

SURVEY OF CURRENT BUSINESS



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Subject Index (Inside Back Cover)

SURVEY OF CURRENT BUSINESS. Published monthly by the Bureau of Economic Analysis of the U.S. Department of Commerce. Editorial correspondence should be addressed to the Editor-in-Chief, Survey of Current Business, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, D.C. 20230.

First-class mail.—Domestic only: Annual subscription \$31.00.

Second-class mail.—Annual subscription: \$19.00 domestic; \$23.75 foreign. Single copy: \$1.60 domestic; \$2.00 foreign.

Foreign air mail rates available upon request.

Mail subscription orders and address changes to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Make checks payable to Superintendent of Documents.

Second-class postage paid at Washington, D.C. and at additional mailing offices.

The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 1, 1980.

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the BUSINESS SITUATION

REVISED (45-day) estimates show that real GNP increased about 6.4 percent (annual rate) in the fourth quarter, 0.3 percentage point more than shown by the preliminary (15-day) estimate (table 1). The upward revision centered in personal consumption expenditures. Fixed investment, both residential and nonresidential, was also revised upward; the other major components of GNP were revised downward. GNP prices as measured by the implicit price deflator increased 8.1 percent, the same as shown by the preliminary estimates. As measured by the fixed-weighted price index, prices increased 8.4 percent, 0.3 percentage point less than shown earlier.

Special reconciliation tables

The reconciliations of changes in compensation per hour and average hourly earnings and of changes in the implicit price deflator for personal consumption expenditures (PCE) and the Consumer Price Index (CPI) are shown in tables 2 and 3, respectively. Compensation per hour of all persons in the business economy other than farm and housing increased 8.8 percent (annual rate) in the fourth quarter, compared with 9.4 percent for average hourly earnings of production and nonsupervisory workers in the private nonfarm economy. The implicit price deflator for PCE increased 6.5 percent (annual rate) in the fourth quarter, compared with 6.9 percent for the chain price index and 8.4 percent for the CPI for All Urban Consumers. The

major factor in the larger increase in the CPI was the CPI expenditure component for homeownership, which has no comparable PCE component.

Table 1.—Revisions in Selected Component Series of the NIPA's, Fourth Quarter of 1978
[Seasonally adjusted at annual rates]

	Levels			Percent change from preceding quarter		
	15-day estimate	45-day estimate	Revision	15-day estimate	45-day estimate	Revision
Billions of current dollars						
GNP	2,210.8	2,212.1	1.3	14.7	15.0	0.3
Personal consumption expenditures.....	1,402.2	1,405.1	2.9	14.0	15.0	1.0
Nonresidential fixed investment.....	235.0	235.2	.2	13.8	14.3	.5
Residential investment.....	112.5	113.3	.8	13.5	16.8	3.3
Change in business inventories.....	12.4	11.6	-.8			
Net exports.....	-6.9	-7.8	-.9			
Government purchases.....	455.6	454.6	-1.0	15.2	14.2	-1.0
Federal.....	163.4	162.3	-1.1	26.8	23.2	-3.6
State and local.....	292.2	292.3	.1	9.3	9.5	.2
National income						
Compensation of employees.....	1,358.9	1,359.6	.7	13.3	13.6	.3
Corporate profits with inventory valuation and capital consumption adjustments.....						
Other.....	257.1	257.6	.5	18.9	19.8	.9
Billions of constant (1972) dollars						
GNP	1,412.2	1,413.0	.8	6.1	6.4	.3
Personal consumption expenditures.....	910.0	912.6	2.6	6.8	8.0	1.2
Nonresidential fixed investment.....	143.5	143.7	.2	5.4	5.7	.3
Residential investment.....	59.8	60.2	.4	1.1	3.7	2.6
Change in business inventories.....	7.7	7.0	-.7			
Net exports.....	11.0	10.1	-.9			
Government purchases.....	230.1	278.5	48.4	5.1	4.1	-1.0
Federal.....	103.3	102.4	-.9	12.0	8.3	-3.7
State and local.....	176.8	177.1	.3	1.3	1.8	.5
Index numbers, 1972=100 ¹						
GNP implicit price deflator.....	156.54	156.55	.01	8.1	8.1	0
GNP fixed-weighted price index.....	159.0	158.9	-.1	8.7	8.4	-.3
GNP chain price index.....				8.5	8.2	-.3

1. Not at annual rates.

NOTE.—For the fourth quarter of 1978, the following revised or additional major source data became available: For *personal consumption expenditures*, revised retail sales for November and December, and sales and inventories of used cars of franchised automobile dealers for November; for *nonresidential fixed investment*, manufacturers' shipments of equipment for November (revised) and December, construction put in place for November (revised) and December, and a partial tabulation of business expenditures for plant and equipment for the quarter; for *residential investment*, construction put in place for November (revised) and December; for *change in business inventories*, book values for manufac-

ing and trade for November (revised) and December; for *net exports of goods and services*, merchandise trade for November (revised) and December, and revised net investment income and other services receipts for the quarter; for *government purchases of goods and services*, Federal unified budget outlays for December, and State and local construction put in place for November (revised) and December; for *wages and salaries*, revised employment, average hourly earnings, and average weekly hours for November and December; for *net interest*, revised net interest received from abroad for the quarter; for *GNP prices*, the Consumer Price Index for December, unit value indexes for exports and imports for December, and residential housing prices for the quarter.

Table 2.—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

	1978			
	I	II	III ^r	IV ^p
1. Compensation per hour of all persons in the business economy other than farm and housing (percent change at annual rate) ¹	11.7	8.5	9.3	8.8
2. Less: Contribution of supplements.....	1.8	-.2	.7	-.1
3. Plus: Contribution of employees of housing and of nonprofit institutions.....	.1	0	0	-.1
4. Less: Contribution of employees of government enterprises and self-employed and unpaid family workers.....	-.1	-.3	.3	.6
5. Equals: Wages and salaries per hour of employees in the private nonfarm economy (percent change at annual rate).....	10.1	9.0	8.3	8.2
6. Less: Contribution of nonproduction workers in manufacturing.....	-.2	-.5	0	-.1
7. Less: Contribution of non-BLS data, detailed weighting, and seasonal adjustment.....	1.9	-.6	.5	-1.1
Commodity-producing industries.....	.1	-1.4	-.5	-.9
Manufacturing.....	-.2	-.3	-.2	-.8
Distributive industries.....	.6	.7	.5	-.6
Service industries.....	1.2	.1	.5	.4
8. Equals: Average hourly earnings, production and nonsupervisory workers in the private nonfarm economy (percent change at annual rate).....	8.4	10.1	7.8	9.4

^r Revised ^p Preliminary
 1. BLS estimates of changes in hourly compensation in the nonfarm business sector for the four quarters are 12.2, 8.3, 9.4, and 8.9 percent.

Table 3.—Reconciliation of Changes in the Implicit Price Deflator for Personal Consumption Expenditures and the Consumer Price Index for all Urban Consumers, Seasonally Adjusted Quarterly

	1978		
	II	III ^r	IV ^p
1. Implicit price deflator for personal consumption expenditures (percent change at annual rate).....	8.7	6.4	6.5
2. Less: Contribution of shifting weights in PCE.....	-1.2	-.4	-.5
New autos.....	1.7	-1.8	0
Gasoline and oil.....	0	.3	.3
Electricity, gas, fuel oil, and coal.....	-1.9	-.2	-.4
Furniture and household equipment.....	.7	.2	.4
Food purchased for off-premise consumption.....	-2.1	-.6	-.4
Purchased meals and beverages.....	.3	-.2	-.3
Clothing and shoes.....	.7	.6	.8
Housing.....	-.3	0	-.5
Other.....	-.3	1.3	-.5
3. Equals: PCE chain price index (percent change at annual rate).....	10.0	6.7	6.9
4. Less: Contribution of differences in weights of comparable CPI and PCE expenditure components.....	.2	0	-.6
Gasoline and oil.....	0	-.1	-.2
Electricity, gas, fuel oil, and coal.....	-.1	-.1	0
Furniture, appliances, floor coverings, other household furnishings.....	0	.1	0
Food at home.....	.3	0	0
Food away from home.....	-.4	-.2	-.1
Apparel commodities.....	.2	0	0
Rent.....	-.3	-.3	-.3
Other.....	.5	.7	.2
5. Less: Contributions of PCE expenditure components not comparable with CPI components.....	-.5	.4	.3
New autos.....	-.1	.1	-.2
Net purchases of used autos.....	0	.1	.1
Owner-occupied nonfarm and farm dwellings-space rent.....	-.3	.2	.3
Services furnished without payment by financial intermediaries except life insurance carriers.....	-.1	0	0
Current expenditures by private nonprofit institutions.....	0	.1	.2
Other.....	0	-.1	-.1
6. Plus: Contribution of CPI expenditure components not comparable with PCE components.....	.1	2.2	.9
New autos.....	-.2	0	-.3
Used autos.....	-.1	0	.1
Homeownership.....	.7	2.1	1.3
Other.....	-.4	0	-.2
7. Less: Contribution of differences in seasonal adjustment ¹	-.5	-.1	-.2
8. Equals: Consumer Price Index, all items (percent change at annual rate).....	10.9	8.6	8.4

^r Revised ^p Preliminary
 1. These differences arise because component price indexes that are used in the BEA measures and in the CPI are seasonally adjusted at different levels of detail.

NATIONAL INCOME AND PRODUCT TABLES

	1977	1978	1977		1978				1977	1978*	1977		1978			
			III	IV	I	II	III	IV			III	IV	I	II	III	IV
			Seasonally adjusted at annual rates								Seasonally adjusted at annual rates					
Billions of current dollars									Billions of 1972 dollars							

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

Gross national product	1,887.2	2,106.9	1,916.8	1,958.1	1,992.0	2,087.5	2,136.1	2,212.1	1,332.7	1,385.3	1,343.9	1,354.5	1,354.2	1,382.6	1,391.4	1,413.0
Personal consumption expenditures	1,206.5	1,340.4	1,214.5	1,255.2	1,276.7	1,322.9	1,356.9	1,405.1	857.7	891.9	858.0	876.6	873.5	886.3	895.1	912.6
Durable goods.....	178.4	197.5	177.4	187.2	183.5	197.8	199.5	209.2	137.8	144.6	136.9	143.0	137.8	145.8	144.8	150.1
Nondurable goods.....	479.0	526.5	479.7	496.9	501.4	519.3	531.7	553.5	330.4	339.6	329.2	338.1	333.3	336.3	340.4	348.6
Services.....	549.2	616.4	557.5	571.1	591.8	605.8	625.8	642.5	389.5	407.6	391.8	395.6	402.4	404.2	410.0	413.8
Gross private domestic investment	297.8	344.6	309.7	313.5	322.7	345.4	350.1	360.1	196.3	210.0	201.7	200.3	205.7	213.1	210.4	210.9
Fixed investment.....	282.3	329.1	287.8	300.5	306.0	325.3	336.5	348.5	187.4	199.7	189.5	192.8	193.4	200.4	201.4	203.9
Nonresidential.....	190.4	222.1	193.5	200.3	205.6	220.1	227.5	235.2	129.8	139.9	130.8	132.5	133.8	140.5	141.7	143.7
Structures.....	63.9	77.6	65.4	67.4	68.5	76.6	80.9	84.6	40.0	44.4	40.8	41.0	41.0	44.6	45.6	46.4
Producers' durable equipment.....	126.5	144.5	128.1	132.8	137.1	143.5	146.6	150.7	89.8	95.5	90.0	91.5	92.9	95.9	96.1	97.2
Residential.....	91.9	107.0	94.3	100.2	100.3	105.3	109.0	113.3	57.7	59.8	58.8	60.3	59.5	59.9	59.7	60.2
Nonfarm structures.....	88.9	103.8	91.2	97.5	97.3	102.1	105.7	110.0	55.6	57.7	56.6	58.4	57.4	57.8	57.6	58.1
Farm structures.....	1.5	1.4	1.6	1.2	1.3	1.4	1.5	1.5	.9	.8	1.0	.7	.8	.8	.8	.8
Producers' durable equipment.....	1.5	1.7	1.5	1.6	1.7	1.8	1.7	1.8	1.2	1.3	1.2	1.2	1.3	1.4	1.3	1.3
Change in business inventories.....	15.6	15.5	21.9	13.1	16.7	20.1	13.6	11.6	8.9	10.3	12.2	7.5	12.3	12.7	9.0	7.0
Nonfarm.....	15.0	16.4	22.0	10.4	16.9	22.1	14.6	12.2	9.4	10.8	13.5	6.5	12.5	13.9	9.6	7.3
Farm.....	.6	-.9	-.1	2.7	-.2	-.2	-.9	-.6	-.5	-.6	-.4	.9	-.1	-.2	-.6	-.3
Net exports of goods and services	-11.1	-12.0	-7.0	-23.2	-24.1	-5.5	-10.7	-7.8	9.5	8.4	12.5	3.1	2.9	11.3	9.2	10.1
Exports.....	175.5	204.8	180.8	172.1	181.7	205.4	210.1	222.0	98.2	107.1	100.8	96.0	99.1	108.4	109.0	111.7
Imports.....	186.6	216.8	187.8	195.2	205.8	210.9	220.8	229.7	88.7	98.7	88.2	92.9	96.2	97.1	99.7	101.6
Government purchases of goods and services	394.0	434.0	399.5	412.5	416.7	424.7	439.8	454.6	269.2	275.0	271.7	274.5	272.1	271.9	276.7	279.5
Federal.....	145.1	153.7	146.8	152.2	151.5	147.2	154.0	162.3	101.6	100.3	102.9	103.6	101.2	97.1	100.4	102.4
National defense.....	94.3	99.5	94.4	97.1	97.9	98.6	99.6	102.1	.....	.....	.....	.....	.....	.....	.....	.....
Nondefense.....	50.8	54.2	52.4	55.1	53.6	48.6	54.5	60.2	.....	.....	.....	.....	.....	.....	.....	.....
State and local.....	248.9	280.2	252.7	260.3	265.2	277.6	285.8	292.3	167.6	174.7	168.8	170.9	170.8	174.8	176.3	177.1

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

Gross national product	1,887.2	2,106.9	1,916.8	1,958.1	1,992.0	2,087.5	2,136.1	2,212.1	1,332.7	1,385.3	1,343.9	1,354.5	1,354.2	1,382.6	1,391.4	1,413.0
Final sales.....	1,871.6	2,091.4	1,894.9	1,945.0	1,975.3	2,067.4	2,122.5	2,200.5	1,323.8	1,375.1	1,331.7	1,347.1	1,341.8	1,369.9	1,382.4	1,406.0
Change in business inventories.....	15.6	15.5	21.9	13.1	16.7	20.1	13.6	11.6	8.9	10.3	12.2	7.5	12.3	12.7	9.0	7.0
Goods	832.6	917.6	844.7	859.6	861.8	912.2	927.3	969.3	608.4	629.2	613.3	620.1	611.8	627.7	630.2	647.0
Final sales.....	817.0	902.1	822.8	846.5	845.1	892.1	913.7	957.7	599.6	618.9	601.1	612.7	599.4	615.0	621.2	640.0
Change in business inventories.....	15.6	15.5	21.9	13.1	16.7	20.1	13.6	11.6	8.9	10.3	12.2	7.5	12.3	12.7	9.0	7.0
Durable goods.....	341.3	376.3	346.5	347.4	351.2	375.8	380.1	398.3	253.7	265.1	255.9	255.1	254.6	266.6	264.8	274.3
Final sales.....	332.9	364.8	334.6	341.1	336.3	365.0	369.8	388.0	248.0	257.8	248.0	250.5	245.0	260.2	258.7	267.5
Change in business inventories.....	8.4	11.6	11.9	6.3	14.8	10.8	10.2	10.3	5.8	7.2	7.9	4.6	9.6	6.4	6.1	6.8
Nondurable goods.....	491.3	541.3	498.2	512.2	510.6	536.4	547.2	571.0	354.7	364.1	357.4	365.0	357.2	361.2	365.4	372.7
Final sales.....	484.1	537.3	488.2	505.4	508.7	527.1	543.9	569.7	351.6	361.1	353.1	362.1	354.5	354.8	362.5	372.5
Change in business inventories.....	7.2	4.0	10.0	6.8	1.9	9.3	3.4	1.3	3.1	3.0	4.3	2.9	2.7	6.3	2.9	.2
Services.....	862.8	962.7	875.3	893.6	926.4	952.0	973.7	998.8	602.9	627.2	606.9	609.6	620.1	625.6	629.7	633.3
Structures.....	191.8	226.6	196.8	204.9	203.8	223.4	235.0	244.0	121.3	129.0	123.7	124.8	122.3	129.3	131.6	132.7

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

Gross national product	1,887.2	2,106.9	1,916.8	1,958.1	1,992.0	2,087.5	2,136.1	2,212.1	1,332.7	1,385.3	1,343.9	1,354.5	1,354.2	1,382.6	1,391.4	1,413.0
Gross domestic product	1,869.9	2,087.6	1,898.7	1,942.2	1,973.8	2,066.5	2,117.3	2,192.6	1,325.3	1,377.5	1,336.3	1,347.9	1,346.6	1,373.9	1,383.9	1,405.4
Business.....	1,599.3	1,789.6	1,626.4	1,660.4	1,684.1	1,771.8	1,817.5	1,884.8	1,135.9	1,183.3	1,146.1	1,155.9	1,153.5	1,180.0	1,189.3	1,210.4
Nonfarm.....	1,544.0	1,730.9	1,571.6	1,601.6	1,628.9	1,714.9	1,758.5	1,824.2	1,094.2	1,146.2	1,102.6	1,112.4	1,115.4	1,145.2	1,151.8	1,172.5
Nonfarm less housing.....	1,397.8	1,506.7	1,423.2	1,449.0	1,471.7	1,553.2	1,592.0	1,660.0	980.5	1,026.8	988.0	996.4	998.1	1,026.5	1,031.7	1,051.0
Housing.....	146.2	164.3	148.4	152.7	157.1	161.7	166.5	171.7	113.6	119.4	114.6	118.0	117.4	118.6	120.1	121.5
Farm.....	50.5	57.8	47.7	54.0	58.0	56.4	58.6	63.0	34.4	32.5	34.5	36.1	32.5	30.5	33.2	33.6
Statistical discrepancy.....	4.7	.9	7.1	4.8	2.2	.5	.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Residual.....	.....	.....	.....	.....	.....	.....	.....	.....	7.3	4.6	9.0	7.4	5.5	4.3	4.3	4.3
Households and institutions.....	62.7	71.5	63.5	65.9	68.8	70.5	72.3	74.4	42.2	44.5	42.5	43.6	43.8	44.3	44.9	45.2
Government.....	208.0	226.5	208.9	215.9	221.0	224.1	227.5	233.4	147.2	149.6	147.7	148.4	149.4	149.6	149.8	149.8
Federal.....	66.4	71.1	65.7	69.5	69.9	70.1	70.5	74.0	48.7	48.9	48.8	48.8	48.8	49.0	48.9	48.9
State and local.....	141.5	155.4	143.2	146.4	151.1	154.1	157.0	159.4	98.4	100.8	99.0	99.6	100.6	100.8	100.8	100.9
Rest of the world	17.3	19.4	18.1	15.9	18.2	21.1	18.8	19.6	7.3	7.8	7.6	6.6	7.5	8.8	7.5	7.6

* Revised. Footnotes for tables 2 and 3 on p. 4

HISTORICAL STATISTICS

The national income and product data for 1929-72 are in *The National Income and Products Accounts of the United States, 1929-74: Statistical Tables* (available for \$4.95, SN 008-010-00052-9, from Commerce Department District Offices or the Superintendent of

Documents; see addresses inside front cover). Data for 1973, 1974, and 1975-77 are in July 1976, July 1977, and July 1978 issues of the *SURVEY*, respectively.

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted at annual rates					
Billions of dollars								

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

Gross national product.....	1,887.2	2,106.9	1,916.8	1,958.1	1,992.0	2,087.5	2,136.1	2,212.1
Less: Capital consumption allowances with capital consumption adjustment.....	195.2	216.9	198.5	202.6	207.3	213.3	220.8	226.3
Capital consumption allowances without capital consumption adjustment.....	153.6	165.4	155.9	157.8	161.0	163.9	166.9	169.9
Less: Capital consumption adjustment.....	-41.6	-51.5	-42.6	-44.7	-46.3	-49.4	-53.8	-56.4
Equals: Net national product.....	1,692.0	1,890.0	1,718.3	1,755.5	1,784.7	1,874.2	1,915.3	1,985.8
Less: Indirect business tax and nontax liability.....	165.1	178.3	166.5	170.1	173.3	179.4	177.7	182.6
Business transfer payments.....	9.6	10.7	9.9	10.0	10.2	10.5	10.9	11.3
Statistical discrepancy.....	4.7	.9	7.1	4.8	2.2	.5	.4	-----
Plus: Subsidies less current surplus of government enterprises.....	2.8	3.9	2.7	6.3	4.1	4.3	2.1	5.1
Equals: National income.....	1,515.3	1,704.1	1,537.6	1,576.9	1,603.1	1,688.1	1,728.4	-----
Less: Corporate profits with inventory valuation and capital adjustments.....	144.2	160.2	154.8	148.2	132.6	163.4	165.2	-----
Net interest.....	95.4	106.2	97.3	99.0	101.7	104.6	107.4	111.1
Contributions for social insurance.....	140.3	164.2	141.3	145.0	157.4	162.7	166.2	170.6
Wage accruals less disbursements.....	0	0	0	0	0	0	.2	0
Plus: Government transfer payments to persons.....	199.2	215.3	202.0	205.9	208.9	210.1	219.6	222.5
Personal interest income.....	141.2	158.9	143.6	146.0	151.4	156.3	161.7	166.2
Net interest.....	95.4	106.2	97.3	99.0	101.7	104.6	107.4	111.1
Interest paid by government to persons and business.....	43.0	49.3	43.3	44.5	46.7	48.4	50.6	51.3
Less: Interest received by government.....	25.8	30.3	26.3	27.3	28.5	29.7	30.9	32.3
Interest paid by consumers to business.....	28.6	33.8	29.3	29.8	31.5	33.0	34.6	36.0
Dividends.....	43.7	49.3	44.1	46.3	47.0	48.1	50.1	51.9
Business transfer payments.....	9.6	10.7	9.9	10.0	10.2	10.5	10.9	11.3
Equals: Personal income.....	1,529.0	1,707.6	1,543.7	1,593.0	1,628.9	1,682.4	1,731.7	1,787.3

Table 5.—Relation of Gross National Product, Net National Product, and National Income in Constant Dollars (1.10)

(Billions of 1972 dollars)

Gross national product.....	1,332.7	1,385.3	1,343.9	1,354.5	1,354.2	1,382.6	1,391.4	1,413.0
Less: Capital consumption allowances with capital consumption adjustment.....	128.9	131.9	129.3	130.2	130.9	131.6	132.3	133.0
Equals: Net national product.....	1,203.8	1,253.4	1,214.6	1,224.4	1,223.3	1,251.1	1,259.2	1,280.0
Less: Indirect business tax and nontax liability plus business transfer payments less subsidies plus current surplus of government enterprise.....	131.4	138.0	131.7	134.0	135.0	137.4	139.1	140.6
Residual ¹	7.3	4.6	9.0	7.4	5.5	4.3	4.3	-----
Equals: National income.....	1,065.1	1,110.8	1,073.9	1,083.0	1,082.8	1,109.4	1,115.8	-----

* Revised.

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted at annual rates					
Billions of dollars								

Table 6.—Net National Product and National Income by Sector in Current and Constant Dollars (1.11, 1.12)

Net national product.....	1,692.0	1,890.0	1,718.3	1,755.5	1,784.7	1,874.2	1,915.3	1,985.8
Net domestic product.....	1,674.7	1,870.6	1,700.2	1,739.6	1,766.5	1,853.2	1,896.5	1,966.2
Business.....	1,404.1	1,572.6	1,427.9	1,457.8	1,476.8	1,558.5	1,596.7	1,658.5
Nonfarm.....	1,363.2	1,529.6	1,387.6	1,413.9	1,436.7	1,517.0	1,553.5	-----
Farm.....	36.1	42.2	33.2	39.1	37.9	41.0	42.9	46.9
Statistical discrepancy.....	4.7	.9	7.1	4.8	2.2	.5	.4	-----
Households and institutions.....	62.7	71.5	63.5	65.9	68.8	70.5	72.3	74.4
Government.....	208.0	226.5	208.9	215.9	221.0	224.1	227.5	233.4
Rest of the world.....	17.3	19.4	18.1	15.9	18.2	21.1	18.8	19.6
National income.....	1,515.3	1,704.1	1,537.6	1,576.9	1,603.1	1,688.1	1,728.4	-----
Domestic income.....	1,498.0	1,684.7	1,519.5	1,560.9	1,584.9	1,667.1	1,709.7	-----
Business.....	1,227.4	1,386.7	1,247.2	1,279.1	1,295.2	1,372.4	1,409.9	-----
Nonfarm.....	1,192.6	1,345.4	1,216.0	1,238.7	1,257.7	1,332.4	1,368.5	-----
Farm.....	34.8	41.3	31.1	40.5	37.4	40.0	41.3	46.4
Households and institutions.....	62.7	71.5	63.5	65.9	68.8	70.5	72.3	74.4
Government.....	208.0	226.5	208.9	215.9	221.0	224.1	227.5	233.4
Rest of the world.....	17.3	19.4	18.1	15.9	18.2	21.1	18.8	19.6
Billions of 1972 dollars								
Net national product.....	1,203.8	1,253.4	1,214.6	1,224.4	1,223.3	1,251.1	1,259.2	1,280.0
Net domestic product.....	1,196.4	1,245.5	1,207.0	1,217.7	1,215.8	1,242.3	1,251.7	1,272.4
Business.....	1,007.0	1,051.4	1,016.8	1,025.7	1,022.6	1,048.5	1,057.0	1,077.4
Nonfarm.....	974.5	1,023.6	982.5	991.5	993.8	1,022.8	1,028.8	-----
Farm.....	25.2	23.2	25.3	26.9	23.3	21.3	23.9	24.3
Residual ¹	7.3	4.6	9.0	7.4	5.5	4.3	4.3	-----
Households and institutions.....	42.2	44.5	42.5	43.6	43.8	44.3	44.9	45.2
Government.....	147.2	149.6	147.7	148.4	149.4	149.6	149.8	149.8
Rest of the world.....	7.3	7.8	7.6	6.6	7.5	8.8	7.5	7.6
National income.....	1,065.1	1,110.8	1,073.9	1,083.0	1,082.8	1,109.4	1,115.8	-----
Domestic income.....	1,057.7	1,102.9	1,066.3	1,076.4	1,075.3	1,100.6	1,108.3	-----
Business.....	868.3	908.8	876.1	884.3	882.1	906.8	913.6	-----
Nonfarm.....	841.4	884.2	849.1	855.7	857.3	884.1	888.3	-----
Farm.....	26.9	24.6	27.0	28.7	24.8	22.7	25.3	25.5
Households and institutions.....	42.2	44.5	42.5	43.6	43.8	44.3	44.9	45.2
Government.....	147.2	149.6	147.7	148.4	149.4	149.6	149.8	149.8
Rest of the world.....	7.3	7.8	7.6	6.6	7.5	8.8	7.5	7.6

1. Equals GNP in constant dollars measured as the sum of final products less GNP in constant dollars measured as the sum of gross product by industry. The quarterly estimates are obtained by interpolating the annual estimates with the statistical discrepancy deflated by the implicit price deflator for gross domestic business product.

