72,984	89,830 73,774	90,654 74,795	89,946 74,933	89,612 74,745	91,213 75,738	91,722 75,865	92,061 76,057	92,247 76,270	90,635 74,889	"91,140 "75,121	¹ 91,803 175,720	₽92,80 ₽76,74
Seasonally Adjusted		1	· _			ŗ										
fotal employees, nonagricultural payrolls do	89,596	89,978	88,814	89,090	89,421	89,844	90,152	89,748 74,074	90,851	91,084	91,355	91,599 75 990	91,930	192,357	¹ 92,506	P92,91
Private sector (excl. government) do Nonmanufacturing industries do	73,793 54,940	74,234 55,556	73,090 54,823	73,377 55,001	73,677 55,184	74,123 55,541	71,419 55,739	55,281	74,990 56,119	75,312 56,248	75,579 56,407	75,829 56,549	76,188 56,799	176,584 157,085	'76,750 '57,190	P57,49
Goods-producing do Mining do	23,907 1,143	23,646 1,021	1.006	23,159 997	23,347 994	23,518 1,003	23,724 1,017	23,830 1,023	23,935 1,026	24,168 1,044	24,311 1,045	24,415 1,047	24,617 1,051	"24,784 "1,052	^r 24,783 1,053	P1,00
Construction do	3,911	3,947	3,757	3,786	3,860	3,933	3,974	4,014	4,038	4,060	4,094	4,088	4,177	r4,233	'4,170	
Manufacturing do Durable goods do	18,853 11,100	18,678 10,932	18,267 10,617	18,376 10,689	18,493 10,788	18,582 10,844	18,733 10,961	18,793 11,022	18,871 11,081 703	19,064 11,235	$19,172 \\ 11,320$	19,280 11,406	19,389 11,477	'19,499 '11,572	'19,560 '11,621	P11,68
Lumber and wood products do Furniture and fixtures do	603 433	676 450	638 433	651 440	662 446	679 450	688 459	699 457	459	712 465	714 _470	715 473	717 477	719 ¹ 483	¹ 726 1486	P7:
Stone, clay and glass products do Primary metal industries do	577 922	574 838	559 816	565 820	570 828	573 830	577 839	582 840	585 849	590 867	590 871	589 881	593 872	602 878	5603 876	P6
Fabricated metal products do Machinery, except electrical do	1,434 2,266	1,396 2,088	1,362 2,030	1,369 2,031	1,379 2,064	1,384 2,066	1,391 2,094	1,410 2,109	1,411	$1,430 \\ 2,131$	$1,438 \\ 2,158$	1,449 2,172	1,458 2,187	1,464 2,203	r1,471 r2,216	P1,4
Electric and electronic equipment do Transportation equipment do	2,015 1,744	2,044 1,785	1,988 1,723	1,999 1,743	2,010 1,757	2,030 1,762	2,047 1,794	2,043 1,807		2,107 1,848	2,128 1,862	2,146 1,887	2,165	r2,191 r1,928	r2,211 r1,925	P2,2
Instruments and related products do Miscellaneous manufacturing	715	693 382	691 377	690 381	689 383	687 383	687 385	692 383	696	699 386	701	701	706	707	710 397	P7
Nondurable goods do	7,753	7,747	7,650	581 7,687	383 7,705	383 7,738	365 7,772	7,771	7,790	7,829	300 7,852	- 393 7,874	7,912	397 57,927	- 397 - 7,939	P7.9
Food and kindred products	1,638 67	1,630 64		1,633 66	1,632 66	1,643 65	1,638 65	1,627	1,630	1,628	1,633	1,632	1,642	1,639 61		P1,6
Textile mill products do Apparel and other textile products do	750 1,163	743 1,169	730	733 1,149	736 1,153	745 1,159	746 1,180	62 752 1,175	63 753 1,177	64 759 1,191	61 758 1,199	62 759 1,206	61 766 1,210	764 1.213	766 1,217	
Paper and allied products do	662 1,268	658 1,282	652 1,269	654 1,274	656 1,276	657 1,281	658 1,284	659 1,289	662 1,290	665 1,297	666 1,301	670 1,303	671 1,310	674	*673	P6
Paper and allied products	1,079	1,058	1,056	1,058	1,058	1,056	1,059	1,056	1,060	1,061	1,061	1,064	1,065	1,313 1,065	1,317 1,065	P1,00
Petroleum and coal products do Rubber and plastics products, nec do	201 700	196 726	199 699	199 707	198 716	198 721	197 732	195 739	195 742	193 753	193 762	192 769	192 777	*192 *788	r191 r795	P19 P79
Leather and leather products do	221 65,689	215 66,332	216 65,784	214 65,931	214 66,074	213 66.326	213 66,428	217 65,918	218 66 016	218 66,916	218 67,044	217	218 67,313	218 *67,573	216	P21
Service-producing do Transportation and public utilities	5,081	4,941	4,963	4,988	4,993	4,992	4,984	4,341	5,031	5,019	5,019	67,184 5,015	5,057	5,063	*67,723 *5,073	₽5,08
Wholesale trade do Retail trade do	5,280 15,122	5,232 15,281	5,176 15,174	5,180 15,149	5,197 15,159	5,222 15,272	5,229 15,300	5,249 15,331	5,274 15,338	5,287 15,379	5,291 15,427	5,313 15,468	5,343 15,517	'5,363 '15,555	'5,382 '15,593	₽5,39 ₽15,59
Finance, insurance, and real estate do Services	5,340 19,064	5,454 19,680	5,391 19,356	5,423 19,478	5,435 19,546	5,451 19,668	5,465 19,770	5,488 19,835	5,499 19,913	5,503 19,956	5,515 20,016	5,525 20,093	5,553 20,101	'5,570 '20,249	"5,580 "20,339	°5,59 °20,5
Government do Federal do	15,803 2,739	15,744 2,752	15,724 2,742	15,713 2,738	15,744 2,756	15,721 2,742	15,680 2,738	15,674 2,746	15,861 2,778	15,772 2,761	15,776 2,763	15,770 2,768	15,742 2,762	'15,773 2,760	'15,756 2,761	P15,7
State * do Local * do	3,632 9,432	3,635 9,355	3,626 9,356	3,633 9,342	3,622 9,366	3,623 9,356	3,633 9,309	3,643 9,285	3,648 9,435	3,646 9,365	3,646 9,367	3,646 9,356	3,642 9,337	"3,667 "9,346	r3,665 r9,330	₽3,60 ₽9,32
roduction or nonsupervisory workers on private	50 500	F0.00F	FT 000			60 170	00 550	00.001						40 7 10		
nonagric. payrolls, not seas. adjusted thous Manufacturing	59,566 12,790	59,925 12,696	57,989 12,241	58,800 12,369	59,551 12,523	60,472 12,720	60,576 12,646	60,331 12,873	61,318 13,125	61,418 13,190	61,577 13,218	61,760 13,180	60,376 13,122	60,548 13,241	'61,074 '13,366	P61,90
Seasonally Adjusted																
Production or nonsupervisory workers on private nonagricultural payrollsthous	59,566	59.925	58,889	59,150	59,462	59,871	60,182	59,751	60,607	60,886	61,118	61,323	61,610	'61,927	¹ 62,036	₽62,2
Goods-producing do	16,589 831	16,453 722	15,881 707	16,016 701	16,183 699	16,349 710	16,538 721	16,626 724		16,926 741	17,060	17,140	17,316	'17,452	r17,426	P17,59
Mining do Construction do	3,004	3,035	2,851	2,880	2,953	3,024	3,061	3,099	3,118	3,142	742 3,171	745 3,165	750 3,244	749 73,301	749 *3,226	₽3,28
Manufacturing do Durable goods do	12,790 7,350	12,696 7,246	6,961	12,435 7,035	12,531 7,115	12,615 7,169	12,756 7,278	12,803 7,329	12,859 7,378	13,043 7,522	13,147 7,601	13,230 7,665	13,322 7,725	'13,402 '7,801	'13,451 '7,838	°13,5 °7,8
Lumber and wood products do Furniture and fixtures do	493 342	564 358	529 342	540 349	550 354	566 357	575 365	584 364	588 365	597 371	600 376	601 378	602 382	603 *387	r611 r390	96 P3
Stone, clay, and glass products do Primary metal industries	437 683	438 625	423 601	429 608	434 615	436 616	440 625	446 629		453 653	454 660	452 668	454 660	*464 *667	463 1667	P4
Fabricated metal products do	1,033	1,012 1,223	982 1,171	987 1,175	996 1,201	1,003 1,204	1,009 1,227	1,023 1,241	1,025 1,247	1,044 1,262	1,049 1,287	1,060 1,297	1,069 1,312	1,074 1,327	1,080 °1,080	P1,0
Machinery excent electrical do					1.401	1.4041	1,441	1,441	1 1.44()	1,404	1.40/	1,471	1,012	-1.04/	046,1 1	1 1,3
Machinery, except electrical do Electric and electronic equipment do Transportation equipment do	1,368 1,216 1,085	1,239 1,121	1,193 1,066	1,204 1,085	1,213 1,093	1,226 1,103	1,242 1,134	1,238 1,141	1,270 1,134	1,292 1,176	1,310 1,188	1,319 1,211	1,333 1,231	1,350 1,244	1,366 1,236	P1,3

SURVEY OF CURRENT BUSINESS

May 1984		SU	JRVE	YOF	CUR	RENI	BOS	SINES	<u>s</u>							<u>S-11</u>
Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as	1982	1983					19	33						19	84	
shown in BUSINESS STATISTICS: 1982	Ann	ual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
LAB	OR FO	RCE,	EMP	LOYI	MENT	r, an	D EA	RNI	NGS-	-Con	tinue	d				
EMPLOYMENT—Continued Seasonally Adjusted														-		
Production or nonsupervisory workers—Continued Nondurable goods	5,440 1,126 52 642 983 493 698 601 120 536 185	5,450 1,123 49 641 989 492 705 588 118 562 180	5,362 1,114 52 627 965 486 694 585 122 538 179	5,400 1,126 51 631 972 488 699 587 122 546 178	5,416 1,126 51 634 976 491 701 585 120 554 178	5,446 1,136 50 643 980 491 705 586 119 558 178	5,478 1,133 50 643 999 494 705 589 119 568 178	5,474 1,120 47 650 994 492 708 588 118 575 182	5,481 1,120 48 650 995 495 708 589 117 576 183	5,521 1,120 49 655 1,009 498 714 591 116 586 183	5,546 1,127 46 656 1,016 499 719 592 115 593 183	5,565 1,126 48 658 1,022 503 719 594 114 599 182	5,597 1,138 46 664 1,027 504 723 595 112 605 183	^{15,601} 1,131 46 1662 1,029 506 723 596 113 613 182		P5,652 P1,149 P663 P1,039 P507 P732 P597 P115 P621 P180
Service-producingdo Transportation and public utilitiesdo Wholesale tradedo Retail tradedo Finance, insurance, and real estatedo Servicesdo AVERAGE HOURS PER WEEK	42,940 4,194 4,268 13,559 3,994 16,926	43,472 4,059 4,209 13,711 4,063 17,430	43,008 4,086 4,156 13,620 4,012 17,134	43,134 4,106 4,165 13,589 4,037 17,237	43,279 4,111 4,182 13,615 4,049 17,322	43,522 4,110 4,203 13,707 4,065 17,437	43,644 4,103 4,207 13,751 4,071 17,512	43,125 3,461 4,225 13,775 4,090 17,574	43,902 4,143 4,250 13,768 4,095 17,646	43,960 4,135 4,256 13,796 4,099 17,674	44,058 4,129 4,259 13,837 4,108 17,725	44,183 4,130 4,274 13,867 4,118 17,794	44,294 4,162 4,302 13,898 4,133 17,799	44,475 '4,159 '4,313 '13,932 '4,142 '17,929	^r 44,610 4,168 ^r 4,326 ^r 13,962 ^r 4,154 ^r 18,000	P44,683 P4,184 P4,348 P13,949 P4,170 P18,032
Seasonally Adjusted Avg. weekly hours per worker on private nonagric. payrolls: \diamond Not seasonally adjusted hours Seasonally adjusted	34.8	35.0	34.7 34.8	34.7 34.9	34.9 35.1	35.2 35.1	35.4 35.0	35.4 35.0	35.3 35.2	35.3 35.3	35.1 35.2	35.5 35.3	35.0 35.5	35.1 35.4	r35.1 35.2	₽35.4 ₽35.6
Mining ‡	42.6 36.7 38.9	42.5 37.1 40.1	41.8 36.4 39.6	41.6 36.7 39.8	42.2 37.4 39.9	42.5 37.9 40.3	42.1 38.2 40.0	42.7 38.0 40.2	43.1 37.9 40.8	43.2 37.3 40.7	42.9 36.3 40.8	43.5 36.8 41.2	43.4 36.3 40.6	*43.0 37.0 40.7	*42.8 *36.7 *40.7	₽42.8 ₽37.7 ₽40.9
Seasonally adjusted dodo Overtime hours do Durable goods	2.3 39.3	3.0 40.7	39.5 2.6 39.9	40.1 2.9 40.5	40.0 2.7 40.4	40.1 2.9 40.6	40.2 3.0 40.8	40.3 3.1 40.8	40.8 3.3 41.5	40.6 3.3 41.2	40.6 3.3 41.2	40.5 3.4 41.1	41.0 3.5 41.8	41.0 3.6 41.7	"40.6 3.4 "41.2	₽41.2 ₽3.7 ₽41.9
Overtime hours do Lumber and wood products do Furniture and fixtures do Stone, clay, and glass products do Primary metal industries do Fabricated metal products do Machinery, except electrical do Electric and electronic equipment do Transportation equipment do Instruments and related products do Miscellaneous manufacturing ‡ do	2.2 38.0 37.2 40.0 38.6 39.2 39.7 39.3 40.5 39.8 38.5	3.0 40.0 39.4 41.4 40.5 40.6 40.5 40.5 42.1 40.4 39.1	2.5 39.5 38.3 40.6 39.4 39.7 39.7 39.8 41.7 40.0 39.0	2.8 40.0 39.3 41.0 39.9 40.5 40.2 40.2 40.4 42.3 40.5 39.0	$\begin{array}{c} 2.6\\ 39.8\\ 39.2\\ 41.2\\ 40.3\\ 40.4\\ 40.0\\ 40.3\\ 41.6\\ 40.4\\ 38.8\\ \end{array}$	2.8 40.0 39.6 41.6 40.3 40.5 40.5 40.5 41.9 40.5 41.9 40.1 38.9	3.0 39.9 39.7 41.7 40.8 40.7 40.7 40.8 42.0 40.7 38.8	3.1 40.2 39.7 41.7 40.9 40.9 40.9 40.7 41.8 40.4 39.1	$\begin{array}{r} 3.4\\ 40.5\\ 40.0\\ 42.1\\ 41.2\\ 41.6\\ 41.2\\ 41.1\\ 43.5\\ 41.0\\ 39.5\\ \end{array}$	3.4 40.3 39.8 41.7 41.7 41.2 41.3 41.1 42.5 40.7 39.8	3.5 39.7 39.7 41.7 41.6 41.4 41.3 41.1 42.5 40.6 39.9	3.5 39.7 40.1 41.6 41.8 41.4 40.9 41.9 40.7 40.7 40.1	3.7 40.8 40.2 42.3 41.9 41.8 41.8 41.4 43.4 41.4 43.4 41.4 38.9	3.7 40.4 39.7 42.6 42.0 41.9 41.9 41.3 43.2 41.3 39.6	3.6 r39.9 r39.1 r41.7 r41.7 r41.7 r41.7 r41.1 41.5 r40.7 r42.9 r41.0 r39.5	P3.9 P40.5 P40.0 P42.5 P42.0 P41.9 P41.3 P43.6 P43.6 P42.0 P39.9
Nondurable goods	38.4 2.5 39.4 37.8 37.5 34.7	39.4 3.0 39.5 37.4 40.4 36.2	39.0 2.7 39.2 36.3 39.6 35.6	39.5 3.0 39.6 37.3 40.6 36.2	39.4 2.9 39.4 37.4 40.4 36.1	39.6 3.0 39.8 38.5 40.7 36.1	39.5 3.0 39.4 36.8 40.7 35.8	39.5 3.1 39.6 37.7 40.9 36.2	39.9 3.1 39.9 38.4 41.3 36.8	39.7 3.1 39.7 38.3 40.7 36.5	39.7 3.1 39.5 40.2 40.7 36.4	39.7 3.2 39.4 37.8 40.7 36.5	40.0 3.2 39.6 38.1 41.1 37.3	40.0 3.3 39.8 '36.3 40.9 37.1	r39.7 3.2 39.7 r37.0 r40.5 36.6	P40.2 P3.4 P40.2 P38.1 P41.3 P37.2
Paper and allied products do Printing and publishing do Chemicals and allied products. do Petroleum and coal products. do Rubber and plastics products, nec ‡ do Leather and leather products do	41.8 37.1 40.9 43.9 39.6 35.6	42.6 37.6 41.6 43.9 41.2 36.8	42.1 37.4 41.2 44.9 40.6 36.0	42.4 37.7 41.5 43.5 41.1 37.0	42.7 37.4 41.6 43.6 41.1 36.8	42.8 37.6 41.9 43.8 41.3 36.8	42.9 37.7 41.8 43.7 40.9 37.4	42.9 37.5 41.6 43.5 41.2 37.2	43.3 37.8 41.7 43.2 41.9 37.7	43.2 38.0 41.7 43.5 41.9 37.5	43.0 37.9 41.8 43.6 42.0 37.2	43.0 37.6 41.9 44.7 42.5 37.0	43.2 37.9 42.2 45.1 42.0 37.3	43.3 37.9 42.2 44.6 ¹ 42.0 '37.1	r42.8 r37.8 r41.8 r44.3 41.7 r36.5	P43.2 P38.4 P41.9 P42.8 P42.2 P37.6
Transportation and public utilities do Wholesale trade do Retail trade do Finance, insurance, and real estate ‡ do Services do AGGREGATE EMPLOYEE-HOURS A	39.0 38.4 29.9 36.2 32.6	39.0 38.6 29.8 36.2 32.7	38.8 38.4 29.7 36.0 32.7	38.8 38.5 29.6 36.1 32.7	38.9 38.6 29.9 36.3 32.9	38.9 38.7 29.9 36.1 32.7	38.9 38.6 29.8 36.3 32.6	39.3 38.5 29.7 36.1 32.7	39.4 38.7 29.7 36.0 32.8	39.4 38.7 30.0 36.3 32.9	39.2 38.7 30.0 36.1 32.7	39.4 38.7 30.4 36.2 32.6	39.5 38.8 30.1 36.6 32.8	*39.2 38.7 30.0 36.3 32.7	"39.1 "38.6 29.9 "36.3 32.7	P39.3 P39.0 P30.1 P36.6 P32.9
Seasonally Adjusted											j					
Employee-hours, wage & salary workers in non- agric. establish, for 1 week in the month, seas adj. at annual rate bil. hours. Total private sector do. Mining do. Mining do. Manufacturing do. Transportation and public utilities do. Wholesale trade * do. Retail trade * do. Finance, insurance, and real estate do. Government do.	$\begin{array}{c} 165.82\\ 135.17\\ 2.54\\ 7.46\\ 38.26\\ 10.33\\ 10.54\\ 23.51\\ 10.07\\ 32.45\\ 30.65 \end{array}$	167.76 136.82 2.26 7.62 38.79 10.08 10.50 23.68 10.28 33.61 30.95	$\begin{array}{c} 164.53\\ 133.72\\ 2.20\\ 7.09\\ 37.57\\ 10.03\\ 10.33\\ 23.39\\ 10.09\\ 33.02\\ 30.81 \end{array}$	166.19 134.79 2.18 7.26 38.12 10.09 10.36 23.34 10.18 32.25 31.41	$\begin{array}{c} 167.04\\ 136.05\\ 2.21\\ 7.47\\ 38.38\\ 10.11\\ 10.44\\ 23.63\\ 10.29\\ 33.52\\ 30.99 \end{array}$	$\begin{array}{c} 167.49\\ 136.86\\ 2.22\\ 7.63\\ 38.75\\ 10.14\\ 10.50\\ 23.76\\ 10.28\\ 33.60\\ 30.63\end{array}$	$\begin{array}{c} 168.21\\ 137.58\\ 2.23\\ 7.72\\ 39.13\\ 10.18\\ 10.52\\ 23.83\\ 10.31\\ 33.65\\ 30.64 \end{array}$	$\begin{array}{c} 167.89\\ 137.02\\ 2.26\\ 7.81\\ 39.25\\ 9.34\\ 10.55\\ 23.76\\ 10.30\\ 33.75\\ 30.88 \end{array}$	$170.39 \\ 139.02 \\ 2.30 \\ 7.84 \\ 39.72 \\ 10.33 \\ 10.63 \\ 23.78 \\ 10.38 \\ 34.05 \\ 31.38 \\ \end{cases}$	170.53 139.48 2.33 7.73 39.86 10.33 10.63 24.03 10.41 34.18 31.05	169.65 139.40 2.33 7.81 39.98 10.24 10.64 23.96 10.34 34.11 30.25	$171.38\\140.08\\2.34\\7.76\\40.04\\10.31\\10.67\\24.34\\10.40\\34.21\\31.30$	$173.38 \\ 141.87 \\ 2.41 \\ 8.35 \\ 40.82 \\ 10.34 \\ 10.78 \\ 24.22 \\ 10.55 \\ 34.38 \\ 31.50 \\ \end{array}$	*173.75 *142.11 2.38 *8.40 40.97 *10.30 *10.78 *24.19 *10.50 *34.61 31.64	*172.92 *141.80 2.36 *7.93 *40.97 *10.31 *10.80 *24.20 *10.51 *34.72 *31.12	 P175.98 P143.98 P2.38 P8.36 P41.58 P10.42 P10.93 P24.44 P10.67 P35.20 P32.00
Indexes of employee-hours (aggregate weekly): ◊ Private nonagric. payrolls, total	104.4 91.0 132.2 100.0 87.3 84.8 90.9 111.8 102.3 108.9 103.2 116.9 122.1	105.7 92.3 114.4 102.2 89.4 86.5 93.6 113.1 99.0 107.9 104.1 118.8 126.2	103.1 87.8 110.7 94.3 85.4 81.6 91.0 111.6 99.1 106.1 103.0 116.4 123.9	$\begin{array}{c} 104.0\\ 89.6\\ 109.5\\ 96.3\\ 87.4\\ 83.7\\ 92.8\\ 111.9\\ 99.6\\ 106.6\\ 102.4\\ 117.8\\ 124.7\\ \end{array}$	$105.0 \\ 90.5 \\ 110.3 \\ 99.6 \\ 87.8 \\ 84.3 \\ 92.9 \\ 113.0 \\ 99.9 \\ 107.3 \\ 103.7 \\ 119.1 \\ 126.1 \\ 126.1 \\ 105.0 \\ 10$	105.7 91.8 112.5 102.0 88.8 85.4 93.9 113.3 99.9 108.1 104.4 118.9 126.1	106.1 93.0 114.0 103.5 90.0 87.2 94.2 113.4 99.7 107.9 104.3 119.1 126.3	$\begin{array}{c} 105.3\\ 93.5\\ 115.0\\ 104.5\\ 90.4\\ 87.8\\ 94.2\\ 111.8\\ 85.0\\ 108.1\\ 104.2\\ 119.0\\ 127.1 \end{array}$	$107.5 \\ 95.1 \\ 117.0 \\ 106.0 \\ 92.0 \\ 89.8 \\ 95.3 \\ 114.4 \\ 102.0 \\ 109.3 \\ 104.1 \\ 119.5 \\ 128.0 \\ 100.0 \\ $	108.1 95.6 118.5 103.9 92.9 91.1 95.6 115.1 101.8 109.5 105.4 120.2 128.6	108.3 96.3 118.1 105.2 93.5 91.9 95.8 114.9 101.1 109.6 105.7 119.8 128.2	108.9 96.8 118.9 105.6 94.0 92.6 96.1 115.6 101.7 109.9 107.3 120.5 128.3	110.1 99.5 122.2 112.6 95.9 94.7 97.6 116.0 102.7 111.0 106.5 121.9 129.1	110.4 100.1 *120.9 *114.3 96.4 95.6 *97.6 116.1 *101.9 *106.4 *121.5 129.7	*109.9 *98.5 *120.1 107.6 *95.7 *94.8 *96.9 *116.2 *101.8 *111.0 *106.3 *121.5 *130.2	 P111.5 P101.1 P122.0 P112.9 P97.9 P97.2 P98.9 P117.3 P102.8 P112.7 P106.9 P123.3 P131.2

Unless otherwise stated in footnotes below, data	1982	1983					19	83			<u>.</u>			19	84	
through 1982 and methodological notes are as shown in BUSINESS STATISTICS: 1982	Anr	nual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
LABO	OR FC	ORCE,	EMP	LOYN	MENT	r, an	D EA	RNI	NGS-	Con	tinue	d				
HOURLY AND WEEKLY EARNINGS					[
Average hourly earnings per worker: ◇ Not seasonally adjusted: Private nonagric. payrolls	7.67 10.78 11.62 8.50	8.01 11.30 11.91 8.84	7.90 11.19 11.95 8.74	7.94 11.28 11.90 8.77	7.97 11.20 11.80 8.78	7.97 11.25 11.74 8.81	8.00 11.29 11.78 8.86	7.94 11.28 11.84 8.79	8.11 11.35 12.03 8.90	8.15 11.35 12.04 8.92	8.16 11.43 11.89 8.99	8.16 11.44 12.01 9.06	8.26 11.56 12.07 9.09	8.24 *11.51 11.98 9.08	8.24 ^{111.63} 11.97 9.11	P8.2 P11.6 P11.9 P9.1
Excluding overtime do Durable goods do Excluding overtime do Lumber and wood products do Furniture and fixtures do Stone, clay, and glass products do Primary metal industries do Fabricated metal products do	8.25 9.06 8.81 7.46 6.31 8.86 11.33 8.78	8.53 9.40 9.07 7.79 6.62 9.28 11.33 9.14	8.47 9.29 9.02 7.68 6.51 9.13 11.24 9.05	8.48 9.31 9.02 7.74 6.51 9.16 11.25 9.07	8.49 9.34 9.04 7.78 6.52 9.20 11.28 9.08	8.49 9.37 9.04 7.85 6.60 9.28 11.23 9.11	8.54 9.40 9.08 7.82 6.65 9.34 11.37 9.10	8.46 9.34 9.00 7.83 6.67 9.31 11.28 9.12	8.53 9.48 9.09 7.88 6.74 9.43 11.33 9.21	8.56 9.49 9.11 7.87 6.71 9.39 11.28 9.22	8.62 9.56 9.16 7.80 6.72 9.41 11.31 9.27	8.68 9.63 9.21 7.80 6.77 9.41 11.35 9.38	8.73 9.66 9.27 7.88 6.76 9.43 11.37 9.34	8.72 9.66 9.26 "7.89 "6.74 "9.39 "11.49 9.34	8.74 9.68 9.28 ⁷ 7.86 ⁶ .76 ⁹ .41 ^{11.43} 9.34	₽8.7 ₽9.3 ₽7.9 ₽6.7 ₽9.5 ₽11.4 ₽9.3
Machinery, except electricaldo Electric and electronic equipmentdo Transportation equipmentdo Instruments and related productsdo Miscellaneous manufacturingdo Nondurable goodsdo	9.29 8.21 11.12 8.10 6.43 7.73	9.63 8.67 11.68 8.54 6.82 8.07	9.46 8.60 11.49 8.47 6.75 8.00	9.48 8.60 11.53 8.46 6.76 8.03	9.59 8.60 11.52 8.48 6.82 8.03	9.63 8.63 11.63 8.48 6.81 8.04	9.65 8.69 11.62 8.57 6.82 8.11	9.61 8.64 11.53 8.53 6.81 8.05	9.71 8.75 11.80 8.61 6.85 8.11	9.74 8.73 11.88 8.60 6.85 8.11	9.81 9.81 8.78 12.02 8.62 6.86 8.18	9.91 8.86 12.06 8.70 6.97 8.24	9.92 8.89 12.08 8.74 7.03 8.27	9.94 *8.87 *12.02 *8.72 6.99 8.24	9.95 *8.90 *12.14 *8.76 6.99 *8.26	P9.9 P8.9 P12.1 P8.8 P6.9 P8.2
Excluding overtime	7.49 7.89 9.78 5.83 5.20 9.32 8.75 9.96 12.46	7.78 8.17 10.32 6.18 5.37 9.93 9.12 10.59 13.28	5.33 9.67 9.03 10.39 13.28	7.75 8.20 10.61 6.14 5.35 9.72 9.03 10.43 13.27	7.75 8.18 10.74 6.14 5.33 9.81 9.05 10.50 13.17	7.75 8.17 10.91 6.16 5.36 9.91 9.06 10.52 13.17	7.81 8.17 10.84 6.17 5.35 10.06 9.10 10.58 13.20	7.73 8.12 10.24 6.19 5.35 10.02 9.14 10.61 13.16	7.77 8.14 9.90 6.23 5.39 10.11 9.25 10.69 13.36	7.79 8.13 9.67 6.24 5.43 10.10 9.24 10.78 13.36	7.86 8.23 10.74 6.26 5.45 10.19 9.27 10.86 13.44	7.91 8.33 10.18 6.31 5.44 10.23 9.31 10.89 13.52	7.96 8.38 10.74 6.40 *5.50 10.22 9.28 10.90 13.47	7.93 *8.34 *11.09 *6.41 5.46 10.21 *9.32 10.89 13.43	7.95 8.37 *11.21 *6.43 *5.47 10.25 *9.31 *10.92 *13.44	P8.4 P11.39 P6.44 P5.44 P10.30 P9.30 P10.94 P13.3
Rubber and plastics products, nec do Leather and leather products do Transportation and public utilities do Wholesale trade do Retail trade do Finance, insurance, and real estate do Services do	7.65 5.32 10.30 8.02 5.47 6.78 6.90	8.02 5.53 10.81 8.41 5.73 7.30 7.26	5.52 10.68 8.27 5.68	7.95 5.52 10.72 8.34 5.69 7.23 7.20	7.97 5.51 10.74 8.36 5.71 7.31 7.23	7.96 5.49 10.73 8.35 5.71 7.26 7.20	8.06 5.52 10.86 8.42 5.72 7.30 7.18	8.03 5.50 10.68 8.41 5.71 7.25 7.18	8.08 5.56 10.90 8.48 5.77 7.33 7.31	8.12 5.55 10.93 8.54 5.78 7.45 7.39	8.10 5.56 11.01 8.54 5.81 7.39 7.41	8.18 5.60 10.98 8.60 5.77 7.43 7.44	8.20 5.67 11.05 8.69 5.89 7.55 7.54	*8.20 *5.66 *10.99 *8.66 5.89 *7.54 *7.51	*8.22 5.67 *10.99 *8.67 5.89 *7.54 *7.50	P8.2 P5.6 P11.0 P8.7 P5.9 P7.5 P7.5
Private nonagricultural payrolls dollars Mining do Construction do Manufacturing do Transportation and public utilities do Wholesale trade * do Retail trade * do	7.67 10.78 11.62 8.50 10.30 8.02 5.47	8.84 10.81 8.41 5.73	12.00 8.75 10.77	7.95 (¹) 12.02 8.78 10.76	7.97 (¹) 11.86 8.79 10.82	8.00 (¹) 11.85 8.82 10.83	8.03 (¹) 11.82 8.85 10.88	7.98 (¹) 11.83 8.84 10.64	8.08 (¹) 11.96 8.87 10.82	8.13 (¹) 11.92 8.94 10.90	8.13 (¹) 11.89 9.00 10.92	8.16 (¹) 11.93 9.01 10.94	8.23 (¹) 11.97 9.05 11.02 (³) (³)	8.23 (¹) 11.97 9.09 °10.97	8.25 (¹) ¹ 2.03 9.12 ¹ 1.08	(¹) P12.0 P9.1 P11.0
Finance, insurance, and real estate do Services do	6.78 6.90		(¹) 7.15	(¹) 7.19	(¹) 7.24	(¹) 7.26	(1) 7.26	(¹) 7.26	(¹) 7.32	(¹) 7.38	(¹) 7.37	(1) 7.41	(1) 7.47	(1) r7.46	(¹) r7.48	(1) P7.5
Indexes of avg. hourly earnings, seas. adj.: ◇ Private nonfarm economy: Current dollars	148.3 93.3 159.0 141.1 152.5 148.6 148.4 143.2 148.3 147.6	155.6 149.8 158.9	153.4 94.9 164.0 145.5 157.1 155.9 152.9 152.9 147.8 156.6 152.6	154.0 94.7 165.7 145.9 157.0 155.9 154.4 148.4 157.4 154.0	154.6 94.7 165.0 144.5 157.7 156.6 154.6 149.4 159.0 154.9	154.8 94.8 166.4 144.6 157.8 156.8 154.5 150.1 158.2 155.5	155.2 94.7 167.6 144.0 158.2 157.9 155.6 150.3 159.1 155.6	155.0 94.1 167.3 144.1 158.1 155.4 155.5 155.5 150.5 158.2 155.9	155.9 94.3 168.3 145.5 158.3 157.2 157.0 157.0 151.0 159.8 157.1	156.8 94.6 168.7 145.1 158.9 158.4 158.2 151.9 162.1 158.4	156.9 94.4 169.8 144.6 159.7 158.7 158.0 152.0 161.0 158.1	157.5 94.7 170.0 145.2 160.1 158.9 159.1 152.4 162.0 159.2	158.3 94.7 171.4 146.1 160.7 160.0 160.6 152.3 164.5 159.8	158.2 94.6 *171.0 *146.1 *159.3 *160.2 152.5 *164.3 *159.2	^{1158.8} 94.9 172.5 146.5 161.7 160.8 160.3 153.0 164.3 159.5	P95. P172. P146. P162. P160. P162. P162. P153. P164.
Construction wages, 20 cities (ENR): § Common labor	14.28 18.56 11.51		14.92 19.46 12.48	14.92 19.46 12.67	14.92 19.49 12.68	15.24 19.85 12.63	15.35 20.05 13.09	15.44 20.24 12.89	15.53 20.37 13.13	15.53 20.37 12.99	15.56 20.43 13.04	15.49 20.40 13.06	15.52 20.42 13.32	15.52 20.43 13.38	15.54 20.49	₽20.4
Avg. weekly earnings per worker, private nonfarm: Current dollars, seasonally adjusted	266.92 167.87	280.35 171.15	275.27 170.34	277.46 170.64	279.75 171.42	280.80 171.85	281.05 171.48	279.30 169.58	284.42 172.06	286.99 173.09	286.18 171.98	288.05 172.90	292.17 174.85	291.34 174.14	290.40	
Current dollars, not seasonally adjusted: Private nonfarm, total dollars Mining do Construction do	266.92 459.23 426.45	*280.35 480.25 441.86	274.13 467.74	275.52 469.25 436.73	278.15 472.64 441.32	280.54 478.13 444.95	283.20 475.31 450.00	281.08 481.66 449.92	286.28 489.19 455.94	287.70 490.32 449.09	286.42 490.35 431.61	289.68 497.64 441.97	289.10 501.70 438.14	289.22 *494.93 443.26	173.58 *289.22 *497.76 *439.30	₽293.4 ₽497.7
Manufacturing do Durable goods do Nondurable goods do Transportation and public utilities do Wholesale trade do Retail trade do Finance, insurance, and real estate do Services do	330.65 356.06 296.83 401.70 307.97 163.55 245.44 224.94	354.48 382.58 317.96 421.59 324.63 170.75 264.26 237.40	346.10 372.53 311.20 413.32 316.74 166.42 258.84	349.05 375.19 313.97 413.79 319.42 167.29 261.00 234.72	350.32 377.34 315.58 415.64 321.86 169.59 265.35 236.42	355.04 382.30 319.19 419.54 323.15 171.87 262.09 236.88	354.40 379.76 319.53 425.71 326.70 175.03 264.99 237.66	353.36 380.14 319.59 421.86 325.47 174.16 261.73 237.66	363.12 392.47 325.21 429.46 328.18 172.52 263.88 239.04	363.04 391.94 323.59 430.64 331.35 172.82 270.44 242.39	366.79 396.74 327.20 432.69 331.35 173.14 266.78 241.57	373.27 404.46 330.42 435.91 335.40 177.72 268.97 242.54	369.05 398.96 326.67 432.06 335.43 173.17 276.33 245.80	369.56 399.92 326.30 *428.61 *332.54 173.17 *273.70 *244.83	r370.78 r400.75 r327.10 r428.61 r333.80 173.76 r273.70 r244.50	P373.4 P404.4 P330.3 P430.4 P340.6 P176.4 P275.9
EMPLOYMENT COST INDEX @ Civilian workers †			113.2			114.5						117.8			119.8	
White-collar workers	i i		113.7 112.3 114.3	······		114.9 113.6 115.1	••••••		116.7	······		118.9 115.8 119.1	·····	·····	120.9 117.7 122.0	
Manufacturing do Nonmanufacturing do Services do Public administration do			112.5 113.5 116.6 116.2			113.5 114.9 117.1 117.0	••••••		115.0 117.2 121.1 119.8	······		116.0 118.6 122.6 121.4	·····		117.9 120.7 125.0 122.9	
HELP-WANTED ADVERTISING Seasonally adjusted index 1967=100	86	96	83	81	87	92	100	97	98	111	114	121	123	128	124	