NOTE.—Table 6: The industry classification within the business sector is on an establishment basis and is based on the 1972 Standard Industrial Classification.

Footnotes for tables 2 and 3.

1. Equals GNP in constant dollars measured as the sum of final products less GNP in constant dollars measured as the sum of gross product by industry. The quarterly estimates are obtained by interpolating the annual estimates with the statistical discrepancy deflated by the implicit price deflator for gross domestic business product.

2. Held constant at level of previous quarter.

NOTE.—Table 2: "Final sales" is classified as durable or nondurable by type of product. "Change in business inventories" is classified as follows: For manufacturing, by the type of product produced by the establishment holding the inventory; for trade, by the type of product sold by the establishment holding the inventory; for construction, durable; and for other industries, nondurable.

Table 3: The industry classification within the business sector is on an establishment basis and is based on the 1972 Standard Industrial Classification.

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted at annual rates					
Billions of dollars								

Table 7.—National Income by Type of Income (I.13)

National income.....	1,515.3	1,704.1	1,537.6	1,576.9	1,603.1	1,688.1	1,728.4	-----
Compensation of employees...	1,153.4	1,301.4	1,165.8	1,199.7	1,241.0	1,287.8	1,317.1	1,359.6
Wages and salaries.....	983.6	1,100.9	993.6	1,021.2	1,050.8	1,090.2	1,113.4	1,149.2
Government and government enterprises.....	200.8	216.1	201.7	208.1	211.4	213.9	216.8	222.3
Other.....	782.9	884.8	791.9	813.1	839.3	876.3	896.6	926.9
Supplements to wages and salaries.....	169.8	200.5	172.2	178.4	190.2	197.6	203.6	210.4
Employer contributions for social insurance.....	79.4	94.5	79.9	82.4	90.2	93.6	95.7	98.6
Other labor income.....	90.4	105.9	92.2	96.1	100.0	104.0	107.9	111.8
Proprietors' income with inventory valuation and capital consumption adjustments.....	99.8	112.9	97.2	107.3	105.0	110.1	114.5	122.1
Farm.....	20.2	25.1	16.5	25.1	21.9	24.0	25.0	29.5
Proprietors income with inventory valuation adjustment and without capital consumption adjustment.....	24.6	29.9	21.0	29.8	26.6	28.8	29.7	34.3
Capital consumption adjustment.....	-4.4	-4.8	-4.5	-4.7	-4.7	-4.8	-4.8	-4.8
Nonfarm.....	79.5	87.8	80.8	82.3	83.1	86.1	89.6	92.6
Proprietors' income without inventory valuation and capital consumption adjustments.....	81.4	92.0	82.2	84.8	86.7	90.1	93.5	97.5
Inventory valuation adjustment.....	-1.3	-2.1	-7	-1.3	-2.1	-2.2	-1.8	-2.4
Capital consumption adjustment.....	-6	-2.0	-7	-1.2	-1.5	-1.8	-2.1	-2.6
Rental income of persons with capital consumption adjustment.....	22.5	23.4	22.4	22.7	22.8	22.2	24.3	24.4
Rental income.....	42.1	47.6	42.6	44.0	44.6	45.5	49.5	51.0
Capital consumption adjustment.....	-19.6	-24.2	-20.2	-21.3	-21.8	-23.3	-25.2	-26.6
Corporate profits with inventory valuation and capital consumption adjustments.....	144.2	160.2	154.8	148.2	132.6	163.4	165.2	-----
Corporate profits with inventory valuation adjustment and without capital consumption adjustment.....	159.1	178.3	169.9	163.5	148.7	180.6	184.5	-----
Profits before tax.....	173.9	202.6	177.5	178.3	172.1	205.5	205.4	-----
Profits tax liability.....	71.8	84.1	72.8	73.9	70.0	85.0	86.2	-----
Profits after tax.....	102.1	118.5	104.8	104.4	102.1	120.5	119.2	-----
Dividends.....	43.7	49.3	44.1	46.3	47.0	48.1	50.1	51.9
Undistributed profits.....	58.4	69.2	60.6	58.1	55.1	72.4	69.2	-----
Inventory valuation adjustment.....	-14.8	-24.3	-7.7	-14.8	-23.5	-24.9	-20.9	-27.9
Capital consumption adjustment.....	-14.9	-18.1	-15.0	-15.3	-16.1	-17.2	-19.3	-19.9
Net interest.....	95.4	106.2	97.3	99.0	101.7	104.6	107.4	111.1
Addenda:								
Corporate profits with inventory valuation and capital consumption adjustments.....	144.2	160.2	154.8	148.2	132.6	163.4	165.2	-----
Profits tax liability.....	71.8	84.1	72.8	73.9	70.0	85.0	86.2	-----
Profits after tax with inventory valuation and capital consumption adjustments.....	72.3	76.1	82.1	74.3	62.6	78.4	79.0	-----
Dividends.....	43.7	49.3	44.1	46.3	47.0	48.1	50.1	51.9
Undistributed profits with inventory valuation and capital consumption adjustments.....	28.7	26.8	38.0	28.0	15.6	30.3	29.0	-----

Table 8.—Gross Domestic Product of Corporate Business (I.15, 7.8)

Gross domestic product of corporate business.....	1,160.2	1,307.5	1,183.3	1,206.1	1,223.4	1,298.0	1,328.7	-----
Capital consumption allowances with capital consumption adjustment.....	120.9	132.5	122.6	124.6	127.4	130.5	134.7	137.4
Net domestic product.....	1,039.3	1,175.1	1,060.7	1,081.4	1,096.1	1,167.5	1,194.0	-----
Indirect business tax and nontax liability plus business transfer payments less subsidies.....	117.8	129.1	118.9	121.5	124.3	129.1	129.7	133.4
Domestic income.....	921.5	1,045.9	941.8	960.0	971.8	1,038.3	1,064.3	-----
Compensation of employees.....	776.3	884.0	786.3	808.1	837.4	875.1	896.4	927.1
Wages and salaries.....	652.5	737.5	660.4	678.1	698.7	730.6	747.4	773.2
Supplements to wages and salaries.....	123.8	146.5	125.5	130.0	138.7	144.5	149.0	154.0

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted at annual rates					
Billions of dollars								

Table 8.—Gross Domestic Product of Corporate Business—Con.

Corporate profits with inventory valuation and capital consumption adjustments.....	134.6	150.2	144.5	140.3	123.2	151.7	156.1	-----
Profits before tax.....	164.3	192.6	167.2	170.4	162.7	193.8	196.3	-----
Profits tax liability.....	71.8	84.1	72.8	73.9	70.0	85.0	86.2	-----
Profits after tax.....	92.5	108.5	94.4	96.5	92.7	108.8	110.1	-----
Dividends.....	39.0	44.3	39.2	42.0	42.3	42.3	45.6	47.1
Undistributed profits.....	53.5	64.2	55.3	54.5	50.4	66.5	64.5	-----
Inventory valuation adjustment.....	-14.8	-24.3	-7.7	-14.8	-23.5	-24.9	-20.9	-27.9
Capital consumption adjustment.....	-14.9	-18.1	-15.0	-15.3	-16.1	-17.2	-19.3	-19.9
Net interest.....	10.6	11.7	11.0	11.5	11.2	11.5	11.8	12.2
Gross domestic product of financial corporate business ¹	57.0	66.3	58.7	59.8	61.8	64.9	68.1	-----
Gross domestic product of non-financial corporate business.....	1,103.2	1,241.3	1,124.6	1,146.3	1,161.6	1,233.0	1,260.6	-----
Capital consumption allowances with capital consumption adjustment.....	115.6	126.5	117.2	119.0	121.6	124.6	128.6	131.1
Net domestic product.....	987.6	1,114.8	1,007.4	1,027.3	1,040.0	1,108.5	1,132.0	-----
Indirect business tax and nontax liability plus business transfer payments less subsidies.....	107.8	117.9	108.7	110.9	113.5	118.0	118.4	121.8
Domestic income.....	879.8	996.9	898.7	916.4	926.5	990.5	1,013.6	-----
Compensation of employees.....	732.1	834.1	741.6	762.2	789.9	826.0	845.5	875.0
Wages and salaries.....	616.1	696.6	623.5	640.3	659.8	690.4	705.7	730.5
Supplements to wages and salaries.....	116.1	137.5	118.1	121.9	130.1	135.6	139.7	144.5
Corporate profits with inventory valuation and capital consumption adjustments.....	113.9	125.6	122.8	118.7	100.9	127.8	130.6	-----
Profits before tax.....	143.5	167.5	145.3	148.5	140.0	169.5	170.3	-----
Profits tax liability.....	59.0	68.7	59.4	60.4	55.9	70.1	70.2	-----
Profits after tax.....	84.5	98.8	85.9	88.0	84.2	99.4	100.1	-----
Dividends.....	39.1	45.0	39.5	42.5	43.0	42.9	46.2	47.8
Undistributed profits.....	45.5	53.8	46.4	45.6	41.2	56.5	53.9	-----
Inventory valuation adjustment.....	-14.8	-24.3	-7.7	-14.8	-23.5	-24.9	-20.9	-27.9
Capital consumption adjustment.....	-14.7	-17.7	-14.8	-15.0	-15.7	-16.8	-18.9	-19.4
Net interest.....	33.7	37.2	34.4	35.4	35.7	36.6	37.6	38.9
Billions of 1972 dollars								
Gross domestic product of non-financial corporate business.....	769.3	810.8	776.7	783.6	783.6	811.9	814.9	-----
Capital consumption allowances with capital consumption adjustment.....	76.5	77.9	76.7	77.1	77.5	77.8	78.1	78.4
Net domestic product.....	692.8	732.9	700.0	706.5	706.2	734.1	736.8	-----
Indirect business tax and nontax liability plus business transfer payments less subsidies.....	86.0	89.8	86.0	87.5	87.8	89.3	90.5	91.7
Domestic income.....	606.9	643.1	614.0	619.1	618.4	644.8	646.3	-----
Dollars								
Current-dollar cost and profit per unit of constant-dollar gross domestic product ²	1.434	1.531	1.448	1.463	1.482	1.519	1.547	-----
Capital consumption allowances with capital consumption adjustment.....	.150	.156	.151	.152	.155	.153	.158	-----
Net domestic product.....	1.284	1.375	1.297	1.311	1.327	1.365	1.389	-----
Indirect business tax and nontax liability plus business transfer payments less subsidies.....	.140	.145	.140	.142	.145	.145	.145	-----
Domestic income.....	1.144	1.230	1.157	1.169	1.182	1.220	1.244	-----
Compensation of employees.....	.952	1.029	.955	.973	1.008	1.017	1.038	-----
Corporate profits with inventory valuation and capital consumption adjustments.....	.148	.155	.158	.151	.129	.157	.160	-----
Profits tax liability.....	.077	.085	.076	.077	.071	.086	.086	-----
Profits after tax with inventory and capital consumption adjustments.....	.071	.070	.082	.074	.057	.071	.074	-----
Net interest.....	.044	.046	.044	.045	.046	.045	.046	-----

* Revised.

1. Consists of the following industries: Banking; credit agencies other than banks; security, commodity brokers and services; insurance carriers; regulated investment companies; small business investment companies; and real estate investment trusts.

2. Equals the deflator for gross domestic product of nonfinancial corporate business with the decimal point shifted two places to the left.

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted at annual rates					
Billions of dollars								

Table 9.—Auto Output in Current and Constant Dollars (1.16, 1.17)

Auto output.....	72.3	77.7	70.0	74.5	73.8	79.5	75.8	81.6
Final sales.....	70.9	76.7	68.1	72.0	71.3	80.8	77.4	77.4
Personal consumption expenditures.....	61.8	67.8	60.4	63.2	63.1	70.5	67.9	69.7
New autos.....	46.3	50.6	45.0	47.3	47.3	54.1	49.9	51.2
Net purchases of used autos.....	15.5	17.2	15.4	15.9	15.8	16.5	18.0	18.4
Producers' durable equipment.....	12.2	14.7	11.7	13.0	13.4	15.0	15.5	14.7
New autos.....	19.0	22.2	18.5	19.7	20.3	22.7	23.4	22.5
Net purchases of used autos.....	-6.8	-7.6	-6.8	-6.7	-6.9	-7.8	-7.9	-7.7
Net exports.....	-3.6	-6.2	-4.6	-4.8	-5.8	-5.2	-6.5	-7.5
Exports.....	7.0	7.5	6.8	6.9	6.9	7.9	7.8	7.4
Imports.....	10.7	13.7	11.4	11.8	12.7	13.1	14.3	14.9
Government purchases of goods and services.....	.6	.5	.6	.6	.6	.5	.5	.5
Change in business inventories of new and used autos.....	1.4	.9	1.9	2.5	2.5	-1.3	-1.6	4.2
New.....	1.6	.9	2.6	3.4	2.7	-2.2	-1.4	4.7
Used.....	-2	.0	-6	-9	-2	.9	-2	-5
Addenda:								
Domestic output of new autos ¹	59.4	64.0	58.4	60.2	60.5	65.3	63.6	66.9
Sales of imported new autos ²	15.3	16.7	14.8	15.5	15.7	17.0	16.9	17.0
	Billions of 1972 dollars							
Auto output.....	55.2	55.4	53.7	55.4	54.1	57.0	53.5	56.8
Final sales.....	54.0	54.9	52.1	53.8	52.4	58.3	54.5	54.2
Personal consumption expenditures.....	44.4	45.3	43.6	44.7	43.4	47.8	44.6	45.3
New autos.....	36.0	36.6	34.9	35.8	35.0	39.3	35.6	36.3
Net purchases of used autos.....	8.5	8.7	8.7	9.0	8.4	8.4	9.0	9.0
Producers' durable equipment.....	10.6	11.5	10.1	10.6	10.8	11.8	12.0	11.5
New autos.....	14.8	16.1	14.3	14.9	15.1	16.5	16.7	15.9
Net purchases of used autos.....	-4.2	-4.6	-4.3	-4.3	-4.3	-4.7	-4.7	-4.5
Net exports.....	-1.5	-2.3	-2.0	-2.0	-2.2	-1.7	-2.4	-2.9
Exports.....	5.4	5.4	5.2	5.2	5.2	5.8	5.5	5.3
Imports.....	6.9	7.7	7.2	7.2	7.3	7.5	7.9	8.2
Government purchases of goods and services.....	.5	.4	.5	.4	.4	.4	.4	.4
Change in business inventories of new and used autos.....	1.2	.5	1.6	1.6	1.6	-1.3	-1.1	2.6
New.....	1.3	.5	2.0	2.2	1.8	-1.8	-1.0	2.9
Used.....	-2	.0	-4	-6	-1	.5	-1	-3
Addenda:								
Domestic output of new autos ¹	46.1	46.3	45.2	45.5	44.9	47.5	45.3	47.5
Sales of imported new autos ²	11.9	12.0	11.5	11.8	11.6	12.3	12.0	12.1

* Revised.

1. Consists of final sales and change in business inventories of new autos produced in the United States.

2. Consists of personal consumption expenditures, producers' durable equipment, and government purchases.

3. Consists of agriculture, forestry, and fisheries; mining; construction; and manufacturing.

4. Consists of transportation; communication; electric, gas, and sanitary services; and trade.

5. Consists of finance, insurance, and real estate; services; and rest of the world.

NOTE.—Table 10: The industry classification of wage and salary disbursements and proprietors' income is on an establishment basis and is based on the 1972 Standard Industrial Classification.

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted at annual rates					
Billions of dollars								

Table 10.—Personal Income and Its Disposition (2.1)

Personal income.....	1,529.0	1,707.6	1,543.7	1,593.0	1,628.9	1,682.4	1,731.7	1,787.3
Wage and salary disbursements.....	983.6	1,100.9	993.6	1,021.2	1,050.8	1,090.2	1,113.2	1,149.2
Commodity-producing industries ¹	343.7	390.2	348.3	357.1	365.9	387.0	396.4	411.3
Manufacturing.....	266.3	299.8	269.3	277.3	286.9	296.1	302.0	314.3
Distributive industries ²	239.1	268.8	241.2	247.5	257.0	266.4	271.6	280.3
Service industries ³	200.1	225.8	202.3	208.5	216.5	222.8	228.5	235.3
Government and government enterprises.....	200.8	216.1	201.7	208.1	211.4	213.9	216.7	222.3
Other labor income.....	90.4	105.9	92.2	96.1	100.0	104.0	107.9	111.8
Proprietors' income with inventory valuation and capital consumption adjustments.....	99.8	112.9	97.2	107.3	105.0	110.1	114.5	122.1
Farm.....	20.2	25.1	16.5	25.1	21.9	24.0	25.0	29.5
Nonfarm.....	79.5	87.8	80.8	82.3	83.1	86.1	89.6	92.6
Rental income of persons with capital consumption adjustment.....	22.5	23.4	22.4	22.7	22.8	22.2	24.3	24.4
Dividends.....	43.7	49.3	44.1	46.3	47.0	48.1	50.1	51.9
Personal interest income.....	141.2	158.9	143.6	146.0	151.4	156.3	161.7	166.2
Transfer payments.....	208.8	226.0	211.9	215.9	219.2	220.6	230.4	233.8
Old-age, survivors, disability, and health insurance benefits.....	105.0	117.4	108.5	110.1	112.1	113.7	121.1	122.7
Government unemployment insurance benefits.....	12.5	8.9	11.4	11.5	10.4	8.5	8.7	8.0
Veterans benefits.....	13.8	13.6	13.4	13.7	13.8	13.5	13.3	13.6
Government employees retirement benefits.....	28.8	32.8	29.2	30.5	31.3	32.5	33.2	34.4
Aid to families with dependent children.....	10.6	10.8	10.6	10.7	10.7	10.8	10.9	10.8
Other.....	38.1	42.5	38.7	39.4	40.9	41.6	43.3	44.2
Less: Personal contributions for social insurance.....	61.0	69.7	61.4	62.6	67.2	69.2	70.5	72.0
Less: Personal tax and nontax payments.....	226.0	256.2	224.6	233.3	237.3	249.1	263.2	275.0
Equals: Disposable personal income.....	1,303.0	1,451.4	1,319.1	1,359.6	1,391.6	1,433.3	1,468.4	1,512.3
Less: Personal outlays.....	1,236.1	1,375.2	1,244.8	1,285.9	1,309.2	1,357.0	1,392.5	1,442.1
Personal consumption expenditures.....	1,206.5	1,340.4	1,214.5	1,255.2	1,276.7	1,322.9	1,356.9	1,405.1
Interest paid by consumers to business.....	28.6	33.8	29.3	29.8	31.5	33.0	34.6	36.0
Personal transfer payments to foreigners (net).....	1.0	1.0	.9	.9	1.0	1.1	.9	1.0
Equals: Personal saving.....	66.9	76.2	74.3	73.7	82.4	76.3	76.0	70.2
Addenda:								
Disposable personal income: Total, billions of 1972 dollars.....	926.3	965.8	931.9	949.6	952.1	960.3	968.7	982.2
Per capita:								
Current dollars.....	6,009	6,641	6,077	6,250	6,387	6,566	6,712	6,898
1972 dollars.....	4,271	4,419	4,293	4,365	4,370	4,399	4,428	4,480
Population (millions).....	216.9	218.5	217.1	217.5	217.9	218.3	218.8	219.2
Personal saving as percentage of disposable personal income.....	5.1	5.3	5.6	5.4	5.9	5.3	5.2	4.6

	1977	1978*	1977				1978				1977	1978*	1977				1978			
			III	IV	I	II	III	IV*	III	IV			I	II	III	IV*				
			Seasonally adjusted at annual rates										Seasonally adjusted at annual rates							
Billions of current dollars											Billions of 1972 dollars									

Table 11.—Personal Consumption Expenditures by Major Type of Product in Current and Constant Dollars (2.3, 2.4)

Personal consumption expenditures.....	1,206.5	1,340.4	1,214.5	1,255.2	1,276.7	1,322.9	1,356.9	1,405.1	857.7	891.9	858.0	876.6	873.5	886.3	895.1	912.6
Durable goods.....	178.4	197.5	177.4	187.2	183.5	197.8	199.5	209.2	137.8	144.6	136.9	143.0	137.8	145.8	144.8	150.1
Motor vehicles and parts.....	81.5	89.8	79.5	84.0	84.1	92.5	89.8	92.7	60.0	61.7	58.6	60.9	59.5	64.2	60.8	62.2
Furniture and household equipment.....	71.3	77.7	72.0	75.3	72.1	76.5	78.9	83.2	57.6	60.3	58.0	60.3	57.4	59.8	61.0	63.3
Other.....	25.6	30.0	25.8	27.9	27.3	28.8	30.7	33.3	20.2	22.6	20.3	21.8	21.0	21.8	23.0	24.6
Nondurable goods.....	479.0	526.5	479.7	496.9	501.4	519.3	531.7	553.5	330.4	339.6	329.2	338.1	333.3	336.3	340.4	348.6
Food.....	245.2	269.4	246.4	252.6	257.7	267.8	272.0	280.1	165.1	165.4	164.9	167.6	165.6	164.7	164.8	166.5
Clothing and shoes.....	81.5	89.0	81.4	86.7	82.9	87.5	90.5	95.2	66.6	70.9	66.2	70.2	66.8	69.5	71.8	75.2
Gasoline and oil.....	46.5	51.2	46.0	47.5	48.3	49.1	51.5	55.7	26.6	28.1	26.5	26.9	27.1	27.5	28.4	29.4
Fuel oil and coal.....	13.5	14.9	13.1	13.9	15.8	15.2	14.3	14.1	5.6	5.9	5.4	5.7	6.4	6.0	5.6	5.4
Other.....	92.4	102.0	92.8	96.2	96.7	99.7	103.3	108.2	66.4	69.4	66.3	67.8	67.3	68.5	69.8	72.1
Services.....	549.2	616.4	557.5	571.1	591.8	605.8	625.8	642.5	389.5	407.6	391.8	395.6	402.4	404.2	410.0	413.8
Housing.....	184.6	207.3	186.9	192.0	198.1	204.1	210.1	217.0	140.3	146.6	141.2	142.4	144.2	145.8	147.4	149.2
Household operation.....	81.6	91.2	83.7	84.6	89.6	88.9	92.6	93.7	55.4	58.2	56.1	56.3	58.7	57.0	58.3	58.7
Electricity and gas.....	38.0	42.9	39.5	39.3	43.3	41.5	43.3	43.6	22.4	23.3	22.9	22.5	24.6	22.5	23.0	23.2
Other.....	43.6	48.3	44.1	45.3	46.3	47.4	49.3	50.1	33.0	34.8	33.2	33.8	34.1	34.5	35.2	35.5
Transportation.....	44.2	52.7	45.0	47.3	49.7	52.1	53.7	55.2	30.8	34.2	31.0	31.9	33.0	34.0	34.6	35.0
Other.....	238.8	265.2	241.9	247.3	254.4	260.6	269.3	276.5	162.9	168.7	163.6	164.9	166.5	167.4	169.8	170.9

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted at annual rates					
Billions of dollars								

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted at annual rates					
Billions of dollars								

Table 12.—Federal Government Receipts and Expenditures (3.2)

Receipts.....	374.5	431.6	374.3	385.5	396.2	424.7	441.7	-----
Personal tax and nontax receipts.....	169.4	193.2	167.6	174.8	176.8	186.7	199.7	209.6
Income taxes.....	162.1	187.7	161.7	169.2	171.3	181.3	194.4	204.0
Estate and gift taxes.....	7.2	5.3	5.7	5.5	5.4	5.2	5.2	5.4
Nontaxes.....	.2	.2	.2	.2	.2	.2	.2	.2
Corporate profits tax accruals.....	61.3	71.8	62.0	62.9	59.6	72.6	73.6	-----
Indirect business tax and nontax accruals.....	25.0	27.9	25.4	25.6	26.5	27.9	28.2	28.9
Excise taxes.....	17.5	18.5	17.5	17.9	17.9	18.4	18.6	19.0
Customs duties ¹	5.4	7.1	5.7	5.5	6.3	7.2	7.2	7.4
Nontaxes.....	2.1	2.3	2.1	2.2	2.2	2.3	2.3	2.5
Contributions for social insurance.....	118.7	138.7	119.3	122.2	133.3	137.6	140.1	143.9
Expenditures.....	422.6	461.3	430.7	444.1	448.8	448.3	464.5	483.5
Purchases of goods and services.....	145.1	153.7	146.8	152.2	151.5	147.2	154.0	162.3
National defense.....	94.3	99.5	94.4	97.1	97.9	98.6	99.6	102.1
Compensation of employees.....	42.9	45.7	42.4	44.9	45.0	45.0	45.3	47.5
Military.....	24.9	26.2	24.5	26.0	25.9	25.9	26.0	27.2
Civilian.....	18.0	19.5	17.8	18.9	19.1	19.2	19.3	20.3
Other.....	51.4	53.8	52.0	52.3	52.9	53.5	54.3	54.6
Nondefense.....	50.8	54.2	52.4	55.1	53.6	48.6	54.5	60.2
Compensation of employees.....	23.5	25.4	23.3	24.6	24.9	25.0	25.2	26.5
Other.....	27.3	28.8	29.1	30.5	28.7	23.6	29.2	33.7
Transfer payments.....	172.7	185.4	175.7	178.3	180.2	180.7	188.8	191.7
To persons.....	169.5	181.9	172.0	175.0	176.9	177.0	185.5	188.1
To foreigners.....	3.2	3.5	3.7	3.4	3.3	3.7	3.4	3.6
Grants-in-aid to State and local governments.....	67.4	76.9	70.9	71.1	73.9	75.9	77.5	80.3
Net interest paid.....	29.1	35.5	28.9	30.7	33.2	34.6	36.3	38.1
Interest paid.....	35.3	43.1	35.4	37.0	40.2	42.3	44.0	45.9
To persons and business.....	29.8	34.4	29.9	30.4	32.3	33.7	35.6	36.0
To foreigners.....	5.5	8.7	5.5	6.6	7.9	8.5	8.4	9.9
Less: Interest received by Government.....	6.2	7.6	6.4	6.3	7.0	7.7	7.7	7.8
Subsidies less current surplus of Government enterprises.....	8.3	9.8	8.4	11.8	10.0	10.0	8.0	11.1
Subsidies.....	7.5	8.9	6.9	10.3	8.8	8.4	8.2	10.2
Less: Current surplus of Government enterprises.....	-.9	-.9	-1.5	-1.4	-1.2	-1.6	-.2	-.9
Less: Wage accruals less disbursements.....	0	0	0	0	0	0	.2	0
Surplus or deficit (-), national income and product accounts.....	-48.1	-29.7	-56.4	-58.6	-52.6	-23.6	-22.8	-----
Social insurance funds.....	-10.1	-1.2	-11.9	-11.5	-1.7	1.9	-3.5	-1.5
Other funds.....	-38.0	-28.5	-44.5	-47.1	-50.9	-25.5	-19.3	-----

Table 13.—State and Local Government Receipts and Expenditures (3.4)

Receipts.....	296.2	328.1	301.8	307.9	315.7	327.4	329.2	-----
Personal tax and nontax receipts.....	56.6	62.9	57.0	58.5	60.5	62.5	63.5	65.3
Income taxes.....	30.9	34.7	31.3	32.0	33.3	34.5	34.9	36.0
Nontaxes.....	18.2	20.5	18.5	19.0	19.5	20.1	20.8	21.5
Other.....	7.4	7.8	7.3	7.5	7.7	7.8	7.8	7.8
Corporate profits tax accruals.....	10.5	12.3	10.7	10.9	10.4	12.4	12.5	-----
Indirect business tax and nontax accruals.....	140.0	150.4	141.2	144.6	146.8	151.5	149.5	153.7
Sales taxes.....	63.9	71.4	64.2	66.7	67.7	70.6	72.2	74.9
Nontaxes.....	62.3	63.6	62.9	63.5	64.3	65.8	61.6	62.7
Other.....	13.7	15.4	13.9	14.3	14.7	15.1	15.0	16.1
Contributions for social insurance.....	21.7	25.5	22.0	22.8	24.1	25.2	26.1	26.7
Federal grants-in-aid.....	67.4	76.9	70.9	71.1	73.9	75.9	77.5	80.3
Expenditures.....	266.6	299.8	270.7	278.9	284.2	297.7	305.8	311.6
Purchases of goods and services.....	248.9	280.2	252.7	260.3	265.2	277.6	285.8	292.3
Compensation of employees.....	141.5	155.4	143.2	146.4	151.1	154.1	157.0	159.4
Other.....	107.4	124.9	109.6	113.9	114.1	123.5	128.8	133.0
Transfer payments to persons.....	29.7	33.4	30.1	30.9	32.0	33.1	34.1	34.4
Net interest paid.....	-6.5	-7.9	-6.5	-6.8	-7.1	-7.3	-8.2	-9.1
Interest paid.....	13.2	14.8	13.4	14.1	14.4	14.7	15.0	15.3
Less: Interest received by government.....	19.6	22.8	19.9	21.0	21.5	22.0	23.1	24.5
Subsidies less current surplus of government enterprises.....	-5.6	-5.9	-5.7	-5.5	-6.0	-5.7	-5.9	-6.0
Subsidies.....	.2	.3	.3	.3	.3	.3	.3	.3
Less: Current surplus of government enterprises.....	5.8	6.2	5.9	5.8	6.2	6.0	6.2	6.3
Less: Wage accruals less disbursements.....	0	0	0	0	0	0	0	0
Surplus or deficit (-), national income and product accounts.....	29.6	28.3	31.2	29.0	31.5	29.8	23.4	-----
Social insurance funds.....	18.0	21.2	18.3	19.1	19.9	20.5	21.6	22.9
Other funds.....	11.5	7.1	12.8	9.9	11.5	9.3	1.8	-----

* Revised.
1. Includes fees for licenses to import petroleum and petroleum products.

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted at annual rates					
Billions of dollars								

Table 14.—Foreign Transactions in the National Income and Product Accounts (4.1)

Receipts from foreigners	175.5	204.8	180.8	172.1	181.7	205.4	210.1	222.0
Exports of goods and services	175.5	204.8	180.8	172.1	181.7	205.4	210.1	222.0
Merchandise	120.6	141.7	124.1	117.8	122.7	140.3	147.7	156.2
Other	54.9	63.1	56.8	54.2	59.0	65.1	62.4	65.7
Capital grants received by the United States (net)	0	0	0	0	0	0	0	0
Payments to foreigners	175.5	204.8	180.8	172.1	181.7	205.4	210.1	222.0
Imports of goods and services	186.6	216.8	187.8	195.2	205.8	210.9	220.8	229.7
Merchandise	151.6	176.2	153.1	158.5	167.5	171.5	179.9	186.1
Other	35.0	40.6	34.8	36.7	38.3	39.4	40.9	43.6
Transfer payments (net)	4.2	4.5	4.6	4.3	4.3	4.8	4.3	4.5
From persons (net)	1.0	1.0	.9	.9	1.0	1.1	.9	1.0
From government (net)	3.2	3.5	3.7	3.4	3.3	3.7	3.4	3.6
Interest paid by government to foreigners	5.5	8.7	5.5	6.6	7.9	8.5	8.4	9.9
Net foreign investment	-20.9	-25.2	-17.1	-34.1	-36.3	-18.9	-23.5	-22.2

Table 15.—Gross Saving and Investment (5.1)

Gross saving	272.2	318.5	285.5	274.7	284.2	326.1	326.2	
Gross private saving	290.8	319.9	310.7	304.3	305.4	319.9	325.7	
Personal saving	66.9	70.2	74.3	73.7	82.4	76.3	76.0	70.2
Undistributed corporate profits with inventory valuation and capital consumption adjustments	28.7	26.8	38.0	28.0	15.6	30.3	29.0	
Undistributed profits	58.4	69.2	60.6	58.1	55.1	72.4	69.2	
Inventory valuation adjustment	-14.8	-24.3	-7.7	-14.8	-23.5	-24.9	-20.9	-27.9
Capital consumption adjustment	-14.9	-18.1	-15.0	-15.3	-16.1	-17.2	-19.3	-19.9
Corporate capital consumption allowances with capital consumption adjustment	120.9	132.5	122.6	124.6	127.4	130.5	134.7	137.4
Noncorporate capital consumption allowances with capital consumption adjustment	74.3	84.4	75.9	77.9	79.9	82.8	86.1	89.0
Wage accruals less disbursements	0	0	0	0	0	0	0	0
Government surplus or deficit (-), national income and product accounts	-18.6	-1.4	-25.2	-29.6	-21.1	6.2	.6	
Federal	-48.1	-29.7	-56.4	-58.6	-52.6	-23.6	-22.8	
State and local	29.6	28.3	31.2	29.0	31.5	29.8	23.4	
Capital grants received by the United States (net)	0	0	0	0	0	0	0	0
Gross investment	276.9	319.4	292.6	279.5	286.4	326.6	326.6	337.9
Gross private domestic investment	297.8	344.6	309.7	313.5	322.7	345.4	350.1	360.1
Net foreign investment	-20.9	-25.2	-17.1	-34.1	-36.3	-18.9	-23.5	-22.2
Statistical discrepancy	4.7	.9	7.1	4.8	2.2	.5	.4	

* Revised.

1. Inventories are as of the end of the quarter. The quarter-to-quarter change in inventories calculated from current-dollar inventories shown in this table is not the current-dollar change in business inventories (CBI) components of GNP. The former is the difference between two inventory stocks, each valued at end-of-quarter prices. The latter is the change in the physical volume of inventories valued at average prices of the quarter. In addition, changes calculated from this table are at quarterly rates, whereas CBI is stated at annual rates.

2. Quarterly totals at annual rates.

3. Equals ratio of nonfarm inventories to final sales of business. These sales include a small amount of final sales by farms.

NOTE.—Table 16: Inventories are classified as durable or nondurable as follows: For manufacturing, by the type of product produced by the establishment holding the inventory; for trade, by the type of product sold by the establishment holding the inventory; for construction, durable; and for other nonfarm industries, nondurable. The industry classification is based on the 1972 Standard Industrial Classification.

Table 17: The industry classification of compensation of employees, proprietors' income, and rental income is on an establishment basis; the industry classification of corporate profits and net interest is on a company basis. The industry classification of these items is based on the 1972 Standard Industrial Classification.

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted at annual rates					
Billions of dollars								

Table 16.—Inventories and Final Sales of Business in Current and Constant Dollars (5.9, 5.10)

Inventories ¹	483.6	498.6	520.7	536.5	548.5	572.0
Farm	55.7	60.3	66.3	68.0	68.1	73.6
Nonfarm	428.0	438.3	454.4	468.5	480.4	498.4
Durable goods	245.2	251.8	263.2	271.2	280.3	290.6
Nondurable goods	182.7	186.5	191.1	197.3	200.1	207.8
Manufacturing	215.5	219.2	225.9	232.0	239.0	246.7
Durable goods	138.1	140.9	146.5	150.7	156.7	161.6
Nondurable goods	77.4	78.3	79.4	81.2	82.4	85.1
Wholesale trade	82.8	85.9	90.9	94.2	96.4	101.4
Durable goods	54.1	56.1	59.6	61.9	64.3	67.3
Nondurable goods	28.7	29.8	31.4	32.3	32.1	34.0
Retail trade	87.5	89.9	94.3	97.5	99.0	103.1
Durable goods	39.8	41.1	42.9	43.9	44.3	46.1
Nondurable goods	47.7	48.8	51.3	53.6	54.8	56.9
Other	42.3	43.3	43.3	44.8	45.9	47.2
Final sales ²	1,604.5	1,647.3	1,667.3	1,751.7	1,803.9	1,873.2
Ratio of inventories to final sales	.301	.303	.312	.306	.304	.305
Nonfarm ³	.267	.266	.273	.267	.266	.266

Billions of 1972 dollars

Inventories ¹	305.7	307.6	310.7	313.9	316.1	317.9
Farm	40.3	40.6	40.5	40.2	40.1	40.0
Nonfarm	265.4	267.0	270.2	273.6	276.0	277.8
Durable goods	154.2	155.4	157.8	159.4	160.9	162.6
Nondurable goods	111.2	111.7	112.4	114.3	115.1	115.3
Manufacturing	129.1	128.8	129.9	131.5	132.9	132.9
Durable goods	84.0	83.9	84.9	86.1	87.2	87.5
Nondurable goods	45.1	44.9	45.0	45.4	45.7	45.4
Wholesale trade	52.7	53.7	55.7	56.6	56.8	58.2
Durable goods	35.3	36.0	37.1	37.8	38.5	39.3
Nondurable goods	17.4	17.7	18.6	18.8	18.4	19.0
Retail trade	59.8	60.6	61.1	61.7	62.2	62.6
Durable goods	26.9	27.5	27.6	27.3	27.0	27.6
Nondurable goods	32.8	33.2	33.5	34.4	35.2	35.0
Other	23.8	23.9	23.4	23.9	24.1	24.1
Final sales ²	1,133.9	1,148.4	1,141.1	1,167.3	1,180.3	1,203.4
Ratio of inventories to final sales	.270	.268	.272	.269	.268	.264
Nonfarm ³	.234	.233	.237	.234	.234	.231

Table 17.—National Income Without Capital Consumption Adjustment by Industry (6.4)

National income without capital consumption adjustment	1,554.8	1,753.1	1,578.0	1,619.3	1,647.2	1,735.2	1,779.8
Domestic income	1,537.5	1,733.8	1,559.9	1,603.4	1,629.0	1,714.1	1,761.1
Agriculture, forestry, and fisheries	44.6	52.1	41.1	50.6	47.9	50.7	52.2
Mining and construction	100.4	117.9	103.6	104.2	101.6	118.9	123.3
Manufacturing	408.9	404.6	412.9	428.7	432.5	461.9	469.4
Nondurable goods	161.7	177.6	163.7	166.6	167.6	176.0	178.3
Durable goods	247.2	227.1	249.2	262.1	265.0	285.9	291.1
Transportation	58.4	65.5	59.6	61.3	61.3	66.5	66.7
Communication	35.0	40.1	35.4	36.6	38.6	39.3	41.1
Electric, gas, and sanitary services	29.5	33.5	30.4	30.0	33.3	32.7	33.1
Wholesale and retail trade	237.0	204.2	245.5	242.9	245.7	260.0	270.5
Wholesale	96.5	107.3	101.1	96.8	98.2	105.5	110.4
Retail	140.5	156.9	144.3	146.1	147.5	154.5	160.1
Finance, insurance, and real estate	177.9	202.1	181.5	185.5	189.9	196.6	207.2
Services	213.1	240.4	216.1	222.0	231.0	236.8	243.0
Government and government enterprises	232.7	253.4	233.8	241.5	247.2	250.7	254.6
Rest of the world	17.3	19.4	18.1	15.9	18.2	21.1	18.8

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted at annual rates					

Billions of dollars

Table 18.—Corporate Profits by Industry (6.18)

Corporate profits with inventory valuation and capital consumption adjustments.....	144.2	160.2	154.8	148.2	132.6	163.4	165.2
Domestic industries.....	134.6	150.2	144.5	140.3	123.2	151.7	156.1
Financial ¹	20.7	24.7	21.7	21.6	22.3	23.9	25.5
Nonfinancial.....	113.9	125.6	122.8	118.7	100.9	127.8	130.6
Rest of the world.....	9.6	10.0	10.3	7.9	9.4	11.7	9.1
Corporate profits with inventory valuation adjustment and without capital consumption adjustment.....	159.1	178.3	169.9	163.5	148.7	180.6	184.5
Domestic industries.....	149.5	168.3	159.5	155.6	139.2	168.9	175.4
Financial ¹	20.9	25.1	21.9	21.9	22.7	24.3	26.0
Federal Reserve banks.....	6.2	7.7	6.2	6.4	6.9	7.3	8.0
Other.....	14.6	17.3	15.7	15.5	15.7	17.0	18.0
Nonfinancial.....	128.6	143.2	137.6	133.7	116.6	144.6	149.4
Manufacturing.....	74.7	85.5	74.7	80.2	69.8	87.8	87.1
Nondurable goods.....	39.6	42.7	40.6	41.1	37.0	41.7	42.5
Food and kindred products.....	5.7	7.0	5.7	4.3	5.4	6.6	6.6
Chemicals and allied products.....	8.2	7.9	8.2	8.1	8.3	8.2	8.2
Petroleum and coal products.....	12.8	12.3	13.8	10.4	14.4	14.6	14.6
Other.....	12.9	13.4	13.4	14.3	13.7	13.2	13.2
Durable goods.....	35.1	42.8	34.2	39.1	32.8	46.1	44.6
Primary metal industries.....	1.8	1.9	2.4	1.2	5.1	5.0	5.0
Fabricated metal products.....	4.0	3.9	4.2	3.2	4.3	4.7	4.7
Machinery, except electrical.....	7.1	7.3	8.5	6.4	9.2	7.4	7.4
Electric and electronic equipment.....	3.9	4.1	4.4	4.3	4.8	5.8	5.8
Motor vehicles and equipment.....	9.5	9.2	9.1	7.9	10.8	10.2	10.2
Other.....	8.8	8.7	10.5	9.7	11.9	11.7	11.7
Wholesale and retail trade.....	24.0	30.6	22.1	16.7	22.0	25.8	25.8
Transportation, communication, and electric, gas, and sanitary services.....	16.1	17.5	17.1	17.3	19.3	20.7	20.7
Other.....	13.8	14.7	14.3	12.8	15.4	15.8	15.8
Rest of the world.....	9.6	10.0	10.3	7.9	9.4	11.7	9.1
Corporate profits before deduction of capital consumption allowances with inventory valuation adjustment.....	265.1	292.7	277.5	272.8	260.0	294.0	299.9
Domestic industries.....	255.5	282.7	267.1	265.0	250.6	282.2	290.8
Financial ¹	26.0	30.7	27.1	27.2	28.1	29.8	31.6
Federal Reserve banks.....	6.2	7.8	6.2	6.4	7.0	7.3	8.0
Other.....	19.8	22.9	20.9	20.8	21.1	22.5	23.6
Nonfinancial.....	229.5	252.0	240.0	237.7	222.5	252.4	259.2
Manufacturing.....	118.6	132.9	119.4	125.5	116.0	134.8	134.9
Nondurable goods.....	60.9	66.0	62.2	63.2	59.6	64.8	66.1
Food and kindred products.....	9.3	10.7	9.4	8.1	9.2	10.6	10.6
Chemicals and allied products.....	13.5	13.2	13.7	13.7	14.2	14.2	14.2
Petroleum and coal products.....	19.3	19.0	20.5	17.2	21.4	21.7	21.7
Other.....	18.8	19.3	19.5	20.6	20.0	19.6	19.6
Durable goods.....	57.7	66.8	57.2	62.4	56.4	70.0	68.8
Primary metal industries.....	5.8	4.9	6.5	5.4	9.4	9.3	9.3
Fabricated metal products.....	5.9	6.0	6.2	5.3	6.4	6.8	6.8
Machinery, except electrical.....	11.5	11.9	12.9	11.1	14.0	12.3	12.3
Electric and electronic equipment.....	7.3	7.5	8.0	7.9	8.4	9.4	9.4
Motor vehicles and equipment.....	12.9	12.6	12.6	11.3	14.2	13.6	13.6
Other.....	14.3	14.3	16.1	15.4	17.6	17.3	17.3
Wholesale and retail trade.....	36.2	43.0	34.8	29.8	35.5	39.7	39.7
Transportation, communication, and electric, gas, and sanitary services.....	42.9	44.8	44.8	45.3	47.7	49.5	49.5
Other.....	31.8	32.8	32.6	31.4	34.4	35.0	35.0
Rest of the world.....	9.6	10.0	10.3	7.9	9.4	11.7	9.1

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted					

Index numbers, 1972=100

Table 19.—Implicit Price Deflators for Gross National Product (7.1)

Gross national product.....	141.61	152.09	142.63	144.56	147.10	150.98	153.52	156.55
Personal consumption expenditures.....	140.7	150.3	141.6	143.2	146.2	149.3	151.6	154.0
Durable goods.....	129.5	136.6	129.5	130.9	133.1	135.7	137.8	139.3
Nondurable goods.....	145.0	155.0	145.7	147.0	150.4	154.4	156.2	158.8
Services.....	141.0	151.2	142.3	144.4	147.1	149.9	152.6	155.2
Gross private domestic investment.....	150.6	164.7	151.9	155.9	158.2	162.3	167.1	170.9
Fixed investment.....	146.7	158.7	147.9	151.2	153.6	156.7	160.6	163.7
Nonresidential.....	159.6	174.9	160.2	164.5	167.2	171.8	177.3	182.2
Structures.....	141.0	151.3	142.4	145.2	147.6	149.6	152.7	154.9
Producers' durable equipment.....	159.4	178.8	160.6	166.1	168.6	175.7	182.6	188.1
Residential.....	160.0	179.8	161.3	166.9	169.5	176.7	183.7	189.2
Nonfarm structures.....	159.7	179.1	161.8	167.5	168.9	176.5	182.8	188.1
Farm structures.....	126.2	132.2	126.6	127.5	128.8	131.8	133.3	135.2
Producers' durable equipment.....	146.7	158.7	147.9	151.2	153.6	156.7	160.6	163.7
Change in business inventories.....	159.6	174.9	160.2	164.5	167.2	171.8	177.3	182.2
Net exports of goods and services.....	178.7	191.3	179.4	179.2	183.3	189.4	192.8	198.6
Exports.....	210.3	219.7	212.9	210.2	213.8	217.2	221.5	226.1
Imports.....	146.3	157.8	147.1	150.3	153.2	156.2	158.9	162.7
Government purchases of goods and services.....	142.7	153.3	142.7	146.9	149.6	151.5	153.4	158.4
Federal.....	148.5	160.4	149.7	152.3	155.2	158.8	162.1	165.1
State and local.....	142.7	153.3	142.7	146.9	149.6	151.5	153.4	158.4

Table 20.—Fixed-Weighted Price Indexes for Gross National Product, 1972 Weights (7.2)

Gross national product.....	143.3	154.3	144.1	146.5	149.0	152.9	155.8	158.9
Personal consumption expenditures.....	141.8	151.9	142.8	144.5	147.3	150.9	153.4	156.0
Durable goods.....	130.5	138.1	130.6	132.1	134.5	137.2	139.3	141.1
Nondurable goods.....	146.4	157.1	147.2	148.6	151.7	156.4	158.6	161.6
Services.....	141.5	151.9	142.8	145.0	147.5	150.6	153.3	156.0
Gross private domestic investment.....	152.3	167.2	153.6	157.6	160.1	164.9	169.7	173.7
Fixed investment.....	148.7	161.1	149.9	153.0	155.5	159.2	163.0	166.2
Nonresidential.....	156.3	171.1	157.4	160.8	163.3	168.1	173.5	178.3
Structures.....	144.3	155.4	145.6	148.5	151.1	154.0	157.0	159.2
Producers' durable equipment.....	159.2	178.6	160.4	166.1	168.6	175.5	182.3	187.9
Residential.....	148.7	161.1	149.9	153.0	155.5	159.2	163.0	166.2
Change in business inventories.....	156.3	171.1	157.4	160.8	163.3	168.1	173.5	178.3
Net exports of goods and services.....	181.3	193.3	181.8	181.7	185.2	190.9	194.6	200.1
Exports.....	199.0	213.0	202.0	203.5	209.5	211.0	215.0	220.3
Imports.....	146.8	158.0	147.4	151.0	153.4	156.4	158.9	162.9
Government purchases of goods and services.....	144.9	154.7	144.6	149.6	151.4	153.1	154.5	159.9
Federal.....	148.1	160.2	149.3	152.0	154.9	158.6	161.9	164.9
State and local.....	144.9	154.7	144.6	149.6	151.4	153.1	154.5	159.9
Addenda:	143.3	154.2	144.0	146.4	148.9	152.8	155.7	158.8
Final sales.....	142.8	153.8	143.6	146.0	148.5	152.5	155.3	158.5
Gross domestic product.....	142.9	153.9	143.7	145.9	148.3	152.6	155.6	158.6
Business.....	142.9	153.2	143.8	145.7	147.6	151.4	154.6	157.4
Nonfarm.....	142.9	153.2	143.8	145.7	147.6	151.4	154.6	157.4

* Revised.

1. Consists of the following industries: Banking; credit agencies other than banks; security; commodity brokers and services; insurance carriers; regulated investment companies; small business investment companies; and real estate investment trusts.

NOTE.—Table 18: The industry classification is on a company basis and is based on the 1972 Standard Industrial Classification.

	1977	1978 ^r	1977		1978			
			III	IV	I	II	III	IV ^r
			Seasonally adjusted					
Index numbers, 1972=100								

Table 21.—Implicit Price Deflators for Gross National Product by Major Type of Product (7.3)

Gross national product.....	141.61	152.09	142.63	144.56	147.10	150.98	153.52	156.55
Final sales.....	141.4	152.1	142.3	144.4	147.2	150.9	153.5	156.5
Change in business inventories.....								
Goods.....	136.8	145.9	137.7	138.6	140.9	145.3	147.2	149.8
Final sales.....	136.3	145.8	136.9	138.2	141.0	145.1	147.1	149.6
Change in business inventories.....								
Durable goods.....	134.5	142.0	135.4	136.2	137.9	141.0	143.5	145.2
Final sales.....	134.3	141.5	134.9	136.1	137.3	140.3	143.0	145.0
Change in business inventories.....								
Nondurable goods.....	138.5	148.7	139.4	140.3	143.0	148.5	149.8	153.2
Final sales.....	137.7	148.8	138.3	139.6	143.5	148.5	150.0	152.9
Change in business inventories.....								
Services.....	143.1	153.5	144.2	146.6	149.4	152.2	154.6	157.7
Structures.....	158.1	175.7	159.1	164.1	166.7	172.7	178.6	183.9

Table 22.—Implicit Price Deflators for Gross National Product by Sector (7.5)

Gross national product.....	141.61	152.09	142.63	144.56	147.10	150.98	153.52	156.55
Gross domestic product.....	141.1	151.5	142.1	144.1	146.6	150.4	153.0	156.0
Business.....	140.8	151.2	141.9	143.6	146.0	150.1	152.8	155.7
Nonfarm.....	141.1	151.0	142.5	144.0	146.0	149.8	152.7	
Nonfarm less housing.....	142.6	152.6	144.0	145.4	147.5	151.3	154.3	
Housing.....	128.7	137.6	129.5	131.6	133.9	136.3	138.7	141.4
Farm.....	146.7	177.9	138.4	149.4	163.2	184.7	176.6	187.3
Residual.....								
Households and institutions.....	148.3	160.5	149.4	151.1	157.1	159.2	161.0	164.5
Government.....	141.3	151.4	141.4	145.5	147.9	149.9	151.9	155.8
Federal.....	136.4	145.5	134.6	142.5	143.3	143.5	144.0	151.3
State and local.....	143.8	154.2	144.7	146.9	150.2	152.9	155.8	158.0
Rest of the world.....								