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data	1982	1983					19	83						19	84	
through 1982 and methodological notes are as shown in BUSINESS STATISTICS: 1982	1	nual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
LAB	OR FO	ORCE,	EMP	LOY	MEN'	Г, AN	D EA	RNI	NGS-	Con	tinue	d				•
WORK STOPPAGES																
Work stoppages involving 1,000 or more workers: Number of stoppages:								_						4		
Beginning in month or yearnumber Workers involved in stoppages: Beginning in month or yearthous	96 656	81 909	5 11	2	12	16 63	10 64	7 616	7 20	12 68	4 23	0	5 27	8	2	5
Days idle during month or year do	9,061	17,461	1,132	790	25 488	689	1,270	616 8,673	567	1,143	605	464	506	365	284	25 641
UNEMPLOYMENT INSURANCE Unemployment insurance programs:																
Insured unemployment, all programs, average weekly #@thous	4,590	3,775	5,134	4,642	3,947	3,481	3,275	2,917	2,580	2,478	2,620	2,915	3,374	3,174	2,958	
State programs (excl. extended duration prov.): Initial claimsthous	30,298	22,802	2,075	1,874	1,666	1,740	1,804	1,668	1,381	1,522	1,757	2,105	'2,356	1,551	P1,459	
Insured unemployment, avg. weekly do Percent of covered employment: @@ Unadjusted	4,061 4.6	3,396 3.9	4,401 5.0	3,906 4.5	3,361 3.9	3,063 3.5	3,049 3.5	2,766 3.2	2,449 2.8	2,358 2.7	2,508	2,805 3.3	3,249 3.8	3,056 3.6	2,843 3.3	
Seasonally adjusted Beneficiaries, average weekly thous	3,564	2,990	4.5 4,246	4.4 3,568	4.1 2,985	3.8 2,913	3.6 2,609	3.5 2,457	3.4 2,133	3.3 2,004	2.9 3.3 2,114	3.2 2,311	3.1 ¹ 2,780	2.9	2.9 2.666	
Benefits paid @ mil. \$ Federal employees, insured unemployment,	²20,649.5	18,613.2	2,367.8	1,817.5	1,587.9	1,537.4	1,298.2	1,337.4	1,104.4	1,002.1	1,099.9	1,203.6	¹ 1,458.0	¹ ,401.1	1,430.6	
average weekly	32	26	31	26	22	21	23	22	22	25	27	2 9	32	31	28	
Initial claims do Insured unemployment, avg. weekly do	136 11	196 30	18 34	15 30	14 26 24 13.1	16 25 24	16 25 22 12.1	19 26 23 13.9	17 27	16 28 25 14.1	15 28 26	14 27	15 27 №25	P13 24	14 22	
Beneficiaries, average weekly do Benefits paid mil. \$ Beilend more reasons	9 83.5	27 178.9	34 19.6	28 14.8	24 13.1	24 13.6	22 12.1	23 13.9	24 13.5	25 14.1	26 15.1	26 14.8	₽25 14.6	"23 "12.6	21 P12.1	
Railroad program: Applicationsthous Insured unemployment, avg. weekly do	246 62	180 58	8 68	9 79	4 74	31 47	55 48	14 43	9 41	7 43	8 42	8 43	10 52	4 47		
Benefits paid mil. \$	338.7	301.6	36.2	24.8	29.4	15.0	17.6	21.8	20.2	19.5	· 19.5	19.9	23.9	23.2		
					FINA	NCE										
BANKING																
Open market paper outstanding, end of period: Bankers' acceptances	79,543	78,309	70,843	70,389	68,797	70,907	72,710	73,977	73,569	72,902		78,309	73,450	74,367		
Commercial and financial co. paper, total do Financial companies do Dealer placed	³ 162,330 ³ 118,640 ³ 34,666	181,348 137,970 41,727	166,534 121,034 36,529	169,892 123,819 36,984	169,870 125,552 38,205	171,642 127,318 38,645	172,674 128,520 37,927	172,407 129,375 39,136	176,125 130,280 39,247	177,150 132,128 39,134	182,475 137,297 42,124	181,348 137,970 41,727	185,280 139,839 41,283	191,132 143,778 42,551	198,194 148,677 44,036	
Directly placed	³ 83,974 43,690	96,243 43,378	84,505 45,500	86,835 46,073	87,347 44,318	88,673 44,324	90,593 44,154	90,239 43,032	91,033 45,845	92,994 45,022	95,173 45,178	96,243 43,378	98,556 45,441	101,227 47,354	104,641 49,517	
Agricultural loans and discounts outstanding of agencies supervised by the Farm Credit Adm.:	,		,	ŗ							, ,					
Total, end of period	80,408	80,541		81,022	81,024	81,165	81,397	81,6 01	81,177	81,106	80,769	80,541	80,896	80,794	80,913	•••••
Federal land banks do Loans to cooperatives do	50,375 8,423	51,078 9,319	9,341	50,687 9,259	50,778 8,967	50,884 8,630	50,946 8,659	8,974	51,095 8,707	51,105 9,263	51,130 9,460	51,078 9,319	51,036 10,171	50,998 10,170	51,038 10,292	·····
Other loans and discounts do Federal Reserve banks, condition, end of period:	21,609	20,143	*20,923	21,076	21,279	21,652	21,792	21,621	21,375	20,737	20,180	20,143	19,690	19,626	19,584	•••••
Assets, total # mil. \$ Reserve bank credit outstanding, total # do	190,128 153,769	198,571 163,694	182,445 148,860	189,421 151,134		189,579 155,649		193,405 160,242	208,034 167,398	190,067 155,964	195,267 160,043	198,571 163,694	199,457 163,081	188,837 158,535	195,100 159,508	208,207 173,570
Time loans	717	918 151,942	2,808 136,651	848 141,550	1,260 141,180	3,610 141,673	1,113	3,633	1,625 155,423	387 146.096	1,059	918 151,942	418 150,254	1,020 140,847	896 150,814	907 162,134
Gold certificate account do Liabilities, total # do	11,148 190,128	11,121	11,138 182,445	11,135	11,132 185,011	11,131	11,131	11,128	11,128 208,034	11,126	11,123	11,121 198,571	11,120	11,116 188,837	11,111 195,100	11,109
Deposits, total do	34,334	26,123	28,100	32,321	26,054	27,508	27,781	30,608	44,593	26,112	25,443	26,123	29,661	20,306	26,634	37,113
Member-bank reserve balances do Federal Reserve notes in circulation do	26,489 141,990	21,446 157,097	23,419 141,497	23,193 142,497	20,567 145,783	18,004 147,549	23,046 147,094	25,702 148,241	20,697 148,172	20,227 149,676	21,581 153,800	21,446 157,097	20,361 151,711	16,330 152,383	22,167 153,871	19,715 155,388
All member banks of Federal Reserve System, averages of daily figures:																
Reserves held, total mil. \$ Required do Excess	¹ 41,854 ¹ 41,354 ¹ 500	¹ 38,894 ¹ 38,333 ¹ 561	38,035 37,601 433	38,650 38,174 476	38,282 37,833 449	38,415 37,934 480	38,948 38,440 507	38,661 38,214 446	37,916 37,418 498	38,137 37,633 505	38,144 37,615 529	38,894 38,333 561	40,120 39,507 613	36,365 35,423 942	"36,278 "35,569 "709	37,151 36,662 489
Borrowings from Federal Reserve banks do Free reserves	¹ 634 ¹ -101	1774 1-117	-306	1,009 -451	952 404	1,636 -1,034	1,453 -775	1,546 -902	1,441 -753	844 -197	906 -256	774	715 -16	567 478	952 7-110	1,234 -606
Large commercial banks reporting to Federal Re- serve System, Wed. nearest end of yr. or mo.: ‡																
Deposits: Demand, total #, mil. \$	191,546	195,538	175,226	172,570		182,551	180,964		169,441	180,079			186,364	185,724	176,120	185,972
Individuals, partnerships, and corp. ‡‡ do States and political subdivisions	141,698 5,225	149,971 5,507	132,422 4,248	131,566 4,654	152,866 5,247	136,533 5,282	136,531 5,081	136,935 4,719	130,818 4,492	138,677 5,284	143,638 4,900	149,971 5,507	139,378 5,453	140,501 5,448	134,190 4,250	141,334 5,854
U.S. Government do Depository institutions in U.S. ‡ do	1,764 23,816	2,055 21,868	2,091 18,876	3,470 17,921	1,131 26,240	2,025 20,912	3,215 20,595	993 20,412	1,607 18,199	1,152 20,103	1,934 20,448	2,055 21,868	1,106 23,974	2,446 22,623	1,736 21,285	1,307 22,088
Transaction balances other than demand deposits * do Nontransaction balances, total * do	410 100		405 054	410.000	421.594	404 501	400 004			432.988	407 095		32,956	32,736	32,899	33,340
Individuals, partnerships, and corp do	416,133 377,218	439,983 411,068	425,074 389,993	386,474	391,228	424,521 394,584	426,234 398,234	429,130 400,368	399,366	405,227	408,964	439,983 411,068		411,118 382,536	415,351 386,014	414,454 385,311
Loans and leases (adjusted), total § do Commercial and industrial	524,625 218,529	553,128 223,857	522,306 218,476	216,526	524,951 216,420	526,133 214,966	528,769 217,139	530,222 216,005	530,378 215,287	541,626 218,706	543,644 219,355	553,128 223,857	577,258 221,422	585,352 226,817	587,258 231,233	602,674 236,671
For purchasing and carrying securities do To nonbank depository and other	11,138 26,684	13,638 25,272	10,735 26,344	10,027 25,075	11,919 25,798	12,668 25,135	11,838 25,480	12,497 25,021	11,402 25,326	13,061 25,014	14,291 24,256	13,638 25,272	14,910 25,578	15,659 24,766	12,678 24,312	13,868 25,415
financial do Real estate loans do To States and political subdivisions ◊ do	133,738	142,170		136,308	136,670	137,455	138,007	139,237	140,261	141,637	142,106	142,170	20,578 144,657 20,361	145,468 20,670	24,312 146,733 21,274	25,415 148,448 22,538
Other loans do	161,257	174,488		156,809	164,840	161,306		165,307	163,927				180,307	181,012 129,697	174,169 128,525	180,948 128,260
Investments, total	129,438 62,639	145,803 75,473		138,126 69,998	141,108 73,512	140,157 72,613	138,938 70,291	138,908 70,142	139,422 70,720	143,742 74,853	145,869 77,105	145,803 75,473	130,201 80,244	129,697 80,175	128,525 78,961	128,260
Investment account ◊	54,761	67,777 70,330	59,002	60,097	63,022	62,276	60,437	61,742	62,314	65,722	68,044	67,777	68,377	69,223 49,522	68,231 49,564	66,456
See footnotes at end of tables.	, .															

See footnotes at end of tables.

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SURVEY OF CURRENT BUSINESS

May 1	9	8	4
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	1982	1983					19							19	84	
Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as shown in BUSINESS STATISTICS: 1982	1002	1000												10		
	Ann	ual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
			F	INAN	ICE-	-Cont	inue	1								
BANKING—Continued																
Commercial bank credit, seas. adj.: Total loans and securities U.S. Treasury securities do Other securities do Total loans and leases do	1,412.0 130.9 239.2 1,042.0	*1,568.1 188.0 247.5 *1,132.6	1,450.1 151.0 242.8 1,056.3	1,460.6 157.8 243.4 1,059.5	1,474.4 166.1 245.0 1,063.3	1,488.0 171.2 246.2 1,070.6	1,499.9 172.9 246.1 1,080.9	1,513.2 174.4 247.8 1,091.0	1,520.3 176.9 247.1 1,096.3	182.3 246.5	1,548.9 186.2 247.1 1,115.7		"1,585.2 "188.7 "252.0 "1,144.5	"1,604.8 "188.3 "252.2 "1,164.3	1,621.6 187.1 253.2 1,181.4	
Money and interest rates:	Ì															
Prime rate charged by banks on short-term business loans * percent	14.86	10.7 9	1	10.50	10.50	10.50	10.50	10.89	11.00	11.00	11.00		11.00	11.00	11.21	11.93
Discount rate (N.Y.F.R. Bank) @@ do Federal intermediate credit bank loans do	11.02 °13.56	8.50 10.60		8.50 10.51	8.50 10.20	8.50 10.14	8.50 10.22	8.50 10.30	8.50 10.42	8.50 10.55	8.50 10.61		8.50 10.80	8.50 10.84	8.50 10.79	8.87 10.87
Home mortgage rates (conventional 1st mortgages): New home purchase (U.S. avg.)	² 14.49 ² 14.78	12.11 12.29	12.97 12.61	12.02 12.42	12.21 12.36	11.90 12.21	12.02 12.18	12.01 12.25	12.08 12.38	11.80 12.19	11.82 12.11	11.94	11.80 11.70	11.78 11.73	'11.56 '11.69	11.60 11.65
Open market rates, New York City: Bankers' acceptances, 90 days	³ 11.89 ³ 11.89 ³ 11.20	8.90 8.89 8.69	8.54 8.48	8.49 8.48 8.41	8.36 8.31 8.15	9.04 9.03 8.80	9.33 9.36 9.10	9.59 9.68 9.42	9.23 9.28 9.09	9.01 8.98 8.79	9.16 9.09 8.84	9.52 9.50	9.23 9.18 9.02	9.38 9.31 9.06	9.88 9.86 9.38	10.22 10.22 9.76
Yield on U.S. Government securities (taxable): 3-month bills (rate on new issue) percent CONSUMER INSTALLMENT CREDIT †	°10.686	8.630		8.252	8.185	8.820	9.120	9.390	9.050	8.710	8.710		8.930	9.030	9.440	9.690
Not seasonally adjusted																
Total outstanding (end of period) # mil. \$ By major holder:	*355,849	*396 ,082	*351,736	'353,263	^{-355,302}	*360,605	'365,498	⁻ 371,295	r375,246	⁻ 379,334	'384,4 10	'396 ,082	394,922	399,177	402,466	
Commercial banks do Finance companies	*152,490 *98,693 47,253 *32,735	'171,978 '102,862 53,471 '35,911		"149,311 "99,357 47,505 "29,871	'149,601 '100,116 47,838 '30,041	152,065 101,056 48,652 30,347	'154,914 '102,084 49,139 '30,403	'158,402 '102,541 50,121 '30,648	160,973 102,174 51,123 30,926	'163,274 '102,338 51,767 '31,337	'165,670 '102,560 52,578 '32,371	'102,862 53,471 '35,911	171,934 101,680 53,882 34,505	175,941 101,702 54,851 33,455	177,625 101,619 55,892 33,208	·····
Savings and loans	'15,823 '131,086 '69,998	"21,615 "142,449 "80,823	*129,392 *65,826	'18,022 '129,842 '66,355	*18,484 *130,938 *66,423	"18,945 "132,916 "67,945	*19,135 *135,373 *68,866	*19,461 *138,242 *70,006	"19,985 "139,002 "71,039	"20,472 "140,101 "72,105	"21,023 "141,107 "74,032	"21,615 "142,449 "80,823	21,823 143,186 78,566	22,269 146,047 77,671	23,071 146,047 79,110	
Mobile home do Seasonally adjusted *	*22,254	°23,680		22,636	22,673	22,722	22,830	10,000	23,189	23,358	123,492	°23,680	23,667	23,571	23,661	
Total outstanding (end of period) # do By major holder:			r354,498	' 356,539	'358,811	*362,672	' 366,378	'370,471	r373,024	'378,117	*382,936	*388,718	393,187	399,795	405,665	
Commercial banks			'150,371 '99,971 47,180 '30,289	*150,856 *99,904 47,888 *30,456	*151,654 *100,276 48,176 *30,711	*153,219 *101,082 48,749 *31,005	^{155,442} 101,589 49,411 31,166	*157,720 *102,227 49,921 *31,330	*159,429 *101,842 50,567 *31,555	*162,142 *102,312 51,509 *31,770		*168,951 *102,126 53,152 *32,625	170,981 102,060 54,068 33,047	175,895 102,318 54,780 33,372	179,316 102,125 56,010 33,727	·····
Savings and loans do By major credit type:			'17,617	*17,985	*18,527	r19,150	'19,197	r19,462	'19,910	*20,34 7	"20,931	'21,520	21,883	22,298	23,111	• • • • • • • • • • • • • • • • • • • •
Automobile			"130,328 "66,814 "22,525	'130,769 '67,785 '22,576	'131,475 '68,369 '22,676	'132,915 '69,473 '22,839	'134,764 '70,089 '23,076	'137,136 '70,630 '23,298	'137,431 '71,209 '23,553	'139,140 '72,447 '23,523	"140,408 "73,874 "23,459	'141,876 '75,564 '23,460	143,982 76,069 23,369	146,781 77,342 23,242	147,107 80,304 23,526	
Total net change (during period) #do By major holder: Commercial banks			"2,937 "841 "921	r2,041 r485 r-67	^{•2,272} •7 98 •372	"3,861 "1,565 "806	r3,706 r2,223 r507	*4,093 *2,278 *638	''2,553 ''1,709 ''-385	"5,093 "2,713 "470	"4,819 "2,832 "-40	r5,782 r3,977 r–146	4,469 2,030 -66	6,608 4,914 258	5,870 3,422 -193	······
Credit unions do Retailers do Savings and loans do			143 *331 *609	708 7167 7368	288 7255 7542	573 *294 *623	662 161 147	510 *164 *265	646 7225 7448	942 "215 "437	912 7318 7584	731	916 422 362	712 325 '414	1,230 355 813	
By major credit type: Automobile			'763 '1,047 '174	r441 r971 r51	"706 "584 "100	'1,440 '1,104 '163	"1,849 "616 "237	"2,372 "541 "222	"295 "579 "255	r1,709 r1,238 r-30	"1,268 "1,427 "64	'1,468 '1,690 '1	2,106 504 -91	2,799 1,273 -127	326 2,962 285	
FEDERAL GOVERNMENT FINANCE Budget receipts and outlays:																
Budget receips and outlays. Receipts (net) Outlays (net) Budget surplus or deficit ()	¹ 617,766 ¹ 728,424 ¹ –110,658	¹ 600,562 ¹ 795,969 ¹ -195,407	43,504 69,539 -26,035	66,234 69,542 r–3,309	33,755 63,040 –29,285	66,517 63,116 3,401	43,948 65,360 -21,412	49,683 67,160 -17,477	63,556 61,610 1,946	45,156 70,225 -25,069	46,200 67,792 -21,591	58,041 74,702 -16,661	62,537 68,052 -5,515	47,886 68,267 20,381	44,464 73,020 -28,555	80,180 68,687 11,493
Budget financing, totaldo Borrowing from the publicdo Reduction in cash balancesdo	127,989 134,912 -6,923	¹ 207,764 ¹ 212,424 ¹ -4,660	27,296 31,302 -4,006	4,447 *2,682 *1,765	30,476 18,497 11,979	-1,382 25,719 -27,101	22,705 11,877 10,828	18,744 20,522 -1,778	756 15,442 -14,686	23,623 11,732 11,891	22,270 8,946 13,324		5,762 23,686 -17,924	20,588 18,172 2,416	30,282 7,568 22,714	10,833 17,038 27,871
Gross amount of debt outstanding	1,146,987 929,346	¹ 1,381,886 ¹ 1,141,770		1,252,706 1,049,714	1,296,125 1,068,211	1,324,318 1,093,930	1,331,595 1,105,806	1,353,072 1,126,328	1, 381,886 1,141,770	1,389,236 1,153,502	1,393,816 1,162,448		1,441,993 1,201,634	1, 46 2,127 1,219,808	1, 468,303 1,227,376	1, 490,663 1, 244,414
Budget receipts by source and outlays by agency: Receipts (net), total	¹ 617,766 ¹ 298,111 ¹ 49,207	¹ 600,562 ¹ 288,938 ¹ 37,022	15,658 4,373	66,234 *35,041 4,796	33,755 6,384 -302	66,517 32,773 9,955	43,948 21,938 856	49,683 23,259 383	63,556 30,961 9,048	45,156 23,227 468	46,200 22,700 467	58,041 25,577 10,922	62,537 33,881 1,619	47,886 22,190 9	44,464 12,895 7,965	80,180 39,192 9,095
(net) mil. \$ Other do	¹ 201,131 ¹ 69,317	¹ 208,994 ¹ 65,609	17,938 5,535	"21,480 4,918	22,330 5,344	17,903 5,886	15,316 5,838	20,089 5,952	17,240 6,308	15,706 5,753	16,780 6,253	16,120 5,422	21,462 5,575	19,972 5,715	17,702 5,902	26,036 5,858
Outlays, total # do Agriculture Department do Defense Department, military. do Health and Human Services mil e	¹ 728,424 ¹ 36,213 ¹ 182,850	^{1795,969} ^{146,392} ^{1205,012}		69,542 '4,627 '17,122	63,040 2,503 16,888	63,116 2,787 17,908	65,360 2,429 16,936	67,160 1,644 18,133	61,610 2,637 17,508	70,225 4,445 16,949	67,792 2,755 17,445	3,988 18,925	68,052 4,266 17,781	68,267 3,561 17,939	73,020 3,032 18,950	68,687 3,114 18,210
Department mil. \$ Treasury Department do National Aeronautics and Space Adm do Veterans Administration do COLU DAND SHI VETE.	¹ 251,259 ¹ 110,521 ¹ 6,026 ¹ 23,937	¹ 276,635 ¹ 116,360 ¹ 6,664 ¹ 24,827	23,408 7,983 675 2,295	¹ 24,169 ¹ 8,078 487 13,359	22,234 9,679 603 878	22,862 13,944 571 1,900	22,724 8,969 583 2,021	23,570 10,014 601 2,254	22,296 6,743 539 2,008	23,297 9,611 734 1,936	23,559 10,665 632 2,047	24,448 17,438 590 3,332	23,812 9,481 414 1,199	24,143 10,625 631 2,100	25,635 10,066 522 3,294	24,060 11,524 604 886
GOLD AND SILVER: Gold: Monetary stock, U.S. (end of period) mil. \$ Price at New York ‡	11,148 376.010	11,121 423.828		11,135 432.188	11,132 437.555	11,131 412.841	11,131 423.053	11,128 416.248	11,128 411.455	11,126 393.208	11,123 382.245		11,120 370.888	11,116 385.955	11,111 394.264	11,109 381.658
Silver: Price at New York #dol. per troy oz	7.947	11.144	10.619	11.694	12.976	11.749	12.088	12.096	11.915	9.841	8.837	9.121	8.182	9.126	9.651	9.220
See footnotes at end of tables.																

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as	1982	1983					19	63						19	84	
shown in BUSINESS STATISTICS: 1982	Anr	nual	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
			F	'INAl	NCE-	-Cont	inue	d								
MONETARY STATISTICS																
Currency in circulation (end of period) bil. \$ Money stock measures and components (averages	156.2	157.7	¹ 155.7			148.1		•••••	148.7			157.7		••••••		••••
of daily figures): † Measures (not seasonally adjusted): ‡												(
M1	458.0 1,878.3 2,278.5 2,777.4	2,115.9 2,596.8	2,532.2	505.2 2,092.4 2,558.4 2,991.2	500.7 2,096.7 2,565.9 2,999.3	509.8 2,118.1 2,591.2 3,028.6	516.6 2,131.9 2,604.0 3,052.5	513.5 2,133.3 2,615.6 3,070.6	516.3 2,142.2 2,631.0 3,085.5	2,655.7	526.7 2,181.2 2,689.9 ⁷ 3,148.1	537.8 72,197.9 72,712.9 73,184.8	534.8 *2,210.3 *2,728.1 *3,210.2	521.9 *2,211.7 *2,738.0	528.1 *2,230.2 *2,768.1	543.1 2,254.1 2,800.2
Components (not seasonally adjusted): Currency do	128.4	141.9	136.7	138.7	140.4	141.9	143.6	143.8	144.3	145.7	147.9	150.5	148.4	148.3	149.8	151.5
Demand deposits do Other checkable deposits <u>++</u> do Overnight RP's and Eurodollars \ do General purpose and broker/dealer	234.9 90.3 41.1	241.8	234.3 113.9 48.7	242.1 120.0 50.8	237.5 118.2 55.4	241.8 121.2 56.1	244.9 122.9 53.1	241.1 123.5 52.4	242.0 124.9 53.5	244.8 127.0 57.0	245.2 128.9 55.2	251.6 131.2 56.1	249.4 132.5 58.3	237.9 130.9 *58.8	239.4 134.1 *57.7	247.8 139.0 56.3
money market funds do Money market deposit accounts *	172.4	145.3 340.5	154.8 321.0	148.2 341.4	141.4 357.4	140.2 368.6	138.7 370.5	139.1 368.6	137.9 369.5	137.5 370.5	138.8 372.9	138.2 376.0	137.9 "380.3	142.1 '386.0	144.8 '392.5	146.1 396.3
Savings deposits	350.3 859.0 326.4		323.0 737.4 295.6	324.7 729.7 295.0	325.5 723.8 295.9	325.8 725.1 299.8	324.8 735.8 300.1	319.8 747.0 308.5	316.2 756.3 314.8	316.0 771.4 317.9	312.0 783.1 323.7	308.5 788.6 *329.7	307.4 799.4 *335.0	r305.2 805.4 r340.9	r307.2 r807.6 r347.3	308.5 811.5 351.8
Measures (seasonally adjusted): ‡ do M1			496.4 2,067.4	497.9 2,081.8	506.6 2,102.2	510.9 2,117.0	514.9 2,126.6	517.4 2,135.3	518.9 2,147.9	521.6 2,167.2	523.0 2,182.1	525.3 2,196.1	530.0 "2,206.5	532.9 *2,221.9	'535.1 '2,229.2	535.3 2,242.3
M3 do L (M3 plus other liquid assets) do			2,532.3 2,951.7	2,550.6 2,980.0	2,571.0 3,003.3	2,593.0 3,033.1	2,604.0 3,059.7	2,617.2 3,075.1	2,636.4 3,097.7	2,657.0 *3,114.7	"2,688.9 "3,146.9	"2,706.8 "3,177.0	r2,722.2 r3,198.8	*2,745.3	"2,766.8	2,791.7
Components (seasonally adjusted): Currency do			138.1	139.1	140.5	141.6	142.4	143.5	144.8	146.0	147.2	148.0	149.9	150.2	150.9	151.8
Demand deposits do Other checkable deposits * do Savings deposits			238.8 115.0 322.2	239.5 114.7 321.9	241.5 120.0 323.1	243.0 121.7 322.8	244.5 123.4 320.7	243.7 125.6 319.3	243.0 126.4 317.9	243.6 127.2 317.1	242.8 128.2 315.4	243.7 128.8 312.9	244.5 130.7 *309.9	243.8 133.8 306.5	244.0 135.3 "305.4	245.2 133.2 305.4
Small time deposits @			733.2 295.4	727.4 298.3	722.6 298.0	724.8 303.0	737.0	749.0 308.6	759.0 313.2	773.0 315.6	785.5 320.8	793.1 '325.9	797.0 1333.4	800.9 '340.2	*803.4 *348.2	809.1 355.7
PROFITS AND DIVIDENDS (QTRLY.)																
Manufacturing corps. (Bureau of the Census): Net profit after taxes, all industries mil. \$	71,028 8,383	86,294	15,729 1,488			22,174 2.224			23,308 2.407			25,083 2,758				
Food and kindred products do Textile mill products do Paper and allied products	851 1,460	8,877 1,605 2,337	1,468 241 441			2,224 461 543			2,407 483 678			420 675				
Chemicals and allied products do Petroleum and coal products do	10,324 19,666	11,733 19,379	2,755 3.658			3,045 4,529			3,233 5,530			2,700 5,662				•••••
Stone, clay, and glass products	408	1,127 -154	-123 -114			4,525 340 50			536 37			374 -127				
Primary iron and steel do Fabricated metal products (except ordnance,	-3,705	-3,746	-759		••••••	-616			-570			-1,801				
machinery, and transport. equip.) mil. \$ Machinery (except electrical) do Elec. machinery, equip., and supplies do	2,320 8,038 6,449	2,748 8,192 6,374	336 1,306 1,313			789 1,926 1,268			757 2,017 1,591			866 2,943 2,202				·····
Transportation equipment (except motor vehicles, etc.) mil. \$	2,566	2.899	595			847			728			729				
Motor vehicles and equipment do All other manufacturing industries	734 13,867	7,295 17,628	1,058 3,534			2,163 4,605			1,520 4,361			2,554 5,128				
Dividends paid (cash), all industries do	41,259	41,510	9,902			10,275			10,353	·····		10,980				
SECURITIES ISSUED @ @ Securities and Exchange Commission:																
Estimated gross proceeds, total mil. \$ By type of security:	73,424		*11,960	12,142	12,838	8,646	7,423	6,212	6,649	6,053	7,242		*8,026 5,067	*10,388 *7,694	5,689 3,450	
Bonds and notes, corporate do Common stock do	44,004 23,197	48,081 *44,842	5,045 5,958	7,821 3,880	8,170 3,933	2,314 5,442	3,290 3,794	2,727 2,923	2,680 3,126	2,433 3,320	3,316 3,444	2,443 3,234	2,456	*2,080	1,764	
Preferred stock do By type of issuer:	4,950	*7,583	957	441	486	790	340	317	644	300	433	288	305	515	227	•••••
Corporate, total # mil. \$ Manufacturing do	72,151	'100,506 '22,772	11,960 2,354	12,142 2,648	12,588 3,188	8,547 3,138	7,424	5,965 1,735	6,450 1,491	6,054 1,159	7,193 596	5,965 1,267 360	r7,828 615	"10,289 "764	5,441 409	·····
Extractive (mining)do Public utilitydo	6,923 16,408	8,580 12,166	1,530 1,539	624 1,342	556 1,578	531 987	943 565	345 658	476 843	409 1,012	1,124 1,128	433	823 467	132 429	384 433	
Transportationdo Communicationdo Financial and real estatedo	2,091 3,894 23,089	4,157 5,508 34,715	336 1,883 3,051	287 986 4,138	370 505 4,435	205 381 1,982	497 1,120 2,044	220 245 1,975	178 103 2,252	305 56 2,490	303 12 3,530	508 12 2,682	64 239 4,380	89 20 17,750	279 217 3,247	
State and municipal issues (Bond Buyer): Long-term	77,179 43,390		r7,935 2,282	*9,873 5,875	¹ 9,103 2,226	*8,366 *3,640	"4,591 3,291	'6,576 4,101	r5,806 2,397	"6,668 "3,382	'5,898 '1,983	¹ 9,137 1,977	4,931 2,492	4,535 2,253	5,028 3,393	5,005 6,093
SECURITY MARKETS					,											
Stock Market Customer Financing Margin credit at brokers, end of year																
or month mil. \$ Free credit balances at brokers:	13,325	23,000	14,483	15,590	16,713	18,292	19,218	19,437	20,124	21,030	22,075	23,000	23,132	22,557	22,668	
Margin accounts	5,735 8,390	6,620 8,430	6,370 7,965	6,090 7,970	6,090 8,310	6,150 8,590	6,275 8,145	6,350 8,035	6,550 7,930	6,630 7,695	6,512 7,599	6,620 8,430	6,510 8,230	6,420 8,420	6,520 8,265	
Bonds Prices:																
Standard & Poor's Corporation: High grade corporate:								_					·			
Composite \$dol. per \$100 bond Domestic municipal (15 bonds) do	35.8 41.8	41.2 51.4	42.6 53.1	43.8 54.2	44.4 53.9	42.2 51.1	40.4 51.4	39.0 50.0	39.7 50.8	40.0 50.4	39.3 49.6	38.6 49.1	(²) 51.8	50.5	49.0	48.6
Sales: New York Stock Exchange, exclusive of some			700.07	TOC 17	007 00	641.00	E00 70	E00.40	400.00	E10.05	F 90.000	001.00	F00 F0	EFO OC	ETC 0.	
stopped sales, face value, total	7,155.44	1 7,572.32	793.35	729.15	687.63	641.90	1 538.78	560.48	498,96	513.37	530.06	601.30	566.58	550.96	579.24	552.79

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SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as	1982	1983					19	83						19	84	
through 1952 and methodological notes are as shown in BUSINESS STATISTICS: 1982	Anr	ual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
			F	INAN	ICE-	-Cont	inue	d								
Bonds-Continued							1							,		
Yields: Domestic corporate (Moody's) percent	14.94	12.78	12.72	12.44	12.30	12.54	12.73	13.01	12.91	12.79	12.93	13.07	¹ 12.92	12.88	13.33	13.59
By rating: Aaa do	13.79	12.04 12.42	$11.73 \\ 12.32$	11.51 12.06	11.46 11.95	11.74 12.15	12.15 12.39	12.51 12.72	$12.37 \\ 12.62$	12.25 12.49	12.41 12.61	12.57 12.76	¹ 12.20 12.71	12.08 12.70	12.57 13.22	12.81 13.48
Aa do A do Baa do	14.41 15.43 16.11	13.10 13.55	13.20 13.61	12.86 13.29	12.68 13.09	12.13 12.88 13.37	12.39 12.99 13.39	13.17	13.11 13.55	12.45 12.97 13.46	13.09 13.61	13.21 13.75	13.13 13.65	13.11 13.59	13.54 13.99	13.48
By group: Industrials do	14.54	12.25	12.12	11.84	11.59	11.90	12.18	12.52	12.46	12.39	12.54	12.66	12.63	12.60	13.00	13.25
Public utilities	15.33 13.68	13.31	13.31 12.11	13.03 11.90	13.00 11.62	13.17 11.78	13.28 12.07	13.50 12.13	13.35	13.19	13.33 12.35	13.48 12.46	¹ 13.40 12.41	13.50 12.28	14.03 12.54	14.30
Domestic municipal: Bond Buyer (20 bonds) do	11.56	9.52	9.38	8.82	9.78	9.36	9.60	9.75	9.46	9.79	9.82	9.76	9.51	9.86	9.93	9.99
Standard & Poor's Corp. (15 bonds) do	11.57	9.48	9.16	8.96	9.03	9.51	9.46	· 9.72	9.57	9.64	9.79	9.90	9.61	9.63	9.92	9.98
U.S. Treasury bonds, taxable ‡ do Stocks	12.23	10.84	10.34	10.19	10.21	10.64	11.10	11.42	11.26	11.21	11.32	11.44	11.29	11.44	11.90	12.17
Prices: Dow-Jones averages (65 stocks)	345.40	472.24	447.11	458.20	476.19	485.45	485.34	470.13	491.30	500.44	503.46	502.80	501.80	458.2 9	456.10	450.00
Industrial (30 stocks) Public utility (15 stocks)	884.36 111.95	1,190.34 129.98	1,129.58 126.88	1,168.43 126.08	1,212.86 129.21	1,221.47 128.21	1,213.93 130.40	1,189.21 129.60	1,237.04 132.47	1,252.20 138.35	1,250.00 137.74	1,257.64 132.73	1,258.89 132.47	1,164.46 127.58	1,161.97 127.49	1,152.71 125.74
Transportation (20 stocks) Standard & Poor's Corporation: §	359.81	544.61	507.66	518.15	542.75	571.73	572.84	536.83	571.17	582.28	597.21	597.27	^{593.08}	515.78	509.34	496.47
Combined index (500 Stocks)	119.71 133.57	160.41 180.49	151.88 170.33	157.71 176.78	164.10 184.10	166.39 187.42	166.96 188.32	162.42 183.16	167.16 188.61	167.65 189.00	165.23 185.86	164.36 185.18	166.39 187.50	$157.25 \\ 177.14$	$157.44 \\ 177.85$	157.60 178.57
Capital goods (105 Stocks) do Consumer goods (191 Stocks) do	. 119.98 109.37	171.62 150.77	159.04 144.43	163.82 149.93	173.34 154.90	177.89 156.13	180.42 157.69	176.42 150.32	182.89 155.43	183.09 160.20	178.25 158.41	179.19 154.82	179.05 156.39	164.27 145.88	173.64 144.55	173.91 143.77
Utilities (40 Stocks) do Transportation (20 Stocks) \diamond	54.78 100.00	28.88	62.13 134.83	62.95 139.00	64.88 147.81	64.14 151.37	65.06 152.55	64.85 145.72	66.00 157.79	69.10 158.30	68.95 160.49	66.95 159.52	68.50 156.11	66.25 138.50	65.25 137.88	64.34 135.43
Railroads (6 Stocks) 1941-43 = 10 Financial (40 Stocks)	74.82 14.30		95.45 18.60	100.90 20.00	109.37 20.56	110.91 20.15	113.04 19.5 6	112.03 18.75	121.86 18.91	120.37 18.29	119.43 18.10	116.19 18.16	112.90 18.35	102.29 17.28	103.41 17.13	103.58 16.99
NewYorkCity banks(6 Stocks) 1941-43=10 Banks outside N.Y.C. (10 Stocks) do Property-Casualty Insurance (5 Stocks) do	54.76 95.87 143.01		70.91 107.22 186.26	78.18 115.35 190.90	79.16 122.92 188.29	73.22 121.77 186.32	69.77 120.07 181.67	68.75 119.44 175.69	68.47 118.31 186.65	63.28 111.76 185.44	64.57 108.15 183.20	65.97 111.52 184.38	69.65 114.51 182.86	69.51 108.81 181.06	66.38 103.67 189.54	63.02 98.94 195.70
New York Stock Exchange common stock indexes: Composite	68.93	92.63	87.50	90.61	94.61	96.43	96.74	93.96	96.70	96.78	95.36	94.92	96.16	90.60	90.66	90.67
Industrial do Transportation do	78.18 60.41	89.36	100.61 83.28	104.46 85.26	109.43 89.07	112.52 92.22	113.21 92.91	109.50 88.06	112.76 94.56	112.87 95.41	110.77 97.68	110.65 98.79	112.16 97.98	105.44 86.33	105.92 86.10	106.56 83.61
Utilitydo Financedo	. 39.74 71.99	47.00 95.34	45.89 93.22	46.22 99.07	47.62 102.45	46.76 101.22	46.61 99.60	46.94 95.76	48.16 97.00	48.73 94.79	48.50 94.48	47.00 94.25	47.43 95.79	45.67 89.95	44.83 89.50	43.86 88.22
Yields (Standard & Poor's Corp.): Composite (500 stocks)	5.81	4.40	4.59	4.44	4.27	4.26	4.21	4.35	4.24	4.25	4.31	4.32	4.27	4.59	4.63 4.02	
Industrials (400 stocks) do Utilities (40 stocks) do Transportation (20 stocks) do	5.48 10.39 4.32	4.04 9.24 2.85	4.26 9.52 3.04	4.12 9.40 2.98	3.96 9.12 2.81	3.93 9.30 2.83	3.88 9.15 2.77	4.01 9.20 2.88	3.91 9.11 2.65	3.91 8.75 2.64	3.93 8.80 2.60	3.75 9.41 2.61	3.71 9.25 2.68	4.00 9.58 3.12	4.02 9.79 3.07	
Financial (40 stocks) do	5.92	4.79	4.75	4.45	4.33	4.47	4.65	4.75	4.72	4.90	4.98	5.00	4.98	5.31	5.32	•••••
Preferred stocks, 10 high-grade do Sales:	12.53	11.02	10.86	10.80	10.65	10.81	11.06	11.07	11.06	10.97	11.12	11.49	11.35	11.16	11.39	11.66
Total on all registered exchanges (SEC): Market value mil. \$ Shore exclusion	596,670	957,118	81,315	75,498	88,346	93,847	76,494	79,553	80,476	81,970	80,021	84,384	85,744	90,740	82,499	
Shares sold millions On New York Stock Exchange: Market value mil. \$	22,414 514,263	30,147 815,113	2,681 70,121	2,431 63,156	2,825 75,317	2,857 79.973	2,319 64,858	2,633 68,306	2,399 68,440	2,446 69.341	2,327 68,166	2,638 71,813	2,619 72,721	2,863 79,282	2,549 71,378	······
Shares sold (cleared or settled) millions New York Stock Exchange:	18,211	24,253	2,183	1,930	2,246	2,264	1,837	2,191	1,946	1,965	1,883	2,131	2,129	2,412	2,100	
Exclusive of odd-lot and stopped stock sales (sales effected) millions	16,458	21,590	1,902	1,793	1, 9 53	1,974	1,590	1,706	1,740	1,794	1,815	1,849	2,216	1,933	1,855	1,717
Shares listed, N.Y. Stock Exchange, end of period: Market value, all listed shares bil. \$ Number of shares listed millions	1,305.36 39,516	1,584.16 45,118	1,431.63 40,468	1,545.81 41,090	1,547.13 41,508	1,604.02 42,321	1,562.40 43,382	1,571.38 43,763	1,591.43 43,888	1,563.58 44,276	1,605.56 44,920	1,584.16 45,118	1,576.88 45,723	1,508.23 46,825	1,525.56 46,938	1,534.73 47,287
<u> </u>	F	OREIC									,		,			L
VALUE OF EXPORTS														-		
Exports (mdse.), incl. reexports, total @ mil. \$	1	200,537.7	18,329.9	16,712.0	16,234.6	17,557.7	15,895.1	15,639.7	16,845.3	17,250.8	16,817.1	17,509.9	17,165.5	17,014.9	19,607.8	••••
Excl. Dept. of Defense shipments do Seasonally adjusted do	212,193.1	200,485.8	18,327.5 16,690.3	16,707.5 16,094.8	16,228.5 15,655.4	17,555.3 16,959.0		15,638.7 16,582.4	16,844.0 17,256.7	17,244.4 17,032.8	16,812.2 17,063.2	17,501.4 17,297.6	17,161.0 18,326.1	17,014.0 17,212.5	19,606.7 17,727.2	
By geographic regions: Africa do	10,271.1	8,767.7	879.7	. 793.6	683.3	808.2	652.1	685.9	812.2	593.7	623.0	805.3	712.3			
Asia do Australia and Oceania do	64,822.2 5,699.7	63,813.4 4,826.5	5,521.8 381.7	5,264.5 376.5	4,801.1 350.7	5,933.8 553.0	5,608.5 407.8	4,864.3 449.9	5,437.7 399.3	5,428.7 429.9	5,390.1 408.0	5,657.0 372.4	5,083.3 473.6			•••••••••
Europe do Northern North America do	63,664.2 33,723.6		5,927.2 3,556.0	5,066.5 3,223.2	4,902.5 3,440.9	4,582.7 3,329.3	4,298.6 2,634.5	4,383.8 3,031.9	4,467.9 3,422.0	5,022.5 3,516.7	4,824.3 3,437.8	5,115.5 3,305.5	5,232.3 3,477.9			·····
Southern North America do South America do	18,332.1 15,256.5	15,204.8 10,520.0	1,272.4 791.0	1,164.2 783.1	1,308.4 714.8	1,323.2 974.6	1,280.7 988.3	1,419.9 787.1	1,342.3 907.9	1,362.5 873.4	1,257.2 856.1	1,229.1 1,004.3	1,363.4 811.6			
By leading countries: Africa:																
Egypt do Republic of South Africa do	2,875.4 2,368.2	2,812.8 2,129.4	281.2 167.4	268.5 240.0	192.0 243.1	296.3 152.2	234.8 144.1	206.3 161.7	270.8 193.5	173.7 173.4	184.4 205.2	205.5 187.3				
Asia; Australia and Oceania: Australia, including New Guinea	4,600.7		329.6	327.3	287.4	483.0	340.9	362.9	330.7	351.7	344.5	304.5				
Japan do						1,935.5			1,948.4		2,095.1		1,853.5			

See footnotes at end of tables.

May 1984

SURVEY OF CURRENT BUSINESS

nless otherwise stated in footnotes below, data	1982	1983					196	83						19	84	
nrough 1982 and methodological notes are as hown in BUSINESS STATISTICS: 1982	Anr	nual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Ар
FC	REIG	N TR	ADE	OF T	HE U	INITI	ED SI	ГАТЕ	S—C	ontin	ued					
VALUE OF EXPORTS-Continued																
xports (mdse.), incl. reexports-Continued																
Europe: France mil \$. German Democratic Republic (formerly	7,110.4	5,961.3	686.9	524.2	502.3	483.7	412.4	395.9	439.5	497.9	424.6	483.5	549.1			
E. Germany) mil. \$	222.8	139.0	20.2	25.2	8.2	4.3	1.3	0.6	10.3	13.3	22.0	13.4	13.5			
Federal Republic of Germany (formerly W. Germany) mil. \$	9,291.3	8,736.7	790.0	768.2	743.9	699.8	745.2	698.6	681.5	746.6	740.2	727.9	816.5			
Italy do Union of Soviet Socialist Republics do	4,616.1 2,587.3	3,907.5 2,002.9	386.0 179.3	353.2 219.5	369.4 42.9	299.3 88.7	264.4 44.3	273.7 66.2	258.1 68.5	$308.3 \\ 247.6$	297.5 250.8	331.1 308.8	379.9 189.4	·		
United Kingdom do	10,644.7	10,621.2		962.0	963.6	793.3	793.2	841.5	810.6	999.5	823.9	866.5	870.9			
North and South America: Canada do	33,720.2	38,244.1	3,555.8	3,223.2	3,440.8	3,329.3	2,634.5	3,031. 9	3,421.8	3,516.7	3,437.7	3,305.3	3,477.8			
Latin American republics, total # do Brazil do	30,086.3 - 3,422.7	22,618.4 2,557.1	1,776.7 185.4	1,705.7 198.8	1,785.6 183.9	2,040.6 286.8	1,976.6 294.2	1,932.4 179.2	1,953.5 200.5	1,960.1 196.4	1,876.0 205.6	1,994.9 236.0	1,937.4 187.5			
Mexico	11,816.9	9,081.6 2,811.3	746.7 199.5	681.2 - 134.8	825.9 160.9	802.3 227.8	761.7 222.0	881.2 174.0	775.8 200.7	788.4 225.2	755.9 242.6	723.7 368.6	846.2 230.8			
xports of U.S. merchandise, total § do	207,157.6	195,969.4	17,913.0	16,360.7	15,854.5	17,201.1	15.566.9	15.252.0	16,480.2	16,798.4	16,418.2	17,107.0	16,686.6			
Excluding military grant-aid do Agricultural products, total do Nonagricultural products, total	207,076.2 36,622.6	36,107.7	3,188.1	16,356.2 2,981.1	15,848.4 2,679.9	17,198.6 2,789.0	15,565.9 2,595.7	2,613.5	16,478.9 2,973.1	16,791.9 3,175.5	16,413.3 3,479.5	17,098.6 3,499.2	3,546.5			
Nonagricultural products, total do By commodity groups and principal	170,535.0	159,861.6	14,724.9	13,379.6	13,174.6	14,412.1	12,971.2	12,638.5	13,507.1	13,622.9	12,938.7	13,607.8	13,140.1		•••••	
commodities: Food and live animals # mil. \$	23,950.4	24,166.0	2,098.2	1,904.2	1,769.0	1.910.6	1,865.9	1,854.3	2,122.9	2,158.8	2,242.6	2,182.0	2,159.0	1,938.9	2.239.1	
Beverages and tobacco	3,026.2 19,248.4	2,813.0 18,596.0	227.1	213.4 1.645.4	199.3 1,495.7	231.3 1,527.2	193.4 1,342.2	215.7 1,478.7	207.4 1,491.4	266.5 1,548.6	375.7 1,608.8	288.1 1,813.1	198.5 1,867.1	231.4 1,836.4	238.0 2,075.5	1
Mineral fuels, lubricants, etc. #	12,728.8 1,540.9	9,499.9 1,459.0	843.6 114.9	872.6 156.7	759.4 129.3	816.3 84.9	652.6 127.0	837.5 111.7	821.0 157.0	777.0	680.6 120.7	751.8 137.4	582.4 168.9	502.2 170.3	790.1 237.6	
Chemicals do	19,890.5	19,750.8	1,704.1	1.586.5	1,557.7	1,820.0	1,620.8	1,742.0	1,609.8	1,754.5	1,592.4	1,706.2	1,759.7	1,708.8	1,863.8	
Manufactured goods # do Machinery and transport equipment,	16,738.6	14,851.7	1,332.7	1,315.5	1,269.6	1,226.7	1,173.9	1,235.3	1,250.7	1,277.5	1,273.8	1,194.8	1,248.0	1,203.7	1,364.3	
total	87,128.1 59,324.2 27,823.9	82,563.2 54,308.5	8,041.1 4,920.0 3,121.8	6,794.1 4,513.6	6,865.3 4,514.8	7,812.8	6,626.6 4,554.0	6,006.6 4,238.3 1,768.7	6,792.3 4,646.0	7,035.3	6,749.0 4,579.4 2,170.4	7,259.6	6,806.3 4,714.7 2,092.2	6,997.4 	8,041.7	
Transport equipment, total do Motor vehicles and parts do	13,906.8	28,269.3 14,462.8	1,349.1	2,281.2 1,288.1	2,353.5 1,370.4	3,255.1 1,246.4	2,703.4 959.0	1,049.5	2,146.5 1,250.6	2,109.6 1,377.5	1,314.6	2,649.0 1,222.9	1,315.5			
VALUE OF IMPORTS	1010 054 0															
eneral imports, total do Seasonally adjusted do	1243,951.9	258,047.8	20,311.2 19,527.5	19,807.8 19,913.6	21,932.9 21,446.2	21,763.0 20,915.8	21,583.9 21,827.7	23,058.6 22,714.1	21,736.3 22,451.4	25,130.2 24,332.8	23,304.7 23,114.7	21,677.6 22,975.7	26,496.8 26,586.1	25,117.8 26,147.1	27,731.3 26,770.9	
By geographic regions: Africa do	¹ 17,770.1	14,424.6	874.4	95 0.0	1,232.7	1,342.5	1.519.9	1,546.6	1,413.7	1,258.7	1,190.0	958.3	1,086.8			
Asia	¹ 85,169.5 ¹ 3,130.5	91,463.5 3,043.5		6,278.3 221.4	7,005.4 239.7	7,679.3 262.5	1,519.9 7,776.7 256.5	8,622.0 303.1	7,669.8 271.0	9,703.4 286.0	8,896.8 238.9	7,950.5 275.2	9,829.5 247.0	••••••		
Europe do	153,412.7	55,243.0	4,434.4	4,602.4	4,815.4	4,662.4	4,692.3	5,080.8	4,391.2	5,040.3	4,739.1	4,359.5	1.1			
Northern North America do Southern North America do South America do	¹ 46,497.7 ¹ 23,525.0 ¹ 14,444.1	55,149.6 25,731.0 15,991.9	4,534.4 2,032.6 1,252.2	4,227.8 2,131.3 1,396.6	4,529.7 2,577.6 1,532.4	4,691.1 1,965.0 1,160.2	3,937.4 2,046.6 1,354.5	4,057.8 2,135.5 1,312.7	4,322.3 2,175.4 1,492.8	4,673.8 2,612.2 1,555.8	4,737.5 2,226.7 1,275.5	4,816.1 2,039.1 1,278.8	5,219.8 2,279.6 1 803 8			
By leading countries:	14,444.1	10,001.0	1,202.2	1,000.0	1,002.4	1,100.2	1,004.0	1,012.7	1,402.0	1,000.0	1,210.0	1,210.0	1,000.0			
Africa: Egypt do	1547.2	302.7	16.3	4.0	4.5	17.8	37.4	20.5	33.4	23.6	16.5	15.9	35.0			
Republic of South Africa do Asia; Australia and Oceania:	¹ 1,966.8	2,027.3	162.8	263.5	183.8	169.0	144.4	154.1	185.3	166.6	205.0	87.8	202.4			
Australia, including New Guinea mil. \$ Japan	¹ 2,304.6 137 743 7		169.7 3,440.2	147.6 3,080.2	164.1 3,461.1	175.4 3,283.8	168.6 3,557.5	223.1 3,633.8	201.4 2,975.7	233.8 4,070.7	184.5 4,025.7	225.2 3,807.0	197.1 4.613.8			
Europe:																
France	15,545.3	6,025.0	471.9	492.8	517.9	497.0	469.6	500.6	514.6	571.9	456.1	427.5	787.3			
E. Germany) mil. \$ Federal Republic of Germany (formerly W. Germany) mil. \$	¹ 53.9 11,974.8	58.1 12,695.3	5.3 1,064.5	5.3 1,044.6	3.4 1,011.7	3.5	4.6 1,044.4	5.5 1,126.9	3.2 887.6	5.1 1,215.6	7.2 1.222.9	3.9 1,086.3	8.4 1,629.1			
Italy	^{11,974.8} ^{15,301.4} ^{1227.6}	5,455.3 346.5	460.6 20.0	1,044.6 448.9 25.2	428.4 16.4	1,114.2 455.3 16.5	494.5 7.8	541.7 72.1	442.1 51.7	451.1 36.6	448.6 28.4	445.6 23.9	1,629.1 551.5 28.8		••••••	
United Kingdom do	13,094.8	12,469.6	897.8	922.1	1,227.8	1,032.3	1,129.7	1,318.0	1,106.6	1,122.5	1,005.5	911.2	1,174.2			
North and South America: Canada do	¹ 46,476.9	52,129.7	4,531.7	4,227.1	4,528.2	4,688.8	3,937.0	4,055.4	4,320.1	4,671.5	4,737.2	4,813.3	5,219.1		·	
Latin American republics, total # do Brazil do	¹ 32,512.6 ¹ 4,285.3	35,682.9 4,946.1	2,801.1 331.6	3,001.9 383.6	3,538.0 421.8	2,744.5 351.7	2,895.2 395.7	3,032.0 439.8	3,111.6 443.8	3,422.2 553.1	2,956.6 432.5	2,886.5 425.8	3,492.3 592.1	·····		
Mexico	¹ 15,565.9 ¹ 4,767.7	16,776.1 4,938.1	1,328.8 428.0	1,345.7 424.9	1,695.5 508.1	1,363.7 310.4	1,295.0 428.9	1,491.4 358.0	1,382.8 456.0	1,573.6 493.6	1,438.9 385.9	1,379.9 386.9	1,368.1 501.7		·	
By commodity groups and principal		.,														
commodities: Agricultural products, total mil. \$	115,421.7	16,534.1	1,379.5	1,489.6		1,261.4	1,264.2	1,248.5	1,272.1	1,521.5	1,371.4	1,350.4	1,684.7			
Nonagricultural products, total do Food and live animals # do	¹ 228,530.2 ¹ 14,452.7	241,513.7 15,411.7	18,931.7 1,300.1	18,318.1 1,309.2	20,400.2 1,450.0	20,501.6 1,191.3	20,319.7 1,226.2	21,810.1 1,202.5	20,464.2 1,230.8	23,608.6 1,411.3	21,933.3 1,254.4	20,327.3 1,291.5	24,812.1 1,471.3	1,488.7	 1,606.0	
Beverages and tobacco	¹ 3,364.0 ¹ 8,589.4	3,407.6 9,590.1	257.7 767.5	283.4 711.7	261.9 860.1	298.9 868.7	259.5 803.8	277.9 850.8	235.1 837.9	335.4 907.3	310.2 893.0	299.0 767.3	288.0 856.6	284.4 966.1	259.4 919.4	
Mineral fuels, lubricants, etc do	¹ 65,409,2	57,952.2	3,864.9	3,763.1	5,033.2	4,767.3	5,164.0	5,703.1	5,571.3	5,871.6	4,950.7	4,417.1	5,089.2	5,006.2	5,323.0	
Petroleum and products	¹ 59,396.4 ¹ 405.8 ¹ 9,493.5	495.0	3,260.6 32.0	3,287.5 30.1 896.7	4,655.4 32.0	4,333.4 35.9 838.2	4,802.3 39.6 827.0	5,359.6 47.1	5,239.3 43.5 845.0	5,483.0 46.9	4,592.6 63.6	3,869.2 55.9	4,492.0 82.9	45.4	57.7	
Chemicals do Manufactured goods # do	133.148.4	34.833.1	1,011.0 2,805.4	896.7 2,877.8	927.6 3,047.5	838.2 2,936.8	827.0 2,875.6	886.7 3,268.4	845.0 3,024.8	1,020.8 3,300.8	944.8 3,107.5	854.6 2,849.1	1,027.3 3,773.3	1,047.5 3,796.6	1,215.0 3,876.9	
Machinery and transport equipment	¹ 73,319.6 139,456.8	86,131.1	7,050.1	6,731.5 3,635.5	7,288.3	7,364.4 3,954.4	7,061.9 4.079.6	7,134.3 4,005.9	6,436.1 3,840.2	8,414.5 4,841.6	8,448.2 4,695.4	8,123.8 4,249.7	9,881.4 5,373.1	8,237.3		
Transport equipment	133,862.8	39.156.2		3,096.0	3,532.6 3,252.7	3,410.0	2,982.3 2,689.6	3,128.5	2,595.9 2,322.5	3,572.9	3,752.8 3,466.5	3,874.1	4,508.4			