Table 23.—Implicit Price Deflators for the Relation of Gross National Product, Net National Product, and National Income (7.6)

Gross national product.....	141.61	152.09	142.63	144.56	147.10	150.98	153.52	156.55
Less: Capital consumption allowances with capital consumption adjustment.....	151.5	164.4	153.5	155.6	158.4	162.2	166.9	170.2
Equals: Net national product...	140.6	150.8	141.5	143.4	145.9	149.8	152.1	155.1
Less: Indirect business tax and nontax liability plus business transfer payments less subsidies plus current surplus of government enterprises.....	130.9	134.1	131.9	129.8	132.9	135.1	134.1	134.3
Residual.....								
Equals: National income.....	142.3	153.4	143.2	145.6	148.1	152.2	154.9	

^r Revised.

1. Consists of final sales and change in business inventories of new autos produced in the United States.
2. Consists of personal consumption expenditures, producers' durable equipment, and government purchases.

NOTE.—Table 21: "Final sales" is classified as durable or nondurable by type of product. "Change in business inventories" is classified as follows: For manufacturing, by the type of product produced by the establishment holding the inventory; for trade, by the type of product sold by the establishment holding the inventory; for construction, durable; and for other industries, nondurable.

Tables 22 and 24: The industry classification within the business sector is on an establishment basis and is based on the 1972 Standard Industrial Classification.

	1977	1978 ^r	1977		1978			
			III	IV	I	II	III	IV ^r
			Seasonally adjusted					
Index numbers, 1972=100								

Table 24.—Implicit Price Deflators for Net National Product and National Income by Sector (7.7)

Net national product.....	140.6	150.8	141.5	143.4	145.9	149.8	152.1	155.1
Net domestic product.....	140.0	150.2	140.9	142.9	145.3	149.2	151.5	154.5
Business.....	139.4	149.6	140.4	142.1	144.4	148.6	151.1	153.9
Nonfarm.....	139.9	149.4	141.2	142.6	144.6	148.3	151.0	
Farm.....	143.3	181.8	131.2	145.4	163.0	192.6	179.2	192.8
Residual.....								
Households and institutions.....	148.3	160.5	149.4	151.1	157.1	159.2	161.0	164.5
Government.....	141.3	151.4	141.4	145.5	147.9	149.9	151.9	155.8
Rest of the world.....								
National income.....	142.3	153.4	143.2	145.6	148.1	152.2	154.9	
Domestic income.....	141.6	152.7	142.5	145.0	147.4	151.5	154.3	
Business.....	141.4	152.6	142.4	144.6	146.8	151.3	154.3	
Nonfarm.....	141.7	152.2	143.2	144.8	146.7	150.7	154.1	
Farm.....	129.2	168.0	115.5	141.2	150.8	176.1	163.2	182.2
Households and institutions.....	148.3	160.5	149.4	151.1	157.1	159.2	161.0	164.5
Government.....	141.3	151.4	141.4	145.5	147.9	149.9	151.9	155.8
Rest of the world.....								

Table 25.—Implicit Price Deflators for Auto Output (7.9)

Auto output.....	130.9	140.3	130.4	134.3	136.4	139.4	141.8	143.6
Final sales.....	131.2	139.8	130.7	133.8	135.9	138.6	142.0	142.8
Personal consumption expenditures.....	139.0	149.7	138.7	141.3	145.3	147.7	152.3	153.7
New autos.....	128.6	138.5	129.1	132.2	135.0	137.5	140.3	141.0
Net purchases of used autos.....								
Producers' durable equipment.....	114.9	127.4	116.1	123.0	124.5	126.8	129.5	128.5
New autos.....	128.6	138.5	129.1	132.2	134.9	137.5	140.3	140.9
Net purchases of used autos.....								
Net exports.....								
Exports.....	128.9	137.6	130.0	132.2	133.0	135.3	140.5	141.4
Imports.....	154.2	177.7	157.7	163.6	172.4	175.4	180.0	182.5
Government purchases of goods and services.....	126.0	139.6	128.7	134.3	135.9	137.8	142.0	143.8
Change in business inventories of new and used autos.....								
Addenda:								
Domestic output of new autos ¹	128.6	138.3	129.2	132.2	134.7	137.3	140.4	140.9
Sales of imported new autos ²	128.6	138.5	129.1	132.3	135.0	137.5	140.4	141.0

Table 26.—Implicit Price Deflators for Personal Consumption Expenditures by Major Type of Product (7.11)

Personal consumption expenditures.....	140.7	150.3	141.6	143.2	146.2	149.3	151.6	154.0
Durable goods.....	129.5	136.6	129.5	130.9	133.1	135.7	137.8	139.3
Motor vehicles and parts.....	135.8	145.6	135.7	137.9	141.3	144.0	147.8	149.0
Furniture and household equipment.....	123.8	128.7	124.1	124.7	125.7	128.0	129.5	131.4
Other.....	126.9	132.9	127.2	128.2	130.1	132.1	133.5	135.3
Nondurable goods.....	145.0	155.0	145.7	147.0	150.4	154.4	156.2	158.8
Food.....	148.5	162.9	149.4	150.7	155.6	162.6	165.1	168.2
Clothing and shoes.....	122.3	125.7	123.0	123.5	124.0	125.9	126.0	126.6
Gasoline and oil.....	174.4	182.1	173.7	176.8	178.2	178.4	181.7	189.7
Fuel oil and coal.....	239.4	253.7	243.3	244.8	247.2	252.1	254.5	262.5
Other.....	139.0	146.9	140.0	142.0	143.7	145.5	148.0	150.1
Services.....	141.0	151.2	142.3	144.4	147.1	149.9	152.6	155.2
Housing.....	131.5	141.4	132.4	134.8	137.3	140.0	142.6	145.5
Household operation.....	147.2	156.8	149.1	150.1	152.7	156.0	158.9	159.7
Electricity and gas.....	169.5	183.9	172.9	174.1	176.1	184.2	187.9	187.9
Other.....	132.1	138.7	132.8	134.1	135.8	137.6	140.0	141.2
Transportation.....	143.3	154.3	145.3	148.2	150.7	153.3	155.4	157.7
Other.....	146.6	157.3	147.9	150.0	152.8	155.7	158.6	161.8

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted					
Percent			Percent at annual rate					

	1977	1978*	1977		1978			
			III	IV	I	II	III	IV*
			Seasonally adjusted					
Percent			Percent at annual rate					

Table 27.—Percent Change From Preceding Period in Gross National Product in Current and Constant Dollars, Implicit Price Deflator, and Price Indexes (8.9)

Gross national product:								
Current dollars.....	11.0	11.6	11.1	8.9	7.1	20.6	9.6	15.0
1972 dollars.....	4.9	4.0	5.7	3.2	-1	8.7	2.6	6.4
Implicit price deflator.....	5.9	7.4	5.1	5.5	7.2	11.0	6.9	8.1
Chain price index.....	6.2	7.5	4.6	6.5	7.1	10.8	7.6	8.2
Fixed-weighted price index.....	6.3	7.6	4.7	6.8	7.0	11.0	7.6	8.4
Personal consumption expenditures:								
Current dollars.....	10.7	11.1	9.0	14.1	7.0	15.3	10.7	15.0
1972 dollars.....	4.7	4.0	4.1	9.0	-1.4	6.0	4.1	8.0
Implicit price deflator.....	5.7	6.8	4.8	4.7	8.6	8.7	6.4	6.5
Chain price index.....	5.9	7.0	4.6	5.0	7.7	10.0	6.7	6.9
Fixed-weighted price index.....	5.9	7.1	4.6	5.0	7.9	10.2	6.7	7.1
Durable goods:								
Current dollars.....	13.9	10.7	4.0	24.1	-7.7	35.1	3.4	20.9
1972 dollars.....	9.4	5.0	2.0	19.0	-13.7	25.2	-2.8	15.7
Implicit price deflator.....	4.1	5.5	2.0	4.3	7.0	8.0	6.4	4.5
Chain price index.....	4.3	5.6	1.4	4.4	7.2	8.2	6.3	5.1
Fixed-weighted price index.....	4.4	5.8	1.2	4.7	7.5	8.4	6.4	5.1
Nondurable goods:								
Current dollars.....	8.2	9.9	5.3	15.1	3.7	15.0	9.9	17.4
1972 dollars.....	3.2	2.8	2.5	11.2	-5.5	3.6	5.0	10.0
Implicit price deflator.....	4.9	6.9	2.7	3.6	9.8	11.0	4.7	6.7
Chain price index.....	4.9	7.2	2.9	3.9	8.4	12.5	5.8	7.4
Fixed-weighted price index.....	5.0	7.3	2.9	3.9	8.6	12.8	5.9	7.7
Services:								
Current dollars.....	11.8	12.3	14.1	10.1	15.3	9.8	13.9	11.1
1972 dollars.....	4.4	4.6	6.1	3.9	7.0	1.9	5.9	3.8
Implicit price deflator.....	7.2	7.3	7.5	6.0	7.7	7.8	7.6	7.1
Chain price index.....	7.2	7.3	7.2	6.2	7.3	8.4	7.6	7.1
Fixed-weighted price index.....	7.3	7.4	7.3	6.2	7.3	8.4	7.6	7.2
Gross private domestic investment:								
Current dollars.....	22.6	15.7	20.5	5.1	12.2	31.3	5.5	12.0
1972 dollars.....	13.2	7.0	9.7	-2.9	11.3	15.2	-5.1	1.0
Implicit price deflator.....								
Chain price index.....								
Fixed-weighted price index.....								
Fixed investment:								
Current dollars.....	21.3	16.6	13.9	18.8	7.5	27.8	14.4	15.1
1972 dollars.....	12.4	6.6	5.3	7.1	1.2	15.3	2.0	5.1
Implicit price deflator.....	7.9	9.4	8.2	11.0	6.2	10.8	12.2	9.5
Chain price index.....	7.8	9.6	8.2	10.8	6.5	11.9	12.1	9.3
Fixed-weighted price index.....	8.2	9.8	7.9	10.9	6.5	12.5	12.3	9.8
Nonresidential:								
Current dollars.....	15.7	16.7	14.1	14.8	11.1	31.2	14.3	14.3
1972 dollars.....	9.1	7.8	5.3	5.3	4.2	21.3	3.5	5.7
Implicit price deflator.....	6.0	8.2	8.3	9.0	6.7	8.2	10.4	8.1
Chain price index.....	6.2	8.3	8.2	8.8	6.7	9.2	10.0	7.7
Fixed-weighted price index.....	6.3	8.4	7.9	8.6	6.7	9.7	10.0	8.0
Structures:								
Current dollars.....	11.4	21.6	12.9	13.4	6.3	56.5	24.4	19.6
1972 dollars.....	4.4	10.9	7.6	2.0	-3	40.3	9.8	7.2
Implicit price deflator.....	6.7	9.6	5.0	11.1	6.6	11.5	13.3	11.6
Chain price index.....	6.5	9.6	7.5	9.2	5.9	12.4	13.7	11.9
Fixed-weighted price index.....	6.3	9.4	6.6	8.9	6.2	12.5	13.4	11.6
Producers' durable equipment:								
Current dollars.....	17.9	14.2	14.7	15.6	13.6	19.8	9.1	11.4
1972 dollars.....	11.4	6.4	4.3	6.8	6.2	13.6	7	5.0
Implicit price deflator.....	5.8	7.3	9.9	8.2	6.9	5.5	8.3	6.1
Chain price index.....	6.0	7.6	8.6	8.6	7.2	7.6	8.0	5.4
Fixed-weighted price index.....	6.3	7.7	8.6	8.4	7.1	8.0	7.9	5.7
Residential:								
Current dollars.....	34.8	16.4	13.5	27.3	.5	21.0	14.9	16.8
1972 dollars.....	20.5	3.8	5.2	11.1	-5.2	2.7	-1.6	3.7
Implicit price deflator.....	11.8	12.2	7.9	14.6	6.0	17.9	16.7	12.5
Chain price index.....	11.8	12.2	8.0	15.1	6.1	17.6	16.7	12.9
Fixed-weighted price index.....	11.8	12.2	8.0	14.9	6.2	17.5	16.4	12.9

Table 27.—Percent Change From Preceding Period in Gross National Product in Current and Constant Dollars, Implicit Price Deflator, and Price Indexes (8.9)—Con.

Exports:								
Current dollars.....	7.5	16.7	6.4	-18.0	24.3	63.4	9.5	24.6
1972 dollars.....	2.4	9.0	7.6	-17.6	13.7	43.3	1.9	10.6
Implicit price deflator.....	5.1	7.0	-1.2	-5	9.4	14.0	7.4	12.6
Chain price index.....	5.0	6.8	-5	-2	8.5	13.7	7.4	12.1
Fixed-weighted price index.....	5.2	6.6	-4	-4	8.1	12.9	7.9	11.8
Imports:								
Current dollars.....	19.8	16.2	8.5	16.8	23.4	10.3	20.2	17.1
1972 dollars.....	10.2	11.2	1.4	22.8	15.2	3.7	11.2	7.9
Implicit price deflator.....	8.7	4.5	7.1	-4.9	7.1	6.4	8.2	8.6
Chain price index.....	7.5	6.7	6.0	2.6	12.3	3.7	7.7	9.9
Fixed-weighted price index.....	7.8	7.0	5.7	3.1	12.3	2.9	7.9	10.2
Government purchases of goods and services:								
Current dollars.....	9.6	10.2	11.5	13.7	4.1	7.9	15.0	14.2
1972 dollars.....	2.4	2.2	5.8	4.2	-3.5	-2	7.2	4.1
Implicit price deflator.....	7.0	7.8	5.4	9.0	7.9	8.2	7.2	9.7
Chain price index.....	7.0	7.5	5.0	9.5	7.3	7.5	6.9	10.0
Fixed-weighted price index.....	7.0	7.6	5.0	10.2	6.6	7.8	6.7	10.4
Federal:								
Current dollars.....	11.7	6.0	11.3	15.7	-2.0	-10.9	20.0	23.2
1972 dollars.....	5.2	-1.3	6.4	2.9	-8.9	-15.3	14.3	8.3
Implicit price deflator.....	6.2	7.4	4.6	12.4	7.6	5.2	5.0	13.8
Chain price index.....	6.3	7.0	3.6	14.2	6.1	5.0	4.4	14.0
Fixed-weighted price index.....	6.5	6.8	3.6	14.7	4.9	4.5	3.9	14.7
State and local:								
Current dollars.....	8.4	12.6	11.6	12.5	7.8	19.9	12.4	9.5
1972 dollars.....	.8	4.3	5.4	5.1	-1	9.6	3.4	1.8
Implicit price deflator.....	7.5	8.0	5.9	7.1	8.0	9.5	8.6	7.6
Chain price index.....	7.4	7.8	5.8	6.9	8.0	9.0	8.3	7.4
Fixed-weighted price index.....	7.3	8.1	5.9	7.4	7.8	10.0	8.6	7.6
Addenda:								
Final sales:								
Current dollars.....	10.8	11.7	10.1	11.0	6.4	20.0	11.1	15.5
1972 dollars.....	4.7	3.9	5.0	4.7	-1.6	8.6	3.7	7.0
Implicit price deflator.....	5.8	7.6	4.8	6.0	8.0	10.5	7.1	8.0
Chain price index.....	6.2	7.5	4.6	6.6	7.0	10.8	7.5	8.1
Fixed-weighted price index.....	6.3	7.6	4.7	6.9	7.0	11.0	7.6	8.4
Gross domestic product:								
Current dollars.....	10.9	11.6	11.2	9.5	6.7	20.1	10.2	15.0
1972 dollars.....	4.8	3.9	5.8	3.5	-4	8.3	3.0	6.4
Implicit price deflator.....	5.8	7.4	5.1	5.8	7.1	10.9	7.0	8.1
Chain price index.....	6.1	7.5	4.5	6.7	7.1	10.9	7.5	8.2
Fixed-weighted price index.....	6.3	7.7	4.6	7.0	7.0	11.0	7.6	8.4
Business:								
Current dollars.....	11.3	11.9	11.6	8.6	5.8	22.5	10.7	15.7
1972 dollars.....	5.4	4.2	6.0	3.5	-8	9.5	3.2	7.3
Implicit price deflator.....	5.6	7.4	5.3	5.0	6.7	11.9	7.3	7.8
Chain price index.....	6.0	7.6	4.6	6.1	6.7	11.8	7.9	7.8
Fixed-weighted price index.....	6.2	7.7	4.7	6.3	6.7	12.1	8.0	8.0
Nonfarm:								
Current dollars.....	11.4	12.1	11.9	7.9	7.0	22.9	10.6	15.7
1972 dollars.....	5.2	4.8	5.1	3.6	1.1	11.1	2.3	7.4
Implicit price deflator.....	5.9	7.0	6.4	4.1	5.8	10.6	8.0	7.4
Chain price index.....	6.2	7.1	6.1	5.1	5.4	10.7	8.5	7.4
Fixed-weighted price index.....	6.4	7.2	6.2	5.3	5.3	10.8	8.7	7.4
Disposable personal income:								
Current dollars.....	10.0	11.4	10.9	12.9	9.8	12.5	10.2	12.5
1972 dollars.....	4.1	4.3	5.9	7.8	1.1	3.5	3.6	5.7

* Revised.

NOTE.—Table 27: 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 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 timespan reflect only changes in prices.

Manufacturing and Trade Inventories and Sales in Constant Dollars, 1977:I-1978:IV

Quarterly estimates of inventories, sales, and inventory-sales ratios for manufacturing and trade, in constant dollars, for 1977:I-1978:IV are shown in tables 1-4. These estimates are consistent with those presented in the July 1978 SURVEY OF CURRENT BUSINESS. Estimates for 1974:IV-1976:IV appear in the August 1978 SURVEY.

Table 1.—Manufacturing and Trade Inventories in Constant Dollars, Seasonally Adjusted, End of Quarter

Table 2.—Manufacturing and Trade Sales in Constant Dollars, Seasonally Adjusted Quarterly Totals at Monthly Rate

	[Billions of 1972 dollars]								[Billions of 1972 dollars]							
	1977				1978				1977				1978			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Manufacturing and trade	227.0	229.3	232.4	233.8	237.3	240.3	242.3	244.0	145.9	146.9	147.9	151.1	150.6	155.9	156.5	160.3
Manufacturing	127.3	128.3	129.1	128.8	129.9	131.5	132.9	132.9	70.3	70.3	70.7	72.2	72.6	74.9	75.0	76.6
Durable goods.....	83.0	83.6	84.0	83.9	84.9	86.1	87.2	87.5	38.1	38.3	38.3	39.3	39.6	41.0	41.2	42.5
Primary metals.....	14.0	14.0	14.1	13.9	13.2	13.2	13.4	13.4	4.9	5.1	4.9	5.0	5.1	5.3	5.4	5.8
Fabricated metal products.....	10.5	10.5	10.5	10.4	10.7	10.9	10.9	10.9	4.5	4.5	4.4	4.5	4.5	4.7	4.6	4.8
Machinery, except electrical.....	17.9	18.0	18.1	18.5	18.9	19.4	19.8	20.2	6.7	6.7	6.8	7.0	6.9	7.3	7.5	7.8
Electrical machinery.....	11.4	11.7	11.8	11.9	12.2	12.4	12.6	12.4	5.2	5.2	5.3	5.5	5.7	5.7	5.8	5.9
Motor vehicles and parts.....	5.7	5.8	5.8	5.6	5.7	5.6	5.9	5.3	6.5	6.5	6.5	6.6	6.6	6.9	6.7	7.1
Other transportation equipment.....	9.6	9.5	9.6	9.5	9.8	10.0	10.1	10.6	2.9	2.9	2.9	2.9	3.0	3.1	3.2	3.1
Other durable goods ¹	14.0	14.1	14.0	14.0	14.4	14.4	14.6	14.7	7.4	7.5	7.5	7.8	7.8	8.1	7.9	8.1
Nondurable goods.....	44.2	44.8	45.1	44.9	45.0	45.4	45.7	45.4	32.2	32.0	32.4	32.9	33.0	33.9	33.8	34.2
Food and kindred products.....	13.5	13.5	13.5	13.1	12.9	13.0	13.2	12.9	10.5	10.2	10.4	10.6	10.5	10.6	10.7	10.8
Nonfood.....	30.7	31.2	31.6	31.8	32.1	32.4	32.6	32.5	21.7	21.8	21.9	22.2	22.5	23.3	23.1	23.4
Paper and allied products.....	3.6	3.7	3.7	3.7	3.8	3.9	3.9	3.8	2.7	2.7	2.6	2.7	2.8	2.8	2.8	2.8
Chemicals and allied products.....	7.6	7.8	8.1	8.1	8.3	8.4	8.6	8.6	5.6	5.6	5.6	5.7	6.0	6.1	5.9	6.2
Petroleum and coal products.....	3.2	3.4	3.5	3.5	3.3	3.3	3.3	3.3	3.0	2.9	3.0	3.0	2.9	3.1	3.2	3.1
Rubber and plastic products.....	2.8	2.8	2.9	2.8	2.9	2.9	2.9	2.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.1
Other nondurable goods ²	13.5	13.5	13.5	13.7	13.8	13.9	13.9	13.8	8.5	8.6	8.8	8.9	8.9	9.3	9.2	9.2
Merchant wholesalers	42.4	42.7	43.5	44.3	46.3	47.1	47.2	48.6	32.7	33.5	33.7	34.2	34.3	36.3	36.6	37.4
Durable goods.....	27.2	27.7	28.6	29.3	30.3	31.0	31.4	32.3	14.9	15.2	15.5	16.2	16.4	17.3	17.7	18.1
Nondurable goods.....	15.3	15.0	14.9	15.0	16.0	16.1	15.8	16.3	17.8	18.3	18.2	18.0	17.8	18.9	18.9	19.2
Groceries and farm products.....	5.4	5.3	5.0	5.3	5.7	5.7	5.4	5.3	9.2	9.8	9.9	9.7	9.5	10.0	10.0	10.2
Other nondurable goods.....	9.8	9.7	9.8	9.7	10.2	10.4	10.5	11.0	8.5	8.5	8.3	8.3	8.3	8.9	8.9	9.1
Retail trade	57.3	58.3	59.8	60.6	61.1	61.7	62.2	62.6	42.9	43.1	43.5	44.7	43.7	44.7	45.0	46.3
Durable goods.....	25.9	26.3	26.9	27.5	27.6	27.3	27.0	27.6	14.9	14.9	15.0	15.6	15.0	15.8	15.9	16.6
Automotive dealers.....	13.2	13.5	13.8	14.3	14.3	14.0	13.8	14.7	8.9	8.7	8.8	9.2	8.8	9.2	9.1	9.5
Other durable goods.....	12.7	12.8	13.2	13.1	13.4	13.3	13.3	12.9	6.0	6.2	6.2	6.4	6.2	6.5	6.8	7.2
Nondurable goods.....	31.4	32.0	32.8	33.2	33.5	34.4	35.2	35.0	28.0	28.1	28.5	29.2	28.7	28.9	29.0	29.6
Food stores.....	6.4	6.3	6.4	6.4	6.3	6.4	6.5	6.4	8.9	9.0	9.0	9.1	9.2	9.0	9.1	9.1
Other nondurable goods.....	25.1	25.7	26.4	26.8	27.1	28.0	28.7	28.6	19.1	19.1	19.4	20.0	20.0	20.0	20.1	20.5

Table 3.—Constant-Dollar Inventory-Sales Ratios for Manufacturing and Trade, Seasonally Adjusted

Table 4.—Fixed-Weighted Constant-Dollar Inventory-Sales Ratios for Manufacturing and Trade, Seasonally Adjusted

	[Ratio, based on 1972 dollars]								[Ratio, based on 1972 dollars]							
	1977				1978				1977				1978			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Manufacturing and trade	1.56	1.56	1.57	1.55	1.58	1.54	1.55	1.52	1.55	1.55	1.56	1.53	1.56	1.52	1.52	1.49
Manufacturing	1.81	1.83	1.83	1.79	1.79	1.76	1.77	1.73	1.82	1.83	1.83	1.78	1.79	1.76	1.76	1.72
Durable goods.....	2.18	2.18	2.19	2.13	2.15	2.10	2.12	2.06	2.19	2.19	2.20	2.14	2.15	2.11	2.11	2.06
Primary metals.....	2.85	2.78	2.87	2.77	2.88	2.50	2.46	2.32								
Fabricated metal products.....	2.35	2.35	2.42	2.32	2.39	2.33	2.38	2.28								
Machinery, except electrical.....	2.68	2.69	2.64	2.64	2.72	2.66	2.64	2.60								
Electrical machinery.....	2.19	2.24	2.21	2.17	2.15	2.17	2.16	2.11								
Motor vehicles and parts.....	.87	.89	.90	.86	.87	.82	.88	.75								
Other transportation equipment.....	3.33	3.29	3.35	3.23	3.29	3.28	3.20	3.41								
Other durable goods ¹	1.89	1.87	1.86	1.80	1.85	1.79	1.84	1.82								
Nondurable goods.....	1.37	1.40	1.39	1.37	1.36	1.34	1.35	1.33	1.38	1.41	1.40	1.36	1.37	1.35	1.36	1.31
Food and kindred products.....	1.29	1.33	1.29	1.23	1.23	1.22	1.23	1.20								
Nonfood.....	1.42	1.43	1.44	1.43	1.42	1.39	1.41	1.39								
Paper and allied products.....	1.34	1.36	1.43	1.41	1.37	1.37	1.37	1.36								
Chemicals and allied products.....	1.36	1.39	1.44	1.43	1.38	1.37	1.46	1.39								
Petroleum and coal products.....	1.08	1.15	1.16	1.15	1.14	1.07	1.04	1.05								
Rubber and plastic products.....	1.46	1.48	1.48	1.43	1.48	1.48	1.44	1.39								
Other nondurable goods ²	1.59	1.57	1.53	1.54	1.55	1.50	1.51	1.51								
Merchant wholesalers	1.30	1.27	1.29	1.30	1.35	1.30	1.29	1.30	1.30	1.28	1.30	1.29	1.36	1.29	1.29	1.28
Durable goods.....	1.82	1.82	1.85	1.80	1.84	1.79	1.78	1.78	1.83	1.83	1.85	1.82	1.88	1.81	1.81	1.79
Nondurable goods.....	.86	.82	.82	.84	.89	.85	.84	.85	.86	.83	.84	.86	.93	.86	.85	.86
Groceries and farm products.....	.59	.54	.51	.55	.60	.57	.54	.52								
Other nondurable goods.....	1.15	1.13	1.18	1.17	1.23	1.17	1.17	1.21								
Retail trade	1.34	1.35	1.38	1.36	1.40	1.38	1.38	1.35	1.30	1.31	1.33	1.30	1.35	1.32	1.31	1.28
Durable goods.....	1.74	1.76	1.80	1.76	1.85	1.73	1.70	1.66	1.73	1.75	1.79	1.75	1.84	1.72	1.68	1.64
Automotive dealers.....	1.48	1.54	1.57	1.56	1.62	1.52	1.51	1.55								
Other durable goods.....	2.12	2.08	2.12	2.06	2.17	2.03	1.94	1.80								
Nondurable goods.....	1.12	1.14	1.15	1.14	1.17	1.19	1.21	1.18	1.08	1.09	1.10	1.07	1.11	1.11	1.13	1.10
Food stores.....	.72	.70	.71	.70	.69	.71	.72	.70								
Other nondurable goods.....	1.31	1.34	1.36	1.34	1.39	1.40	1.43	1.39								

1. Includes stone, clay and glass products; instruments and related products; and other durable goods.

2. Includes tobacco manufacturers; textile mill products; apparel products; printing and publishing; and leather and leather products.