	1982	1983					19	83						19	R4	
Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as shown in BUSINESS STATISTICS: 1982		nual	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
		~ .							•		_	Det.	• an.	Teb.	Mai .	
F(JREIG	IN TR	ADE	OF 1	HEU	INITI	ED SI			ontin	uea					r
Indexes																
Exports (U.S. mdse., excl. military grant-aid): Unit value	152.5 115.1 175.6	107.8	"154.2 118.2 182.3	154.8 107.5 166.5	152.6 105.7 161.3	153.7 113.9 175.0	155.0 102.2 158.4	154.0 100.8 155.2	154.9 108.3 167.7	156.6 109.1 170.9	156.5 106.7 167.0	155.8 111.7 174.0	157.4 107.8 169.8	158.1 106.8 168.8	157.0 123.8 194.3	
General imports: Unit value do Quantity	167.5 99.9	110.3	162.2 103.1	160.7 101.5	158.9 113.7	160.2 111.9	158.7 112.0	160.8 118.1	160.9 111.2	160.7 128.8	161.0 119.2	162.7 109.7	162.6 134.2	161.5 128.1	163.7 139.5	
Value do Shipping Weight and Value	167.4	177.1	167.3	163.1	180.6	179.2	177.7	189.9	179.0	206.9	191.9	178.5	218.2	206.8	228.4	
Waterborne trade: Exports (incl. reexports): Shipping weight thous. sh. tons	400,896	361,408	30,532	30,409	28,757	31,256	27,814	29,478	31,028	30,520	30,222	31,864				
Value mil. \$ General imports: Shipping weight thous. sh. tons	115,885 1376,232		8,758 23.412	8,644 25,526	7,829	8,345 31,134	8,051 32.434	8,130 35,406	8,377 35,595	8,524 38.810	8,519 32,237	8,891 28,263				
Value mil. \$	¹ 155,513	155,312	11,616	11,161	13,323	12,924	13,354	14,324	13,237	15,641	14,195	12,567				
	TF	ANSI	PORT	'ATIC	DN Al	ND C	OMM	IUNI	CATI	ON						
TRANSPORTATION																
Air Carriers (Scheduled Service) Certificated route carriers:										i						
Passenger-miles (revenue) passenger-load factor percent Ton-miles (revenue), total	259.64 59.0 32,850	60.7	24.87 67.6 3,119	21.88 60.3 2,777	22.95 59.1 2,895	25.90 65.1 3,213	26.66 63.4 3,293	27.31 64.6 3,366	21.60 57.3 2,812	22.49 59.0 2,945	20.83 56.7 2,784	"22.51 56.9 "2,965	21.49 53.7 2,732	20.14 53.8 2,619		
Operating revenues (quarterly) # § mil. \$ Passenger revenues do	36,013 30,326		8,422 7,122			9,570 8,178	·····		10,560 9,014							
Cargo revenues do Mail revenues do	2,404 705		559 162			612 161			666 153							
Operating expenses (quarterly) § do Net income after taxes (quarterly) § do	36,715 -870		9,074 700			9,465 24		·····	9,942 351		·				·····	
Domestic operations: Passenger-miles (revenue)	210.15 3,039 1,004	² 222.57 ² 3,383 1.064	21.25 288 94	18.04 263 88	18.41 275 82	20.44 289 85	20.44 279 81	20.97 295 84	16.41 292 82	17.75 309 88	17.29 311 91	'18.42 297 129	17.42 262 90	513.34 271 90	⁵ 16.17	⁵ 15
Operating revenues (quarterly) § mil. \$ Operating expenses (quarterly) § do Net income after taxes (quarterly) §	28,730 29,466 690	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6,898 7,567 -674			7,673 7,728 –81			8,231 7,907 99							
International operations: Passenger-miles (revenue) bil. Cargo ton-miles	49.43 2,430 399		3.62 217 33	3.84 206 32	4.54 210 34	5.46 217 32	6.21 235 32	6.34 224 32	5.19 247 31	4.74 263 35	3.74 259 41	4.09 234 54	4.07 196 34	3.40 212 32		
Operating revenues (quarterly) § mil. \$ Operating expenses (quarterly) § do	6,435 6,454		1,431 1,428			1,804 1,655			2,206 1,935						·····	
Net income after taxes (quarterly) § do Urban Transit Systems	-192		-31			100			234						••••••	
assengers carried, totalmil Motor Carriers	7,714	7,859	716	656	664	661	593	658	653	687	672	658	647	660	725	
Carriers of property, large, class I, qtrly.:	100		100			100			100			100				
Operating revenues, total	² 15,404		3,610			4,029	•••••		4,254			4,489		······		
charges and credits	'81 282		32 36			121 41	••••••		113 43			87 44			••••••	
reight carried—volume indexes, class I and II intercity truck tonnage (ATA); Common carriers of general freight, seas. adj	128.9	138.3	127.5	130.5		135.7	151.0		139.6	139.0	139.5	141.4	144.4	139.7	₽142.7	
Class I Railroads ‡	140.0	100.0	121.0	100.0	100.0	100.1	101.0	100.0	105.0	100.0	100.0	141.4	144.4	100.1	142.1	
Yinancial operations, qtrly. (AAR), excl. Amtrak: Operating revenues, total # mil. \$ Freight do Description do	r27,093 r25,615 r373	26,726 25,829	6,487 6,171			6,584 6,750	•••••		6,808 6,579			6,937 6,703				
Passenger, excl. Amtrak	-373 r27,094 r805 1,192	107 26,726 1,296 1,217	75 6,126 256 173		·····	77 6,346 247 255			26 6,319 399 371			27 `6,396 385 430	······		······	
raffic:	797.8															
Revenue ton-miles, qtrly. (AAR) bil Price index for railroad freight	351.4	826.2 355.8	196.1 355.3	355.3	355.4	203.9 355.4	355.6	355.6	210.8 355.6	357.1	357.1	215.3 357.2	370.7	370.7	223.0 371.0	46 37
odging industry: Restaurant sales indexsame month 1967=100	196 61.71	202	201	198	218	220	212	200	203	223	202	204				
Hotels: Average room sale ◊ dollars Rooms occupied	61.71 63 41.16	64.51 64 42.30	62.23 68 43.33	67.24 68 43.49	62.94 66 42.17	64.45 68 43.53	61.63 62 44.24	63.25 68 42.74	68.16 64 42.09	68.50 72 41.55	64.39 64 41.89	64.01 50 40.52			·····	
Rooms occupied *	41.16 64 24.96 64	42.30 66 28.69 65	43.33 71 29.18 65	43.45 69 24.56 63	42.17 68 24.81 64	43.33 72 30.03 72	44.24 72 31.38 78	42.74 74 31.16 76	42.09 64 28.17 69	41.55 67 29.47 65	41.85 62 32.34 63	40.32 50 32.47 51				
oreign travel: U.S. citizens: Arrivals (quarterly)thous	² 9,388 ² 10,275		*2,217 *2,273			*2,987 r2 297			4,073	41,079						
Departures (quarterly) do Aliens: Arrivals (quarterly) do Departures (quarterly) do	^{210,275} ^{210,909} ^{29,047}		*2,273 *2,120 *1,611		·····	"3,387 "2,232 "1,889			3,833 2,595 2,257	⁴943 ⁴643 ⁴612	·····					
Passports issued do	3,664	4,152	458	474	392	490	340	344	260	222	219	255	272	372	471	P
lational parks, recreation visits # # do ee footnotes at end of tables.	48,901	49,328	1,687	2,260	3,832	6,418	9,776	9,058	6,078	4,454	2,104	1,115	1	۱	1	۱

	st	JRVE	Y OF	CUR	RENI	r BUS	SINES	SS							S-19
1982															
Anr	nual	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
ANSF	PORTA	ATIO	N AN	D CO	MM	JNIC	ATIO	N—C	ontin	ued					
73,808 31,678 28,099 51,269 11,951 157.8	78,092 33,090 30,325 53,095 12,797 134.4	6,628 2,735 4,704 3,929 1,420 155.4	6,485 2,760 2,331 4,299 1,139 154.5	6,498 2,760 2,358 4,378 1,094 153.4	6,542 2,775 2,352 4,443 1,043 146.8	6,504 2,750 2,311 4,325 1,123 144.6	6,558 2,725 2,498 4,332 1,158 142.5	6,569 2,754 2,318 4,137 1,195 140.6	6,673 2,802 2,352 4,651 1,038 138.6	6,560 2,780 2,301 4,716 948 136.5	6,660 2,757 2,369 5,647 488 134.4				
678.7 86.8 607.7 495.2		59.4 10.9 54.8 43.8	57.9 8.4 49.9 43.6	59.6 9.2 52.3 44.3	60.9 9.9 53.9 44.1	60.6 5.8 40.8 43.5	63.5 8.2 50.3 43.8	60.4 8.6 50.2 43.8	63.2 6.2 52.5 44.7	66.2 4.9 53.4 44.9			•		
00.7									0.0	5.5					
]
							(
1 154	1.144	109	07	100	107	077	117	101	00	01	100	(1)			
9,176 2,460 361	9,960 2,608 366	812 222 32	810 188 30	848 198 31	806 226 30	872 220 27	883 235 30	862 240 32	862 228 34	857 225 34	803 207 30	796 257 31			
664 864	732 855	61 76	57 70	74 76	65 62	57 63	58 70	76 74	77 71	52 73	58 66	59 66	······		
651 657	669 757	53 61	68	50 59	53 65	60 62	62 62	56 68	59 67	60 63	55 67	53 60			
¹ 8,614 4,202	¹ 8,156 3,218	677 3,866	645 3,760	672 3,692	646 3,717	678 3,721	685 3,658	690 3,560	714 3,493	737 3,369	761 3,218	741 3,172	729 3,141		
15,776 7,091 1,769 7,390	13,683 6,618 1,968 7,373	1,264 647 165 712	1,182 607 160 650	1,140 581 177 626	1,011 506 161 551	975 420 170 505	1,096 391 161 479	1,137 461 167 584	1,213 604 184 690	1,238 648 175 702	1,245 597 160 649	1,293 592 162 643			······
2,728 8,262 32,680	³ 2,403 9,950 34,725	²235 922 3,142	²228 895 2,983	242 754 2,757	°179 650 2,451	³ 149 731 2,551	³192 800 2,729	³ 205 832 2,910	³226 924 3,120	*237 934 3,211	*213 952 3,383	³ 217 853 3,106			
13,139 892	15,774 844	1,478 688	1,402 820	1,237 1,069	1,086 1,023	1,125 1,017	1,251 812	1,329 658	1,439 582	1,501 641	1,463 844	1,388 867			
20,337 2,645	22,832 1,982	1,937 182	1,933 219	1,568 161	1,983 247	1,787 148	1,892 134	2,113 167	638 1,815 157 1,206	1,894 178 1,185	1,651 137	2,344 186	1,553 45	2,096 150	
1,218	804	63	48	33	93	48	97	93	44	54	78	92	79	71	
262 319 7,154 131	347 285 7,875 97	34 35 860 9	44 33 765 23	39 18 679 16	12 16 403 22	22 4 396 7	15 29 717 8	38 11 629 3	28 17 840 6	46 14 710 0	26 40 742 4	34 60 706 21	53 19 790 24	41 955	
3,828 88,884 483,886 348,548	3,304 103,859 579,574 347,394	248 8,098 48,951 29,052	265 8,251 48,540 28,659	311 8,173 49,831 28,668	253 8,209 47,344 28,014	248 8,522 49,131 29,451	297 7,758 49,986 29,424	298 8,864 47,755 30,781	292 10,523 48,795 30,657	315 10,149 48,347 29,512	312 9,445 49,703 28,009	297 9,715 51,369 31,331			
100 /													~ -	(
¹ 23.4 136.3 1235.4 14,816.5	175.6 1206.0 15,398.0	2.7 5.6 27.7 470.2	2.7 6.2 10.6 490.5	2.4 6.8 15.0 461.5	2.2 7.9 15.2 442.9	2.5 5.7 14.2 415.0	2.4 6.8 15.0 437.3	1.9 6.6 15.6 462.6	3.2 6.9 15.1 498.8	2.6 6.1 16.7 453.1	2.2 7.7 16.3 462.6	2.6 6.0 15.6 ¹ 422.1	2.7 7.2 16.3 '469 .0	7.3 14.6	
229.5 11,137.7 1684.4	265.4 1997.5 1851.3	22.1 76.3 72.7	16.4 90.4 71.7	21.1 93.4 69.7	26.1 91.8 80.3	19.9 97.5 69.5	20.2 77.9 63.5	23.4 94.0 64.1	24.6 74.7 59.9	24.1 80.1 58.9	20.9 60.3 70.1	26.2 *86.6 73.3	25.4 ^{119.1} 70.1	104.5	
					6 0 C	60 6		-							
601.1 "95.0	677.3 78.6	59.4 69.8	46.0 58.3	56.5 58.8	60.2 50.9	63.8 60.1	56.9 42.7	59.2 49.3	54.9 55.7	53.1 70.9	48.0 78.6	49.3 73.5			
r284.9 r277.9 r41.9 r6.6	352.8 355.5 55.2 6.5	30.0 23.5 1.4 19.1	28.2 30.6 5.5 11.9	33.7 36.1 7.8 8.8	30.4 32.5 0.3 7.7	31.2 32.3 6.5 4.7	27.6 32.5 6.7 8.4	23.2 24.4 2.9 6.3	26.1 29.3 1.3 7.5	27.2 23.9 1.4 10.3	23.4 26.2 2.3 6.5	29.5 29.7 7.2 11.3			
	Amr Amr 73,808 31,678 28,079 51,269 11,57.8 809.3 678.7 86.8 607.7 495.2 83.7 1,154 9,786 664 8611 9,385 664 8611 4,202 15,776 7,091 1,5776 7,390 2,728 8,922 5,186 20,337 2,645 11,977 1,218 20,337 2,645 11,977 1,218 20,337 2,645 11,977 1,218 2,625 1,137 1,328 2,644 2,225 1,1377 1,218 2,217 2,214 2,	1982 1983 Annual Annual ANSPORTA 73,808 78,092 31,678 33,090 31,678 33,092 51,289 53,095 51,289 53,095 51,289 53,095 51,289 53,095 12,797 134.4 809.3 678.7 86.8	1982 1983 Annual Mar. ANSPORTATION ANSPORTATION ANSPORTATION ANSPORTATION Ans. Ans. <td>1982 1983 Annual Mar. Apr. ANNSPORTATION AN 73,808 78,092 6,628 6,445 31,678 33,090 2,735 2,780 28,099 30,325 4,704 2,331 51,269 53,096 3,929 4,299 12,797 1,420 1,139 154.5 809.3 74.9 69.9 57.9 86.8 10.9 8.4 35 607.7 54.8 49.9 495.2 43.8 43.6 83.7 3.960 812 810 2,460 2,608 222 188 3,61 3,666 32 30 9,385 10,230 840 850 6657 757 61 68 46,514 8,156 677 645 4,202 3,218 3,666 3,760 15,776 13,683 1,264 1,82 <</td> <td>1982 1983 Annual Mar. Apr. May ANSPORTATION Apr. May ANSPORTATION AND CC 73,808 78,092 6,628 6,485 6,498 31,678 33,090 2,735 2,760 2,760 51,269 53,095 3,929 4,239 4,378 11,951 12,797 1,420 1,139 1,034 809-3 </td> <td>1982 1983 Annual Mar. Apr. May June ANSPORTATION AND COMMINATION (Comparing the second stress of the second stresecond stress of the second stress of the second stre</td> <td>1982 1983 June July Annual Mar. Apr. May June July ANSPORTATION AND COMMUNIC Annual Annual</td> <td>1982 1983 U U May Juny July Ang. ANSPORTATION AND COMMUNICATION Ang. Ang.<</td> <td>Annul Mar. Apr. May June July Aug. Sept. ANSPORTATION AND COMMUNICATION Aug. 5,255 5,256 5,255 <t< td=""><td>1962 1963 U U 1974 Apr. Mar. Jun. Jun. Jun. Aug. Sept. Oct. ANUS CT Anus Jun. Jun. Jun. Aug. Sept. Oct. ANUS CT Anus CT CT Sept. Sept. Sept. Oct. ANUS State State<</td><td>1982 1983 June June June June June June May June June May June Sup Oct Nor. ANJUAT ANJUAT ANJUAT Ange Sup Oct Nor. ANJUAT ANJUAT ANJUAT Ange Sup <td< td=""><td>1982 1983 U U May June June June June Spyth Oct Nov. Dec. A.NULL Mar. Apr. May June June June Spyth Oct Nov. Dec. A.NULL TAME State State</td><td>1983 1983 U U Juny Juny Juny Juny Juny Sept. Oct. Nov. Dec. Jan. ANULU Mar. Apr. May Juny Juny Juny Sept. Oct. Nov. Dec. Jan. ANULU ANULU ANULU ANULU State State</td><td>1982 1985 <t< td=""><td>1982 1983 USA USA Max Apr. May Juar July Aug Sept. Oct. Nov. Dec. Jun. Pab. Max. ANSPORTATION AND COMMUNICATION Continued Continued Score Score</td></t<></td></td<></td></t<></td>	1982 1983 Annual Mar. Apr. ANNSPORTATION AN 73,808 78,092 6,628 6,445 31,678 33,090 2,735 2,780 28,099 30,325 4,704 2,331 51,269 53,096 3,929 4,299 12,797 1,420 1,139 154.5 809.3 74.9 69.9 57.9 86.8 10.9 8.4 35 607.7 54.8 49.9 495.2 43.8 43.6 83.7 3.960 812 810 2,460 2,608 222 188 3,61 3,666 32 30 9,385 10,230 840 850 6657 757 61 68 46,514 8,156 677 645 4,202 3,218 3,666 3,760 15,776 13,683 1,264 1,82 <	1982 1983 Annual Mar. Apr. May ANSPORTATION Apr. May ANSPORTATION AND CC 73,808 78,092 6,628 6,485 6,498 31,678 33,090 2,735 2,760 2,760 51,269 53,095 3,929 4,239 4,378 11,951 12,797 1,420 1,139 1,034 809-3	1982 1983 Annual Mar. Apr. May June ANSPORTATION AND COMMINATION (Comparing the second stress of the second stresecond stress of the second stress of the second stre	1982 1983 June July Annual Mar. Apr. May June July ANSPORTATION AND COMMUNIC Annual Annual	1982 1983 U U May Juny July Ang. ANSPORTATION AND COMMUNICATION Ang. Ang.<	Annul Mar. Apr. May June July Aug. Sept. ANSPORTATION AND COMMUNICATION Aug. 5,255 5,256 5,255 <t< td=""><td>1962 1963 U U 1974 Apr. Mar. Jun. Jun. Jun. Aug. Sept. Oct. ANUS CT Anus Jun. Jun. Jun. Aug. Sept. Oct. ANUS CT Anus CT CT Sept. Sept. Sept. Oct. ANUS State State<</td><td>1982 1983 June June June June June June May June June May June Sup Oct Nor. ANJUAT ANJUAT ANJUAT Ange Sup Oct Nor. ANJUAT ANJUAT ANJUAT Ange Sup <td< td=""><td>1982 1983 U U May June June June June Spyth Oct Nov. Dec. A.NULL Mar. Apr. May June June June Spyth Oct Nov. Dec. A.NULL TAME State State</td><td>1983 1983 U U Juny Juny Juny Juny Juny Sept. Oct. Nov. Dec. Jan. ANULU Mar. Apr. May Juny Juny Juny Sept. Oct. Nov. Dec. Jan. ANULU ANULU ANULU ANULU State State</td><td>1982 1985 <t< td=""><td>1982 1983 USA USA Max Apr. May Juar July Aug Sept. Oct. Nov. Dec. Jun. Pab. Max. ANSPORTATION AND COMMUNICATION Continued Continued Score Score</td></t<></td></td<></td></t<>	1962 1963 U U 1974 Apr. Mar. Jun. Jun. Jun. Aug. Sept. Oct. ANUS CT Anus Jun. Jun. Jun. Aug. Sept. Oct. ANUS CT Anus CT CT Sept. Sept. Sept. Oct. ANUS State State<	1982 1983 June June June June June June May June June May June Sup Oct Nor. ANJUAT ANJUAT ANJUAT Ange Sup Oct Nor. ANJUAT ANJUAT ANJUAT Ange Sup Sup <td< td=""><td>1982 1983 U U May June June June June Spyth Oct Nov. Dec. A.NULL Mar. Apr. May June June June Spyth Oct Nov. Dec. A.NULL TAME State State</td><td>1983 1983 U U Juny Juny Juny Juny Juny Sept. Oct. Nov. Dec. Jan. ANULU Mar. Apr. May Juny Juny Juny Sept. Oct. Nov. Dec. Jan. ANULU ANULU ANULU ANULU State State</td><td>1982 1985 <t< td=""><td>1982 1983 USA USA Max Apr. May Juar July Aug Sept. Oct. Nov. Dec. Jun. Pab. Max. ANSPORTATION AND COMMUNICATION Continued Continued Score Score</td></t<></td></td<>	1982 1983 U U May June June June June Spyth Oct Nov. Dec. A.NULL Mar. Apr. May June June June Spyth Oct Nov. Dec. A.NULL TAME State State	1983 1983 U U Juny Juny Juny Juny Juny Sept. Oct. Nov. Dec. Jan. ANULU Mar. Apr. May Juny Juny Juny Sept. Oct. Nov. Dec. Jan. ANULU ANULU ANULU ANULU State State	1982 1985 <t< td=""><td>1982 1983 USA USA Max Apr. May Juar July Aug Sept. Oct. Nov. Dec. Jun. Pab. Max. ANSPORTATION AND COMMUNICATION Continued Continued Score Score</td></t<>	1982 1983 USA USA Max Apr. May Juar July Aug Sept. Oct. Nov. Dec. Jun. Pab. Max. ANSPORTATION AND COMMUNICATION Continued Continued Score Score

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SURVEY OF CURRENT BUSINESS

May 1	984
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less otherwise stated in factness below, data 1982 1983 1983													1004							
inless otherwise stated in footnotes below, data arough 1982 and methodological notes are as hown in BUSINESS STATISTICS: 1982	»[1983											1984 Jan. Feb. Mar. 4							
			Mar.	Apr.	May	June		Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Ap				
	CHE					JPR			-Cont	inue		5								
PLASTICS AND RESIN MATERIALS																				
Phenolic resins	. 1,397.7	¹ 1,404.5 13,837.5	115.0	112.2	112.6	119.7	105.1	124.7	123.0 1,208.1	132.8	118.0	137.4	"123.2 "1.194.2	128.5	132.4					
Polypropylene do	3,515.0	4,452.3	1,137.1 345.8	1,139.1 337.8	1,157.0 363.0	1,143.3 386.3	376.1	1,136.7	409.9	1,257.1 407.8	1,194.4 388.9	1,088.6 366.2	388.1	1,194.1 413.4	1,321.5					
Polystyrene and copolymers do Polyvinyl chloride and copolymers do	¹ 5,608.6 ¹ 5,397.2	¹ 5,542.1 ¹ 5,626.5	489.6 543.5	459.5 478.1	463.3 513.2	469.4 535.3	433.7 492.7	432.3 454.8	464.4 487.5	492.7 483.8	495.9 441.1	445.6 354.9	r473.9 r498.8	"498.4 "576.8	512.8 640.7					
MISCELLANEOUS PRODUCTS													i							
xplosives (industrial), shipments, quarterly mil. lb.	. 2,514.9	r2,229.3	487.5			537.5			589.8			^{-614.6}			668.8					
Paints, varnish, and lacquer, shipments: Total shipments mil. \$		8,553.3	722.8	744.8	802.4	893.5	763.4	831.2	783.8	718.8	632.4	551.6	674.6							
Architectural coatings do	. 3,113.4	3,846.5	342.8	346.1	380.3	454.8	367.1	392.8	344.4	292.7	232.6	204.9	256.4							
Product finishes (OEM) do Special purpose coatings do		3,003.7 1,703.1	247.8 132.2	254.5 144.3	269.8 152.3	280.4 158.2	244.3 152.0	272.0 166.3	275.1 164.3	276.5 149.5	258.4 141.4	225.2 121.6	283.4 134.8							
	-]	ELEC	TRIC	POV	VER	AND	GAS												
ELECTRIC POWER																				
roduction: Electric utilities, totalmil. kwhr.	2.241.211	2,310,285	182,488	170,372	174,392	191.048	220,165	229,957	195,604	182,931	182,949	212,319	216,450	189,498						
By fuels do By waterpower do	. 1,931,998	1,978,154	152,185	140,384	143,198 31,194	160,356 30,692	192.052	204,130 25,828	173,892	162,184 20,747	158,270 24,678	180,628	186,710 29,738	161,597						
ales to ultimate customers, total (Edison Electric		,		_0,000	,			_0,020			,,,,,	, -, 1	,	,						
Institute) ‡mil. kwhr. Commercial § do			526,540 125,226			501,648 123.083			603,471 153,091					······						
Industrial § do	. 770,670		187,908			199,884			208,702											
Railways and railroads do Residential or domestic do	. 4,288 729,240		1,191 193,729			953 160,273			1,092 221,583											
Street and highway lighting do	. 14,188		3,752			3,170			3,335											
Other public authorities	. 55,729 . 5,390		13,524 1,211			12,999 1,286			13,955 1,713											
evenue from sales to ultimate customers (Edison Electric Institute) ‡ mil. \$.	. 121,127	·····	30,803			29,515		•••••	38,274					•••••						
GAS †																				
otal utility gas, quarterly (American Gas Association):																				
Customers, end of period, totalthous.	1	48,940	48,918						47,915					•••••						
Residential do Commercial do		45,040 3,670	44,996 3,689			44,905 3,679			44,154 3,532			45,040 3,670								
Industrial do Other do		183 46	184 48			183 47			183 46	•••••		183 46		••••••						
Sales to customers, total tril. Btu.	. 14,280	¹ 12,673	4,319			2,694			2,252			3,428								
Residential do	. 14,770	14,495	1,906			931			384			1,258								
Commercial do Industrial do	16,892	2,344 15,688	925 1,418			483 1,249		·····	287 1,559	·····		648 1,481	•••••	·····						
Other do		¹ 145	69			31			22			40				····				
Revenue from sales to customers, total mil. \$. Residential do		¹ 64,095 ¹ 26,145	22,572 10,752			13,897 5,560			10,799 2,615			17,049 7,198								
Commercial dododo.	. 11,666	12,691	4,996			2,683	<i>.</i>	·····	1,568 6,521			3,417 6,236								
Other	¹ 635	1702	6,475 348			5,511 143		·····	1 ·			0,230 198								
	FO	OD A	ND K	IND	RED	PROI	DUCT	S; T(OBAC	CO										
ALCOHOLIC BEVERAGES																				
eer: Productionmil. bbl.		192.14	16.78	15.54	18.17	18.47	18.50	18.27	15.71	15.30	13.62	12.46	14.15	14.75						
Taxable withdrawals do Stocks, end of period do	176.57 13.22	177.61 13.26	15.07 16.05	15.49 16.21	16.84 15.84	17.01 15.82	16.85 15.73	17.35 14.98	14.84 14.53	13.77 14.30	13.17 13.92	11.98 13.26	12.42 13.70	12.63 14.17						
Distilled spirits (total):	100.00	110.41	10.00	11.00	11.10	0.00	F AG		10.05	10.00	0.05	0.55	10.00							
Production mil. tax gal. Consumption, apparent, for beverage		119.41	12.89	11.82	11.19	9.23	5.62	6.24	10.27	12.28	9.27	8.55 E0.4E	10.36							
purposes	"604.67	551.47	36.27 606.81 7.24	33.72 609.20 6.56	34.06 605.58 7.09	38.65 604.56 15.46	31.96 566.89 6.48	33.80 587.02 8.51		34.34 580.93 15.03	43.13 569.00 10.97	50.45 551.47 11.77	30.54 576.46 7.20	9.46	7.58					
Whisky: Production mil. tax gal.	. 91.25		9.39	8.73	7.47	6.20	3.51	3.72	4.76	4.02	5.26	5.38	6.21							
Stocks, end of period do Imports mil. proof gal.	. 533.39		535.38 4.95	537.72 4.43	533.41 4.83	535.11 12.20	500.07 4.12	524.63 6.11		511.58 11.26	497.23 7.33	480.38 8.66	505.69 4.84	6.84	4.65					
Vines and distilling materials:			1.00		2.00							0.00		0.01	2.00					
Effervescent wines: Productionmil. wine gal.	31.01	¹ 37.10	2.27	3.23	2.84	3.15	3.26	3.47	4.33	3.79	2.81	2.89	1.46							
Taxable withdrawals do Stocks, end of period do	. 29.18	32.51 16.11	2.28 15.14	1.14 17.18	3.67 16.81	1.78 17.08	1.39 19.64	2.74 20.14	2.85 21.58	6.08 19.00	3.56 17.64	4.56 16.11	1.25 16.95							
Imports		11.11	0.62	0.77	0.72	0.80	0.74	0.69	0.84	1.21	1.48	1.72	1.36	0.80	0.81					
Still wines: Production do	. 550.47	*429.29	5.58	5.45	6.10	6.83	4.33	26.78	172.21	139.57	35.65	13.17	6.66							
Taxable withdrawals do	. 362.78	¹ 365.20	33.06	32.56	31.54	33.67	28.26	28.12	29.88	32.32	34.07	30.13	25.90		•••••					
Stocks, end of period do Imports do	. 697.52 . 113.79	686.47 119.83	620.77 8.41	583.98 8.58	554.34 9.35	511.61 10.87	487.30 9.68	467.11 9.49	595.40 9.72	683.05 10.97	666.15 11.36	686.47 11.20	619.08 11.29	7.93	9.02					
Distilling materials produced at wineries do	. 190.27	174.89	9.87	7.62	7.26	4.44	7.86	14.33	45.11	40.91	14.10	5.92		i						

SURVEY OF CURRENT BUSINESS

May 1984		50	JRVE		COR	REN'I	BUS	SINES	<u> </u>		_					5-2
Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as	1982	1983				1984										
shown in BUSINESS STATISTICS: 1982	Anr	nual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
FO	OD A	ND KI	NDR	ED P	ROD	UCTS	5; TO	BACO	C O(Conti	nued					
DAIRY PRODUCTS																
Butter, creamery: Production (factory) mil lb	1.257.0	r1.299.2	r123.6	r124.0	r120.7	*103.7	¹ 91.4	^r 84.6	*84 .7	r100.5	-98.1	r109.6	126.0	113.0	111.1	
Production (factory)mil. lb Stocks, cold storage, end of perioddo	466.8	499.4	529.0	555.7	576.1	589.6	588.4	581.8	552.3	523.9	506.7	499.4	510.6	532.5	529.3	53
Producer Price Index, Grade A and AA (N.Y.) * 1967=100.	230.9	230.0	229.9		229.9	229.9	22 9 .9	230.5	234.1	232.2	232.2	222.1	222.1	222.4	224.0	
Cheese: Production (factory), totalmil. lb	۲ 4,541 .7	*4,818.4	*425.3	r413.1	439.4	⁻ 444.7	402.1	⁷ 381.3	•373.0	'391.9	r388.2	*415.4	387.4	369.1	412.9	
American, whole milk do	2,752.3	12,927.6	259.4	^{110.1}	1284.7	¹ 286.2	260.8	*228.8	*209.4	*222.6	r217.8	"236.8	231.1	221.4	247.6	
Stocks, cold storage, end of period do American, whole milk do	963.5 880.8	1,204.6 1,099.7	1,117.9 1,018.0	1,132.3 1,031.8	1,138.1 1,032.9	1,162.4 1,048.9	1,194.2 1,083.0	1,231.4 1,124.0	1,248.2 1,140.9	1,234.8 1,131.1	1,214.8 1,110.6	1,204.6 1,099.7	1,202.2 1,096.8	1,219.8 1,116.4	1,217.4 1,117.3	1,17 1,07
Imports do Price, wholesale, cheddar, single daisies	269.3	286.2	22.6	22.1	22.8	16.6	20.1	21.1	24.3	25.8	27.5	41.4	22.1	16.7	19.2	
(Chicago) \$ per lb	1.684	1.682	1.666	1.666	1.675	1.684	1.684	1.684	1.691	1.699	1.699	1.684	1.689	1.689	1.689	1.0
Condensed and evaporated milk: Production, case goods,mil. lb	734.9	*694.2	¹ 55.4	"6 0.5	562.6	*66 .2	58.4	^r 56.4	¹ 52.3	¹ 53.2	r60.2	r63.2	48.8	44.6	51.2	
Stocks, manufacturers', case goods, end of period do	51.9	46.7	48.4	60.7	74.6	75.7	94.0	101.5	94.1	82.0	56.0	46.7	47.1	50.0	52.8	
Exports do	19.3	5.6	0.4	0.4	0.5	0.3	0.4	0.5	0.5	0.7	0.9	0.7	0.8	0.5	0.6	
luid milk: Production on farms do	135,802	139,968	12,049	11,966	12,642	12,273	12,061	11,692	11,262	11,430	11,000	11,395	11,490	10.905	11,741	11,6
Utilization in mfd. dairy products	79,098 13.60	82,501 13.60	7,409 13.60	7,293 13.60	7,672 13.30	7,788 13.20	7,160 13.20	6,762 13.30	6,374 13.50	6,321	6.127	6,435	6,583 13.60	^{10,505} ^{16,413} 13.40	6,971 13.20	
Dry milk: Production:																
Dry whole milkmil. lb Nonfat dry milk (human food) do	102.2 "1,400.5	'111.2 '1,499.9	10.5 133.9	י9.2 י139.2	^{19.4} 153.6	8.8 *154.2	7.8° 143.4	9.3 	^{-79.4} r102.1	'10.2 '102.7	*10.5 *99.4	9.9 ⁻ 1111.1	10.4 111.9	9.2 105.0	11.3 109.2	
Stocks, manufacturers', end of period: Dry whole milk do	6.0	6.4	5.0	5.0	5.4	5.8	5.9	4.9	4.4	4.4	4.6	6.4	5.7	5.4	5.8	·
Nonfat dry milk (human food) do	93.3	74.6	81.4	89.5	99.0	91.7	99.2	85.8	69.7	67.9	63.1	74.6	66.0	62.8	58.9	
Exports, whole and nonfat (human food) do Price, manufacturers' average selling, nonfat dry	187.8	321.6	27.9	23.6	22.9	33.0	19.0	22.9	47.3	36.4	35.6	30.6	29.1	13.1	8.8	••••••
milk (human food) \$ per lb GRAIN AND GRAIN PRODUCTS	'0.936	0.938	0.942	0.943	0.941	0.940	0.93 9	0.940	0.936	0.937	0.937	0.919	0.912	0.910	0.911	•••••
exports (barley, corn, oats, rye, wheat) mil. bu	3,524.8	r3,440.2	310.9	279.8	254.5	275.1	248.9	220.3	"285.7	286.6	310.5	320.4	300.9	277.6	313.3	
arley: Production (crop estimate) do	²522.4	²519.0														
Stocks (domestic), end of period, total	418.1 293.9	375.7 253.1	296.7 198.5		4222.8 4142.9				516.0 344.4			375.7 253.1			273.5 173.8	
Off farms do	124.2 66.4	122.6 71.6	98.2 3.7		479.9	 2.0	 1.3	6.0	171.6 14.2			122.6 15.6	 7.8	6.0	99.7 11.2	
Producer Price Index, No. 2 feed, Minneapolis *	162.6	180.9	145.2	170.7	162.2	169.9	165.6	195.4	223.0	225.1	229.3	199.6	216.6	216.6	223.4	23
orn:	20.050.4	24 000 0														
Production (crop estimate, grain only) mil. bu Stocks (domestic), end of period, total do On farms do	28,359.4 8,284.2	² 4,203.8 4,934.3	6,247.3		³ 4,962.3		·····	•••••	\$3,140.3			4,934.3			3,257.8	••••••
Off farms do	6,016.9 2,267.3	3,102.0 1,832.4	4,292.4 1,954.9		³ 3,133.3 ³ 1,829.1				⁵ 1,531.7 ⁵ 1,608.6			3,102.0 1,832.4			1,944.2 1,313.5	
Exports, including meal and flour do Producer Price Index, No. 2, Chicago * 1967=100	1,924.9 193.5	1,876.5 248.4	169.6 224.0	157.6 / 245.9	149.1 248.8	151.2 253.3	123.7 252.8	119.4 274.4	142.9 273.1	155.0 268.4	196.4 277.6	175.2 255.8	172.6 255.9	158.4 246.7	176.4 268.1	28
Dats:	2000 5	2477.0												1		
Production (crop estimate) mil. bu Stocks (domestic), end of period, total	2620.5 475.6				4230.2		······		505.3			378.4			269.4	
On farms do Off farms do	399.8 75.8	322.5 56.0	273.9 59.9		4191.5 438.6		·····	·····	426.2 79.1			322.5 56.0			226.9 42.5	
Exports, including oatmeal do Producer Price Index, No.2, Minneapolis *	5.8	r2.8	0.1	0.3	0.3	0.2	0.4	0.3	0.1	0.5	0.1	0.2	0.1	0.1	0.3	
1967=100	272.0	252.6	230.2	246.6	245.2	238.8	226.7	244.4	278.6	286.4	284.2	276.4	282.1	250.1	267.9	27
tice: Production (crop estimate)mil. bags #	²153.6	² 99.7														
California mills: Receipts, domestic, roughmil. lb	2,912	2,730	145	240	105	216	213	393	7300	451	183	154	296	87	243	2
Shipments from mills, milled rice do Stocks, rough and cleaned (cleaned basis), end	1,619	1,884	152	166	186	172	122	309	263	. 99	83	66	181	86	151	j
of periodmil. lb	503	478	385	381	268	351	246	269	7211	405	442	478	482	413	461	
Southern States mills (Ark., La., Tenn., Tex.): Receipts, rough, from producersmil. lb	11,482	9,143	526	357	325	216	135	951	2,332	1,340	732	930	829	488	522	
Shipments from mills, milled rice do Stocks, domestic, rough and cleaned (cleaned	7,020	6,289	668	495	529	672	458	450	535	489	516	504	498	548	562	
basis), end of periodmil. lb	3,170	2,703	2,684	2,451	1,757	1,276	952	1,146	2,162	2,569	2,573	2,703	2,776	2,592	2,418	
Exports	5,516	5,151	490	446	438	550	360	488	624	460	378	359	299	220	462	
west Louisiana) \$ per lb ye:	0.166	0.172	0.165	0.165	0.170	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.175	0.1
Production (crop estimate) mil. bu Stocks (domestic), end of period do	² 21.0 10.9	²28.2 °6.3			 *6 .3		••••••		(⁸)							
Producer Price Index, No.2.	293.2		197.6	910.5	210.5	193.3	105 5	210.5	233.7			914.8	213.1	210.5	914.9	
Minneapolis * 1967=100 Vheat:	4 3 3.2	210.7	191.0	210.5	210.9	193.3	195.5	410.5	400.1	214.8	440.4	214.8	213.1	210.0	214.8	22
Production (crop estimate), total mil. bu Spring wheat do	² 2,812 ² 700	² 2,425 ² 432														
Winter wheat do Distribution, quarterly @	² 2,112 2,476	°1,994 2,626	646			*337			*1,001			642				101,9
Stocks (domestic), end of period, total do	2,476	2,626	040 1,877.1		41,540.7	-337	••••••		2,966.1			042 2,326.4			1,752.8	••••••
On farms	1,166.2 1,354.5	1,015.9 1,310.5	886.4 990.7		4694.9 4845.8				1,248.8 1,717.3			1,015.9 1,310.5			771.5 981.3	
Exports, total, including flour	1,554.5	1,310.3	137.4		102.7	121.8	123.5		1,717.3		104.9	1,310.5	120.2	113.1	125.3	
Wheat only do	1,493.6	1,407.6								114.8	102.3	128.4			118.7	

May	1984

	1982	1983					198	33						34			
Unless otherwise stated in footnotes below, data hrough 1982 and methodological notes are as hown in BUSINESS STATISTICS: 1982	Ann		Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
FO	OD Al							_									
					<u>nop</u>		, 10	DAU									
GRAIN AND GRAIN PRODUCTS—Continued Wheat—Continued Producer Price Indexes: *																	
Hard, winter Ord, No.1, Kans. City 1967=100 Spring, No. 1, D.N. Ord, Minneapolis 1967=100	240.8 221.5	237.2 228.3	249.0 221.9	253.6 237.4	245.1 239.2	238.0 228.7	221.4 224.8	227.9 220.7	238.5 236.4	231.5 238.4	228.8 235.8	229.2 232.7	229.8 230.2	219.2 222.3	229.1 231.9	236. 236.	
Vheat flour: Production:															201.0	200.	
Flour thous. sacks (100 lb.) Millfeed thous. sh. tons Grindings of wheat	284,965 5,137 640,158	306,066 5,563 686,983	26,787 488 59,111	24,118 438 53,866	25,759 460 58,064	25,088 449 56,734	24,700 445 55,238	28,861 536 65,014	27,423 502 61,869	26,125 474 58,366	24,923 456 56,246	24,464 443 54,997	24,861 444 55,854	······		••••••	
thous. sacks (100 lb.) Exportsdo Producer Price Index *	4,276 14,518	3,805 34,628 	3,760 2,692	4,256	3,193	3,490 4,172 100.0	3,293 99.9	3,095 99.6	3,599 3,621 100.0	3,469 98.4	1,122 96.6	3,805 395 "96.1	830 96.3		2,846 97.1	99	
POULTRY AND EGGS oultry: Slaughtermil. lb	15,146	15,547	1,349	1,275	1,329	1,409	1,247	1,435	1,357	1,368	1,266	1,172	1,208	^{1,168}	1,261		
Stocks, cold storage (frozen), end of period, total mil. lb Durkeys	345 204	281 162	326 185	333 192	345 210	406 256	480 323	532 384	578 432	601 460	376 252	281 162	277 161	251 146	260 149	26 14	
Price, in Georgia producing area, live broilers \$ per lb ggs: Production on farms mil. cases \$ Stocks, cold storage, end of period:	0.250 193.6	*0.270 189.2	۰0.240 16.5	"0.235 15.6	0.255 15.9	0.270 15.4	0.295 15.7	*0.305 15.7	*0.305 15.3	°0.280 15.8	"0.325 15.5	0.335 16.0	0.360 15.8	0.365 14.8	0.365 16.1	0.34 15	
Shell thous. cases § Frozen	34 25	13 12	18 23	23 22	32 21	44 21	24 20	25 19	25 16	45 14	18 13	13 12	28 11	17 11	'36 12	10	
Price, wholesale, large (delivered; Chicago) \$ per doz LIVESTOCK	0.668	0.727	0.662	0.649	0.684	0.680	0.662	0.744	0.762	0.779	0.884	0.986	1.123	1.026	0.883	1.01	
attle and calves: Slaughter (federally inspected): Calves	2,729 33,907	2,798 34,816	246 2,828	202 2.615	194 2,820	211 3,000	214 2,737	262 3,220	258 3,156	259 3,099	266 2,899	262 2,994	253 2,951	236 2,836	264 2,954		
Prices, wholesale: Beef steers (Omaha)\$ per 100 lb Steers, stocker and feeder (Kansas City) do	64.22 62.79	62.52 61.39	64.03 66.71	67.70 65.90	67.51 63.88	65.90 60.41	62.22 58.21	61.27 59.58	59.19 55.81	59.58 56.97	59.41 58.12	62.85 61.00	67.08 64.39	67.07 65.97	68.60 66.30	67. 64.	
Calves, vealers (So. St. Paul) do logs: Slaughter (federally inspected) thous. animals Prices:	77.70 79,328	72.97 84,762	75.50 7,350	77.12 7,086	76.00 6,905	71.00 7,028	75.00 6,362	75.00 7,082	73.38 7,268	66.75 7,829	67.50 8,152	67.50 7,515	64.94 6,947	77.50 6,591	77.50 7,578		
Wholesale, average, all weights (Sioux City) \$ per 100 lb Hog-corn price ratio (bu. of corn equal in value	55.21	47.73	51.37	47.84	47.40	45.73	45.81	49.77	46.05	41.64	38.81	46.53	50.14	46.68	47.36	48.	
to 100 lb. live hog) heep and lambs: Slaughter (federally inspected) thous. animals	22.4 6,273	16.6 6,412	18.6 616	16.0 509	15.1 508	14.4 508	13.9 497	13.9 585	13.3 595	12.8 580	11.8 510	14.0 536	15.3 540	14.6 548	-14.3 586	14	
Price, wholesale, lambs, average (Omaha) ‡ \$ per 100 lb MEATS	53.03	54.74	59.75	58.75	59.00	53.00	51.12	49.25	48.50	51.75	56.00	57.75	60.50	58.75	58.75	60.	
otal meats (excluding lard): Production	37,266 554 1,566	38,974 679 1,449	3,269 586 136	3,051 608 133	3,163 619 115	3,299 595 118	3,002 570 121	3,440 543 99	3,435 535 130	3,523 577 127	3,472 668 134	3,383 679 119	3,218 693 112	3,092 708 104	3,349 ⁷⁷³⁸ 134	7	
Imports (meat and meat preparations)	2,015 22,789	2,031 23,487	170 1,929	178 1,759	187 1,891	176 2,004	189 1,840	181 2,157	171 2,128	169 2,103	123 1,974	104 2,002	180 1,952	167 1,894	171 1 ,97 7		
Stocks, cold storage, end of period do Exports do Imports do	302 540 1,446	334 571 1,382	306 55 112	285 46 123	272 40 131	261 44 122	259 46 134	275 42 128	277 58 117	287 53 112	325 59 71	334 43 54	349 50 118	343 47 108	[†] 336 67 107	3:	
Price, wholesale, beef, fresh, steer carcasses, choice (600-700 lbs.) (Central U.S.) \$ per lb amb and mutton:	1.013	0.978	1.006	1.078	1.050	1.024	0.977	0.950	0.921	0.912	0.916	0.998	1.057	1.029	1.051	1.03	
Production, totalmil. lb Stocks, cold storage, end of period do ork (excluding lard):	356 9	368 11	36 8	30 8	30 9	29 9	28 8	33 9	33 9	32 9	29 10	30 11	31 8	32 8	35 8		
Production, total do do Stocks, cold storage, end of period do do Imports	14,121 219 282 498.	15,120 301 251 555	1,303 235 21 49	1,262 273 32 48	1,243 293 22 47	1,266 280 22 46	1,134 253 19 46	1,250 214 16 45	1,273 210 16 45	1,388 240 23 50	1,468 295 23 44	1,350 301 23 43	1,234 295 18 53	1,165 312 16 52	1,338 '351 18 56	3	
Prices: Producer Price Index, Hams, smoked 1967=100	306.3	291.9	315.2	290.1	281.5	275.5	269.2	273.2	280.7	283.0	284.7	r303.9	287.9	283.1	279.6	287	
Fresh loins, 8-14 lb. average, wholesale (N.Y.)	1.277	1.159	1.219	1.180	1.162	1.173	1.144	1.156	1.129	1.062	0.954	1.070	1.246	1.152	1.072	1.1	
ocoa (cacao) beans: Imports (incl. shells)thous. lg. tons Producer price, Accra (New York)	194.2 0.924	181.0 1.082	19.0 0.990	3.8 0.960	14.4 1.000	11.1 1.200	9.6 1.100	7.2 1.220	6.1 1.050	5.3 1.108	7.7 1.150	8.2 1.270	15.5 1.320	21.3 1.340	28.7 1.335	1.2	
2offee: Imports, totaldo	17,416 3,372 1.420	16,449 3,418 1.400	1,373 232 1.330	1,253 259 1.415	1,502 292 1.415	1,034 229 1.415	1,319 246 1.415	1,230 310 1.430	1,532 344 1.430	1,685 307 1.430	1,380 240 1.430	1,253 265 1.430	1,598 279 1.430	1,299 149 1.430	1,440 267 1.430		
Yish: Stocks, cold storage, end of periodmil. lb ee footnotes at end of tables.	383	425	298	286	292	318	367	417	421	417	415	425	406	368	r344	⊳3	

SURVEY OF CURRENT BUSINESS

May 1984		50	URVE	YOF	CUR	REN.	r BU	SINES	00							S-2
Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as	1982	1983					19	83						19	84	
shown in BUSINESS STATISTICS: 1982	Anı	nual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
]	FOOD	AND	KINI	DRED) PR(DDUC	C TS;	гова	CCO	Cor	nt.					
MISCELLANEOUS FOOD PRODUCTS-Cont.																
Sugar:	ļ															
Exports, raw and refinedsh. tons	58,512	207,871	1,308	1,236	984	11,555	10,506	45,455	55,973	29,866	16,605	31,825	28,400	33,940	30,094	
Imports, raw and refined thous. sh. tons	2,616	2,915	140	238	333	139	242	193	339	322	333	253	269	358	278	
Producer Price Indexes: *								4							1	
Raw (cane) 1967=100.	278.4	315.9	312.4	319.8	323.1	323.0	314.9	321.4	321.4	314.9	314.1	311.6	309.4	315.7	314.8	314.
Refined 12/77=100	161.0	172.0	168.5	171.9	171.8	172.8	173.8	173.0	175.1	175.1	173.9	173.8	173.8	173.4	174.2	174
Геа, importsthous. lb	182,613	170,451	14,170	15,799	16,018	10,931	12,159	11,747	15,025	16,531	13,600	15,631	15,599	15,956	20,235	
TOBACCO		ļ														1
Leaf:								1								
Production (crop estimate)mil. lb Stocks, dealers' and manufacturers',	. ^{r1} 1,994	r ¹ 1,429													•••••	
end of period do	5,371	5,358	5,290			4,990			5,209			5,358				
Exports, incl. scrap and stemsthous. lb.	562,260	509,828	45,958	43,953	33,631	32,728	28,635	36,045	26,430	51,706	87,912	60,302	41,984	40,165	43,329	
Imports, incl. scrap and stems do	295,740	316,917	23,013	29,965	24,428	22,307	28,582	27,161	21,462	35,975	37,916	22,646	29,786	43,619	40,005	
Manufactured:														1		
Consumption (withdrawals):	1															
Cigarettes (small):																
Tax-exempt millions Taxable do	82,078 614,017	69,680 597,463	5,590 54,360	4,260 47,466	5,828 47,854	7,411 60,448	4,678 42,985	5,980 54,516	6,294 52,532	5,743 49,628	5,603 53,075	5,374 43,212	5,243 49,948	4,790 44,583		
Cigars (large), taxable do	3,056	3,030	255	216	261	299	211	309	286	272	271	224	243	226		
Exports, cigarettes do	73,585	60,698	4,249	4,319	4,687	6,119	4,671	4,608	5,318	4,941	5,190	5,171	3,775	4,366	4,893	
	10,000	00,000							0,010		0,200	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 0,110	1,000	1,000	
			LEA'	THE	R AN	D PR	ODU	CTS								
LEATHER																
Exports:																
Upper and lining leather thous. sq. ft	159,804	155,808	15,078	15,200	13,492	14,868	12,013	13,099	12,715	14,027	12,400	9,412	13,624	13,015	17,787	•••••
Price, producer: Sole, bends, light index, 1967=100																
LEATHER MANUFACTURES																
Footwear:																
Production, total thous. pairs	4342,380	340, 9 66	31,470	27,001	29,9 70	28,472	22,528	30,372	29,835	29,051	27,736	24,943	26,873			····
Shoes, sandals, and play shoes, except athletic thous. pairs	1260,840	263,508	23,859	20,702	23,125	22,139	18,803	23,465	23,375	22,039	20,617	19,800	20,801	······		
Slippers	*64,892 *16,648	61,062 16,396	5,723 1,888	4,616 1,683	5,176 1,669	5,020 1,313	3,021 704	5,811 1,096	5,585 875	5,936 1,076	6,014 1,105	3,889 1,254	4,886 1,186			
Other footwear do	43,703	4,970	534	561	540	446	346	308	397	408	326	224	231			
Exports do	7,717	6,158	637	553	486	546	520	591	506	539	454	394	361	344	450	
Prices, producer:																
Men's leather upper, dress and casual index, 12/80=100	105.2	107.0	106.6	107.0	104.6	107.6	107.3	107.8	108.1	108.0	107.4	107.4	107.9	108.4	108.4	108.
Women's leather upper index, 1967=100	215.8	⁷ 222.3	220.4	224.3	224.6	222.6	221.8	222.2	224.8	224.6	224.3	220.0	224.8	221.3	223.1	219.
Women's plastic upper index, 12/80=100	97.9	'100.7	98.8	99.9	99.9	99.8	101.1	102.0	102.9	102.9	102.9	100.5	104.2	102.5	103.1	103.
			LUM	IBER	ANI) PR	ODU	CTS								
LUMBER—ALL TYPES #																
National Forest Products Association:																
Production, totalmil. bd. ft	°25,795	331,479	2,682	2,623	2,645	2,718	2,585	2,714	2,748	2,787	2,504	2,345	2,740	2,678		
Hardwoods	³ 4,774 21,021	^{\$5,721} 25,758	394 2,288	374 2,249	396 2,249	$\frac{444}{2,274}$	458 2,127	504 2,210	497 2,251	502 2,285	493 2,011	416 1,929	454 2,286	484 2,194		••••••
Shipments, total do	325,960	°31,358	2,632	2,683	2,775	2,764	2,537	2,669	2,737	2,795	2,404	2,445	2,589	2,603		
Hardwoods do Softwoods do	³ 4,935 21,025	^{\$5,896} 25,462	435 2,197	452 2,231	431 2,344	452 2,312	465 2,072	498 2,171	483 2,254	489 2,306	480 1,924	404 2,041	452 2,137	479 2,124		
Stocks (gross), mill, end of period, total do	5,745	5,866	5,997	5,924	5,824	5,772	5,817	5,858	5,870	5,862	5,964	5,866	6,021	6,097		
Hardwoods do	1,766	1,591	1,655	1,564	1,556	1,542	1,532	1,534	1,549	1,562	1,577	1,591	1,597	1,603		
Softwoods do	3,979	4,275	4,342	4,360	4,268	4,230	4,285	4,324	4,321	4,300	4,387	4,275	4,424	4,494		•••••
Exports, total sawmill products	9,421	12,293	1,055	885	1,153	1,099	1,048	1,090	1,057	1,118	1,092	885		1,135	1,108	
SOFTWOODS							,									
Douglas fir:	1									1						
Orders, newmil. bd. ft Orders, unfilled, end of period	5,976 612	7,571 673	656 698	635 684	714 692	675 648	584 636	543 567	717 639	642 625	529 599	688 673	740 753	631 762	848 815	
			698 697	682	692 693		613	583	671	625 676	599 581	673 552	753	762 666	815 819	•••••
Production do Shipments do	5,743 5,793	7,646 7,510	624	649	706	644 719	596	612	645	656	555	614	660	622	795	••••••
Stocks (gross), mill, end of period do	862	998	1,055	1,088	1,075	1,000	1,017	988	1,014	1,034	1,060	998	1,046	1,090	1,114	•••••
Exports, total sawmill products do Sawed timber do	471 125	569 129	51 16	60 17	63 16	50 10	34 9	54 14	35 7	48 11	46 5	43 8	38 10	44 9	57 13	
Boards, planks, scantlings, etc do	345	439	35	43	48	39	25	41	28	37	40	34	28	35	13 44	••••••
Producer Price Index, Douglas fir, dressed †																
1967=100	266.2	363.8	376.2	375.5	390.2	404.7	407.0	381.4	345.31	332.0	318.7	'324.7 	322.8	351.7	369.7	364.

See footnotes at end of tables.

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May	1984
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Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as	1982	1983					19	83						19	84	
shown in BUSINESS STATISTICS: 1982	Ann	ual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
		LUM	BER	AND	PRO	DUC	TS—	Conti	nued							
SOFTWOODS-Continued																
Southern pine: Orders, newmil. bd. ft	¹ 6,014	¹ 6,821	615	571	642	534	546	571 487	599	628	502 489	537	513	577		
Orders, unfilled, end of period do Production do	438 16,186	556 16,637	528 561	529 550	556 584	511 594	502 570	487 598	503 551	506 586	489 536	556 471	522 577	498 610		
Shipments do Stocks (gross), mill and concentration yards, end	¹ 5,996	¹ 6,703	573	570	615	579	555	586	583	625	519	470	547	601		
of periodmil. bd. ft	1,474	1,408	1,471	1,451	1,419	1,434	1,449	1,461	1,429	1,390	1,407	1,408	1,438	1,447		
Exports, total sawmill productsthous. bd. ft Producer Price Index, southern pine, dressed †	245,221	217,660	18,375	21,244	21,552	16,511	15,832	12,346	20,057	16,349	20,326	17,001	9,648	17,975	14,273	
1967 = 100	285.9	319.9	319.3	321.3	325.5	334.9	330.0	323.4	308.3	313.5	316.2	*328.2	333.7	337.4	334.3	334.
Western pine: Orders, newmil. bd. ft Orders, unfilled, end of period do	6,880 324	8,433 410	718 422	709 426	781 439	728 432	654 413	717 409	814 444	768 446	616 432	699 410	738 466	641 470	812 457	
Production do	6,681	8,548	710	713	722	767	705	784	789	764	666	691	724	655	873	
Shipments do Stocks (gross), mill, end of period do	6,775 1,055	8,347 1,256	685 1,153	705 1,161	768 1,115	735 1,147	673 1,179	721 1,242	779 1,252	766 1,250	630 1,286	721 1,256	682 1,298	637 1,316	825 1,364	
Producer Price Index, other softwood,	-									,						
dressed † 1967=100 HARDWOOD FLOORING	356.0	403.4	398.1	403.2	410.6	438.7	437.3	429.3	388.5	382.4	382.6	r394.2	393.9	417.2	425.2	416.
Oak: Orders, unfilled, end of periodmil. bd. ft	4.8	8.6	65	64	65	7.5	6.7		6.0	7.3	67	8.6	9.1	10.4	10.4	
Shipments do	4.8 75.0 12.0	98.9 5.5	6.5 8.7 8.4	6.4 8.5 7.3	6.5 8.4 6.4	9.0 6.6	6.7 7.1 5.4	6.8 8.9 5.3	8.8 4.9	9.0 4.8	6.7 8.1 4.7	0.0 7.3 5.5	8.6 3.9	9.4 3.7	9.5 3.7	8.
G, F			ETAI										0.0			I
IRON AND STEEL		141					FAC.									1
Exports:																
Steel mill products thous. sh. tons Scrap	1,842 6,804 54	1,199 7,520 6	89 563 1	106 564 1	101 688 (²)	100 805 2	108 562 1	100 624 (²)	99 720 1	110 575 1	114 671 (²)	84 751 (²)	86 620 (²)	73 663 2	80 683 22	
Imports: Steel mill products do	¹ 16,663	17,070	1,113	1,182	1,353	1,297	1,411	1,617	1,512	1,755	1,835	1,730	2,082	2,161	2,224	
Scrap do Pig iron do	474 322	641 233	78 1	58 1	63 25	71 39	58 3	42 5	44 18	49 40	62 14	52 74	53 49	60 55	61 45	
Iron and Steel Scrap Production thous. sh. tons	27,127	27,149	2,395	9 947	2,376	2,286	2,181	2,368	2,409	2,467	2,428	r2,247	' 2,442	2,452		
Receipts, net do Consumption do	¹ 27,520 ¹ 56,386	32,557 59,941	2,913 5,157	2,247 2,723 5,029	2,817 5,233	2,250 2,859 5,098	2,101 2,529 4,762	2,620 5,009	2,700 5,111	2,988 5,545	3,008 5,375	2,241 2,804 5,036	r3,128 r5,709	3,576 5,912		
Stocks, end of period do	6,418	5,838	6,117	5,969	5,905	5,920	6,000	6,042	6,062	5,837	5,944	r5,838	r5,647	5,768		
Prices, steel scrap, No. 1 heavy melting: Composite \$ per lg. ton Distribution of distance	61.51 66.71	67.24 76.92	70.50 79.00	68.64 77.00	60.00 67.50	66.21 72.50	67.03 74.50	70.21 79.50	73.13 83.50	72.69 82.50	63.64 85.00	78.56 91.50	84.68 98.00	89.89 103.00	88.81	87.3
Pittsburgh district do Ore	00.71	10.92	79.00	11.00	07.50	72.50	74.00	79.50	63.00	02.00	85.00	91.50	90.00	103.00	100.50	102.0
Iron ore (operations in all U.S. districts): Mine productionthous. lg. tons	¹ 35,433	37,967	2,314	3,165	3,991	4,260	4,034	4,034	3,189	3,207	2,729	2,611	3,145	4,303	l	
Shipments from mines	¹ 35,756 ¹ 14,501	44,748 13,090	477 206	2,876 567	5,323 1,245	5,592 1,411	5,986 1,556	5,542 1,448	4,002 1,035	4,749 1,934	5,131 1,374	4,053 1,531	1,142 600	1,251 811	418	
U.S. and foreign ores and ore agglomerates: Receipts at iron and steel plants do	49,872	57,197	1,268	3,852	6,729	6,992	7,346	6,209	5,462	6,265	6,244	5,509	^{1,159}	'1,556	1.841	
Consumption at iron and steel plants	55,233 3,178	61,220 3,471	5,201 (²)	5,406 304	5,560 616	5,267 345	5,449 313	5,272 516	5,171 474	5,667 218	5,242 1	5,125 682	5,517 155	5,670 113	6,391 46	
Stocks, total, end of period do	52,621 12,129	32,567 3,899	39,615 16,184	37,498 16,495	37,192 15,163	37,385 13.832	36,951 11,647	35,312 10.093	35,716 9,308	34,729 7,769	33,831 5,369	32,567 3,899	30,118 5,444	28,364 8,996		
At mines do At furnace yards do At U.S. docks	29,923 5,750	25,494 3,174	18,909 4,522	16,495 17,292 3,711	18,534 3,495	20,508 3,045	22,332 2,972	22,187 3,032	23,415 2,993	23,922 3,038	25,061 3,401	3,899 25,494 3,174	5,444 21,047 3,127	°,990 '16,857 2,511	12,238 1,654	
Manganese (mn. content), general imports do	477	482	37	20	38	45	50	28	46	56	39	35	39	63	34	
Pig Iron and Iron Products	:						i									
Pig iron: Production (including production of ferroalloys) thous. sh. tons	¹ 43,136	48,741	4,206	4,333	4,376	4,090	4,213	4,245	4,159	4,317	4,119	4,084	4,310	4,497	5,083	5,07
Consumption	¹ 44,409 580	¹ 49,213 459	4,260 4,260 627	4,336	4,480 637	4,214 589	4,311 599	4,273	4,256	4,336	4,128	4,033 459	4,349			
Producer Price Index, basic		100.1	100.5	99.4	100.5	99.7	99.7	100.3	100.3	98.1	99.9	99.9	100.5	100.5	100.2	1
Castings, gray and ductile iron: Orders, unfilled, for sale, end of period																
thous. sh. tons Shipments, total do	536 8,215	637 9,309	551 813	545 759	548 818	572 810	609 707	630 864 533	626 841	590 887	603 812	637 711		1,000		
For sale do Castings, malleable iron:	4,641	5,448	452	446	484	477	417	533	501	521	474	400	1,000	521		
Orders, unfilled, for sale, end of period thous. sh. tons	14	18	19	23	15	16	19	23	27	25	22	18				
Shipments, total do For sale do	284 119	293 92	27 9	24 8	25 9	24 7	19 5	23	26 9	27 9	22 27 10	27 9	30 12	29 12		