NOTE.—Tables 1, 2, and 3: Manufacturing inventories are classified according to the type of product produced by the establishment holding inventories; constant dollar inventories in

table 16 of the national income and product tables include, in addition to the industries shown here, nonmerchant wholesalers, other nonfarm industries, and farms.

Table 4: The weighted I-S ratios shown in this table were obtained by weighting detailed industry I-S ratios with 1972 sales. Additional industrial detail was used than is shown in table 2. For manufacturing, I-S ratios for 21 industries were weighted by sales; for merchant wholesalers, 20 categories of business, and for retail trade, 8.

Pollution Abatement and Control Expenditures in Constant and Current Dollars, 1972-77

THIS article presents for the first time estimates of air, water, solid waste, and other pollution abatement and control (PAC) expenditures in constant (1972) dollars—in the same detail previously available for current-dollar estimates.¹ The current-dollar estimates are in tables 1, 3, and 5, and constant-dollar estimates are in tables 2, 4, and 6. Corresponding implicit price deflators have been prepared, and changes in them are shown in table 7. On the basis of the new estimates, real PAC expenditures increased 2 percent to \$24.5 billion in 1977, compared with a 6-percent average annual increase during 1972-77. In current dollars, PAC expenditures increased 9 percent to \$37.5 billion in 1977, compared with a 15-percent average annual increase.²

The use of the current-dollar estimates of PAC spending has broadened as the time period covered has lengthened. One recent important application was by Edward F. Denison in his study of the impact on measured output per unit of input of new requirements to

protect the physical environment against pollution.³ The constant-dollar estimates, like the current-dollar estimates, are a measure of the value of resources diverted from production of conventional goods and services to the cleaning of air and water emissions and the proper disposal of solid waste. The constant-dollar estimates, or parts of them, will make possible further studies of the effects of PAC spending on productivity, inflation, and real growth, and will facilitate cost-benefit comparisons when benefit estimates become available.

In this article, real PAC spending in 1977—the latest year for which estimates are available—is discussed first. Next, patterns in real PAC spending during 1972-77 are discussed, and the effects of major Federal air and water pollution abatement legislation are highlighted. Changes in the PAC implicit price deflator and its components during 1972-77 are discussed briefly in the third section and prospects for real PAC spending during 1978-80 are indicated in the fourth. The fifth section summarizes the concepts and methods used in developing real PAC spending estimates and the implicit price deflators.

Real PAC spending, 1977

Real PAC spending increased \$0.5 billion in 1977—the second smallest absolute increase in the 6 years for which estimates are available. Business operating costs (shown in the tables as

3. The impact of increased requirements to protect the safety and health of employed persons and of a rise in dishonesty and crime on measured output per unit of input were also covered in the study; see "Effects of Selected Changes in the Institutional and Human Environment Upon Output Per Unit of Input," in the January 1978 SURVEY.

business expenditures on current account, including those for government enterprises) increased \$0.5 billion in 1977, reflecting increases, although smaller than some in earlier years, in the capital stock for pollution abatement in 1976 and 1977. Purchases by consumers and business of emission controls systems for motor vehicles increased \$0.3 billion in 1977, almost exclusively due to an 11-percent increase in the number of new vehicles sold. Residential systems investment (septic tanks and drainage fields, and connections to public sewers) increased \$0.1 billion in 1977, reflecting a sharp increase in new residential construction.

Several decreases in PAC spending partly offset these increases. Business investment in new plant and equipment for air and water pollution abatement decreased \$0.2 billion in 1977. Investment was maintained at a high level, but it did not increase as it had in anticipation of the 1975 and 1977 deadlines in major Federal air and water pollution abatement legislation. Public sewer system investment decreased \$0.2

The new constant-dollar and corresponding implicit price deflator series presented in this article represent several years' research. Frank W. Segel and Frederick J. Dreiling conducted the early phases of the research and provided advice throughout. Susan L. Trevathan was responsible for the organization of detail provided by other researchers. Linda P. Atkinson, Bruce E. Baker, John F. Fenton, Frederick G. Kappler, Betsy D. O'Connor, William J. Russo as well as Susan L. Trevathan conducted price index and related index-weighting studies. Mary C. Baker provided statistical assistance.

1. PAC expenditures consist of all expenditures for reducing the emission of pollutants, and exclude expenditures for other aspects of environmental protection, such as the conservation of natural resources or the protection of endangered species. PAC spending is defined to include pollution abatement expenditures, which reduce emissions directly, plus expenditures for regulation and monitoring and for research and development, which lead indirectly to the reduction of emissions. Because data are not available, the national estimates exclude expenditures by agricultural businesses; real estate operators; private medical, legal, educational, and cultural services; and nonprofit organizations.

See "National Expenditures for Pollution Abatement and Control, 1972," in the February 1975 SURVEY OF CURRENT BUSINESS for further details on concepts and definitions.

2. The 9-percent increase is based on the revised 1976 estimate, which is \$0.3 billion less than the preliminary figure published a year ago. Most of the downward revision was in pollution abatement expenditures for unleaded gasoline used in motor vehicles with catalytic converters.

Table 1.—National Expenditures for

[Millions

Line		1972 ^r					1973 ^r					1974 ^r				
		Total	Air	Water	Solid waste	Other and unallocated ²	Total	Air	Water	Solid waste	Other and unallocated ²	Total	Air	Water	Solid waste	Other and unallocated ²
1	Pollution abatement and control.....	18,687	6,718	8,693	3,499	-224	22,411	8,653	9,990	3,992	-225	26,219	10,564	11,468	4,380	-193
2	Pollution abatement ³	17,499	6,045	8,408	3,458	-412	21,019	7,905	9,636	3,941	-463	24,634	9,781	11,068	4,318	-534
3	Personal consumption.....	1,598	1,598				2,152	2,152				2,746	2,746			
4	Durable goods.....	467	467				663	663				675	675			
5	Nondurable goods and services.....	1,131	1,131				1,489	1,489				2,071	2,071			
6	Business.....	11,076	4,273	4,905	2,314	-415	13,439	5,590	5,656	2,663	-470	15,346	6,837	6,168	2,879	-538
7	On capital account.....	5,711	2,628	2,768	315		7,049	3,512	3,135	403		7,342	3,784	3,140	419	
8	On current account.....	5,365	1,645	2,137	1,999	-415	6,390	2,079	2,521	2,260	-470	8,004	3,054	3,028	2,460	-538
9	Private.....	4,634	1,627	1,008	1,999		5,516	2,049	1,207	2,260		6,908	2,993	1,456	2,460	
10	Government enterprise.....	1,147	18	1,129			1,343	30	1,313			1,633	61	1,572		
11	Cost recovered.....	-415				-415	-470				-470	-538				-538
12	Government.....	4,824	173	3,503	1,144	4	5,428	162	3,981	1,278	7	6,542	198	4,900	1,439	4
13	Federal.....	140	57	75	5	3	205	49	134	16	6	297	58	196	38	4
14	State and local.....	1,330	12	178	1,140	1	1,456	16	177	1,262	1	1,621	25	196	1,401	
15	Government enterprise fixed capital.....	3,355	105	3,250			3,767	97	3,670			4,624	116	4,509		
16	Regulation and monitoring.....	367	143	144	14	66	490	165	190	18	117	597	184	248	27	139
17	Federal.....	200	48	79	9	64	273	50	99	14	115	349	53	135	22	138
18	State and local.....	167	95	65	5	2	212	115	91	4	2	248	131	112	5	
19	Research and development.....	822	531	141	27	122	902	583	164	33	122	988	599	153	35	202
20	Private.....	518	410	63	12	32	568	451	69	13	35	606	491	56	13	46
21	Federal.....	205	104	34	6	62	269	126	62	11	69	344	101	79	17	147
22	State and local.....	99	17	44	10	28	65	6	33	9	18	39	7	18	5	9
23	Addendum: Business capital consumption allowance ⁴	1,507					1,792					2,243				

^r Revised. ^p Preliminary.
 1. Excludes agricultural business; real estate operators; private medical, legal, educational, and cultural services; and nonprofit organizations.

2. "Other" includes expenditures for abatement and control of noise, radiation, and pesticide pollution. "Unallocated" includes business expenditures not assigned to media.
 3. PA spending is attributed to the sector that performs the abatement activity.
 4. Valued in current prices.

Table 2.—National Expenditures for Pollution Abatement

[Millions

Line		1972 ^r					1973 ^r				
		Total	Air	Water	Solid waste	Other and unallocated ²	Total	Air	Water	Solid waste	Other and unallocated ²
1	Pollution abatement and control.....	18,687	6,718	8,693	3,499	-224	21,055	8,129	9,382	3,721	-176
2	Pollution abatement ³	17,499	6,045	8,408	3,458	-412	19,749	7,427	9,050	3,673	-401
3	Personal consumption.....	1,598	1,598				2,048	2,048			
4	Durable goods.....	467	467				662	662			
5	Nondurable goods and services.....	1,131	1,131				1,386	1,386			
6	Business.....	11,076	4,273	4,905	2,314	-415	12,649	5,224	5,349	2,482	-407
7	On capital account.....	5,711	2,628	2,768	315		6,698	3,345	2,966	384	
8	On current account.....	5,365	1,645	2,137	1,999	-415	5,952	1,877	2,384	2,098	-407
9	Private.....	4,634	1,627	1,008	1,999		5,094	1,852	1,145	2,098	
10	Government enterprise.....	1,147	18	1,129			1,264	25	1,239		
11	Cost recovered.....	-415				-415	-407				-407
12	Government.....	4,824	173	3,503	1,144	4	5,052	155	3,700	1,191	6
13	Federal.....	140	57	75	5	3	192	47	124	16	6
14	State and local.....	1,330	12	178	1,140	1	1,353	16	161	1,175	1
15	Government enterprise fixed capital.....	3,355	105	3,250			3,507	92	3,415		
16	Regulation and monitoring.....	367	143	144	14	66	458	154	178	17	109
17	Federal.....	200	48	79	9	64	261	47	93	14	108
18	State and local.....	167	95	65	5	2	198	108	85	3	2
19	Research and development.....	822	531	141	27	122	848	548	154	31	115
20	Private.....	518	410	63	12	32	533	424	65	12	33
21	Federal.....	205	104	34	6	62	253	118	59	11	65
22	State and local.....	99	17	44	10	28	62	6	31	9	17
23	Addendum: Business capital consumption allowance ⁴	1,507					1,724				

^r Revised. ^p Preliminary.
 1. Excludes agricultural business; real estate operators; private medical, legal, educational, and cultural services; and nonprofit organizations.

2. "Other" includes expenditures for abatement and control of noise, radiation, and pesticide pollution. "Unallocated" includes business expenditures not assigned to media.
 3. PA spending is attributed to the sector that performs the abatement activity.
 4. Valued in 1972 prices.

Pollution Abatement and Control ¹

of dollars]

1975 ^r					1976 ^r					1977 ^p					Line
Total	Air	Water	Solid waste	Other and unallocated ²	Total	Air	Water	Solid waste	Other and unallocated ²	Total	Air	Water	Solid waste	Other and unallocated ²	
30,825	12,989	13,255	4,806	-224	34,334	14,291	15,097	5,235	-290	37,504	15,637	16,374	5,785	-292	1
29,074	12,200	12,811	4,731	-669	32,357	13,429	14,592	5,168	-832	35,343	14,713	15,815	5,707	-892	2
3,613	3,613				4,205	4,205				4,541	4,541				3
1,334	1,334				1,795	1,795				2,129	2,129				4
2,279	2,279				2,410	2,410				2,412	2,412				5
17,785	8,324	7,013	3,140	-694	19,785	8,923	8,246	3,505	-890	22,214	9,853	9,329	3,993	-961	6
8,391	4,545	3,426	420		8,980	4,545	3,985	449		9,735	4,858	4,320	557		7
9,393	3,779	3,587	2,721	-694	10,805	4,377	4,261	3,056	-890	12,479	4,995	5,009	3,436	-961	8
8,164	3,701	1,742	2,721		9,452	4,299	2,096	3,056		10,853	4,915	2,502	3,436		9
1,923	78	1,845			2,243	78	2,165			2,587	80	2,507			10
-694				-694	-890				-890	-961				-961	11
7,676	263	5,798	1,591	25	8,367	302	6,346	1,662	58	8,589	320	6,486	1,714	70	12
435	91	271	50	24	476	110	258	52	56	498	107	279	43	70	13
1,804	44	218	1,541	1	1,871	42	217	1,611	2	1,920	40	209	1,671		14
5,437	128	5,309			6,021	150	5,871			6,172	173	5,998			15
648	206	279	33	130	710	203	328	28	151	829	237	376	39	177	16
375	66	153	26	130	387	69	151	21	147	427	80	149	26	172	17
272	139	126	6		323	134	178	7	4	401	157	227	13	5	18
1,104	583	164	42	316	1,266	659	177	40	391	1,332	686	183	40	423	19
607	466	67	21	53	690	522	74	21	73	712	536	77	22	77	20
450	109	78	15	249	531	131	85	14	301	569	144	88	14	323	21
47	8	19	6	14	45	6	18	4	17	51	7	18	4	23	22
2,850					3,354					3,945					23

and Control in Constant (1972) Dollars ¹

of dollars]

1974 ^r					1975 ^r					1976 ^r					1977 ^r					Line
Total	Air	Water	Solid waste	Other and unallocated ²	Total	Air	Water	Solid waste	Other and unallocated ²	Total	Air	Water	Solid waste	Other and unallocated ²	Total	Air	Water	Solid waste	Other and unallocated ²	
21,232	8,147	9,526	3,643	-84	22,803	9,095	10,076	3,716	-85	23,950	9,505	10,698	3,859	-112	24,459	9,773	10,768	4,026	-108	1
19,874	7,482	9,182	3,589	-379	21,437	8,488	9,726	3,658	-435	22,506	8,884	10,326	3,810	-513	22,982	9,151	10,383	3,972	-523	2
2,185	2,185				2,699	2,699				3,004	3,004				3,091	3,091				3
638	638				1,160	1,160				1,468	1,468				1,654	1,654				4
1,547	1,547				1,539	1,539				1,536	1,536				1,437	1,437				5
12,181	5,135	5,086	2,392	-383	12,662	5,599	5,092	2,425	-455	13,274	5,674	5,574	2,581	-556	13,918	5,857	5,852	2,774	-565	6
6,102	3,133	2,617	352		6,285	3,381	2,588	315		6,355	3,212	2,821	322		6,486	3,251	2,864	371		7
6,079	2,003	2,420	2,039	-383	6,377	2,218	2,504	2,110	-455	6,920	2,463	2,754	2,260	-556	7,432	2,605	2,988	2,403	-565	8
5,166	1,971	1,155	2,039		5,493	2,186	1,198	2,110		6,024	2,430	1,334	2,260		6,439	2,574	1,462	2,403		9
1,296	31	1,265			1,338	32	1,306			1,452	32	1,420			1,558	32	1,526			10
-383				-383	-455				-455	-556				-556	-565				-565	11
5,509	162	4,146	1,198	4	6,077	190	4,634	1,233	20	6,228	205	4,751	1,228	43	5,974	203	4,531	1,197	42	12
249	48	166	32	4	338	65	216	38	19	344	74	190	38	42	331	67	192	30	42	13
1,329	22	142	1,165		1,385	37	153	1,195	1	1,377	34	152	1,190	1	1,328	31	130	1,168		14
3,930	92	3,838			4,353	88	4,265			4,507	98	4,410			4,316	106	4,200			15
518	158	214	24	122	518	163	223	26	106	533	151	245	21	117	582	165	261	27	128	16
308	47	119	20	122	307	54	125	22	106	298	53	116	16	113	310	58	108	19	125	17
210	111	95	4		211	100	98	5		235	98	128	5	3	272	107	153	9	3	18
840	507	131	30	173	847	444	127	32	244	911	470	128	29	284	895	457	124	27	288	19
511	414	47	11	39	460	353	51	16	40	489	370	52	15	52	470	354	51	15	51	20
295	87	68	15	126	349	84	61	11	193	388	96	62	10	220	388	98	60	10	220	21
34	6	16	4	8	38	7	15	5	11	35	5	14	3	13	37	5	13	3	17	22
1,945					2,190					2,448					2,724					23

billion despite significant increases in Federal grants for such investment in recent years (grants for water pollution abatement were largely for public sewer system investment). Spending by consumers to operate emission controls on motor vehicles decreased \$0.1 billion in 1977, reflecting the favorable effects on fuel economy of catalytic converters on 1975 and later model-year passenger cars and of unleaded gasoline (required because of converters) on engine maintenance costs.

Real PAC spending, 1972-77

The 6-percent average annual increase in real PAC spending during 1972-77 mainly reflected a 6-percent increase in pollution abatement (PA) spending, which accounted for most of PAC spending in all years. Regulation and monitoring (R. & M.) spending increased considerably faster (10 percent) and research and development (R. & D.) spending slower (2 percent) than PA spending.

The effects of air and water PA laws.—PAC spending during 1972-77 re-

flected the 1970 Clean Air Act Amendments and 1972 Federal Water Pollution Control Act Amendments (referred to below as the air amendments and water amendments); earlier Federal laws, including the 1965 Solid Waste Disposal Act; State and local laws with air and water PA provisions and regulating disposal of solid wastes; and public concern for the condition of the environment. As much as one-half of PAC spending during this period was due to the major provisions of the air amendments and water amendments, which stipulated deadlines and authorized Federal grants. Also, year-to-year variations in PAC spending reflected to a significant extent the directness with which these provisions affected different PAC spending categories.

Major deadlines set by the air amendments and water amendments were for achievement of national primary ambient air quality standards by 1975, achievement of interim emission standards for new motor vehicles by 1975, installation by industry of "best

practicable technology" for water pollution abatement by 1977, and installation of secondary sewage treatment facilities by 1977.⁴ The water amendments authorized an \$18 billion grants program to finance up to 75 percent of the cost of construction by municipalities of secondary sewage treatment facilities.

The effects of these provisions on PAC spending categories were of three kinds, and will be discussed in that framework. (1) Deadlines directly stimulated several categories, specifically—in approximate order of directness—PAC spending by government, R. & D. spending by industry, durables PA spending by consumers, and capital PA spending by business. (2) Federal grants directly stimulated government enterprise fixed capital PA spending. (3) Deadlines indirectly stimulated non-durables PA spending by consumers and operating costs by business.

4. Primary standards are set at a level to protect the public health; secondary standards are set at a level to protect the value of other resources. Ambient standards pertain to air quality typical in an area or region; they are in contrast to standards for air quality at points of emission of air pollutants.

Table 3.—Business and Government Expenditures for Air and Water Pollution Abatement

[Millions of dollars]

	Air						Water					
	1972 ^r	1973 ^r	1974 ^r	1975 ^r	1976 ^r	1977 ^p	1972 ^r	1973 ^r	1974 ^r	1975 ^r	1976 ^r	1977 ^p
Business (line 6) ¹	4,273	5,591	6,838	8,324	8,923	9,852	4,904	5,656	6,167	7,013	8,245	9,330
On capital account (line 7).....	2,628	3,512	3,784	4,545	4,546	4,858	2,768	3,135	3,140	3,426	3,984	4,320
Motor vehicle emission abatement.....	210	323	410	721	913	1,119						
Plant and equipment expenditures.....	2,404	3,176	3,343	3,790	3,593	3,693	1,508	1,762	1,876	2,362	2,743	2,785
Electric utility cooperatives.....	14	13	31	34	40	46	5	8	7	6	8	9
Residential systems ²							1,255	1,365	1,257	1,058	1,233	1,526
On current account (line 8).....	1,644	2,079	3,054	3,779	4,377	4,994	2,136	2,521	3,027	3,587	4,261	5,010
Private (line 9).....	1,626	2,049	2,993	3,701	4,299	4,914	1,008	1,208	1,455	1,742	2,095	2,503
Motor vehicle emission abatement.....	457	641	1,064	1,380	1,591	1,808						
Manufacturing establishments.....	744	812	960	1,200	1,508	1,797	572	698	845	1,021	1,246	1,495
Privately owned electric utility establishments.....	228	370	712	802	797	820	31	35	54	73	96	129
Other nonmanufacturing establishments.....	202	226	257	319	403	489	210	266	328	401	489	584
Residential systems ²							195	209	228	247	264	295
Government enterprise (line 10).....	18	30	61	78	78	80	1,128	1,313	1,572	1,845	2,166	2,507
Publicly owned electric utilities.....	18	30	61	78	78	80	4	5	7	10	13	13
Public sewer systems.....							1,124	1,308	1,567	1,838	2,156	2,494
Cost recovered ³ (line 11).....												
Government (line 12)	173	162	198	263	302	320	3,503	3,981	4,901	5,798	6,345	6,487
Federal (line 13).....	57	49	58	91	110	107	75	134	196	271	258	279
Federal excluding highway erosion abatement.....	57	49	58	91	110	107	70	129	192	266	252	272
Highway erosion abatement.....							5	5	4	5	6	7
State and local (line 14).....	12	16	24	44	42	40	178	177	196	218	217	209
Motor vehicle emission abatement.....	12	16	24	44	42	40						
Highway erosion abatement.....							178	177	196	218	217	209
Government enterprise fixed capital (line 15).....	104	97	116	128	150	173	3,250	3,670	4,509	5,309	5,870	5,999
Publicly owned electric utilities.....	104	97	116	128	150	173	43	68	88	81	106	112
Public sewer systems.....							3,207	3,602	4,421	5,228	5,764	5,887

^r Revised. ^p Preliminary.

1. Line numbers correspond to those in table 1.

2. Consists of septic systems and sewer connections linking household plumbing to street sewer lines.

3. Cost recovered cannot be allocated by media.

In the first group, Federal PAC and each of its components increased rapidly in the earlier part of the period and then leveled off. Consistent with the startup and maintenance of new programs, Federal R. & M. spending increased rapidly during 1972-74 and was level in 1976 and 1977. Many new programs were required, for example, to promulgate guidelines for compliance, to review State Implementation Plans, to set up the National Pollutant Discharge Elimination System, and to administer grants. Federal R. & D. spending increased rapidly during 1972-76 and was level in 1977. Federal PA spending increased rapidly during 1972-75 and changed little in 1976 and 1977. State and local spending for R. & M. increased during 1972-74, was level in 1975, and increased in 1976 and 1977; spending for R. & D. and PA, which unlike R. & M. was not predominantly for air and water PAC,

did not increase significantly during 1972-77.

Industrial R. & D. spending, mostly by the automotive industry and for air PAC, was higher during 1972-74 than later, consistent with the effort to develop emission controls technology to incorporate in 1975 model-year vehicles. Interim emission standards required reduced emissions in 1973 and 1975, with the sharpest reduction in 1975.

Durables PA spending by consumers—exclusively for emission controls on new motor vehicles—increased rapidly during 1972-77, with a 42-percent increase in 1973 and an 82-percent increase in 1975. Spending per vehicle for improved emission controls increased most in percentage terms in 1973 and 1975, and the number of vehicles sold increased in 1973, 1976, and 1977. Emission controls purchases also augmented capital PA spending by business.