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	1982	1983												10	84	1
nless otherwise stated in footnotes below, data prough 1982 and methodological notes are as nown in BUSINESS STATISTICS: 1982	1982 Ann		Mar.	Apr.	Мау	June	July		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	4.5.5
				_				Aug.			1100.		Jan.		War.	Apr.
		ETAL				ACT	URES		ntinu							
Steel, Raw and Semifinished	. :															
Production	¹ 74,577 48.4	83,379 55.4	7,127 55.5	7,292 58.9	7,412 57.9	6,993 56.5	6,921 54.3	7,020 55.1	7,134 57.8	7,692 60.2	7,263 58.7	6,991 54.7	7,970 69.2	8,142 76.0		8,99 80.
eel castings: Orders, unfilled, for sale, end of period																
Shipments, total	161 1,017	142 727	165 62	152 57	157 63	159 62	156 52	145 60	143 62	144 67	142 67	142 67				
For sale, total do Steel Mill Products	916	667	56	50	63 57	57	48	56	58	65	64	61	84	80		
eel products, net shipments:	F0 700	107 181	* 0.00	- 000								0.000	- 000	0.150		
Total (all grades) By product: Semifinished products	59,783 3,408	¹ 67,454 3,899	5,969 297	5,399 298	5,612 327	5,986 360	5,045 296	5,789 307	5,893 378	6,078 365	6,014 358	6,269 374	5,980 349	6,150 402	7,239 463	••••••
Structural shapes (heavy), steel piling do Plates	3,403 3,424 4,136	13,448 3,832	206 341	240 305	271 304	307 326	256 280	268 320	326 338	306 362	338 366	320 381	343 352	335 378	408	
Rails and accessories do	782 9,440	883 111,666	81 1.078	78 892	70 980	70 996	67 828	82 1,047	86 1,016	74 1,146	83 1,018	87 1,009	108 -1,010	120 1,027	122 1,297	
Bars and tool steel, total	¹ 4,857 3,526	¹ 6,285 ¹ 4,138	588 422	446 350	526 355	522 371	402 340	563 381	571 337	623 405	569 331	578 320	585 299	620 276	697 445	
Bars: Cold finished do	1,013	1,197	94	92	96	100	83	99	104	114	113	106	121	125	147	•••••
Pipe and tubing	5,026 1,332 4,321	3,242 1,384 4,308	283 131 406	252 124 369	262 122 372	273 130 379	240 111 328	273 115 371	290 119 351	305 119 325	309 109 313	303 99 402	303 116 322	321 115 307	366 129 345	
Sheets and strip (incl. electrical), total	27,914 9,052	34,792 11,619	3,045 1,000	2,841 958	2,905 982	3,144 1,086	2,640 881	3,005 1,001	2,989 984	3,075 1,051	3,120 1,061	3,294 1,049	3,077 1,076	3,147 1,127	3,689 1,316	
Sheets: Cold rolled do By market (quarterly):	11,132	13,781	1,239	1,126	1,145	1,222	1,003	1,181	1,166	1,192	1,239	1,366	1,155	1,217	1,394	
Service centers and distributors	12,972 6,260	" ¹ 15,713 "6,276	3,539 1,370			3,915 1,644	·····		3,878 1,613			4,384 1,643			4,850 1,553	
Contractors' products	2,290 19,295	"2,587 12,087				659 3,024			628 3,004			660 3,598			663 3,223	
Rail transportation	1,030 2,582	*918 *2,320	203 538			245 594			558			258 638			311 728	
Containers, packaging, ship. materials do Other do	4,471 120,883	'4,532 '123,011	1,133 5,270		·····	1,183 5,732			1,136 5,671			1,105 6,092			1,049 6,793	·····
eel mill shapes and forms, inventories, end of period-total for the specified sectors:										, ,						
mil. sh. tons Producing mills, inventory, end of period:	22.4	23.4	21.9	22.3	23.3	23.2	23.8	24.2	24.0	24.5	24.2	23.4	23.9			•••••
Steel in process mil. sh. tons Finished steel do Service centers (warehouses), inventory, end of	8.1 5.3	7.1 5.7	7.8 5.2	7.8 5.4	8.0 5.6	7.8 5.5	8.0 5.7	8.0 5.8	7.9 5.8	8.2 6.0	7.6 6.2	7.1 5.7	7.1 5.8		•••••	······
period	4.7	5.7	4.8	4.7	5.1	5.1	5.3	5.4	5.4	5.5	5.6	5.7	5.8			•••••••
Inventory, end of period do Receipts during period do	4.3 53.4	4.9 46.6	4.1 4.9	4.4 4.7	4.6 4.6	4.7 4.5	4.8 3.8	5.0 -4.3	4.9 4.1	4.8 3.8	4.8 3.7	4.9 3.5	5.2 4.1			
Consumption during period do NONFERROUS METALS AND PRODUCTS	54.7	45.9	4.8	4.4	4.4	4.4	3.7	4.1	4.2	3.9	3.7	3.4	3.8			
luminum:																
Production, primary (dom. and foreign ores) thous. met. tons Recovery from scrap † do	3,274 1,666	3,353 1,690	248 142	245 140	265 139	261 144	284 131	297 142	299 143	320 151	318 151	340 148	342 135	324 141		
Imports (general):					1											
Metal and alloys, crude do Plates, sheets, bars, etc do	¹ 616.3 ¹¹ 176.4	714.9 *209.7	33.2 21.9	66.9 19.8	84.6 22.8	82.9 19.6	72.1 21.5	65.7 20.7	56.6 20.2	58.2 27.7	63.6 22.2	40.3 22.3	^г 70.9 ^г 33.3	r94.9 r41.3	114.3 49.7	
Exports: Metal and alloys, crude do	¹ 364.0 ¹ 189.6	360.7 166.6	14.0 18.7	46.4 14.4	8.2 12.3	14.9 12.7	37.1 12.2	33.2 13.2	41.5 14.4	27.4 15.0	50.8 14.3	24.1 14.8	r24.5 r20.2	'20.1 '21.5	19.9 21.8	
Plates, sheets, bars, etc do Price, primary ingot, 99.5% minimum \$ per lb	0.7600	0.7770	0.7600	0.7600	0.7600	0.7600	0.7600	0.7600	0.7898	0.8100	0.8100	0.8100	0.8100	0.8100	0.8100	0.810
luminum products: Shipments:								1	i		,					
Ingot and mill prod. (net ship.) mil lb Mill products, total do	12,128 "9,116	*13,856 *10,600	1,201 946	1,084 865	$1,235 \\ 1,003$	1,193 924	1,100 878	1,263 890	1,264 875	1,154 881	1,174 877	'1,291 '938 593	1,186 928	1,340 934		
Sheet and plate do Castings	5,329 1,306	6,355 1,496	547 135	503 117	622 133	573 136	552 104	522 123	'518 128	510 134	519 140	593 129	548 	549 		
Inventories, total (ingot, mill products, and scrap), end of periodmil. lb	6,200	*5,009	5,892	5,744	5,579	5,439	5,472	5,375	5,258	5,296	5,208	¹ 5,009	5,176	5,237		
ppper: Production:								i								
Mine, recoverable copper thous. met. tons Refinery, primary do	1,139.6 1,227.1	1,045.7 1,182.4	89.9 114.8	85.3 107.6	92.8 109.1	90.4 116.2	76.9 80.0	80.0 83.7	87.3 88.3	90.3 93.9	94.4 96.0	89.7 94.7	91.4 95.3	86.3 99.9		
From domestic ores do From foreign ores do	1,064.8 1162.2	1,003.7 178.8	99.9 14.9	88.8 18.7	91.2 17.8	100.1 16.1	71.6 8.4	74.9 8.9	74.6 13.7	79.6 14.2	80.2 15.8	81.8 12.9	84.1 "11.2	89.3 10.6		
Secondary, recovered as refined do	570.2															
Imports (general): Refined, unrefined,																
scrap (copper cont.) do Refined	¹ 518.7 ¹ 259.8	714.7 486.4	65.5 44.1	94.7 71.6	73.9 45.0	74.4 54.0	68.2 50.8	76.0 49.6	41.6 28.1	47.6 30.7	40.3 30.0	39.3 21.6	73.7 56.1	46.0 31.8	65.5 51.0	
Exports: Refined and scrap do	381.1	277.2	19.6	23.0	21.4	21.3	30.9	35.6	13.7	28.0	10.3	25.4	39.5	35.9	30.5	
Refined do	35.0	87.5	1.5	23.0	3.2	21.5	18.1	13.4	4.1	14.2	2.8	11.2	17.5	14.4	8.9	
Consumption, refined (by mills, etc.)	1,790															
Stocks, refined, end of perioddo Price, electrolytic (wirebars), dom., delivered \$ per lb	668 0.7431	0.7926	0.8207	0.0940	0.8563	0.8184	0.8295	.0.8054	0.7759	0.7239	0.6958	0.7080	0.6879	0.7075	0.7531	

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Inless otherwise stated in footnotes below, data	1982	1983					19	33						19	84	
hrough 1982 and methodological notes are as hown in BUSINESS STATISTICS: 1982	Ann		Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Арі
<u> </u>	M	ETAL	S AN	D MA	NUF	ACT	URES	Co	ntinu	ed						
NONFERROUS METALS AND PRODUCTS—Continued																
Copper-base mill and foundry products, shipments (quarterly total):												l				
Brass mill productsmil. lb Copper wire mill products (copper cont.) do Brass and bronze foundry products do	2,014 2,393 405		······	·····			·····			·····	·····		·····	······		
ead: Production:																
Mine, recoverable lead thous. met. tons Recovered from scrap (lead cont.) do	512.4 ¹ 571.3	447.6 504.1	37.2 41.0	36.6 41.3	35.7 42.5	28.3 37.3	35.1 37.2	43.1 39.6	37.2 43.4	37.0 48.9	38.2 48.4	34.8 45.7	41.6 44.4	······		••••••
Imports (general), ore (lead cont.), metal do Consumption, total do	50.1 1,075.4	58.8 1,080.7	2.4 80.4	6.3 83.1	6.5 81.9	4.2 90.6	3.5 79.8	6.0 94.6	2.1 104.2	6.4 102.3	5.2 95.3	6.1 107.9	12.8 112.7	5.1	8.1	
Stocks, end of period: Producers', ore, base bullion, and in process																
(lead content), ABMS thous. met. tons Refiners' (primary), refined and antimonial	75.0	74.5	65.3	59.0	59 .5	64.5	65.4	68.5	71.5	69.1	66.7	74.5	77.9	82.9	89.8	••••••
(lead content) thous. met. tons Consumers' (lead content) \diamond do	73.5 97.2	58.2 71.7	80.4 79.0	83.5 77.5	93.7 72.5	89.4 86.5	86.5 72.9	75.5 62.5	59.3 66.2	56.3 68.9	51.9 70.3	58.2 71.7				
Scrap (lead-base, purchased), all smelters (gross weight)thous. met. tons	33.5	32.8	21.6	23.6	20.0	21.3	25.2	27.4	24.8	30.3	32.3	32.8				
Price, common grade, delivered \$ per lb in:	0.2554	0.2168	0.2073	0.2117	0.2022	0.1941	0.1932	0.1946	0.2169	0.2538	0.2515	0.2446	0.2512		•••••	
Imports (for consumption): Ore (tin content) metric tons	1,931	969	34	45	3	51	122		45	71	207	169	70	60		
Metal, unwrought, unalloyed	27,939 12,544	34,048 11,579	2,365 971	3,578 1,008	2,845 954	2,778 1,118	2,056 986	2,757 1,055	3,325 1,130	3,671 830	2,147 892	3,225 *835	3,556 856	4,661		
As metal	1,067 53,450	2,243 55,800	176 4,900	197 4,700	171 4,700	207 4,800	188 4,300	242 4,600	200 4,700	181 4,800	224 4,400	227 4,800	157	4,300		
Primary do	38,700	40,400	3,600	3,500	3,500	3,500	3,100	3,400	3,400	3,500	3,200	3,100	3,400	3,200		
Exports, incl. reexports (metal) do Stocks, pig (industrial), end of period do Price, Straits quality (delivered) \$ per lb	¹ 9,357 3,152 6.5392	3,552 3,020 6.5478	298 3,815 6.6772	221 4,026 6.8759	235 3,527 6.6710	311 3,634 6.6707	298 3,931 6.5968	375 4,091 6.4838	226 3,604 6.4510	298 3,074 6.4683	260 3,180 6.4902	280 3,020 6.3080	278 2,970 6.2374	446 2,268 6.2788		
nc: Mine prod., recoverable zinc thous. met. tons	¹ 300.3	273.7	25.5	22.9	22.3	21.0	20.0	23.9	22.9	23.8	21.7	21.6	23.2			1
Imports (general): Ores (zinc content) do Metal (slab, blocks) do	49.3 1456.1	¹ 62.2 613.3	2.5 42.6	2.4 51.2	6.6 60.4	5.6 54.0	14.2 43.0	7.1 50.7	1.1 60.4	2.7 64.0	4.1 66.6	10.0 59.2	1.4 67.2	3.5 71.4		
Consumption (recoverable zinc content): Ores	53.1 208.1	52.9 190.2	5.2 14.4	5.1 14.6	4.9 14.4	4.4 13.5	4.4 13.4	3.3 16.9	2.0 16.7	3.4 17.4	6.0 18.1	5.7 17.4	5.8 17.2			
Slab zinc: @	1000 5	001.0	00.7				100		00.7							
Production, total ‡ thous. met. tons Consumption, fabricators	¹ 302.5 ¹ 709.5 0.3	261.8 775.3 0.4	22.7 68.8 (²)	22.4 66.7 (²)	23.5 64.1 0.1	21.8 65.7 (²)	16.0 55.8 (²)	23.2 64.5 0.1	22.7 67.2 (²)	24.1 65.5 (²)	24.7 70.1 (²)	21.8 63.7 (²)	23.2 69.4 (²)	22.1 0.1	21.6 	
Producers', at smelter (ABMS) do Consumers' do	28.2 77.6	16.7 71.5	19.4 70.4	17.9 73.4	19.2 75.6	20.4 70.9	20.1 68.1	13.6 71.5	9.6 74.9	14.5 73.2	16.1 71.8	16.7 73.9	14.4 80.4	15.8	15.0	
Price, Prime Western	0.3847	0.4139	0.3790	0.3800	0.3811	0.3946	0.4001	0.4056	0.4298	0.4611	0.4755	0.4874	0.4922	0.5061		
leating, combustion, atmosphere equipment, new														:		
orders (domestic), net, qtrly #mil \$ Electric processing heating equipment do Fuel-fired processing heating equip	¹ 296.9 65.4 128.2	¹ 274.5 87.8 ¹ 77.3	70.3 24.4 19.7			60.5 19.2 10.0	·····	······	68.8 20.5 16.8		·····	74.5 23.7 23.8				
laterial handling equipment (industrial): Orders (new), index, seas. adj 1967=100	249.2	275.7	222.9	246.9	248.9	283.6	344.3	249.3	271.9	355.6	359.2	335.2	321.5			
dustrial supplies, machinery and equipment: New orders index, seas. adjusted 1977=100	94.6	97.9	85.9	88.2	91.6	100.4	103.1	104.1	105.0	106.6	109.1	112.6	119.6	121.3	113.2	
ndustrial suppliers distribution: Sales index, seas. adjusted	120.9	113.9	107.6	113.5	112.0	111.6	112.2	121.0	121.6	119.0	121.0	119.4	127.7	132.1	131.7	1
handling equip., valves, fittings, abrasives, fasteners, metal products, etc.)	153.1	155.0	154.8	155.1	155.1	155.3	155.1	154.5	154.8	154.9	155.5	156.3	156.5	157.0		
luid power products shipments indexes: Hydraulic products, seas. adj	208 202	201 208	178 190	180 185	192 194	197 198	197 193	208 207	223 235	229 231	237 248	239 244	r245 r260	259 263	271 248	
achine tools: Metal cutting type tools: Orders, new (net), total	1,064.45 889.60 2,894.75 2,598.60 1,043.0	1,151.65 1,069.45 1,371.50 1,199.60 823.2	89.65 84.95 134.40 119.70 896.5	79.25 73.65 112.95 100.55 862.8	93.60 88.20 98.80 88.60 857.6	96.45 88.45 145.75 119.05 808.3	128.75 124.65 75.40 61.90 861.6	91.00 82.65 82.85 72.75 869.8	102.45 98.60 94.10 85.50 878.2	129.45 115.60 102.05 93.15 905.6	115.35 107.65 107.25 96.15 913.6	91.25 84.15 181.75 152.15 823.2	133.20 122.50 72.55 65.35 883.8	r133.05 r121.70 r103.05 r95.30 r913.8	 *146.50 *131.90 *122.50 *112.35 *937.8 	
Metal forming type tools: do Orders, new (net), total do Domestic do Domestic do Order backlog, end of period do	433.30 371.75 709.65 599.75 150.6	544.50 488.75 473.55 430.45 221.6	35.85 *32.05 41.85 36.40 124.5	39.30 37.40 37.85 35.00 126.0	41.70 37.90 37.05 35.05 130.6	48.80 41.10 37.25 33.10 142.2	46.35 42.00 36.95 31.95 151.6	46.25 42.00 30.15 28.90 167.6	53.35 49.55 37.60 33.15 183.4	73.10 40.85 43.35 40.85 213.2	44.90 40.85 40.45 37.10 217.6	60.00 48.30 56.05 54.35	55.90 53.05 40.40 35.55	r69.85 r66.00 r44.25 r40.40 r202.6	P61.95 P56.75 P66.75 P60.00 P257.8	

SURVEY OF CURRENT BUSINESS

May 1984			JUAN					511N EAC				<u> </u>				3-4
Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as	1982	1983		r		r	19	83						19	84	T
shown in BUSINESS STATISTICS: 1982	Am	nual	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
	Μ	ETAL	S AN	D MA	NUF	FACT	URES	S—Co	ntinu	led						
MACHINERY AND EQUIPMENT—Continued								i								
Tractors used in construction, shipments, qtrly: Tracklaying, total	7,053		234	(1)	784	727	556	475	797	717	728	*742	522	703		
mil. \$ Wheel (contractors' off-highway) units	793.5	1,678	16.0 251	(1) (1)	69.3	66.5 284	48.8	33.9	71.2 515	64.9	74.2	75.8	44.1	55.7		
mil. \$ Tractor shovel loaders (integral units only),	222.2	158.1	15.4			31.7			49.9			*62.2		•••••		·
wheel and tracklaying types units mil \$	"24,134 1,030.3		(1) (1)	·····	·····	(1) (1)			(1) (1)		·····	7,524 360.5				
ractors, wheel, farm, nonfarm (ex. garden and construction types), ship., qtrly units mil. \$	80,785 2,491.6	95,943 3,131.1	5,092 161.4	6,626 221.9	8,673 314.5	8,489 307.7	5,412 214.8	5,738 142.8	13,838 391.6	12,994 391.4	9,554 295.3	10,052 312.1	8,275 261.7	11,918 364.6		
ELECTRICAL EQUIPMENT	2,401.0	0,101.1	101.4	221.0	014.0	001.1	214.0	142.0	001.0	001.4	200.0	014.1	201.1	001.0		
atteries (autotype replacement), shipthous	54,214	56,105	3,730	3,509	3,720	4,032	3,914	5,100	6,373	6,548	6,105	6,295	6,499	4,273		
Radio sets, production, total marketthous relevision sets (incl. combination models),	31,782	36,454	²2,789	2,266	2,636	²2,638	3,095	3,315	²3,218	4,441	4,249	² 3,510	3,423	2,838	3,421	
production, total marketthous Household major appliances (electrical), factory	16,405	19,680	²1,561	1,282	1,313	²1,938	1,517	1,610	²2,303	2,050	1,731	°1,925	1,679	1,632	2,133	1,6
shipments (domestic and export) #thous Air conditioners (room) do	26,683 2,761	32,386 2,002	"2,748 "307	"2,508 259	2,597 300	2,897 265	2,672 306	3,081 108	2,978 58	3,046 32	2,820 52	2,535 98	3,273 168	3,023 262	3,387 504	3,1' 4
Dishwashers do Disposers (food waste) do	2,170 2,780	3,093 3,527	248 *308	214 7312	259 249	276 298	196 280	340 316	291 322	311 360	302 393	245 264	308 340	242 355	258 368	20
Microwave ovens/ranges * do Ranges do	4,071 2,035	6,114 2,752	'356 232	398 "201	492 252	431 248	461 197	544 269	636 250	771 265	648 254	772 211	738 260	587 237	615 260	6 2
Refrigerators	4,364	5,316 1,288	7404 7115	r362	463 112	520 136 399	505 141	580 128 470	556 113	494 85 412	410 72 377	321 77	494 103 479	426 95	509 89 420	4
Washers do Dryers (incl. gas) do Vacuum cleaners (qtrly.) do	4,019 2,728 7,536	4,616 3,294 7,942	420 283 2,082	352 236	416 282	264 1,799	322 206	317	438 309 2,214	323	313	292 250 1,848	366	427 331	287 2,277	30 21
GAS EQUIPMENT (RESIDENTIAL)	7,000	1,042	2,002	•••••		1,700	•••••		2,214	••••••		1,040		*****	2,211	
Purnaces, gravity and forced-air, shipmentsthous Ranges, total, sales	1,156 1,368	1,662 1,573	119 134	112 127	101 129	108 154	113 104	146 128	176 156	197 136	167 134	173 149	146 132	142 133	127 154	
Water heaters (storage), automatic, sales	3,041	3,172	288	301	259	265	238	248	239	280	253	269	319	315	308	
		PETI	ROLE	UM,	COA	L, AN	D PF	RODU	CTS							
COAL																
Anthracite: Production † thous. sh. tons	4,588	3,995	333	269	277	332	311	402	387	423	410	368				
Exports	980 640.3	776 617.0	30 634.2	28 621.7	66 603.1	38 605.1	79 613.3	115 610.4	117. 610.4	139 610.4	93 612.0	66 612.3	9 612.2	612.2	3 611.3	610
Bituminous: Production † thous. sh. tons	833,523	780,870	68,128	60,361	62,703	61, 9 91	54,606	72,547	69,894	72,778	70,629	65,126				
Consumption, total † do	703,561		55,153	52,481	54,079	58,066	69,391	73,267	63,207							
Electric power utilities do Industrial, total do Coke plants (oven and beehive)	592,591 104,372 40,859	•••••	46,965 7,737 2,565	43,497 8,394 3,204	45,586 8,101 3,149	50,274 7,462 2,732	60,301 8,581 3,267	64,079 8,708 3,250	54,127 8,442	50,598	51,099	·····	·····	······	·····	
Residential and commercial	6,598		2,565 451	3,204 590	3,145 392	330	5,201 509	3,200 480	3,194 638							
Stocks, end of period, total † do Electric power utilities	189,085 175,053		185,308 173,740	187,208 175,251	190,767 178,422	190,742 178,006	174,867 162,277	168,151 155,708	167,231 154,933	160,068	159,277		·			
Industrial, total	14,032 4,625		11,568 3,718	11,957 4,080	12,345 4,442	12,736 4,805	12,590 4,481	12,443 4,156	12,298							
Exports do	105,244	76,870	6,258	6,077	6,877	7,231	6,043	8,251	7,393	7,978	5,726	6,194	5,053	4,243	5,809	
Producer Price Index 1967=100 COKE	530.4	533.2	534.6	534.3	532.0	530.8	531.3	533.2	534.6	534.9	539.1	540.7	∕ 537.7	540.2	542.9	539
Production:	00 115	95 909	F 570			R 451			0.750			7 095				
Beehive and oven (byproduct) thous. sh. tons Petroleum coke § do	28,115 29,908	25,808 30,615	5,579 2,404	2,284	2,611	6,451 2,580	2,649	2,735	6,753 2,577	2,610	2,743	7,025 2,677	2,713	2,598		
tocks, end of period: Oven-coke plants, total do	8,190	3,518	5,781			4,569			3,875			3,518				
At furnace plants do At merchant plants do	7,858	3,233 286	5,469 312		1 200	4,220 348			3,577 298 966		1 101	3,233 286	1 107	1.005		
Petroleum coke do xports do	1,344 1,109	1,0 96 °731	1,317 37	1,324 99	1,390 72	1,230 41	903 °72	32	900 45	1,110 49	1,101 47	1,096 119	1,127 55	1,265 23		
PETROLEUM AND PRODUCTS																
orude petroleum: Oil wells completednumber	40,300	r37,159	3,433	'3,03 1	3,186	3,514	2,683	2,641	3,733	2,970	3,237	3,470	3,253 676.0	3,212	4,092	2,85
Producer Price Index	733.4	681.5	678.0	678.0	678.0	677.9	675.7	675.1	675.7	675.7	675.6	"674.4 050.0		676.0	676.0	674
units	4,442.6 70	4,348.3 72	344.7 66	349.9 69	373.9 72	378.2 75	390.5 75	382.0 74	373.7 76	371.2 73	368.5 75	353.6 70	365.8 73	356.0 76		
ll oils, supply, demand, and stocks: New supply, total ◊mil. bbl	5,608.2	5,570.0	430.5	449.2	469.0	464.4	493.7	505.1	492.3	482.8	464.3	470.4	484.5	465.5		
		3,159.4	269.0	260.6	269.2	260.3	268.0	268.2	260.0	268.3	258.7	267.0	268.4	253.0		
Production: Crude petroleum do	3,156.7				48.0	47.6	49.3	49.7	49.7	51.6	50.6	48.9	50.3	48.8		
Crude petroleum do Natural gas plant liquids do Imports:	585.1	589.9	49.0	46.3				100.0			100 0		100.0		1	
Crude petroleum			49.0 75.1 37.4	46.3 102.7 39.6	108.4 43.4	114.8 41.7	128.3 48.1	138.2 49.0	136.5 46.1	115.1 47.9	108.6 46.5	109.5 45.1	103.8 62.0	93.7 69.9		
Crude petroleum	585.1 1,352.4 514.0 -53.7	589.9 1,303.3 517.5 23.2	75.1 37.4 56.4	102.7 39.6 0.2	108.4 43.4 21.4	114.8 41.7 12.1	48.1 24.9	49.0 33.2	46.1 24.8	47.9 19.7	46.5 -1.6	45.1 -57.2	62.0 23.1	69.9 33.9	······	·····
Crude petroleum	585.1 1,352.4 514.0	589.9 1,303.3 517.5	75.1 37.4	102.7 39.6	108.4 43.4	114.8 41.7	48.1	49.0	46.1	47.9	46.5	45.1	62.0	69.9 33.9 463.1		

See footnotes at end of tables.

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See footnotes at end of tables.

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data	1982	1983					19	83						19	84	
through 1982 and methodological notes are as shown in BUSINESS STATISTICS: 1982	Ann		Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
	PULP,	PAP	ER, A	ND I	PAPE	R PF	RODU	CTS-	-Con	tinue	d	•			L	
PAPER AND PAPER PRODUCTS †																
Paper and board: Production (API): Totaldo Paperdo Paperboarddo	¹ 59,488 30,422 29,065	'64,868 32,917 31,951	5,540 2,796 2,744	5,274 2,609 2,609	5,554 2,786 2,786	5,381 2,722 2,658	5,117 2,553 2,563	5,675 2,930 2,745	5,501 2,764 2,737	5,832 2,935 2,897	5,642 2,863 2,778	5,169 2,706 2,463	^{75,666} 72,885 2,781	r5,647 r2,849 r2,798	6,030 3,023 3,007	
Producer price indexes: Paperboard	254.9 239.5	250.1 250.0	246.3 244.2	248.1 247.0	248.7 249.3	249.6 249.4	249.7 256.2	250.1 252.1	254.0 252.8	255.5 254.7	259.4 254.7	"260.9 "250.4	262.2 251.9	269.3 253.9	273.6 258.9	275 264
Selected types of paper (API): Groundwood paper, uncoated: Orders, new	'1,469 91 '1,459	"1,559 156 "1,509	128 106 123	122 101 127	126 94 129	131 99 128	135 114 118	163 145 129	131 153 132	152 164 142	124 153 137	122 156 121	147 161 138	"153 "184 "133	143 186 143	
Orders, new	14,998 325 5,032	^{r15,945} ^{r551} 5,743	499 342 460	439 332 447	509 398 468	543 457 481	499 524 453	556 528 536	451 492 485	523 496 535	463 447 513	"545 "551 496	"502 "526 514	⁷⁵³³ 7546 7518	555 581 537	
Uncoated free sheet papers: Orders, new	17,820 18,187	19,010 19,030	833 805	743 759	751 762	744 762	755 676	782 786	720 748	741 794	757 773	735 750	"730 "795	"715 "777	787 814	·····
Unbleached kraft packaging and industrial converting papers: Shipments	¹ 3,688 ¹ 4,438	13,792 14,790	316 399	291 397	304 410	312 392	287 385	349 419	327 399	339 414	329 408	301 390	"322 "407	322 r395	352 426	
Newsprint: Canada: Production thous. metric tons Shipments from mills	8,109 8,054 256	8,486 8,439 303	680 674 389	695 710 374	724 683 415	719 796 339	699 679 359	726 696 388	707 738 358	750 764 344	774 766 352	673 723 303	757 699 361	622 646 337	666 674 329	
United States: Production	4,574 4,525 [.] 86	4,688 4,675 99	406 394 159	364 362 161	399 404 156	372 395 133	378 395 116	419 418 117	377 378 116	406 407 116	414 412 117	372 390 99	417 415 103	410 412 102	434 454 82	
Consumption by publishers \diamond do Stocks at and in transit to publishers, end of period thous. metric tons	10,107 854	10,579 790	875 805	879 780	919 746	858 809	816 826	847 849	885 812	1,001 785	985 750	¹ 954 790	¹ 847 785	"879 "808	939 787	······
Imports thous sh tons Price, rolls, contract, f.o.b. mill, freight allowed or delivered Index, 1967=100	6,531 315.8	6,919 302.9	620 299.1	538 299.1	599 299.1	659 299.1	538 295.0	584 305.8	543 310.4	634 309.6	633 309.6	593 309.6	663 309.6	621 309.6	591 316.0	 316.
Paper products: Shipping containers, corrugated and solid fiber shipments	235,185	252,876	'21,828	20,466	20,777	22,044	19,582	22,649	22,317	23,476	21,043	19,874	22,070	21,983	23,650	
		RUI	BBER	ANI) RU	BBEF	R PRO	DDUC	CTS							
RUBBER																
Natural rubber: Consumption thous. metric tons Stocks, end of period do	660.61 95.42	676.27 80.75	55.28 87.35	55.31 93.77	56.86 100.01	67.04 97.86	48.79 99.18	39.22 90.69	50.21 83.29	75.29 74.83	69.67 75.87	"49.57 "90.75	r73.76 r95.19	56.78 95.68		
Imports, incl. latex and guayule thous. lg. tons Price, wholesale, smoked sheets (N.Y.) \$ per lb	618.27 0.453	642.07 ²0.560	48.54 0.578	62.11 0.578	63.44 0.568	65.20 0.545	50.41 0.583	31.90 0.593	44.22 0.605	67.83 0.605	71.06 0.583	54.71	87.84 0.573	57.82 0.583	75.45 0.580	 0.56
Synthetic rubber: Production thous. metric tons Consumption do	1,828.95 1,757.30	1,978.28 1,860.79	170.06 158.19	160.46 146.32	171.13 146.22	164.50 156.68	154.64 135.85	150.50 174.52	163.16 174.39	177.96 184.53	193.73 162.14	'163.29 '150.21	183.29 •177.54	173.02 175.36		
Stocks, end of period do Exports (Bu. of Census) thous. lg. tons TIRES AND TUBES	255.94 284.62	283.80 275.01	283.54 24.44	283.84 24.91	294.34 31.66	290.82 24.37	304.77 20.15	276.24 21.08	262.34 22.01	256.12 20.14	282.72 23.75	"283.79 23.67	"284.08 24.12	277.18 22.22	28.09	••••••
Pneumatic casings, automotive: Production	178,500	186,923	15,370	16,325	15,653	15,473	12,570	16,440	16,360	16,734	15,136	15,483	16,749	17,498	19,121	
Shipments, total do Original equipment do Replacement equipment do Exports do	201,236 38,633 158,688 3,915	218,865 49,364 164,265 5,236	18,034 4,232 13,353 499	17,782 4,143 13,185 454	18,907 4,286 14,202 419	20,431 4,461 15,586 384	17,879 3,240 14,354 285	20,117 3,931 15,686 500	21,246 5,003 15,717 526	20,532 4,870 15,153 509	17,527 4,625 12,458 444	16,077 4,608 10,890 579	18,509 4,755 13,118 636	17,971 5,109 12,253 609	21,640 5,728 15,191 721	
Stocks, end of period do Exports (Bu. of Census) do	39,955 5,971	33,340 4,656	50,287 424	51,921 392	42,395 436	39,622 306	36,989 270	35,541 360	32,854 447	31,530 391	31,676 485	33,340 484	35,450 458	37,615 427	38,529 544	
Inner tubes, automotive: Exports (Bu. of Census) do	1,924	1,829	157	134	138	193	100	147	169	240	126	177	97	137	187	

1982 Ann 1343,463 4,408.6 40.9 325.0 294.8 312.5 871,331 309,376 307,113 27,658 61,020 107,861 22,265	1983 ual STON '5,791.6 30.1 '376,287 '5,791.6 338.1 968,516 '288,616 '288,616	Mar. 25,367 445.7 2.2 27.1 29.8 333.8 228,658	Apr. 28,383 451.8 3.4 29.7 27.9 337.7	May AND 33,569 529.1 1.4 30.6 31.4	June GLA 39,415 615.4 2.6 36.7	199 July SS Pl 37,266 546.7	Aug.	39,537	Oct. 39,053	Nov. 32,771	Dec.	Jan. 20,356	19 Feb. 25,638	84 Mar. 29,202	Apr.
¹ 343,463 4,408.6 40.9 325.0 294.8 312.5 871,331 309,376 307,113 27,658 61,020 107,861	STON ¹ 376,287 ¹ 5,791.6 30.1 ¹ 375.1 ¹ 333.6 338.1 968,516 ¹ 288,616	25,367 445.7 2.2 27.1 29.8 333.8	28,383 451.8 3.4 29.7 27.9	AND 33,569 529.1 1.4 30.6	GLA 39,415 615.4 2.6	SS P1 37,266	RODI 41,931	J CTS 39,537					· · · · · ·		
¹ 343,463 4,408.6 40.9 325.0 294.8 312.5 871,331 309,376 307,113 27,658 61,020 107,861	¹ 376,287 ¹ 5,791.6 30.1 ¹ 375.1 ¹ 333.6 338.1 968,516 ¹ 288,616	25,367 445.7 2.2 27.1 29.8 333.8	28,383 451.8 3.4 29.7 27.9	33,569 529.1 1.4 30.6	39,415 615.4 2.6	37,266	41,931	39,537	39,053	32,771	22,202	20,356	25,638	29,202	
4,408.6 40.9 325.0 294.8 312.5 871,331 309,376 307,113 27,658 61,020 107,861	"5,791.6 30.1 "375.1 "333.6 338.1 968,516 "288,616	445.7 2.2 27.1 29.8 333.8	451.8 3.4 29.7 27.9	529.1 1.4 30.6	615.4 2.6				39,053	32,771	22,202	20,356	25,638	29,202	
40.9 325.0 294.8 312.5 871,331 309,376 307,113 27,658 61,020 107,861	30.1 r375.1 r333.6 338.1 968,516 r288,616	2.2 27.1 29.8 333.8	3.4 29.7 27.9	1.4 30.6	2.6	546.7	607.9								1
40.9 325.0 294.8 312.5 871,331 309,376 307,113 27,658 61,020 107,861	30.1 r375.1 r333.6 338.1 968,516 r288,616	2.2 27.1 29.8 333.8	3.4 29.7 27.9	1.4 30.6	2.6	546.7	607.9								l i
325.0 294.8 312.5 871,331 309,376 307,113 27,658 61,020 107,861	*375.1 *333.6 338.1 968,516 *288,616	27.1 29.8 333.8	29.7 27.9	30.6			001.01	583.4	545.7	494.2	r375.4	320.0			
294.8 312.5 871,331 309,376 307,113 27,658 61,020 107,861	r333.6 338.1 968,516 r288,616	29.8 333.8	27.9			2.3	2.8	3.6	3.3	2.1	2.1 "20.9	1.0			
871,331 309,376 307,113 27,658 61,020 107,861	968,516 °288,616		397 7	01.4	29.9	39.8 27.1	43.7 30.5	40.0 27.3	38.6 29.2	29.8 27.0	20.9	23.2 24.8			
309,376 307,113 27,658 61,020 107,861	°288,616	228,658	001.1	339.3	340.1	341.9	341.9	341.9	344.0	345.3	r345.5	346.9	346.7	347.9	349
307,113 27,658 61,020 107,861	· ·				238,331			251,886			249,641				
27,658 61,020 107,861	7287 844	27,039	25,659	25,513	24,804	24,212	27,139	23,805	25,539	21,130	*16,665	21,126	23,443		
61,020 107,861		25,926	24,456	26,183	26,737	25,615	28,422	24,909	23,083	20,288	"18, 48 3	21,109	21,228		
107,861 22,265	27,374 •59,895	2,690 5,118	2,241 4,872	2,496 5,711	2,467 6,331	2,008 5,880	3,215 6,347	2,995 5,389	1,916 4,513	1,658 4,230	1,502 "3,843	2,092 3,966	2,221 4,500		
	97,755 22,947	8,955 2,039	9,076 1,754	9,612 1,912	9,370 2,005	9,402 2,069	9,164 1,980	7,575 2,011	7,165 2,281	6,256 1,870	*5,778 1,667	6,887 1,838	6,439 1,790	••••••	
63,372	60,108	5,129	4,451	4,829	5,037	5,010	6,170	5,527	5,642	4,861	4,232	4,943	4,782		
22,322	*17,977 1 788	1,824 171	1,894 168	1,469 154	1,354 173	1,115	1,393	1,280	1,441	1,294	'1,350	1,240 143	1,340 156		
45,634	r43,307	50,022	51,269	50,604	49,467	48,104	45,893	44,080	44,583	45,091	'43,307	44,855	46,514		·····
10,538 11,243	12,948 13,710	905 1.110	1,053 1.131	1,033 1.087	1,141 1.167	1,017 1.128	1,218 1,276	1,300 1.262	$1,221 \\ 1,278$	1,161 1.213	1,117 1.161	1,146 1,263	1,159 1.212		
6,718	8,031	513	636	698	694	784	682	872	995	741	561	705	703		
¹ 4,528	4,064	195	235	268	464	338	377	432	471	339	383	268	266		
¹ 430	¹ 442	37	36	35	36	30	35	35	40	40	36	36	40		
¹ 264	257	22	21	21	22	21	24	23	22	20	1 19	20	20		
13,093 39	16,818 36	1,425 3	1,312 3	1,319 3	1,449 4	1,422 3	1,593 3	1,471 3	1,548 2	1, 49 3 3	1,542 4	1,494 2	1,524 3		
286 264	368 344	32 28	28 30	29 29	35 32	31 29	37 31	33 31	31 30	32 29	34 25	34 28	37 28		
8,447 3,486	10,807 4,283	933 352	844 322	861 317	934 356	903 366	1,014 414	933 381	981 402	970 385	1,000 408	945 407	970 398		
119 453	119 861	11 66	10 76	11 69	$\frac{12}{77}$	9 80	10 83	10 80	10 90	9 65	10 62	10 66	12 75		
I		 Т	EXT		ROD	UCTS	' \$	L							• <u> </u>
<u> </u>									<u> </u>				l		
6 660	7 190	3796	562	561	³ 716	421	592	3702	603	591	3643	550			
2, 466 4,194	2,654 4,537	³ 274 ³ 452	215 348	210 351	*268 *448	147 274	209 383	*264 *438	215 388	207 384	3226 3416	209 341			
637 257	598 231	611 242	603 241	619 248	607 233	511 245	630 252	632 263	647 267	655 260	597 230	621 257			·····
		241 374	225 367	226 392	1 9 9 376	200 392	221 320	234 310	229 309	226 286	223 267	228 312			·····
² 11,526 11,963	7,500					2	315	770	3,348	6,007	7,214 7,618				
4,938	5,553	³549	431	441	°543	369	453	°560	459	446	°468	469	448	³548	
14,232 14,229 2,433	10,686 10,685 1,159 8,924	11,399 11,397 896 9,713	10,358 10,356 767 8,796	9,455 9,454 748 7,930	8,449 8,447 273	7,561 7,560 150	14,047 14,046	13,116	12,515	11,725	10,686	9,512	8,347	r6,903	5,6 5,6
	2,615 45,634 11,243 6,718 14,528 14,528 14,528 14,528 14,528 14,528 12,64 13,093 39 286 2,464 4,13 4,53 6,660 2,466 4,19 453 6,660 2,466 4,19 453 6,718 11,526 11,963 4,938 14,232	2,615 1,788 45,634 *43,307 *10,538 12,948 *11,243 13,710 6,718 8,031 *4,528 4,064 *430 *442 *264 257 13,093 16,818 39 36 286 368 284 344 8,447 10,807 3,486 4,283 119 119 453 861 *11,526 7,190 2,466 2,654 4,194 4,537 637 598 257 231 380 367 *11,526 7,500 11,963 4,938 5,553 14,232 10,686 14,232 10,686	2,615 1,788 171 45,634 '43,307 50,022 *10,538 12,948 905 *11,243 13,710 1,110 6,718 8,031 513 *4,528 4,064 195 *430 *442 37 *264 257 22 13,093 16,818 1,425 39 36 3 266 368 322 264 344 28 8,447 10,807 933 3,486 4,283 352 119 119 11 453 861 66 2,466 2,654 *274 4,194 4,537 598 611 257 231 242 360 380 367 369 361 4,194 4,537 598 611 257 231 242 360 380 367 369 369	2,615 1,788 171 168 45,634 '43,307 50,022 51,269 *10,538 12,948 905 1,053 11,243 13,710 1,110 1,131 6,718 8,031 513 636 *4,528 4,064 195 235 *430 *442 37 36 *264 257 22 21 13,093 16,818 1,425 1,312 39 36 32 28 264 344 28 30 8,447 10,807 933 844 3,486 4,283 352 322 119 119 11 10 453 451 346 *274 215 2,466 2,654 *274 216 4,194 4,537 569 611 603 257 231 242 241 348 380 367 <td< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>2,615 1,788 171 168 154 173 131 153 132 125 45,634 '43,307 50,022 51,269 50,604 49,467 48,104 45,893 44,080 44,583 '10,538 12,948 905 1,053 1,033 1,141 1,017 1,218 1,262 1,276 6,718 8,031 513 636 698 694 784 6622 872 995 '4,528 4,064 195 235 268 464 338 377 432 471 '430 '442 37 36 35 36 30 35 35 40 '264 257 22 21 21 22 21 24 23 222 13,093 16,818 1,425 1,312 1,319 1,449 1,422 1,593 1,471 1,548 39 36 352 322 29 31 31 30 34 22 931 31 31 30</td><td>2,615 1,788 171 168 154 173 131 153 132 125 119 45,634 '43,307 50,022 51,269 50,604 49,467 48,104 45,893 44,080 44,583 45,091 *10,538 12,948 905 1,053 1,033 1,141 1,017 1,218 1,276 1,262 1,278 1,213 6,718 8,031 513 636 698 694 784 662 872 995 741 '4,528 4,064 195 235 268 464 338 377 432 471 339 '430 '442 37 36 35 36 30 35 35 40 40 '264 257 22 21 21 22 21 24 23 22 20 13.093 1,641 1,414 1,422 1,599 1,471 1,546 1,493 39 36 3 3 3 4 3 3 31 <td< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>2.615 1.788 171 168 154 173 131 153 132 125 119 111 143 156 45.634 *43.307 50.022 51.269 50.604 49.467 48.104 45.893 44.080 44.583 45.091 *43.307 44.855 46.514 *10.538 12.948 905 1.063 1.033 1.141 1.017 1.218 1.300 1.221 1.161 1.117 1.146 1.159 6.718 8.031 513 636 698 694 784 682 872 995 741 561 705 703 *4,528 4.064 195 235 268 464 338 377 432 471 339 383 268 266 *430 *442 37 36 35 35 40 40 36 36 40 *264 257 22 21 21 24 23 22 20 *19 20 20 13.039 168.18</td><td>2.615 1.788 1711 1.68 154 173 131 153 132 125 119 111 143 156 </td></td<></td></td<>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2,615 1,788 171 168 154 173 131 153 132 125 45,634 '43,307 50,022 51,269 50,604 49,467 48,104 45,893 44,080 44,583 '10,538 12,948 905 1,053 1,033 1,141 1,017 1,218 1,262 1,276 6,718 8,031 513 636 698 694 784 6622 872 995 '4,528 4,064 195 235 268 464 338 377 432 471 '430 '442 37 36 35 36 30 35 35 40 '264 257 22 21 21 22 21 24 23 222 13,093 16,818 1,425 1,312 1,319 1,449 1,422 1,593 1,471 1,548 39 36 352 322 29 31 31 30 34 22 931 31 31 30	2,615 1,788 171 168 154 173 131 153 132 125 119 45,634 '43,307 50,022 51,269 50,604 49,467 48,104 45,893 44,080 44,583 45,091 *10,538 12,948 905 1,053 1,033 1,141 1,017 1,218 1,276 1,262 1,278 1,213 6,718 8,031 513 636 698 694 784 662 872 995 741 '4,528 4,064 195 235 268 464 338 377 432 471 339 '430 '442 37 36 35 36 30 35 35 40 40 '264 257 22 21 21 22 21 24 23 22 20 13.093 1,641 1,414 1,422 1,599 1,471 1,546 1,493 39 36 3 3 3 4 3 3 31 <td< td=""><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>2.615 1.788 171 168 154 173 131 153 132 125 119 111 143 156 45.634 *43.307 50.022 51.269 50.604 49.467 48.104 45.893 44.080 44.583 45.091 *43.307 44.855 46.514 *10.538 12.948 905 1.063 1.033 1.141 1.017 1.218 1.300 1.221 1.161 1.117 1.146 1.159 6.718 8.031 513 636 698 694 784 682 872 995 741 561 705 703 *4,528 4.064 195 235 268 464 338 377 432 471 339 383 268 266 *430 *442 37 36 35 35 40 40 36 36 40 *264 257 22 21 21 24 23 22 20 *19 20 20 13.039 168.18</td><td>2.615 1.788 1711 1.68 154 173 131 153 132 125 119 111 143 156 </td></td<>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2.615 1.788 171 168 154 173 131 153 132 125 119 111 143 156 45.634 *43.307 50.022 51.269 50.604 49.467 48.104 45.893 44.080 44.583 45.091 *43.307 44.855 46.514 *10.538 12.948 905 1.063 1.033 1.141 1.017 1.218 1.300 1.221 1.161 1.117 1.146 1.159 6.718 8.031 513 636 698 694 784 682 872 995 741 561 705 703 *4,528 4.064 195 235 268 464 338 377 432 471 339 383 268 266 *430 *442 37 36 35 35 40 40 36 36 40 *264 257 22 21 21 24 23 22 20 *19 20 20 13.039 168.18	2.615 1.788 1711 1.68 154 173 131 153 132 125 119 111 143 156

SURVEY OF CURRENT BUSINESS

	1982	1983					19							10	84	
Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as shown in BUSINESS STATISTICS: 1982	1982 Ann		Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	I9 Feb.	Mar.	Apr.
					· ·	JCTS						Dee.	Uun.	105.		
COTTON AND MANUFACTURES-Cont.							-001	Tuna								
Cotton (excluding linters)—Continued Exports	6,079 39 57.6 ³ 60.5	5,649 8 63.9 63.1	487 1 62.2 66.0	612 (°) 60.4 65.3	464 (⁰) 63.6 66.9	831 (*) 62.6 70.7	409 1 67.1 70.3	383 2 67.0 72.9	322 1 63.1 71.7	261 1 64.0 72.0	441 1 66.8 73.4	632 (*) 67.3 73.0	663 (°) 62.7 70.6	719 (°) 65.7 71.8	896 (*) r70.5 74.9	68.6
Active spindles, last working day, total mil Consuming 100 percent cotton do Spindle hours operated, all fibers, total bil Average per working day do Consuming 100 percent cotton do Spindle hours operated, all fibers, total bil Average per working day do Consuming 100 percent cotton do	14.2 5.3 81.6 0.320 30.2	13.9 5.3 90.3 0.343 33.7	14.4 5.3 9.4 0.336 ⁴ 3.1	14.0 5.3 6.8 0.342 2.5	14.2 5.3 7.1 0.354 2.5	14.2 5.3 8.6 0.344 43.1	13.8 5.2 5.9 0.295 2.2	14.1 5.2 7.8 0.372 3.0	14.2 5.3 8.8 0.352 *3.4	14.9 5.3 7.7 0.384 3.0	14.1 5.3 7.4 0.369 2.9	13.9 5.3 7.6 0.305 43.0	13.8 5.2 7.4 0.368 2.8	<u></u>		
Cotton cloth: Cotton broadwoven goods over 12" in width: Production (qtrly.) mil. sq. yd Orders, unfilled, end of period, compared with avg. weekly productionno. weeks' prod	3,779 11.1	4,163 11.8	1,046 10.3			1,042 11.7			1,029 12.4			1,046 13.8				•••••
Inventories, end of period, compared with avg. weekly productiono. weeks' prod Ratio of stocks to unfilled orders (at cotton mills), end of period	7.1 0.65 239.2	4.7 0.40 188.8	4.9 0.47 18.2	4.8 0.44 17.2	4.3 0.40 14.2	4.3 0.37 15.9	5.1 0.34 12.7	4.2 0.33 14.0	3.8 0.31 15.4	3.8 0.30 16.0	4.2 0.33 15.3	4.8 0.34 14.8	4.6 0.44	4.5 0.40		
Imports, raw cotton equivalent do Producer Price Index, gray cotton	601.3	793.1	56.7	54.6	61.7	58.9	64.5	66.6	77.9	71.4	80.9	77.4				
broadwovens * 12/75=100 MANMADE FIBERS AND MANUFACTURES	152.6	152.1	151.1	151.7	152.2	151.0	151.5	151.7	152.8	156.0	156.7	*156.7	157.9	159.2	198.1	158.1
Fiber production, qtrly: Acetate filament yarnmil. lb Rayon staple, including towdo Noncellulosic, except textile glass:	195.2 355.0	227.6 374.8	50.3 92.6			62.2 92.1						53.8 98.0				
Yarn and monofilaments do Staple, incl. tow do Textile glass fiber	3,040.3 3,402.5 899.2	3,560.5 3,970.6 1,166.0	801.1 886.7 245.1			924.0 1,015.5 273.1			1,032.8		······	932.1 1,035.6 334.6				
Fiber stocks, producers', end of period: Acetate filament yarn	10.7 25.9	12.5 23.3	9.8 31.5			12.2 28.9			21.3			12.5 23.3	 			
Noncellulosic fiber, except textile glass: Yarn and monofilaments	279.8 324.8 141.0	275.1 342.0 125.2	270.1 292.7 131.1			259.5 278.0 101.1			270.4 300.8 102.7			275.1 342.0 125.2				·····
Manmade fiber and silk broadwoven fabrics: Production (qtrly.), total #	8,585.5 2,951.1 346.6 397.5 4,726.7 113.7 3,547.8 893.0	10,089.1 3,601.0 255.1 325.3 5,295.0 113.9 3,998.4 1,031.7	2,344.7 803.1 60.8 85.4 1,248.9 26.5 942.3 257.6			2,513.9 885.4 60.6 1,331.1 28.8 1,018.9 256.2		·····	877.5 66.0 72.6 1,353.5 28.3			1,035.0 67.7 79.7				
Producer Price Index, gray synthetic broadwovens * 12/75=100	143.7	147.0	144.7	145.5	146.1	146.3	146.5	147.4	147.7	149.3	151.5	·151.0	151.6	150.9	151.8	152.4
Manmade fiber textile trade: Exports, manmade fiber equivalentmil. lbs Yarn, tops, thread, cloth	438.55 200.59 132.57 237.96	460.71 167.19 108.66 293.52	43.40 15.55 10.40 27.85	43.45 15.61 10.84 27.84	40.39 14.45 9.07 25.95	39.80 14.15 9.07 25.66	35.00 12.50 7.71 22.50	36.21 13.06 8.38 23.16	39.50 14.39 9.41 25.11	36.97 14.72 9.31 22.26	36.44 13.44 8.77 23.00	35.24 12.49 7.76 22.74				
Imports, manmade fiber equivalent	807.10 132.58 93.34 674.51 485.31 193.09	1,069.49 182.50 123.21 886.99 574.39 241.30	76.53 14.44 9.12 62.08 38.10 15.03	73.20 14.99 10.77 58.22 38.63 15.33	86.99 16.49 11.06 70.50 47.65 21.73	$105.55 \\ 18.61 \\ 13.05 \\ 86.74 \\ 58.88 \\ 27.45$	98.14 16.81 11.31 81.33 55.16 25.44	$108.25 \\ 15.98 \\ 11.53 \\ 92.27 \\ 65.73 \\ 27.60$	98.34 15.62 10.75 82.72 54.39 24.28	$106.84 \\ 17.41 \\ 11.03 \\ 89.43 \\ 56.24 \\ 24.22$	85.83 14.69 9.55 71.15 42.75 16.19	9.07	·····	·····	······	
Wool consumption, mill (clean basis): Apparel class	105.9 9.8 61.4 21.4	132.4 11.9 79.1 28.7	⁴ 12.8 ⁴ 1.2 5.0 1.5	10.6 0.9 6.7 1.9	9.9 1.0 4.9 2.1	413.7 41.2 7.5 2.9	8.7 0.8 6.5 2.4	10.5 1.1 5.8 2.3	*12.8 *1.4 5.1 1.9	11.2 0.9 8.5 3.3	11.2 0.7 8.0 2.5	⁴12.4 ⁴0.9 8.9 3.8	11.0 0.8 11.2 2.7		 7.8 2.7	
Wool prices, raw, shorn, clean basis, delivered to U.S. mills: Domestic—Graded territory, 64's, staple 2-3/4" and upcents per lb Australian, 64's, Type 62, duty-paiddo	⁷ 2.47 2.99	*2.12 2.66	1.93 2.66	1.93 2.66	1.93 2.62	1.98 2.62	2.19 2.60	2.23 2.62	2.25 2.63	2.25 2.71	2.25 2.70	2.28 2.66	2.30 "2.68	2.30 2.76	2.30 2.79	2.45 2.77
Wool broadwoven goods, exc. felts: Production (qtrly.) mil. sq. yd	121.1	139.0	34.2			40.0			28.2			36.6				
FLOOR COVERINGS Carpet, rugs, carpeting (woven, tufted, other), shipments, quarterly mil. sq. yds	906.5	1,084.9	232.1			272.2			284.7			293.9				
APPAREL Women's, misses', juniors' apparel cuttings:																
Coats	¹ 12,617 ¹ 166,747 ¹ 12,138 ¹ 104,430 ¹ 27,845	10,595 151,386 9,327 100,385 31,795	617 17,333 724 9,149 2,658	644 15,343 615 7,944 2,540	981 14,124 818 8,197 2,833	1,153 12,877 856 8,627 3,045	1,033 10,357 932 7,892 2,433	1,344 11,471 819 9,776 2,790	1,299 11,532 786 9,016 2,777	1,118 11,393 825 8,671 2,997	956 10,830 770 7,937 2,599	474 9,169 706 7,324 2,353	"366 "12,640 "855 "7,828 "2,839	419 15,106 964 8,364 2,946	473 15,346 1,052 8,378 3,084	