Capital PA spending by business includes motor vehicle emission controls, residential systems investment, and new plant and equipment PA investment. Residential systems investment varied with residential housing construction. The largest part of the year-to-year variations was in new plant and equipment. New plant and equipment PA spending, primarily to meet air and water pollution abatement deadlines, was substantial during 1972-77, and variations, which were large in absolute terms, reflected not only abatement deadlines but also changing business conditions and fluctuations in general capital spending.⁵

As mentioned earlier, Federal grants directly stimulated government enterprise fixed capital PA spending. That spending, which is almost exclusively

5. See "Capital Expenditures by Business for Pollution Abatement, 1972-77 and Planned 1978," in the June 1978 SURVEY.

Table 4.—Business and Government Expenditures for Air and Water Pollution Abatement in Constant (1972) Dollars

[Millions of dollars]

	Air						Water					
	1972 ^r	1973 ^r	1974 ^r	1975 ^r	1976 ^r	1977 ^p	1972 ^r	1973 ^r	1974 ^r	1975 ^r	1976 ^r	1977 ^p
Business (line 6) ¹	4,273	5,224	5,135	5,599	5,675	5,857	4,905	5,349	5,036	5,092	5,574	5,852
On capital account (line 7).....	2,628	3,347	3,133	3,381	3,212	3,251	2,768	2,965	2,616	2,588	2,821	2,864
Motor vehicle emission abatement.....	210	323	387	628	746	869	1,508	1,663	1,541	1,781	1,961	1,868
Plant and equipment expenditures.....	2,404	3,012	2,722	2,730	2,440	2,354	1,255	1,295	1,070	803	854	990
Electric utility cooperatives.....	14	12	24	23	26	28	5	7	5	4	6	6
Residential systems ²							1,255	1,295	1,070	803	854	990
On current account (line 8).....	1,644	1,877	2,002	2,218	2,463	2,606	2,137	2,384	2,420	2,504	2,753	2,988
Private (line 9).....	1,626	1,852	1,971	2,186	2,431	2,574	1,008	1,145	1,155	1,198	1,333	1,462
Motor vehicle emission abatement.....	457	597	786	922	1,003	1,068						
Manufacturing establishments.....	744	743	681	739	866	929	572	657	652	673	762	842
Privately owned electric utility establishments.....	223	306	322	328	330	324	31	32	41	46	56	68
Other nonmanufacturing establishments.....	202	206	182	197	232	253	210	251	253	265	299	329
Residential systems ²							195	205	209	214	216	223
Government enterprise (line 10).....	18	25	31	32	32	32	1,129	1,239	1,265	1,306	1,420	1,526
Publicly owned electric utilities.....	18	25	31	32	32	32	5	5	4	4	6	7
Public sewer systems.....							1,124	1,234	1,261	1,302	1,414	1,519
Cost recovered ³ (line 11).....												
Government (line 12)	173	155	162	190	205	203	3,503	3,701	4,146	4,634	4,751	4,531
Federal (line 13).....	57	47	48	65	74	67	75	124	166	216	190	192
Federal excluding highway erosion abatement.....	57	47	48	65	74	67	70	120	163	212	186	188
Highway erosion abatement.....							5	4	3	4	4	4
State and local (line 14).....	12	16	22	37	33	30	178	161	142	153	152	130
Motor vehicle emission abatement.....	12	16	22	37	33	30						
Highway erosion abatement.....							178	161	142	153	152	130
Government enterprise fixed capital (line 15).....	104	92	92	88	98	106	3,250	3,416	3,838	4,265	4,409	4,209
Publicly owned electric utilities.....	104	92	92	88	98	106	43	64	67	54	70	73
Public sewer systems.....							3,207	3,352	3,771	4,211	4,339	4,136

^r Revised. ^p Preliminary.

1. Line numbers correspond to those in table 1.

2. Consists of septic systems and sewer connections linking household plumbing to street sewer lines.

3. Cost recovered cannot be allocated by media.

for public sewer systems (largely sewage treatment facilities), increased each year during 1972-76 and decreased in 1977. The persistence of increases during 1972-76 is largely due to the 75-percent Federal funding provisions of the water amendments, and contrasts with privately financed new plant and equipment PA spending. Grants for public sewer systems (especially secondary sewage treatment facilities) increased 30 percent annually, reaching \$2.5 billion in 1977, and accounted for most of Federal grants to State and local governments for PAC (table 6).

Deadlines indirectly stimulated non-durables PA spending by consumers and operating costs by business—the last categories of PAC spending to be discussed. Nondurables PA spending and business operating costs can be expected to increase (except when offsetting technological developments occur) in years following increases in stocks of durables, business capital, and government enterprise fixed capital. Business operating costs, including those for government enterprises, did increase each year during 1972-77 following yearly increases in stocks; year-to-year variations in in-

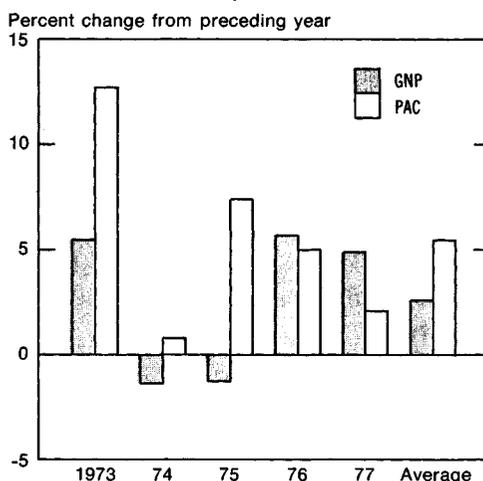
creases in operating costs were due to technological developments, variations in increases in stocks, and variations in stock use (capacity utilization). Non-durables PA spending increased in 1973 and 1974 following yearly increases in stocks of durables (motor vehicle emission controls) but was level in 1975 and

1976 and declined in 1977. The leveling and decline occurred despite increases in stocks, and was largely due to the switch from engine recalibration to catalytic converters, which had favorable effects on fuel economy and engine maintenance, as mentioned earlier.

In summary, PAC spending during 1972-77 largely reflected the air amendments and water amendments, and deadlines and grants stimulated larger increases in PAC spending during 1972-75 than in later years. Spending for PAC increased 7 percent annually during 1972-75—despite a very slight increase in 1974—but only 4 percent annually thereafter. Year-to-year variations in R. & D. and business capital PA spending were more pronounced than variations in R. & M., government enterprise fixed capital PA, and consumer spending and business operating costs for pollution abatement.

Spending for PAC compared with GNP.—The allocation of resources—e.g., to pollution abatement and control, health care, defense, energy research—is often discussed by comparing spending for that purpose with GNP, a measure of total production. Real

CHART 1
Percentage Change in Real GNP
and Real PAC Expenditures



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

79-2-1

Table 5.—Federal Grants to State and Local

(Millions)

Line		1972 ^r					1973 ^r					1974 ^r				
		Total	Air	Water	Solid waste	Other and un-allocated	Total	Air	Water	Solid waste	Other and un-allocated	Total	Air	Water	Solid waste	Other and un-allocated
1	Pollution abatement and control.....	1,026	56	924	15	31	960	49	878	13	20	2,244	53	2,174	8	10
2	Pollution abatement.....	862	(*)	858	3	(*)	818	(*)	815	2	(*)	2,114	(*)	2,112	1	
3	Regulation and monitoring.....	66	39	21	3	2	76	43	30	2	2	91	45	44	2	(*)
4	Research and development.....	99	17	44	10	28	65	6	32	9	18	39	7	18	5	9

^r Revised. ^p Preliminary.
* Less than 500,000.

Table 6.—Federal Grants to State and Local Governments

(Millions)

Line		1972 ^r					1973 ^r					1974 ^r				
		Total	Air	Water	Solid waste	Other and un-allocated	Total	Air	Water	Solid waste	Other and un-allocated	Total	Air	Water	Solid waste	Other and un-allocated
1	Pollution abatement and control.....	1,026	56	924	15	31	892	46	815	12	19	1,906	45	1,846	7	8
2	Pollution abatement.....	862	(*)	858	3	(*)	760	(*)	757	2	(*)	1,796	(*)	1,794	1	
3	Regulation and monitoring.....	66	39	21	3	2	71	40	28	2	2	77	38	37	2	(*)
4	Research and development.....	99	17	44	10	28	61	6	31	8	17	34	6	16	4	8

^r Revised. ^p Preliminary.
* Less than 500,000.

spending for PAC as a percentage of real GNP increased from 1.6 percent in 1972 to 1.9 percent in 1975, remained the same in 1976, and decreased slightly in 1977.⁶ The increase during 1972-75 reflected the rapid growth of PAC spending during these years and the contraction of the economy in 1974 and 1975; in 1976 the percentage increases in PAC spending and GNP were about the same, and in 1977 the percentage increase in PAC was less than half that in GNP (chart 1).

PAC prices, 1972-77

The PAC implicit price deflator (IPD), which is calculated by dividing

6. PAC spending as defined in this article is for the protection of air and water and the proper disposal of solid waste in the United States, and it has been argued that a comparison of PAC spending with gross domestic product (GDP)—a measure of production attributable to resources located in the U.S.—is preferable to a comparison with GNP. There are other refinements as well. Important among them is that business PA current account purchases of labor and materials and services could be added to U.S. production in real terms before PAC spending is compared with it. It has been argued that this addition should be made because these purchases represent the costs of providing services to the public that are not included in U.S. production. Nonetheless, the practice of comparing PAC spending with GNP is continued here because of its convenience and because the statistical results, in this instance, do not differ significantly from those obtained using other measures for comparison.

current-dollar PAC expenditures by constant-dollar expenditures, increased 9 percent annually during 1972-77 (see Concepts and Methods section). The PAC IPD and most components of it increased moderately (5 to 8 percent for the components) in 1973; the increases accelerated sharply in 1974, decelerated in 1975 and further in 1976 to rates

similar to those in 1973, and were a little larger in 1977 (table 7). The sharpest accelerations in 1974 occurred for composites of goods and services that include energy with a heavy weight (e.g., consumer nondurables, which is largely gasoline, and business operating costs, which include gasoline, coal, oil, natural gas, and electric power) and

Table 7.—Implicit Price Deflator for Pollution Abatement and Control Expenditures
[Percent change from preceding year]

Line		1973	1974	1975	1976	1977
1	Pollution abatement and control.....	6	16	9	6	7
2	Pollution abatement.....	6	16	9	6	7
3	Personal consumption.....	5	20	7	5	5
4	Durable goods.....	0	6	9	6	5
5	Nondurable goods and services.....	7	25	11	6	7
6	Business.....	6	19	11	6	7
7	On capital account.....	5	14	11	6	6
8	On current account.....	7	23	12	6	8
9	Private.....	8	24	11	6	7
10	Government enterprise.....	6	19	14	7	7
11	Cost recovered.....	15	22	9	5	6
12	Government.....	7	11	6	6	7
13	Federal.....	7	12	8	8	9
14	State and local.....	8	13	7	4	6
15	Government enterprise fixed capital.....	7	10	6	7	7
16	Regulation and monitoring.....	7	8	9	6	7
17	Federal.....	7	6	8	6	6
18	State and local.....	7	10	9	7	7
19	Research and development.....	6	11	11	7	7
20	Private.....	7	11	11	7	7
21	Federal.....	6	10	11	6	7
22	State and local.....	5	9	8	4	7

Governments for Pollution Abatement and Control

[of dollars]

1975 ^r					1976 ^r					1977 ^p					Line
Total	Air	Water	Solid waste	Other and un-allocated	Total	Air	Water	Solid waste	Other and un-allocated	Total	Air	Water	Solid waste	Other and un-allocated	
2,875	56	2,793	11	15	3,387	55	3,298	11	23	4,055	62	3,950	15	28	1
2,726	1	2,722	3	1	3,191	1	3,185	4	2	3,810	1	3,804	6	2	2
102	47	52	3	(*)	151	48	96	3	4	194	55	129	6	5	3
47	8	19	6	14	45	6	18	4	17	51	6	18	4	23	4

for Pollution Abatement and Control in Constant (1972) Dollars

[of dollars]

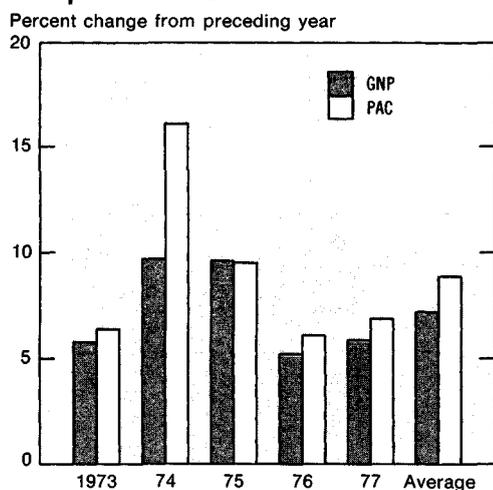
1975 ^r					1976 ^r					1977 ^p					Line
Total	Air	Water	Solid waste	Other and un-allocated	Total	Air	Water	Solid waste	Other and un-allocated	Total	Air	Water	Solid waste	Other and un-allocated	
2,309	44	2,244	9	12	2,546	40	2,481	8	17	2,843	43	2,771	10	20	1
2,192	(*)	2,189	2	1	2,402	1	2,398	3	1	2,675	(*)	2,671	4	2	2
79	37	40	2	(*)	109	35	69	2	3	131	37	87	4	3	3
38	6	15	5	11	34	5	14	3	13	37	5	13	3	17	4

largely reflected the post-embargo energy price surge.

PAC prices as measured by a preliminary, fixed-weighted price index also increased 9 percent annually during 1972-77. That both measures of PAC prices showed the same average increase indicates that, in their effect on the IPD, compositional shifts were offsetting among items the prices of which had increased at different rates since the 1972 valuation period.

Components of the PAC IPD for air, water, and solid waste increased 10, 9, and 8 percent annually, reflecting similar rates for PA IPD components by media (see accompanying tabulation). The consumer durables PA IPD increased more slowly than other components; emission controls on new motor vehicles were expensive—especially those introduced for the 1975 model year—but price change after introduction was moderate. The consumer nondurables PA IPD and the business operating costs PA IPD components for air and water increased 11, 14, and 11 percent, respectively. These increases were relatively large primarily due to the effect of increases in prices of energy used for air pollution abatement, especially in electric power generation and motor vehicles, and the operation of water pollution abatement facilities.

CHART 2
Percentage Changes in GNP and PAC
Implicit Price Deflators



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

79-22

[Average annual percent change, 1972-77]

	Air	Water	Solid waste
Consumer PA IPD.....	8		
Durables IPD.....	5		
Nondurables IPD.....	11		
Business PA IPD.....	11	10	8
Capital expenditures IPD.....	8	9	8
Operating costs IPD.....	14	11	7
Government PA IPD.....	10	7	7

The average annual increase in the PAC IPD was larger than that in the GNP IPD during 1972-77 (chart 2). The larger increase in the PAC IPD primarily reflected the larger weight of prices of energy. The difference in weights is most apparent in 1974.

The prospect for real PAC spending, 1978-80

Analysis of tendencies in the 6-year PAC series and a review of regulatory deadlines indicate—setting aside the possibility of a recession—continued increases in total real PAC spending, with increases in 1978 and 1979 between 2 and 5 percent and a larger increase in 1980. Prospects for the large components of PAC spending will be discussed below.

Business operating costs, which was the largest single component of PAC spending in 1977, are likely to grow during 1978-80 following increases in the stock of business PA capital. Prospects for increases during 1978-80 in business capital PA spending, which until 1975 had been the largest component, are unclear. New plant and equipment PA spending, which has accounted for most business capital PA spending, will continue to be largely for additions to the PA capital stock rather than replacements. Accordingly, even without increasing, this spending will contribute significantly to the meeting of the next major regulatory deadlines in 1982 for air PA and 1984 for water PA. Increases in spending will be required at some point but the deadlines are not close enough to require that the increases occur during 1978-80.

Government enterprise fixed capital PA spending is expected to continue at a high level, but probably will not in-

crease rapidly and may decrease, as in 1977. Federal funding for secondary sewage treatment facilities will continue, and many municipalities have yet to install such facilities. However, high levels of spending may not be sustained even with large grants. Urgently needed projects are complete or are near completion, and interest is growing in alternative sewage treatment approaches, some of which may be more appropriate for small municipalities than secondary treatment facilities.

Finally, consumer PA spending probably will not continue the rapid growth registered during 1972-77. Spending per motor vehicle for improved emission controls will not increase significantly until 1980, when further reductions in emissions are required. Except in 1980, durables PA spending will increase mainly because the number of vehicles sold increases. Nondurables PA spending is likely to decrease as in 1977 and for the same reasons.

Concepts and Methods

The constant-dollar PAC series is derived from a detailed breakdown of current-dollar estimates and newly developed price indexes corresponding to the detailed breakdown. The price indexes are based on indexes prepared by the Bureau of Labor Statistics (BLS) and others, and will be referred to as price ratios. Each price ratio has a current-year price in the numerator and a base-year (1972) price in the denominator, and each applies as closely as possible to a particular type of PAC good or service. Price ratios for labor services are approximations because they are based on changes in average wage rates or similar data that may not meet the requirement that the service the price of which is being traced is adequately specified. Some price ratios for goods are based primarily on prices of inputs to the goods, and accordingly they are cost not price ratios; an attempt is made to more closely approximate price ratios by adjusting (when possible) the cost ratios for changes in profit margins or productivity of labor and materials inputs.

(Continued on page 72)

Federal Fiscal Programs

A restrained fiscal policy is the key element in the administration's anti-inflation program. As outlined in the budget for fiscal year 1980 and the *Economic Report of the President*, the intent of the policy is to slow the economy to, or somewhat below, its long-term potential rate of growth by reducing the deficit and the growth in Federal outlays. Slower economic growth and compliance with the voluntary wage and price standards, which are also part of the program, are expected to gradually ease inflationary pressures without sharp increases in unemployment and large losses in output.

The administration believes that the expansion from the 1974-75 recession has been sufficiently powerful and prolonged to draw idle labor and capital resources down to small margins and to generate inflationary strains in some markets. In order to avoid excess demand, which would result in accelerating inflation, the administration believes that a shift toward restraint in fiscal policy is essential to ease the transition to slower but sustainable rates of growth.

Consequently, the budget for 1980 provides no increase in real spending for domestic programs, a small increase in real spending for defense, and restraint in or deferrals of new spending tax reduction initiatives.

The only major policy initiative is the real wage insurance proposal, which is being made to improve acceptance of the final voluntary wage and price standards announced in late December.

NOTE.—Hermoine A. Anglin, Walter H. Bennett, David T. Dobbs, Kathleen M. Downs, Cynthia M. Lewin, Donald L. Peters, Deloris T. Tolson, and John N. Wells assisted in the preparation of this article.

The standards basically call for limiting cumulative price increases over the next year to 0.5 percentage point less than the average increases of 1976-77 and holding wage and fringe benefit increases to 7 percent. Under the real wage insurance proposal—discussed in detail later in this article—Federal payments would be made to employee groups that meet the wage standard if consumer prices increase more than 7 percent during 1979.

Economic assumptions

In calendar year 1978, the economy maintained substantial momentum in its fourth year of expansion from the 1974-75 recession. Although the increase of real GNP slowed from the brisk pace of the earlier stages of expansion, the gain in 1978 continued to exceed the long-term growth in potential output. The progress of the past year considerably diminished the margin of unused resources in the economy. Capacity utilization rates rose and although they remained below the peaks of earlier upswings, there were some areas of tightness. While the unemployment rate was still high by historical standards, there was growing evidence of tightness in labor markets, and firms were finding it increasingly difficult to hire workers with needed skills. Total employment increased 3.8 million, substantially more than in calendar 1977, and the overall unemployment rate declined a full percentage point to 6 percent despite continued rapid growth of the labor force.

Simultaneous with the growing resource constraints in 1978 was an acceleration in the rate of inflation. The Consumer Price Index rose by 7.6 percent in 1978, compared with 6.5 percent in 1977, and the GNP deflator

rose 7.4 percent, compared with 5.9 percent. Unit labor costs played the major role in accelerating price pressures throughout the economy. Compensation per hour increased almost 9½ percent in 1978 compared with 8 percent in 1977. With productivity increasing less than 1 percent last year, unit labor costs rose about 9 percent, compared with 7 percent in 1977.

According to the Council of Economic Advisers (CEA), these factors—a steadily diminished base of unused resources and accelerating prices—brought the economy to a stage where fiscal policy must switch from efforts to stimulate growth in economic activity to measures that restrain inflation.

It was in this context that the administration formulated the economic assumptions underlying the 1980 budget (table 1). From the fourth quarter of 1978 to the fourth quarter of 1979, real GNP is expected to increase about 2.2 percent; over the following four quarters, it increases 3.2 percent. The GNP deflator increases 7.4 percent and 6.4 percent, respectively, over the two periods. With continued strong growth in the labor force, the unemployment rate increases to 6.2 percent by the fourth quarter of 1979 and remains at that level in 1980.

The CEA forecasts stronger real growth in the first half of calendar 1979 than in the second. The economy entered 1979 with substantial momentum and the tax cuts effective in January are expected to sustain consumer spending during the first half. Consumer spending increases more slowly in the second half as the effect of the tax cut diminishes and the personal savings rate increases slightly. Partly as a response to current high interest rates, residential investment is forecast to decline and

the increase in business fixed investment to slow during the year.

Economic growth picks up in 1980; a principal reason is an upturn in residential investment. Housing starts are expected to bottom out during the fourth quarter of 1979, and begin to increase in 1980 as pressures ease in financial markets with the expected decline in the rate of inflation. As inflation slows during 1979, consumer confidence should improve and strengthen consumer spending in 1980. Moderate improvement from the rate of increase in the second half of 1979 is expected in business fixed investment.

Table I.—Economic Assumptions Underlying the Fiscal Year 1980 Budget

	Calendar year			
	Actual		Estimates	
	1977	1978	1979	1980
	Billions of dollars			
Gross national product:				
Current dollars.....	1,887	2,106	2,343	2,565
1972 dollars.....	1,333	1,384	1,430	1,466
Incomes:				
Personal income.....	1,529	1,707	1,894	2,078
Wages and salaries.....	984	1,101	1,217	1,335
Corporate profits before taxes.....	174	202	227	237
	Percent change from preceding year			
GNP in current dollars:				
Annual average.....	11.0	11.6	11.3	9.5
Fourth quarter.....	11.9	12.7	9.8	9.8
GNP in 1972 dollars:				
Annual average.....	4.9	3.9	3.3	2.5
Fourth quarter.....	5.5	4.0	2.2	3.2
GNP deflator:				
Annual average.....	5.9	7.4	7.7	6.8
Fourth quarter.....	6.1	8.4	7.4	6.4
Consumer price index:				
Annual average.....	6.5	7.6	8.2	6.7
December.....	6.8	9.2	7.4	6.3
	Percent			
Unemployment rate:				
Annual average.....	7.0	6.0	6.0	6.2
Fourth quarter.....	6.6	5.8	6.2	6.2
Insured unemployment rate:¹				
Annual average.....	3.9	3.3	3.1	3.2
Fourth quarter.....	3.4	2.7	2.8	2.8
Interest rate, 91-day Treasury bills:²	5.3	7.2	8.8	7.6

1. Insured unemployment under the State regular unemployment insurance program, excluding recipients of extended benefits as percentage of covered employment under that program.

2. Average rate on new issues within the year.

Source: "The Budget of the United States Government, 1980."

Unified Budget

The unified budget deficit decreases from \$37.4 billion in 1979 to \$29 billion in 1980 (chart 3).

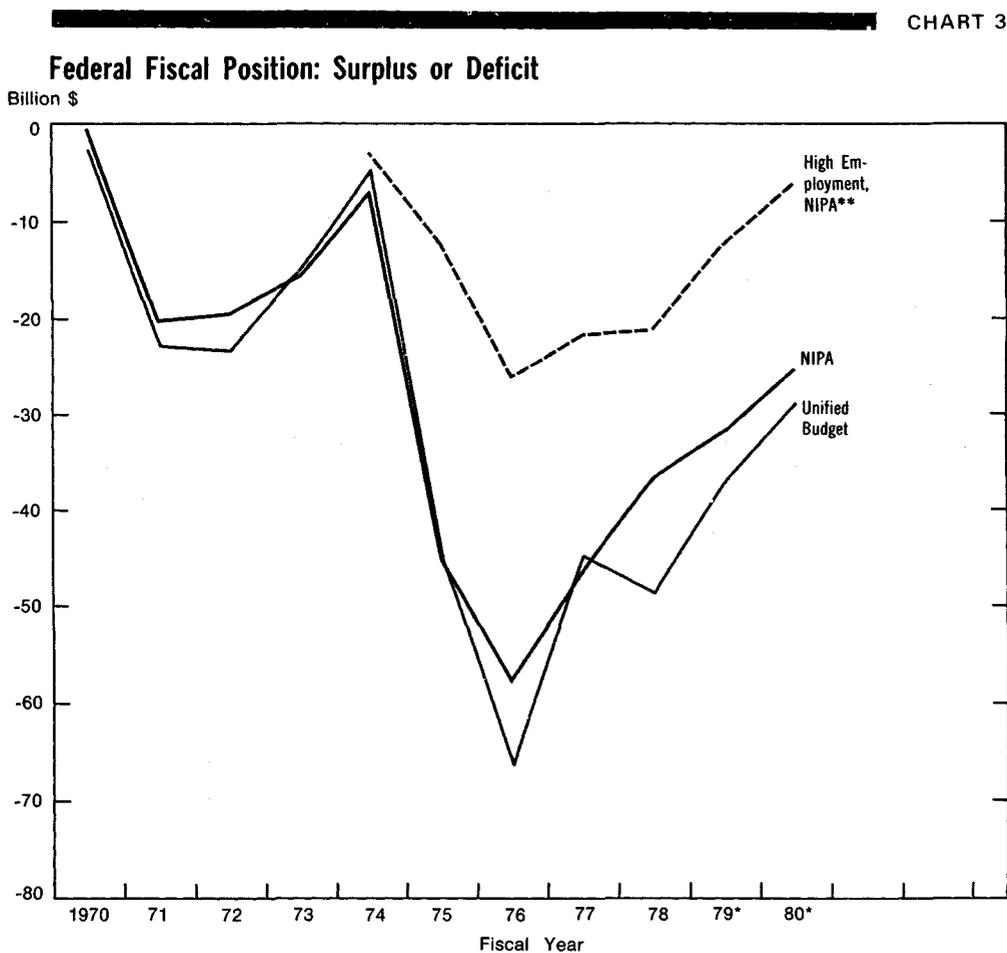
Receipts increase \$47 billion—or over 10 percent—in 1980, to \$502.6 billion (table 2). Receipts in 1979 are \$456 billion, up 13 percent from 1978. The largest percentage increases in 1980 are in social insurance taxes and contributions (14 percent) and, despite reductions, individual income taxes (12 percent). Corporation income taxes continue to increase despite lower tax rates and a smaller increase in profits.