S=32		30			CUR		. DU2	SINES	<u> </u>						M18	ıy 1984
Unless otherwise stated in footnotes below, data through 1982 and methodological notes are as		1983					19	83						19	84	
shown in BUSINESS STATISTICS: 1982	Anr	ual	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
		TI	EXTII	LE PH	RODU	JCTS-	-Con	ntinue	ed							
APPAREL—Continued																
Men's apparel cuttings: Suitsthous. units.	11,735	10,768	927	779	845	839	570	858	951	1,098	1,100	879	r1,076	1,039	1,139	
Coats (separate), dress and sport do Trousers (separate), dress	16,477 111,749	17,139 109,014	1,471 10,244	1,432 9,261	1,496 8,656	1,672 10,188	1,390 7,060	1,583 9,986	1,469 9,141	1,510 9,675	1,429 10,174	1,176	19,724	1,559 11,719	1,633 10,352	
Slacks (jean cut), casual do Shirts, dress and sport thous. doz. Hosiery, shipments thous. doz. pairs.	4172,299 492,423 288,704	202,930 39,506 308,079	16,564 3,591 25,415	16,288 3,179 26,424	17,350 3,404 26,395	22,319 3,562 26,070	17,448 2,455 29,966	18,128 3,298 26,144	19,879 3,467 25,317	16,996 3,356 25,829	19,577 3,531 25,278	10,265 3,158 24,905	*14,107 *3,560 24,191	15,207 3,705 25,847	15,400 3,843 28,867	
						ON E			<u>ا</u> سم ا							L
AEROSPACE VEHICLES																
Orders, new (net), qtrly, total mil. \$. U.S. Government do	86,587		27,246 20,724			24,442			⁵ 16,788						••••••	
Prime contract do	. 55,715 . 84,290 . 75,487		20,724 26,645 19,102			15,120 23,863 20,826			516.419			·····				
U.S. Government do	42,239		10,594			11,681			\$13,105						•••••	
Backlog of orders, end of period # do U.S. Government do Aircraft (complete) and parts do	105,810 60,067 46,446		113,954 70,197 52,621			117,570 73,636 53,290					·····					
Engines (aircraft) and parts do Missiles, space vehicle systems, engines, propul-	. 11,958		12,090			12,824			*12,552							
sion units, and parts	13,432 13,330		13,919			14,527			⁵ 13,450							
tions), products, services mil. \$ Aircraft (complete);			14,731			15,092			^s 15,043					•••••		
Airframe weight † do	. 8,639.8 44,383 4,775	10,167.9 47,329 5,569	1,418.9 7,007 1,006	1,107.9 5,194 457	791.0 3,854 397	1,191.3 5,723 924	429.9 1,998 368	484.8 2,338 178	785.1 3,490 232	432.2 1,751 193	827.7 3,797 307	1,206.2 4,793 679	 140			····
MOTOR VEHICLES (NEW)	. 1,170	0,000	1,000	401	0.91	544	500	110	204	155	301	013	140	310	022	
Passenger cars: Factory sales (from U.S. plants), total ††thous Domestic †† do	5,049 4,696	6,739 6,201	575 517	529 475	587 528	644 592	461 426	492 466	627 581	678 623	636 587	581 541	647 608	682 632	772 702	
Retail sales, total, not seasonally adj do	7,980	9,179	821	762	837	904	792	741	705	861	782	752	778	841	964	896
Domestics § do Imports § do Total, seas, adjusted at annual ratemil.	5,758 2,221	6,793 2,386	600 221 8.4	578 184 8.5	630 207 9.1	668 236 10.1	577 215 9.7	531 210 8.9	538 166 9.2	664 197 9.8	590 191 9.5	559 192 10.5	583 195 11.2	655 186 10.6	756 208 10.0	174
Domestics §			6.2 2.2	6.4 2.1	6.9 2.2	7.5	7.2 2.5	6.6 2.3	7.0 2.1	7.0 2.8	6.9 2.6	7.8	8.4 2.8	8.5 2.1	7.9	8.1
Retail inventories, end of period, domestics: § Not seasonally adjustedthous	1,126	1,352	1.235	1,191	1,191	1,209	1,102	1,088	1,192	1.220	1,303	1,352	1,471	1,532	1.572	1.558
Seasonally adjusted do Inventory-retail sales ratio, domestics §	. 1,127	1,390 2.5	1,238 2.4	1,201 2.3	1,154 2.0	1,082 1.7	1,050 1.7	1,166 2.1	1,231 2.1	1,257 2.2	1,306 2.3	1,390 2.1	1,498 2.2	1,565 2.2	*1,606 2.4	· ·
Exports (BuCensus), total do	374.30	551.16	56.59	54.45	60.81	51.92	34.26	31.87	46.27	57.22	48.16	38.14	40.71	53.69	70.88	
To Canada do Imports (BuCensus), complete units do From Canada, total do	3,067.0	523.99 3,691.0 836.8	54.75 313.4 69.3	52.21 277.2 77.9	58.14 355.8 88.5	50.30 325.5 85.8	32.75 288.3 56.0	30.63 263.5 44.3	41.92 271.6 49.6	54.64 342.3 67.0	45.64 346.7 71.3	36.18 369.3 98.4	38.85 396.1 83.5	50.64 340.6 94.3	68.57 464.0 87.5	
Registrations ◊, total new vehicles		8,924 12,457	725 *206	728 208	773 215	869 244	789 228	773 246	735 207	757 190	701 176	910 239	747 195	782 194	835 199	
Trucks and buses: Factory sales (from U.S. plants), total @ do		2,414	221	191	212	230	161	192	226	241	233	207	246	252	283	(²)
Domestic @ do Retail sales, not seasonally adjusted: *	r	2,260	207	179	198	214	150	181	214	225	218	192	231	235	264	
Light-duty, up to 14,000 lbs. GVW do Medium-duty, 14,001-26,000 lbs. GVW do Heavy-duty, 26,001 lbs. and over GVW do	. 2,063.8 45.7 138.3	2,520.7 47.7 141.0	225.4 3.9 13.6	207.3 3.8 11.4	222.8 4.1 9.7	247.9 4.4 11.4	204.2 5.0 11.8	185.1 4.8 12.0	224.1 4.4 12.2	221.8 3.8 13.4	223.5 3.0 11.6	244.5 3.9 15.1	226.7 3.7 12.1	256.2 4.3 14.2	313.7 4.7 17.1	289.4 4.8 18.8
Retail sales, seasonally adjusted: Light-duty, up to 14,000 lbs. GVW do			180.7	202.8	201.3	206.9	223.4	192.8	241.2	240.1	248.0	268.8	3256.6	245.5	258.3	278.9
Medium-duty, 14,001-26,000 lbs. GVW do Heavy-duty, 26,001 lbs. and over GVW do			3.7 11.6	3.8 9.9	4.0 9.9	3.8 10.5	4.1 11.2	3.9 11.9	4.0 12.1	3.9 13.5	4.0 15.1	4.4 16.2	³ 4.6 ³ 12.6	5.3 15.4	4.5 14.8	5.0 16.4
Retail inventories, end of period: Not seasonally adjusted * do	539.5	583.7	543.7	545.9	551.3	551.4	498.4	509.1	532.8	571.4	603.1	583.7	649.5	672.8	686.4	684.6
Seasonally adjusted do Exports (BuCensus) do Imports (BuCensus), including separate chassis	. 545.5 124.43	591.4 °131.86	534.1 11.30	536.8 12.83	540.5 11.87	525.6 13.33	507.5 10.62	552.8 11.34	562.0 10.11	570.3 12.67	598.3 10.29	591.4 10.54	*629.4 10.52	664.3 15.20	676.7 15.76	673.6
and bodies	. 738.48	846.89	70.78	69.48	78.19	80.99	63.13	68.70	61.17	82.06	74.53	94.07	80.41	72.72	85.78	
produced on truck chassisthous.	. 2,430	2,977	227	244	254	275	259	254	249	265	253	332	282	302	329	
Truck trailers and chassis, complete (excludes detachables), shipments †nymber. Vans †	96,190 64,892	121,711 86,444	9,848 6,367	6,979 4,808	8,708 5,958	9,674 6,714	8,387 5,202	11,513	12,898 9,683	12,775 9,521	13,182 9,739	14,736 11,168	15,391			
Trailer chassis (detachable), sold separately † do Trailer chassis (detachable), sold separately † do	3,988	2,215	153	4,808 61 47	5,558 69 147	620	5,202 57 456	8,632 299 414	9,005 271 300	9,521 171 578	9,739 180 921	629 961	11,750 88 1,638	·····	·····	
RAILROAD EQUIPMENT													_,			
Freight cars (new), for domestic use; all railroads and private car lines (excludes rebuilt cars and																
cars for export): Shipmentsnumber Equipment manufacturers do	¹ 17,236 ¹ 15,515	15,772 15,570	444 334	205 205	376 376	338 338	260 260	469 469	460 458	736 736	615 615	745 745	415 415	528 528	894 894	
New orders do Equipment manufacturers	17,071 16,321	^{15,964} ^{15,962}	207 207	205 615 614	797 797	150 150	934 934	469 287 287	458 416 416	736 642 642	351 351	745 805 805	2,736 2,736	528 1,523 1,523	1,213 1,213	
Unfilled orders, end of period	4,295	3,271 3,271	3,916 3,914	4,326 4,323	4,747 4,744	4,559 4,556	3,897 3,894	3,755 3,752	3,756 3,756	3,368 3,368	3,156 3,156	3,271 3,271	5,553 5,553	6,548 6,548	6,928 6,928	
Freight cars (revenue), class 1 railroads (AAR): ‡ Number owned, end of periodthous	. 1,039	1,007	1,031	1,028	1,026	1,024	1,020	1,019	1,018	1,015	1,011	1,007	1,006	1,001	996	
Held for repairs, % of total owned	8.7 84.87	10.0 82.96	9.2 84.55	9.5 84.44	10.0 84.18	10.0 84.01	10.1 83.77	10.0 83.68	9.8 83.66	10.0 83.43	9.8 83.20	10.0 82.96	10.0 82.96	10.0 82.60	10.4 82.22	
Average per cartons.	81.68	82.37	82.01	82.18	82.03	82.05	82.10	82.09	82.17	82.24	82.29	82.37	82.43	82.52	82.56	

FOOTNOTES FOR PAGES S-1 THROUGH S-32

General Notes for all Pages:

- r Revised.
- p Preliminary.
- e Estimated.
- c Corrected.

Page S-1

‡ Includes inventory valuation and capital consumption adjustments.

§ Monthly estimates equal the centered three-month average of personal saving as a percentage of the centered three-month moving average of disposable personal income.

Page S-2

1. Based on data not seasonally adjusted.

Includes data not shown separately

[#] See note "‡" for p. S-8.
[†] See note "†" for p. S-8.
^{††} See note "" for p. S-3.

@ Revised series. For manufacturing see note "††" for p. S-3. For retail see note "‡" for p. S-8. For wholesale see note "[†]" for p. S-8.

Page S-3

Includes data for items not shown separately.

See note "‡" for p. S-8. See note "†" for p. S-8.

tt Effective May 1984 SURVEY, data have been revised for Jan. 1977-Dec. 1983. A detailed description of this revision and data appear in the report "Manufacturers' Ship-ments, Inventories, and Orders" M3-1.13 (1977-1983), copies of this report can be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. A computer tape of the report, including data back to 1958 can be purchased from the Data User Services Division, Customer Services Branch, Bureau of the Census, Washington, DC 20233.

@ See note "@" for p. S-2.

Page S-4

1. Based on data not seasonally adjusted.

Includes data for items not shown separately.

‡ Includes textile mill products, leather and products, paper and allied products, and printing and publishing industries; unfilled orders for other nondurable goods industries are zero.

† See note "††" for p. S-3.

♦ For these industries (food and kindred products, tobacco, apparel and other textile products, petroleum and coal, chemicals and allied products, and rubber and plastics products) sales are considered equal to new orders.

Page S-5

1. Based on unadjusted data.

2. Series will resume when Dun & Bradstreet has completed revising data processing procedures.

@ Compiled by Dun & Bradstreet, Inc.

Includes data for items not shown separately.

Ratio of prices received to prices paid (parity index). See note "‡" for p. S-4.

Effective with the Feb. 1984 SURVEY, data have been revised (back to 1981 for some commodities) and are available upon request.

♦ Beginning with data for January 1983, the index is affected by a change in methodology used to compute the homeownership component. For additional information regarding this change, see p. S-36 of the Feb. 1983 SURVEY.

* New series. †† See note "††" for p. S-3.

Page S-6

§ For actual producer prices or price indexes of individual commodities, see respective commodities in the Industry section beginning p. S-19. All indexes subject to revision four months after original publication.

 Includes data for items not shown separately.
 New series. This index (first shown in the Feb. 1984 SURVEY) reflects costs associated with homeowners' consumption of shelter service. This new index combines the subindexes of owners' equivalent rent and household insurance. Indexes prior to Dec. 1982 are not available. For additional information, see p. S-36 of the Feb. 1983 SURVEY.

‡ Effective with the Feb. 1984 SURVEY, data have been revised back to 1979 to reflect updated seasonal factors and are available upon request.

† Effective with the Feb. 1984 SURVEY, data back to 1979 have been revised and are available upon request. \diamond See note " \diamond " for p. S-5.

Page S-7

1. Computed from cumulative valuation total.

2. Index as of May 1, 1984: building, 358.1; construction, 385.6.

3. The corrected Jan.-Feb. 1983 index is 156.5.

Includes data for items not shown separately.

Data for Mar., June, Sept., and Dec. 1983, and Mar. 1984 are for five weeks; other months four weeks.

† Data for seasonally adjusted housing starts have been revised from 1981-83, and are available upon request.

@ Unadjusted data for manufacturers' shipments of mobile homes for January 1982 through November 1983 and seasonally adjusted data for January 1981 through November 1983 have been revised and are available upon request.

Page S-8

1. Advance Estimate.

2. Direct endorsement cases are included beginning with June data.

♦ Home mortgage rates (conventional first mortgages) are under money and interest rates on p. S-14.

§ Data include guaranteed direct loans sold.

 # Includes data for items not shown separately.
 † Effective April 1984 SURVEY, wholesale trade data have been revised for Jan. 1978-Dec. 1983. A detailed description and the revised series appear in the report "Revised Monthly Wholesale Trade" BW-13-83s, available from the Bureau of the Census, Washington, DC 20233; \$2.50 per copy.

‡ Effective April 1984 SURVEY, retail trade data have been revised for Jan. 1978-Dec. 1983. Revised data and a summary of changes appear in the report "Revised Monthly Retail Sales and Inventories" BR-13-83s, available from the Bureau of the Census, Washington, DC 20233; \$2.75 per copy.

* New series. Annual data for earlier periods are available upon request. Monthly data for earlier periods will be available later.

Page S-9

1. Advance estimate.

Includes data for items not shown separately.

♦ Effective with the January 1984 SURVEY, the seasonally adjusted labor force series have been revised back to January 1979. Revised monthly series appear in the February 1984 issue of Employment and Earnings.

† The participation rate is the percent of the civilian noninstitutional population in the civilian labor force. The employment-population ratio is civilian employment as a percent of the civilian noninstitutional population, 16 years and over.

‡ See note "‡" for p. S-8.* New series.

@ Data include resident armed forces.

Page S-10

1. This series has been discontinued. § These unemployment rates are for civilian workers only. The unemployment rate for

all workers, including the resident armed forces, was 7.7 in Apr. 1984.

♦ See note "♦" for p. S-9.
 * New series.

Page S-11

[‡] This series is not seasonally adjusted because the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

Production and nonsupervisory workers.
 * New series.

Page S-12

1. This series is not seasonally adjusted because the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision. Use the corresponding unadjusted series.

2. This series has been discontinued.

3. Data are unavailable.

♦ Production and nonsupervisory workers.

‡ Earnings in 1977 dollars reflect changes in purchasing power since 1977 by dividing by Consumer Price Index.

Wages as of May 1, 1984: Common, \$15.63; Skilled, \$20.53. New series.

@ New series. The Employment Cost Index (ECI) is a quarterly measure of the average change in the cost of employing labor.

† Excludes farm, household, and Federal workers.

Page S-13

1. Average for Dec.

2. Reported annual; monthly revisions are not available.

3. Effective December 1, 1982, there was a break in the commercial paper series because of changes in reporting panels, modifications to reporting instructions and corrections to misreported bank data.

‡ Effective January 1984, series revised due to changes in the reporting panel and in the item contents. The new panel includes 168 banks that had domestic office assets exceeding \$1.4 billion as of December 31, 1982.

Includes data for items not shown separately.

‡‡ Reflects offsetting changes in classification of deposits of thrift institutions. Deposits of thrifts were formerly grouped with deposits of individuals, partnerships, and corporations, instead of with deposits of commercial banks in the United States.

* "Transaction balances other than demand deposits" consists of ATS, NOW, super NOW, and telephone transfer accounts, which formerly were classified with savings depos-its. "Nontransaction balances" reflects the combination of deposits formerly reported separately as time deposits and the savings deposits remaining after deduction of the items now reported separately under "transaction balances."

§ Excludes loans and federal funds transactions with domestic commercial banks and includes valuation reserves (individual loan items are shown gross; i.e., before deduction of valuation reserves).

♦ Securities of Federal agencies and corporations have been shifted out of "other securities" and are now combined with U.S. Treasury securities. Also, loan obligations of States and political subdivisions have been shifted out of "other securities" and are now shown separately among the loan items.

@ Insured unemployment (all programs) data include claims filed under extended duration provisions of regular State laws; amounts paid under these programs are excluded from state benefits paid data.

@@ Insured unemployment as a percent of average covered employment in a 12-month period.

Page S-14

1. Data are for fiscal years ending Sept. 30 and include revisions not distributed to the months.

2. Average for the year.

3. Daily average.

Interest rate charged as of Apr. 1, 1984 was 10.87. 4

† Effective April 1984 SURVEY, the consumer installment credit series have been revised back to July 1980 to reflect more complete benchmark data for some of the components.

Includes data for items not shown separately. Adjusted to exclude domestic commercial interbank loans and federal funds sold to domestic commercial banks.

‡ Rates on the commercial paper placed for firms whose bond rating is Aa or the equivalent

‡‡ Courtesy of Metals Week.

@@ Average effective rate New series.

Page S-15

1. Beginning 1983, the reporting frequency has been changed from a monthly to a quarterly basis.

2. This series has been discontinued.

1. This service Feb. 1984 SURVEY, the money stock measures and components have been revised back to 1959 and are available from the Banking Section of the Division of Research and Statistics at the Federal Reserve Board, Washington, D.C. 20551

‡ Composition of the money stock measures is as follows:

M1.-This measure is currency plus demand deposits at commercial banks and interestearning checkable deposits at all depository institutions-namely NOW accounts, automatic transfer from savings (ATS) accounts, and credit union share draft balances-as well as a small amount of demand deposits at thrift institutions that cannot, using present data sources, be separated from interest-earning checkable deposits.

M2.-This measure adds to M1 overnight repurchase agreements (RP's) issued by commercial banks and certain overnight Eurodollars (those issued by Caribbean branches of member banks) held by U.S. nonbank residents, money market mutual fund shares, and savings and small-denomination time deposits (those issued in denominations of less than \$100,000) at all depository institutions. Depository institutions are commercial banks (including U.S. agencies and branches of foreign banks, Edge Act corporations, and foreign investment companies), mutual savings banks, savings and loan associations, and credit unions.

M3.-This measure equals M2 plus large-denomination time deposits (those issued in denominations of \$100,000 or more) at all depository institutions (including negotiable CD's) plus term RP's issued by commercial banks and savings and loan associations.

L.-This broad measure of liquid assets equals M3 plus other liquid assets consisting of other Eurodollar holdings of U.S. nonbank residents, bankers acceptances, commercial paper, savings bonds, and marketable liquid Treasury obligations.

‡‡ Includes ATS and NOW balances at all depository institutions, credit union share draft balances, and demand deposits at thrift institutions.

♦ Overnight (and continuing contract) RP's are those issued by commercial banks to the nonbank public, and overnight Eurodollars are those issued by Caribbean branches of member banks to U.S. nonbank customers.

* New series. For "Other checkable deposits," see also note "‡‡" for this page.

@ Small time deposits are those issued in amounts of less than \$100,000. Large time deposits are those issued in amounts of \$100,000 or more and are net of the holdings of domestic banks, thrift institutions, the U.S. Government, money market mutual funds, and foreign banks and official institutions.

Includes data for items not shown separately.

§ Number of issues represents number currently used; the change in number does not affect the continuity of the series.

@@ Annual data for 1978-82 and monthly data for 1982 have been revised to exclude private placements. Monthly revisions for 1978-81 are not available.

Page S-16

1. The Aaa public utility average was suspended Jan. 17, 1984, because of a lack of appropriate issues. The 1984 ranges for the average corporate and Aaa corporate do not include Aaa utilities after January 16.

§ Number of issues represents number currently used; the change in number does not affect the continuity of the series.

For bonds due or callable in 10 years or more.
Includes data for items not shown separately.

@ Data may not equal the sum of the geographic regions, or commodity groups and principal commodities, because of revisions to the totals not reflected in the component items.

 \diamond As of Jan. 25, 1984, the base period was changed to 1982 = 100.

Page S-17

1. Beginning with Jan. 1982 data, the Customs value is being substituted for the f.a.s. value.

Includes data not shown separately.

§ Data may not equal the sum of geographic regions, or commodity groups and principal commodities, because of revisions to the totals not reflected in the components.

Page S-18

1. See note 1 for p. S-17.

2. Annual total; quarterly or monthly revisions are not available.

3. Before extraordinary and prior period items.

4 For month shown. 5. Domestic trunk operations only (averaging about 90 percent of domestic total).

6. Restaurant sales index data represent hotels and motor hotels only.

Includes data for items not shown separately.

Total revenues, expenses, and income for all groups of carriers also reflect nonscheduled service.

‡ Beginning Jan. 1977, Class I railroads are defined as those having operating revenues of \$50 million or more.

♦ Average daily rent per room occupied, not scheduled rates.

Data represent entries to a national park for recreational use of the park, its services, conveniences, and/or facilities. * New series.

Page S-19

1. Reported annual total; monthly revisions are not available.

2. A portion of data is being withheld to avoid disclosing information for individual companies; not comparable with other published data.

3. A portion of data is being suppressed because of not meeting publication standards. For nitrogen solutions, prior to May 1983, see also note 2 for this page.

4. Figure is being suppressed because of not meeting publication standards.

5. Effective with May 1984 SURVEY, data have been restated to represent thousands of metric tons.

Includes data for items not shown separately.

§ Data are reported on the basis of 100 percent content of the specified material unless otherwise indicated

Monthly data back to 1981 have been revised and are available upon request:

New series, first shown in the Mar. 1984 SURVEY. Annual and monthly data back to 1980 are available upon request.

Page S-20

1. Reported annual total; monthly revisions are not available.

Annual total includes data for Hawaii; not distributed to the months.

§ Data are not wholly comparable from year to year because of changes from one classification to another.

‡ Revised quarterly data for 1981 and 1982 are available upon request.

♦ Effective 1983, data are based on a new sample of approximately 150 establishments, which was selected using the 1981 annual survey "Paints and Allied Products" panel as a universe frame. Comparable data for 1979-82 are available upon request.

† Revised quarterly data for 1982 are available upon request.

Page S-21

1. Based on quotations for fewer than 12 months.

2. Crop estimate for the year.

3. Stocks as of June 1.

4. Stocks as of June 1 and represents previous year's crop; new crop not reported until June (beginning of new crop year).

Previous year's crop; new crop not reported until Oct. (beginning of new crop year).
 See note "@" for this page.

7. Figure is preliminary and subject to change.

Quarterly estimates of rye stocks will no longer be available; however, June 1 stock estimates (representing previous year's crop) will continue to be published each year.

9. Represents stocks as of June 1, based on previous year's crop.

10. May 1 estimate of 1984 crop.

§ Excludes pearl barley.

Bags of 100 lbs

@ Data are quarterly except for June (covering Apr. and May) and Sept. (covering June-Sept.).

New series, first shown in the Mar. 1984 SURVEY. Annual and monthly data for earlier periods are available upon request.

Page S-22

§ Cases of 30 dozen.

♦ Bags of 132.276 lbs.
★ Monthly precision for 1082 and

Monthly revisions for 1982 are available upon request.
 * New series, first shown in the Mar. 1984 SURVEY. Annual and monthly indexes cover-

ing wheat for earlier periods are available upon request.

Page S-23

1. Crop estimate for the year.

2. Average for seven months; price not available for July, Aug., and Oct.-Dec.

3. Annual total; monthly revisions are not available.

4. Effective December 1983 SURVEY, the footwear production series have been revised back to January 1981.
 # Totals include data for items not shown separately.

* New series, first shown in the Mar. 1994 SURVEY. Annual and monthly indexes for earlier periods are available upon request.

† New series.

Page S-24

1. Annual data; monthly revisions not available.

2. Less than 500 short tons.

† New series.

Page S-25

1. Annual data; monthly revisions are not available

2. For month shown.

† Beginning January 1982, data represent metallic (mostly aluminum) content. Data for 1981 and prior years represent aluminum content only.

* New series.

Page S-26

1. Annual data; monthly revisions are not available.

2. Less than 50 tons.

♦ Includes secondary smelters' lead stocks in refinery shapes and in copper-base scrap.

@ All data (except annual production figures) reflect GSA remelted zinc and zinc purchased for direct shipment.

Page S-27

1. Data withheld to avoid disclosing information for individual companies.

2. Data are for five weeks; other months 4 weeks.

Includes data for items not shown separately.

§ Includes nonmarketable catalyst coke

 \Diamond Includes small amounts of "other hydrocarbons and alcohol new supply (field production)," not shown separately.

† Effective with the Nov. 1983 SURVEY, monthly revisions for 1982 are available upon request.

* New series. Includes U.S. produced and imported microwave ovens and combination microwave oven/ranges.

Page S-28

1. Reported annual totals; revisions not allocated to the months.

2. Effective with Jan. 1983, data include road oil. Total road oil data for 1982 were (thous. bbl.): 591, domestic demand; 610, production; 47, stocks.

† New series. First shown in March 1984 SURVEY. Earlier data are available upon request.

* New series, first shown in the Feb. 1984 SURVEY. Prices back to 1974 are available upon request.

Includes data for items not shown separately.

Page S-29

1. See note 1 for p. S-28.

2. Average for 11 months; no price available for Dec. 1983.

♦ Source: American Paper Institute. Total U.S. estimated consumption by all newspaper users.

† See note "†" for p. S-28.

Page S-30

1. Reported annual total; revisions not allocated to the months.

2. Crop for the year.

Data cover five weeks; other months, four weeks.
 See note "@" for this page.

Includes data for items not shown separately

Cumulative ginnings to the end of month indicated.

§ Bales of 480 lbs.

[‡] Beginning Jan. 1982, shipments include those for direct export; such shipments for 1981 were 2,165 thous. gross.

[†] Monthly revisions for 1981 and 1982 are available upon request.

@ Effective with the Mar. 1984 SURVEY, sales of regular basecoat and all other building plasters (including Keene's cement) have been combined to represent sales of total building plasters. For comparability, earlier published figures for these two series should be combined.

Page S-31

1. Monthly data discontinued for the year 1982; reinstated beginning Jan. 1983.

2. Annual total includes revisions not distributed to the months

3. Average for crop year; Aug. 1-Jul. 31.

4. For five weeks; other months four weeks

5. Monthly average.

Less than 500 bales.
 Average for 9 months: no data

Average for 9 months; no data for Oct.-Dec.
 Average for 10 months; no data for Jan.-Feb.

 \diamond Based on 480-lb. bales, preliminary price reflects sales as of the 15th; revised price reflects total quantity purchased and dollars paid for the entire month (revised price includes discounts and premiums).

Includes data not shown separately.

New series.

Page S-32

1. Annual total includes revisions not distributed to the months.

2. Production of new vehicles (thous. of units) for Apr. 1984: passenger cars, 672; trucks, 261.

3. Effective with the Feb. 1984 SURVEY, data have been revised back to 1981 to reflect updated seasonal factors and are available upon request.

Monthly data discontinued for the year 1982; reinstated beginning Jan. 1983.
 Effective with the April 1984 SURVEY, data have been revised back to 4th Qtr. 1980

and are available upon request.

Total includes backlog for nonrelated products and services and basic research. § Domestics comprise all cars assembled in the U.S. and cars assembled in Canada and imported to the U.S. under the provisions of the Automotive Products Trade Act of 1965. Imports comprise all other cars.

 \diamond Courtesy of R.L. Polk & Co.; republication prohibited. Because data for some states are not available, month-to-month comparisons are not strictly valid.

‡ Excludes railroad-owned private refrigerator cars and private line cars.

[†] Monthly revisions for aircraft shipments and airframe weight for 1982 are available upon request. Monthly revisions for truck trailers, etc. for 1981 and 1982 are available upon request.

Includes passenger vans.

* New series, first shown in the Mar. 1984 SURVEY. Annual and monthly data back to 1967 are available upon request.

†† Includes Volkswagens produced in the U.S.

New Series

Beginning with the March 1984 issue, several new series will be shown in "Current Business Statistics" (blue pages) of the SURVEY OF CURRENT BUSINESS. Some of them replace series that are no longer available or had in some way deteriorated in quality; others are additions to the earlier coverage. The new series are listed below, along with the page number on which they will regularly appear. In the months to come, descriptions for selected series will be provided on this page.

Page	Series	Page	Series
S-5	Unfilled orders for home goods and apparel; consumer staples; equipment and defense products, excluding auto; and automotive equipment are shown separately.		for seasonally adjusted "outstanding" and "net change" have been added. Series for credit held by savings and loan institutions have also been added.
S-8	Several series on newspaper advertising ex- penditures from Media Records, Inc. have been replaced with series from the News- paper Advertising Bureau, Inc.	S-15	"Money market deposit accounts" and seasonally adjusted "other checkable deposits" have been added to the Monetary Statistics subsection.
S-9	The population series from the Bureau of the Census has been replaced with two series from the Bureau of Labor Statistics, "total non- institution length of the series" and the series of the series	S-18	Two series covering economy hotels have been added to the Travel subsection: "Average room sale" and "Rooms occupied."
	institutional population" and "civilian non- institutional population," that refer to per- sons 16 years and over.	S-19	"Denatured alcohol, consumption for fuel use" has been added to the Alcohol subsection.
S-10	The unemployment rate for "Black and other" has been replaced with the rate for "Black." Unemployment rates for "Hispanic origin,"	S-21	Producer Price Indexes for butter, barley, corn, oats, and rye have been added.
	"agricultural wage and salary workers," and a new occupational breakdown have been added.	S-22	Producer Price Indexes for wheat and wheat flour have been added.
	The government employment series "State and local" has been replaced with a separate	S-23	Producer Price Indexes for sugar (raw and refined), and Douglas fir have been added.
0 10 11 10	breakdown: "State government" and "local government."	S-24	Producer Price Indexes for softwood lumber, and pig iron have been added.
S-10,11,12	In the Labor Force, Employment, and Earn- ings section, the series covering "Wholesale and retail trade" are no longer shown. "Whole- sale trade" and "retail trade" are shown separ-	S-27	Shipments of microwave ovens/ranges have been added to the Electrical Equipment sub- section.
S-12	ately. Eight series for the Employment Cost Index	S-28 and S-29	Discontinued monthly pulp and paper series from the Bureau of the Census have been re-
	have been added.		placed with series from the American Paper Institute.
S-13	The deposits, loans, and investment series reported by large commercial banks have been revised. The revision includes some new items and definitional changes.	S-30	"Building plasters, total" replaces the break- down that had been shown previously in the Gypsum and Products subsection.
S-14	The prime rate charged by banks on short- term business loans has been added.	S-31	Producer Price Indexes for gray cotton broad- wovens, and gray synthetic broadwovens have been added.
	The Consumer Installment Credit subsection has been revamped. Data for extensions and liquidations are no longer available. Series	S-32	Unadjusted retail sales and inventories for trucks and buses have been added.

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e	Railroads
۳	Ranges and microwave ovens
and products	Receipts, U.S. Government
t and products	Registrations (new vehicles)
re stores	Retail trade
equipment	Rice
nd skins	6, 10-12 Saving, personal
oan banks, outstanding advances	Savings and loan associations
motor hotels and economy hotels	Savings deposits
average weekly	Security markets
old appliances, radios, and television sets 27 g starts and permits	Sheep and lambs
(see also individual commodities)	Silver
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and employment tax receipts	Stock market customer financing Stock prices, yields, sales, etc
dustry	Stone, clay, glass products
ent credit	Sulfur. Sulfuric acid
and money rates14	Superphosphate
ries, manufacturers' and trade	Synthetic textile products
d steel	Telephone and telegraph carriers
orce	Textiles and products
and products	Tires and inner tubes
ck 5, 22 real estate, agricultural, bank (see also	Tractors
umer credit)	Transit lines, urban
and products	Transportation equipment
e tools	Travel
ery	Trucks
\$	U.S. Government bonds
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cturing production indexes	Vacuum cleaners
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OFFICIAL BUSINESS

Penalty for Private Use, \$300

In the first quarter

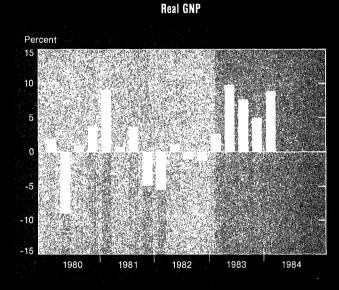
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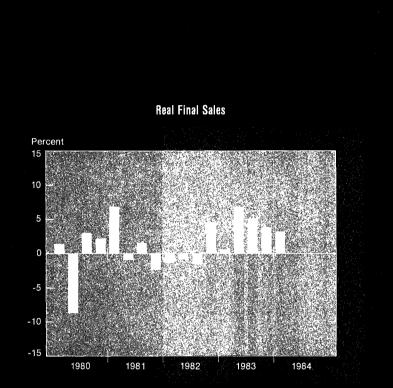
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- Real GNP increased 9 percent
 Real final sales increased 3 percent
 GNP fixed-weighted price index increased 5 percent
- Real disposable personal income increased 10 percent

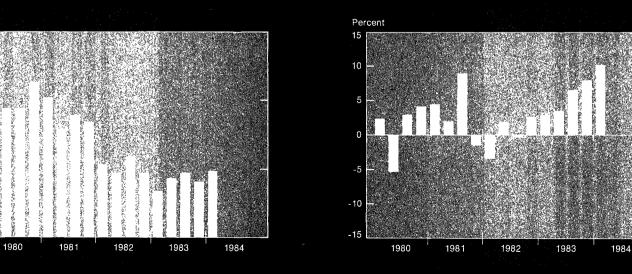


GNP Fixed-Weighted Price Index









Percent change at an annual rate from preceding quarter; based on seasonally adjusted estimates