Outlays increase \$38 billion—or nearly 8 percent—in 1980, to \$531.6 billion. Outlays in 1979 are \$493.4 billion, up over 9 percent from 1978. About 30 percent of the 1980 increase—\$11 billion—is for national defense programs. Nondefense programs increase \$27 billion, compared with \$33 billion in 1979. Nearly three-fourths of the 1980

nondefense increase is for income security; among other programs, the only large increases are for health, net interest, and international affairs. Nearly all of the remaining programs increase only fractionally or decline. Outlays for energy are down \$0.7 billion, or almost 10 percent, after increasing nearly 50 percent in 1979. Outlays for agriculture and for community and regional development decline markedly.

Budget estimates of outlays have been overestimated substantially in recent years. However, according to a recent study by the Congressional Budget Office, "the outlay shortfall problem is not expected to continue in fiscal year 1979 and beyond."¹ Table 3 compares budget estimates with actual outlays for fiscal years 1976–78 and the initial budget estimate with the revised budget estimate for fiscal year 1979.

1. *An Analysis of the President's Budgetary Proposals for Fiscal Year 1980.* Staff working paper, January 1979.



*Estimates from Office of Management and Budget, Council of Economic Advisers, and Bureau of Economic Analysis.

**Not available before fiscal year 1974.

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

In constant (fiscal year 1972) dollars, total outlays increase less than 1 percent in 1980, according to the budget. Defense outlays increase 3 percent and nondefense outlays are flat (chart 4).

Long-range budget outlook

The budget includes projected receipts and outlays extending 4 years beyond 1980. In previous budgets, the long-range projections were extrapolations. This year, however, outlay projections for 1981 and 1982 have received explicit policy review and represent tentative administration plans for scheduling of major new initiatives and program reductions or terminations. Outlays increase 9 percent in 1981 and 6½ percent in 1982. The receipt projections include no new tax changes; receipts increase 15 percent in 1981 and 13 percent in 1982. The budget is projected to be in approximate balance in 1981 and swing to surplus in 1982. Projections for 1983 and 1984 continue to be extrapolations: outlays increase 5 percent in 1983 and 4 percent in 1984, receipts increase 10 percent and 9 percent, and the surplus increases substantially.

Current services estimates

Current services estimates show what receipts and outlays would be without policy changes. The level of outlays shown are those needed to maintain on-going Federal programs and ac-

Table 3.—Unified Budget Outlays: A Comparison of Budget Estimates and "Actuals"

[Billions of dollars]

Fiscal year	Initial budget estimate	Revised budget estimate	Actual	Actual less	
				Initial budget estimate	Revised budget estimate
1976.....	349.4	373.5	365.6	16.2	-7.9
1977.....	394.2	417.4	402.8	8.6	-14.6
1978.....	459.4	463.2	450.8	-8.6	-12.4
1979.....	501.1	493.4	.....	.....	.....

NOTE.—Initial budget estimates refer to those published in the January budget nine months prior to the beginning of the fiscal year. Revised budget estimates refer to those published in the budget one year later. Data have been adjusted for consistent treatment of earned income credit.

Source: "The Budget of the United States Government."

tivities at levels of the preceding year. Current services estimates are neither recommended amounts nor forecasts, but rather are a base with which administration or congressional proposals can be compared.

Despite recognition that continuation of current services outlays and tax rates would have somewhat different economic effects than the budget estimates, the current services estimates are based on the same economic as-

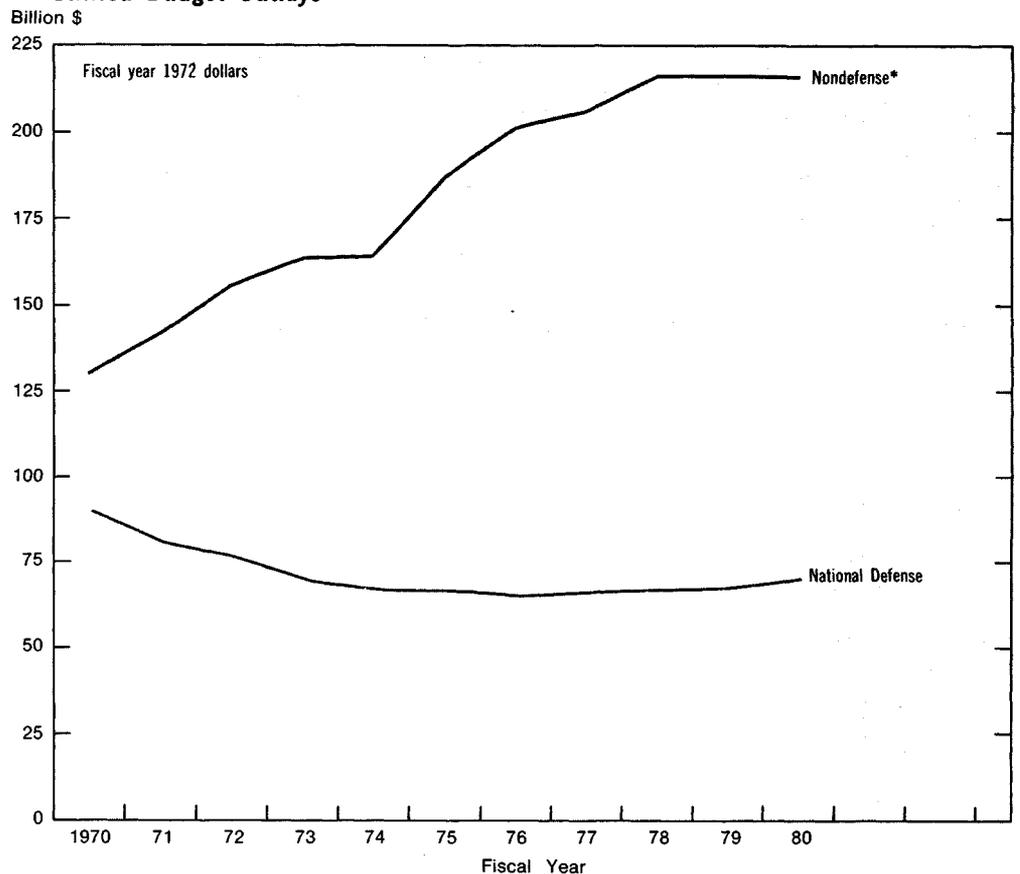
Table 2.—Federal Government Receipts and Expenditures

[Billions of dollars]

	Fiscal year		
	Act-ual 1978	Estimates	
		1979	1980
Unified budget			
Receipts.....	402.0	456.0	502.6
Outlays.....	450.8	493.4	531.6
Surplus or deficit (-).....	-48.8	-37.4	-29.0
National income and product accounts			
Receipts.....	413.8	464.3	514.6
Expenditures.....	450.6	496.3	540.0
Surplus or deficit (-).....	-36.8	-32.0	-25.4
High-employment surplus or deficit (-).....	-21.1	-12.5	-6.1

Sources: "The Budget of the United States Government, 1980", Council of Economic Advisors, and the Bureau of Economic Analysis.

Unified Budget Outlays



*Nondefense outlays include payments to individuals, net interest, and all other outlays.

Source: "Budget of the United States Government, 1980."

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

assumptions. Use of different economic assumptions would make it difficult to separate the effects of policy differences from the effect of differences in those assumptions.

Unified budget receipts in 1980 are \$1.9 billion lower than current services receipts, primarily because the real wage insurance proposal reduces individual income taxes (table 4). Unified budget outlays are \$4.6 billion lower than current services outlays, because proposed reductions (\$11.6 billion) exceed proposed increases (\$7 billion). About one-third of the reductions—such as hospital cost containment—require substantive legislation reducing authorized program levels; the remainder—such as limits on Federal pay raises—does not. Defense programs, excluding pay raises, account for over \$2 billion of the proposed increases.

The \$4.6 billion net reduction in outlays from current services levels is understated, because outlays under the conventional current services concept exclude the effect of inflation except where program benefits are tied to the cost-of-living or where, as the budget states, "there is a clear intent to cover full costs of future inflation." The net reduction is \$12.6 billion if total outlays are fully adjusted for inflation.

Table 4.—Relation of Current Services Estimate With Unified Budget

	Fiscal year	
	1979	1980
[Billions of dollars]		
Receipts		
Current services estimate.....	456.0	504.5
Plus: Real wage insurance proposal.....		-2.3
Other.....		.3
Equals: Unified budget.....	456.0	502.6
Outlays		
Current services estimate.....	491.3	536.1
Plus: Proposed program increases:		
National defense (excluding pay).....	.8	2.2
Other.....	1.7	4.8
Proposed program reductions:		
Requiring substantive legislation		
Hospital cost containment.....	- .5	-1.7
Other.....		-2.1
Not requiring substantive legis-		
lation		
Federal pay.....		-3.0
Other.....		-4.7
Equals: Unified budget.....	493.4	531.6

Source: "The Budget of the United States Government, 1980."

Federal Sector of the NIPA's

Receipts on the national income and product accounting (NIPA) basis increase \$50.3 billion in (1980—\$3.7 billion more than unified budget receipts. The larger increase is more than explained by netting differences; all other differences, taken together, work in the other direction (table 5). Netting differences, which add to NIPA receipts relative to unified budget receipts, increase \$4 billion in 1980. They consist of Federal employer contributions to government employee retirement funds, which are excluded from the budget as intragovernmental transactions, but include in NIPA receipts and expenditures; items recorded as negative outlays in the unified budget but as NIPA receipts; and items recorded as negative receipts in the unified budget but as NIPA expenditures. An example of the last type of item is payments to individuals under the proposed real wage insurance program; these payments are largely recorded as income tax refunds in the unified budget and as transfer payments in the NIPA's. In 1980, the "other" netting differences shown in tables 5 and 6 include \$3.1 billion for the real wage insurance proposal.

As noted, other differences, taken together, partly offset the effect of netting differences. One of these differences relates to timing. In NIPA receipts, taxes paid by corporations are recorded on a liability basis and taxes paid by individuals (including proprietors) on a "when paid" basis; the unified budget records all receipts on a cash collections basis, i.e., largely when Federal Reserve banks inform the Treasury of deposits in Federal tax and loan accounts. Collections exceed liabilities and payments by \$1.9 billion in 1979 and \$2.1 billion in 1980. The excess of collections in 1979 is largely due to the Revenue Act of 1978, generally effective January 1, 1979, which reduces liabilities and payments more rapidly than collections. The excess of collections in 1980 reflects accelerated deposits of social security taxes by State and local governments. At the present time, these governments collect social security taxes from their employees on

a current basis, usually biweekly, but make quarterly deposits to the Treasury 45 days after the end of the quarter. Under the revised system, announced in November 1978 and effective in July 1980, deposits by States and localities will be made more quickly, adding \$2.2 billion to unified budget receipts in fiscal 1980, but having no effect on the NIPA's. (The budget also makes several other proposals effective in 1981 and 1982 requiring taxpayers to make income tax payments closer to the time tax liabilities occur and to require employers to deposit taxes withheld from employees on a more timely basis.)

Expenditures on the NIPA basis increase \$43.7 billion in 1980—\$5.5 billion more than unified budget outlays (table 6). The larger increase is mainly due to the netting differences—\$4 billion—discussed earlier. The net result of two other factors accounts for \$1.6 billion of the larger NIPA increase. (1) Net lending, which is excluded from the NIPA's but included in the unified budget, declines \$2.7 billion. (2) Sales of Outer Continental Shelf Oil leases, which are deducted from outlays in the budget but excluded from the NIPA's because they are transfers of assets, decline \$1.1 billion.

Table 5.—Relation of Federal Government Receipts in the National Income and Product Accounts to Unified Budget Receipts

	Fiscal year		
	1978	1979	1980
[Billions of dollars]			
Unified budget receipts.....	402.0	456.0	502.6
Less: Coverage differences.....	.8	.9	1.3
Financial transactions.....			
Plus: Netting differences:			
Contributions to govern-			
ment employees			
retirement funds.....	7.1	7.9	8.3
Other.....	3.0	3.5	7.1
Timing differences:			
Corporate income tax.....	.8	- .8	-1.2
Federal and State un-			
employment insur-			
ance taxes.....	.5		- .2
Withheld personal in-			
come tax and social			
security contribu-			
tions.....	1.5	-1.1	- .7
Excise taxes.....			
Other.....			
Miscellaneous.....	- .3	- .3	
Equals: Federal Government			
receipts, NIPA.....	413.8	464.3	514.6

Coverage differences and timing differences are also included in the reconciliation, but, taken together, do not lead to major differences between increases in unified budget outlays and NIPA expenditures from 1979 to 1980. Coverage differences arise largely because the net expenditures of some agencies, such as the Federal Financing Bank and the Postal Service, are excluded from the budget but included in the Federal sector of the NIPA's. However, many of these "off-budget" agencies are engaged in financial activities excluded from the NIPA's; accordingly, in table 6 total off-budget outlays are added to unified budget outlays under "coverage differences" and the associated net lending is subtracted under "financial transactions." Timing differences principally involve national defense purchases. Defense timing differences are of two types. (1) Military sales to foreigners are deducted from budget outlays at the time of cash receipt; in the NIPA's they are deducted from government purchases at the time of export. (2) Defense goods are recorded in the budget at the time of cash outlay and in the NIPA's at the time of delivery. Other timing elements include the difference between cash outlays and deliveries under the strategic petroleum reserve program, and the difference between State withdrawals from the unemployment insurance trust fund in the budget and the payment of unemployment benefits in the NIPA's.

As a result of the changes in the reconciliation items in receipts and expenditures, the NIPA deficit does not decline as much as the unified budget deficit from 1979 to 1980—the former declines \$6.6 billion, and the latter \$8.4 billion.

Quarterly pattern

The Federal deficit on the NIPA basis peaks at \$38.8 billion (annual rate) in the fourth quarter of 1979, following several quarters in which economic activity is assumed to be sluggish, and declines thereafter as the economy improves (table 7). In the third quarter of 1980, it is \$16.9 billion, moderately below the deficit in the fourth quarter of 1978. Tax and energy

legislation enacted in 1978 and legislated social security rate and base increases have a major effect on the deficit; table 8 shows the quarterly impact of this legislation's major provisions and selected other tax changes. It should be noted that the impact on the deficit shown in this table does not allow for changes in Federal receipts that will result from the changed economic activity induced by the tax reductions or increases. However, the deficit and total receipts shown in table 7 incorporate the impact of changes in economic activity induced by the tax changes.

The quarterly pattern is estimated by BEA with the cooperation of the Office of Management and Budget, the Social Security Administration, and the Departments of Agriculture, Energy, Labor, and Treasury. Receipts reflect the pattern of proposed and enacted legislation consistent with the budget and the administration's projected quarterly pattern of wages and profits. Expenditures reflect the pattern of proposed legislation and selected other items, such as cost-of-living increases for retirees and pay raises for Federal employees.

Table 6.—Relation of Federal Government Expenditures in the National Income and Product Accounts to Unified Budget Outlays

	[Billions of dollars]		
	Fiscal year		
	1978	1979	1980
Unified budget outlays	450.8	493.4	531.6
Less: Coverage differences:			
Geographic.....	2.3	4.0	3.9
Other.....	-10.5	-12.2	-12.2
Financial transactions:			
Net lending.....	20.2	18.5	15.8
Other.....	-7	-6	-6
Net purchases of land:			
Outer Continental Shelf.....	-1.2	-2.2	-1.1
Other.....	.4	.3	.2
Plus: Netting differences:			
Contributions to government employees retirement funds.....	7.1	7.9	8.3
Other.....	3.0	3.5	7.1
Timing differences:			
National defense purchases.....	1.3	-.4	-.4
Foreign military sales.....	1.0	.6	.2
Increase in payables net of advances:			
Other.....	-.3	-1.0	-.6
Other.....	-1	-3	-6
Miscellaneous.....	0	0	0
Equals: Federal Government expenditures, NIPA	450.6	496.3	540.0

The following paragraphs list the key factors affecting receipts and expenditures, beginning with the first quarter of 1979 and ending with the third quarter of 1980. These factors are discussed in more detail in the receipts and expenditures sections of this article. All estimates are seasonally adjusted at annual rates.

First quarter 1979.—Receipts decline, reflecting tax cuts enacted late in 1978 partly offset by increases in social security taxes. Personal taxes decline, despite rising wages. Personal tax cuts are provided by three 1978 laws: the Revenue Act, the Energy Tax Act, and the Foreign Earned Income Act. Corporate taxes also decline, reflecting primarily lower tax rates provided in the Revenue Act. Indirect business taxes decline due to a reduction in the telephone excise tax under existing law. Contributions for social insurance increase over \$11 billion, reflecting mainly higher social security tax rates and a higher tax base.

Expenditures increase \$7 billion. Transfers, interest, and defense purchases increase. Nondefense purchases increase \$1½ billion, despite a sharp decrease in Commodity Credit Corporation purchases; strategic petroleum reserve purchases double. Grants decrease \$3 billion, largely reflecting the absence of retroactive payments for social services programs.

Second quarter 1979.—Receipts increase \$10 billion, reflecting increases in wages and profits; tax changes are not a factor.

Expenditures increase \$7 billion. Nondefense purchases continue to decline reflecting lower Commodity Credit Corporation spending; strategic petroleum reserve purchases level off. Grants increase because of targeted fiscal assistance; local public works continue to decline. Other categories match their first-quarter increase.

Third quarter 1979.—Receipts increase \$8 billion. Personal taxes and contributions for social insurance account for nearly all of the increase. Refunds decline from unusually high levels in the first half resulting from home insulation credits provided in the Energy Tax Act.

Table 7.—Federal Government Receipts and Expenditures, NIPA Basis

(Billions of dollars)

	Fiscal year			Calendar year												
	Actual 1978	Estimates		Actual 1978	Estimate 1979	Actual				Estimates						
		1979	1980			1978				1979				1980		
					I	II	III	IV	I	II	III	IV	I	II	III	
	Seasonally adjusted at annual rates															
Federal Government receipts	413.8	464.3	514.6	431.6	473.9	396.2	424.7	441.7	-----	460.0	469.6	478.0	488.0	509.8	522.1	532.9
Legislation enacted in 1978:																
Revenue Act.....		-13.8	-23.8		-18.0					-17.0	-17.7	-18.2	-18.8	-23.4	-24.2	-24.9
Energy Tax Act.....	-1	-1.1	-1.9	-1	-1.1	-1	-1	-1	-1	-1.4	-1.4	-1.8	-1.8	-1.9	-1.9	-1.9
Foreign Earned Income Act.....		-6	-1		-7					-7	-7	-7	-7	-2	-2	-2
Social security legislation.....	4.2	11.9	20.2	6.5	17.0	6.1	6.3	6.7	6.9	16.4	16.7	17.3	17.7	21.9	22.4	23.2
Legislation proposed:																
Tax on real wage insurance transfers.....			.8											1.6	1.6	-----
Railroad retirement tax.....			.2											.2	.2	.2
Oil pollution fee.....			.1											.2	.2	.2
Other ¹	409.7	467.9	518.1	425.2	476.7	390.2	418.5	435.1	-----	462.7	472.7	480.4	490.6	510.6	523.0	535.3
Personal tax and nontax receipts.....	186.3	206.6	237.2	193.2	209.5	176.8	186.7	199.7	209.6	201.6	206.5	211.6	218.2	233.7	240.7	246.7
Legislation enacted in 1978:																
Revenue Act.....		-9.3	-17.0		-12.0					-11.1	-11.7	-12.2	-12.8	-16.6	-17.2	-17.7
Energy Tax Act.....		-8	-5		-8					-1.1	-1.1	-1.5	-1.5	-1.5	-1.5	-1.5
Foreign Earned Income Act.....		-6	-2		-7					-7	-7	-7	-7	-2	-2	-2
Legislation proposed:																
Tax on real wage insurance transfers.....			.8											1.6	1.6	-----
Other.....	186.3	217.3	254.1	193.2	223.0	176.8	186.7	199.7	209.6	214.5	220.0	225.0	232.2	249.4	257.0	265.1
Corporate profits tax accruals.....	67.2	76.9	78.2	71.8	76.2	59.6	72.6	73.6	-----	74.6	76.2	76.8	77.1	76.8	78.7	80.3
Legislation enacted in 1978:																
Revenue Act.....		-4.5	-6.8		-6.0					-5.9	-6.0	-6.0	-6.0	-6.8	-7.0	-7.2
Energy Tax Act.....	-1	-3	-4	-1	-3	-1	-1	-1	-1	-3	-3	-3	-3	-4	-4	-4
Other.....	67.3	81.7	85.4	71.9	82.5	59.7	72.7	73.7	-----	80.8	82.5	83.1	83.4	84.0	86.1	87.9
Indirect business tax and nontax accruals.....	27.2	29.0	30.4	27.9	29.3	26.5	27.9	28.2	28.9	28.6	29.0	29.6	30.0	30.0	30.6	31.0
Legislation proposed:																
Oil pollution fee.....			.1													.2
Other.....	27.2	29.0	30.3	27.9	29.3	26.5	27.9	28.2	28.9	28.6	29.0	29.6	30.0	30.0	30.4	30.8
Contributions for social insurance.....	133.1	151.8	168.8	138.7	159.0	133.3	137.6	140.1	143.9	155.2	157.9	160.0	162.7	169.3	172.1	174.9
Social security legislation.....	4.2	11.9	20.2	6.5	17.0	6.1	6.3	6.7	6.9	16.4	16.7	17.3	17.7	21.9	22.4	23.2
Legislation proposed:																
Railroad retirement tax.....			.2											.2	.2	.2
Other.....	128.9	139.9	148.4	132.2	142.0	127.2	131.3	133.4	137.0	138.	141.2	142.7	145.0	147.2	149.5	151.5
Federal Government expenditures	450.6	496.3	540.0	461.3	507.3	448.8	448.3	464.5	483.5	490.3	497.4	514.8	526.8	538.5	544.1	549.8
Legislation proposed:																
Real wage insurance.....			3.3											6.1	7.1	-----
Social security reductions.....		-4	-2.3		-7							-1.2	-1.4	-1.9	-2.5	-3.4
Other.....		.3	.5		.4							.6	.6	.5	.4	.5
Other.....	450.6	496.4	538.5	461.3	507.6	448.8	448.3	464.5	483.5	490.3	496.8	515.4	527.6	533.8	539.1	552.7
Purchases of goods and services.....	151.1	166.0	178.2	153.7	169.0	151.5	147.2	154.0	162.3	165.7	165.2	169.4	175.8	178.0	178.9	180.0
National defense.....	98.1	105.1	115.4	99.5	107.6	97.9	98.6	99.6	102.1	104.1	106.1	108.0	112.2	114.3	116.4	118.6
Pay raises:																
October 1978.....		1.9	1.9	.5	1.9				1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
October 1979.....			2.2		.5								2.1	2.2	2.2	2.2
Other.....	98.1	103.2	111.3	99.0	105.2	97.9	98.6	99.6	100.3	102.2	104.2	106.1	108.2	110.2	112.3	114.5
Nondefense.....	53.0	60.9	62.8	54.2	61.4	53.6	48.6	54.5	60.2	61.6	59.1	61.4	63.6	63.7	62.5	61.4
Pay raises:																
October 1978.....		.8	.8	.2	.8				.8	.8	.8	.8	.8	.8	.8	.8
October 1979.....			.9		.2								.9	.9	.9	.9
Commodity Credit Corporation.....	.9	.6	.3	.3	.3	2.3	-4.5	-8	4.1	1.5	-2.8	-4	.5	.3	.2	.2
Strategic petroleum reserve.....	.6	1.7	1.3	.8	1.9	.7	.5	.9	1.0	2.1	2.1	1.4	1.9	2.2	1.1	1.1
Other.....	51.5	57.3	59.5	53.2	58.8	50.6	52.6	54.4	54.3	57.2	59.0	59.6	59.5	59.5	59.5	59.5
Transfer payments.....	181.8	200.2	227.2	185.4	206.6	180.2	180.7	188.8	191.7	196.2	200.9	212.6	216.7	226.6	231.0	234.2
To persons.....	178.4	196.6	223.3	181.9	203.0	176.9	177.0	185.5	188.1	192.6	197.3	209.0	212.9	222.7	227.1	230.2
Legislation proposed:																
Real wage insurance.....			3.3		-7									6.1	7.1	-----
Social security reductions.....		-4	-2.3		-7							-1.2	-1.4	-1.9	-2.5	-3.4
Earned income tax credit.....	.9	.8	1.5	.9	.9	.9	.9	.9	.9	.8	.7	1.0	1.0	1.7	1.7	1.4
Revenue Act of 1978.....		.1	.8		.2							.3	.3	1.0	1.0	.7
Other.....	.9	.7	.7	.9	.7	.9	.9	.9	.9	.8	.7	.7	.7	.7	.7	.7
Unemployment benefits.....	10.0	8.5	10.4	8.9	8.8	10.4	8.5	8.7	8.1	8.3	8.6	8.8	9.4	10.1	10.7	11.4
Other.....	167.5	187.7	210.4	172.1	194.0	165.6	167.6	175.9	179.1	183.5	188.0	200.4	203.9	206.7	210.1	220.8
To foreigners.....	3.4	3.6	3.9	3.5	3.7	3.3	3.7	3.4	3.6	3.6	3.6	3.6	3.8	3.9	3.9	4.0
Grants-in-aid to State and local governments.....	74.6	78.2	78.9	76.9	78.1	73.9	75.9	77.5	80.3	77.1	77.9	78.3	79.0	78.7	78.6	79.3
Legislation proposed:																
Targeted fiscal assistance.....		.3	.2		.4							.6	.6	.5	.2	.1
Urban initiative.....			.3										.1	.3	.3	.5
Public assistance financial relief.....	.2			.2	.5		.8		1.9	.3						
Social services retroactive payment.....		.5		.1					4.8	5.3	5.7	5.8	5.5	4.7	4.5	4.5
Public service employment.....	5.7	5.4	4.8	5.7	5.6	5.8	6.5	5.7	8	8	8	8	8	8	8	8
Antirecession fiscal assistance.....	1.3			.9	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Local public works.....	2.9	1.9	.3	3.3	1.4	2.6	3.7	3.8	3.0	2.1	1.5	1.0	.8	.4		
Other.....	64.5	70.1	73.3	66.3	70.6	63.9	63.7	67.2	70.6	69.4	70.1	70.9	72.1	73.1	73.7	74.3
Net interest paid.....	33.7	41.6	45.2	35.5	43.2	33.2	34.6	36.3	38.1	41.0	43.1	44.4	44.4	44.8	45.4	46.2
Subsidies less current surplus of Government enterprises.....	9.4	10.3	10.5	9.8	10.4	10.0	10.0	8.0	11.1	10.1	10.3	10.1	10.9	10.4	10.2	10.1
Agriculture:																
Commodity Credit Corporation deficit.....	.7	1.0	.9	.7	1.1	.4	1.4	.3	.6	1.0	1.3	1.1	1.0	.9	.9	.8
Subsidies.....	2.7	2.7	1.9	2.7	2.4	2.8	2.3	1.9	3.6	2.7	2.3	2.0	2.5	1.9	1.5	1.3
Other.....	6.0	6.6	7.7	6.4	6.9	6.8	6.3	5.8	6.9	6.4	6.7	7.0	7.4	7.6	7.8	8.0
Less: Wage accruals less disbursements.....								.2		-.2						
Surplus or deficit (-), NIPA¹	-36.8	-32.0	-25.4	-29.7	-33.4	-52.6	-23.6	-22.8	-----	-30.3	-27.8	-36.8	-38.8	-28.7	-22.0	-16.9

Expenditures increase \$17 billion. Defense purchases continue their steady advance; nondefense purchases reverse their two-quarter decline. Transfers increase \$12 billion largely reflecting a 9.1 percent cost-of-living increase for social security benefit recipients. Medicare transfers are limited by the proposed hospital cost containment. Earned-income credit payments increase as provided for in the Revenue Act. Interest continues up, but at a slower pace.

Fourth quarter 1979.—Receipts increase \$10 billion. Personal taxes account for \$6 billion of the increase.

Expenditures increase \$12 billion. Purchases increases increase \$6½ billion, including \$3 billion for a civilian and military pay raise. Interest levels off; subsidies increase, reflecting higher Government payments to farmers.

First quarter 1980.—Receipts increase \$22 billion. Personal taxes increase \$15 billion, largely because of higher net final settlements. Settlements increase rapidly despite cuts attributable to capital gains provisions of the Revenue Act. The major factor in the 1980 increase in settlements is the large increase assumed for 1979 incomes (including realized capital gains) not

subject to withholding. A second factor is the widening gap between withholding payments and final tax liabilities on income subject to withholding. As a result of both factors, withholdings do not keep pace with liabilities; consequently, final settlements rise rapidly. A third factor increasing settlements is taxes paid on real wage insurance transfers. Indirect business taxes are unchanged, despite a further drop in the telephone excise tax. Contributions for social insurance increase \$7 billion; about \$3½ billion is contributable to another increase in the social security tax base. The employer share of the

Table 8.—Selected Tax Changes, NIPA Basis

(Billions of dollars)

	Fiscal year		Calendar year									
	1979	1980	1979	1980	1979				1980			
					I	II	III	IV	I	II	III	IV
	Seasonally adjusted at annual rates											
Direct impact on Federal sector deficit, NIPA basis ¹	-10.8	-10.9	-10.1	-9.3	-10.1	-10.5	-9.8	-10.0	-8.4	-8.5	-10.0	-10.0
Personal tax and nontax receipts.....	-10.7	-16.8	-13.5	-17.4	-12.9	-13.5	-13.4	-14.0	-15.7	-16.3	-18.4	-18.9
Revenue Act.....	-9.3	-17.0	-12.0	-17.5	-11.1	-11.7	-12.2	-12.8	-16.6	-17.2	-17.7	-18.2
Withheld income tax.....	-7.8	-11.9	-10.5	-12.4	-9.7	-10.2	-10.7	-11.2	-11.7	-12.2	-12.6	-13.0
Rate reductions.....	-5.9	-9.2	-7.9	-9.6	-7.1	-7.6	-8.1	-8.5	-9.0	-9.5	-9.8	-10.2
Standard deduction, personal exemptions etc.....	-1.9	-2.7	-2.6	-2.8	-2.6	-2.6	-2.6	-2.7	-2.7	-2.7	-2.8	-2.8
Declarations and net settlements.....	-1.5	-5.1	-1.5	-5.1	-1.4	-1.5	-1.5	-1.6	-4.9	-5.0	-5.1	-5.2
Rate reductions.....	-1.0	-3.0	-1.0	-3.0	-0.9	-1.0	-1.0	-1.1	-2.9	-3.0	-3.0	-3.1
Capital gains.....	-4	-2.7	-4	-2.8	-4	-4	-4	-4	-2.7	-2.7	-2.8	-2.8
Repeal of gasoline tax deduction.....	.1	1.1	.1	1.1	.1	.1	.1	.1	1.1	1.1	1.1	1.1
Tax on unemployment compensation.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Other.....	-.2	-.6	-.2	-.5	-.2	-.2	-.2	-.2	-.5	-.5	-.5	-.6
Energy Tax Act.....	-.8	-.5	-.8	-.5	-1.1	-1.1	-.5	-.5	-.5	-.5	-.5	-.5
Declarations and net settlements.....	-.8	-.5	-.8	-.5	-1.1	-1.1	-.5	-.5	-.5	-.5	-.5	-.5
Residential insulation credits.....	-.6	-.4	-.6	-.4	-1.0	-1.0	-.4	-.4	-.4	-.4	-.4	-.4
Other.....	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1
Foreign Earned Income Act.....	-.6	-.2	-.7	-.2	-.7	-.7	-.7	-.7	-.2	-.2	-.2	-.2
Withheld income tax.....	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1
Declarations and net settlements.....	-.5	-.1	-.5	-.1	-.6	-.6	-.6	-.6	-.1	-.1	-.1	-.1
Retrospective cut in 1978 liabilities.....	-.4	-.4	-.4	-.4	-.5	-.5	-.5	-.5	-.1	-.1	-.1	-.1
Other.....	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1
Proposed tax on real wage insurance transfers (net settlements).....		.8		.8					1.6	1.6		
Corporate profits tax accruals.....	-4.8	-7.2	-6.3	-7.5	-6.2	-6.3	-6.3	-6.3	-7.2	-7.4	-7.6	-7.7
Revenue Act.....	-4.5	-6.8	-6.0	-7.1	-5.9	-6.0	-6.0	-6.0	-6.8	-7.0	-7.2	-7.3
Rate reductions.....	-3.7	-5.4	-5.0	-5.5	-4.9	-5.0	-5.0	-5.0	-5.2	-5.4	-5.6	-5.7
Investment tax credit.....	-.4	-.7	-.5	-.8	-.5	-.5	-.5	-.5	-.8	-.8	-.8	-.8
Jobs credit.....	-.2	-.5	-.3	-.6	-.3	-.3	-.3	-.3	-.6	-.6	-.6	-.6
Other.....	-.2	-.2	-.2	-.2	-.2	-.2	-.2	-.2	-.2	-.2	-.2	-.2
Energy Tax Act.....	-.3	-.4	-.3	-.4	-.3	-.3	-.3	-.3	-.4	-.4	-.4	-.4
Specially defined energy property.....	-.2	-.3	-.2	-.3	-.2	-.2	-.2	-.2	-.3	-.3	-.3	-.3
Other.....	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1	-.1
Indirect business tax and nontax accruals.....	-.3	-.6	-.4	-.6	-.4	-.4	-.4	-.4	-.8	-.6	-.6	-.6
Telephone tax reductions.....	-.3	-.7	-.4	-.8	-.4	-.4	-.4	-.4	-.8	-.8	-.8	-.8
Proposed oil pollution fee.....		.1		.2					.2	.2		.2
Contributions for social insurance.....	5.0	13.7	10.1	16.2	9.4	9.7	10.3	10.7	15.3	15.8	16.6	17.2
Social security ²	5.0	13.3	10.1	15.8	9.4	9.7	10.3	10.7	14.9	15.4	16.2	16.8
OASDHI employer and employee.....	4.5	12.0	9.6	14.5	9.0	9.3	9.7	10.1	13.7	14.2	14.8	15.4
Base increases:												
\$17,700 to \$22,900.....	3.3	8.6	7.9	8.8	7.5	7.7	8.0	8.3	8.5	8.7	8.9	9.1
\$22,900 to \$25,900.....		1.4		3.6					3.3	3.5	3.7	3.9
Rate increase:												
12.2% to 12.26%.....	1.2	2.0	1.7	2.1	1.5	1.6	1.7	1.8	1.9	2.0	2.2	2.4
OASDHI self-employed: base and rate increases.....	.4	1.0	.4	1.0	.4	.4	.4	.4	1.0	1.0	1.0	1.0
SMI rate increases.....	.1	.3	.1	.3			.2	.2	.2	.2	.4	.4
Railroad retirement:												
Employer tax increase.....		.2		.2					.2	.2	.2	.2
Unemployment insurance:												
Expanded coverage.....		.2		.2					.2	.2	.2	.2

1. The estimates do not allow for offsetting increases in Federal receipts resulting from higher levels of economic activity induced by the tax reductions. It is roughly estimated that over one-third of any tax reduction is ultimately recaptured. For instance, a tax reduction of \$100 ultimately results in an increase in GNP of \$150; given a marginal rate of about 23 percent, budget receipts increase \$35, or about one-third the original tax cut.

2. Excludes social security base and rate increases effective in 1978, included in "Social security legislation" shown in table 7.

railroad retirement tax is raised; increased unemployment contributions due to expanded coverage is also a factor.

Expenditures increase \$12 billion; about one-half is due to the real wage insurance transfers. Interest, grants, and nondefense purchases show little change; subsidies decline. Defense purchases and transfers other than real wage insurance continue to increase.

Second quarter 1980.—Receipts increase \$12 billion. Corporate taxes show their first substantial increase in a year. A proposed oil-spill cleanup fee raises indirect business taxes. Personal taxes and contributions for social insurance increase moderately.

Expenditures increase nearly \$6 billion. Grants are flat; local public works grants ends. Nondefense purchases decline, reflecting a \$1 billion drop in strategic petroleum reserve purchases. Defense purchases, transfers, and interest increase.

Third quarter 1980.—Receipts increase \$11 billion; strong increases in incomes are the major factor. Personal taxes increase \$6 billion, corporate taxes \$1½ billion, indirect business taxes \$½ billion, and contributions for social insurance \$3 billion.

Expenditures increase nearly \$6 billion. Transfers increase only \$3 billion; the absence of real wage insurance payments partly offset a 7.1 percent in-

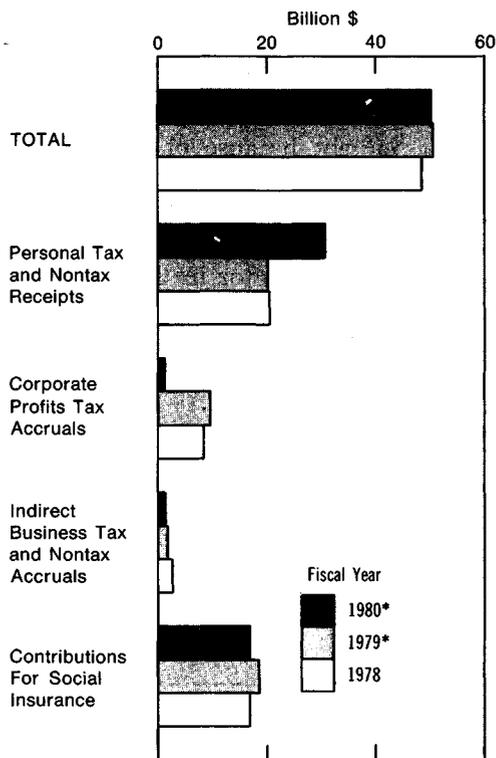
Table 9.—High-Employment Surplus or Deficit (—), NIPA Basis

[Billions of dollars, seasonally adjusted at annual rates]

	High employment surplus or deficit (—)	Change
Calendar year:		
1977.....	-24.6	-1.2
1978.....	-12.9	11.7
1979.....	-15.7	-2.8
1980.....	-6	15.1
Half-year:		
1977:		
First half.....	-12.5	12.0
Second half.....	-36.7	-24.2
1978:		
First half.....	-19.3	17.4
Second half.....	-6.7	12.6
1979:		
First half.....	-13.8	-7.1
Second half.....	-17.6	-3.8
1980:		
First half.....	-4.3	13.3
Second half.....	3.0	7.3

Source: Council of Economic Advisers.

CHART 5
Changes in Federal Government Receipts, NIPA Basis



*Estimated by BEA.

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

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crease in social security benefits. Defense purchases increase \$2 billion; interest increases \$1 billion. All other categories, on balance, are unchanged.

High-employment surplus or deficit

As measured on a high-employment basis, the deficit increases modestly in calendar 1979, following a large decline in 1978 (table 9). In 1980, it resumes its decline, moving into surplus in the second half. Thus, the course of fiscal policy began to shift toward restraint in 1978, is slightly more stimulative in 1979 as a result of the tax cuts, and moves back toward restraint in 1980.

The high-employment estimates are based on revised estimates of potential GNP calculated by the CEA. According to CEA's 1979 *Annual Report*, potential GNP grew 3 percent annually since 1973 and will continue to do so over the next 5 years. This rate is 0.5 percentage point below the estimate published in last year's *Annual Report*.

The downward revision largely reflects revised productivity figures for 1977 and the poor productivity performance last year; private nonfarm productivity increased slightly more than 1 percent in 1977 and about one-half of 1 percent in 1978, far below the 2-3 percent growth rates common in the 1950's and 1960's.

CEA divides the revised estimate of the annual growth of potential GNP in 1978-83 among the following components: 2 percent growth in potential employment, 0.5 percent decline in annual hours per employee, and 1.5 percent growth in productivity. Compared to 1973-78, growth in potential employment is 0.5 percent lower and growth in productivity is 0.5 percent higher. Thus, the new estimates of potential GNP assume productivity growth somewhat higher than in recent years, but do not assume a return to that experienced in the 1950's and 1960's.

Federal Sector Receipts

Federal receipts on the NIPA basis in 1980 are \$514.6 billion. The 1980 increase of \$50.3 billion is virtually the same as the 1979 increase (chart 5). For the first time in several years, no major tax legislation is proposed.

Higher tax bases—reflecting in part the impact of inflation—account for

Table 10.—Breakdown of Changes in Federal Receipts, NIPA Basis

[Billions of dollars]

	Change from preceding fiscal year		
	1978	1979	1980
Total receipts.....	48.5	50.5	50.3
Due to higher tax bases.....	49.3	54.2	49.2
Due to tax changes ¹	-0.8	-3.7	1.1
Personal tax and nontax receipts.....	20.4	20.3	30.6
Due to higher tax bases.....	28.6	28.7	35.9
Due to tax changes.....	-8.2	-8.4	-5.3
Corporate profits tax accruals.....	8.4	9.7	1.3
Due to higher tax bases.....	8.9	13.5	3.3
Due to tax changes.....	-0.5	-3.8	-2.0
Indirect business tax and nontax accruals.....	2.7	1.8	1.4
Due to higher tax bases.....	2.8	2.0	1.7
Due to tax changes.....	-0.1	-0.2	-0.3
Contributions for social insurance.....	17.0	18.7	17.0
Due to higher tax bases.....	9.0	10.0	8.3
Due to tax changes.....	8.0	8.7	8.7

1. Consists of all tax changes since fiscal 1977.

\$49.2 billion of the 1980 increase; the net effect of all tax changes—both enacted and from minor proposals—is to add \$1.1 billion. In 1979, higher tax bases account for \$54.2 billion; tax changes offset \$3.7 billion of this amount (table 10).²

Personal taxes

Personal tax and nontax receipts increase \$30.6 billion in 1980. The net increase consists of a \$35.9 billion increase due to higher incomes partly offset by a \$5.3 billion decrease due to tax changes, largely under the Revenue Act of 1978. The \$5.3 decrease results from a larger reduction in 1980 taxes than in 1979 taxes.

The net reduction in 1980 (\$22.7 billion) reflects provisions of the Revenue Act of 1978 (\$17.0 billion), the Energy Tax Act of 1978 (\$0.5 billion), the Foreign Earned Income Act of 1978 (\$0.2 billion), and earlier legislation, principally the Tax Reduction and Simplification Act of 1977 (\$5.8 billion) partly offset by taxes paid on the proposed real wage insurance transfers (\$0.8 billion). The reduction in 1979 (\$17.4 billion) reflects the Revenue Act (\$9.3 billion), the Energy Tax Act (\$0.8 billion), the Foreign Earned Income Act (\$0.6 billion) and earlier legislation (\$6.7 billion). Table 8 shows the impact of selected tax changes on 1979 and 1980 receipts.

The major features of the Revenue Act and the Energy Tax Act were discussed in the November 1978 SURVEY. Briefly, the Revenue Act provides rate reductions, including a substantial reduction in the tax on capital gains, and an increase in the earned income credit. The Act also repeals the nonbusiness

2. Table 10 shows the effect of all tax changes since the fourth quarter of 1976 on year-to-year changes in receipts. Tax changes since that time must be included because the fourth quarter of 1976 is in fiscal year 1977, which is used to calculate the year-to-year change for 1978. Accordingly, in addition to legislation enacted in 1978, this table incorporates changes due to earlier legislation, such as the Tax Reduction and Simplification Act of 1977 and social security base and rate increases since 1976.

Table 8, unlike table 10, excludes the impact of the tax changes effective prior to January 1979. It focuses on the quarterly impact of the 1978 legislation and 1979 and 1980 rate and base increases for social security. The quarterly impact of the Revenue Act and the Energy Tax Act differs slightly from that published in the November SURVEY OF CURRENT BUSINESS because of revised data.

gasoline tax deduction and imposes a tax on unemployment compensation paid to taxpayers with incomes above certain levels. The Energy Tax Act provides tax credits for purchase of home insulation and certain other energy-conserving items.

The Foreign Earned Income Act replaced the earlier income exclusion provision (generally \$20,000) for U.S. citizens living abroad with a cost-of-living deduction designed to reflect the amount by which overseas costs exceed those of the most expensive metropolitan areas in the continental United States.

As noted earlier, real wage insurance payments are recorded as transfer payments rather than income tax refunds in the NIPA's. However, NIPA personal taxes are increased in 1980 as a result of taxes paid on the real wage insurance payments.

Corporate profits taxes

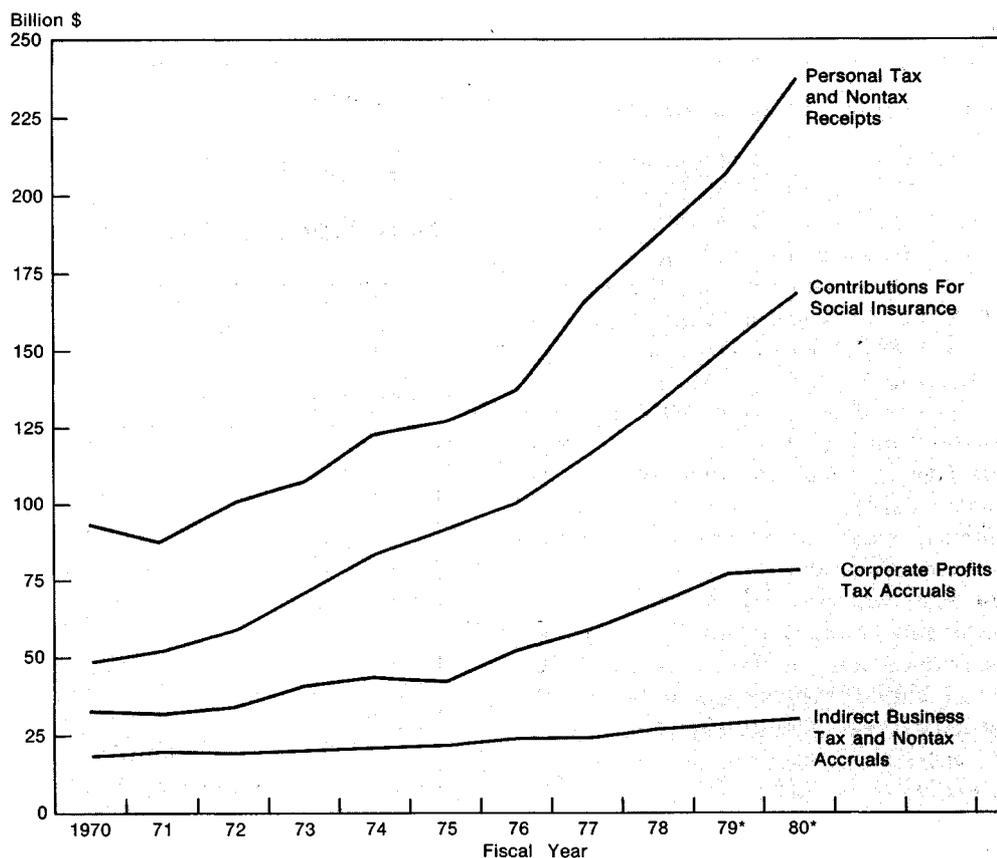
Corporate profits tax accruals increase \$1.3 billion in 1980, well below recent increases (chart 6). The net increase consists of a \$3.3 billion increase due to higher profits partially offset by a \$2 billion decrease due to tax changes. The \$2 billion decrease results from a larger reduction in 1980 taxes than in 1979 taxes.

The reduction in 1980 (\$7.4 billion) results from the Revenue Act (\$6.8 billion), the Energy Tax Act (\$0.4 billion), and earlier legislation (\$0.2 billion). The reduction in 1979 (\$5.4 billion) results from the Revenue Act (\$4.5 billion), the Energy Tax Act (\$0.3 billion), and earlier legislation (\$0.6 billion).

The Revenue Act reduces corporate tax rates and liberalizes the investment credit. The Energy Tax Act provides an extra investment credit for certain

CHART 6

Federal Government Receipts, NIPA Basis



*Estimates by BEA

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

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energy conservation or conversion investments, such as shale oil equipment or solar and wind energy investments. No legislation affecting corporate tax accruals is proposed.

Indirect business taxes

Indirect business tax and nontax accruals increase \$1.4 billion in 1980. The increase is the net result of a \$1.7 billion increase due to higher tax bases partly offset by a \$0.3 billion decrease due to tax changes.

Under current law, the telephone excise tax drops from 3 percent to 2 percent on January 1, 1980, drops one point more in 1981, and is eliminated in 1982. Partly offsetting the 1980 cut is a proposed fee of up to 3 cents per barrel of oil received at any U.S. refinery or terminal. The fee would be used to fund the cleanup of oil spills in the U.S. waterways. The effects of other tax changes are small. These changes include a proposal to extend the current air freight waybill and airline passenger ticket tax scheduled to expire June 30, 1980, and to change the current 7 cents per gallon tax on aviation fuel to an ad valorem tax of 10 percent.

Contributions for social insurance

Contributions for social insurance increase \$17 billion in 1980. Tax increases—primarily base and rate increases for social security—account for \$8.7 billion of the increase; higher employment and wages account for the remaining \$8.3 billion. There is a larger increase in 1980 than in 1979.

The increase in 1980 (\$26.5 billion) results from higher social security taxes effective in 1979 and 1980 (\$13.3 billion), railroad retirement taxes (\$0.2 billion), expanded coverage for unemployment insurance taxes (\$0.2 billion), and increases in social security and unemployment taxes effective in earlier years (\$8.9 billion). The increase in 1979 (\$17.8 billion) results from higher social security taxes effective in 1979 (\$5.0 billion) and increases in taxes effective in earlier years (\$12.8 billion).

The increase in social security taxes reflects rate and taxable wage base increases for the old age, survivors, disability and hospital insurance (OASDHI) program paid by employers,

employees; and the self-employed as well as higher supplementary medical insurance (SMI) premiums paid by medicare beneficiaries. The OASDHI tax base for employers and employees was raised from \$17,700 to \$22,900 January 1, 1979 and is raised to \$25,900 January 1, 1980. The combined tax rate was raised from 12.1 percent to 12.26 percent January 1, 1979. As shown in chart 7, the social security taxable wage base, which increased only twice between 1960 and 1970, has increased every year since 1971; the 1979 and 1980 increases are particularly large.

Increases in the social security tax base have their most pronounced effect on actual receipts in the second half of the calendar year in which they occur, because the additional amounts in the tax base are generally earned later in the year. However, to seasonally adjust NIPA receipts, the effective tax rate for the whole year is applied to each quarter. Hence, the step-up appears in the first quarter of the year in which the tax base is increased. Thus, the January 1979 base increase raised contributions about \$7½ billion (annual rate) in the first quarter of 1979, and the January 1980 base increase raises con-

tributions about \$3½ billion in the first quarter of 1980.

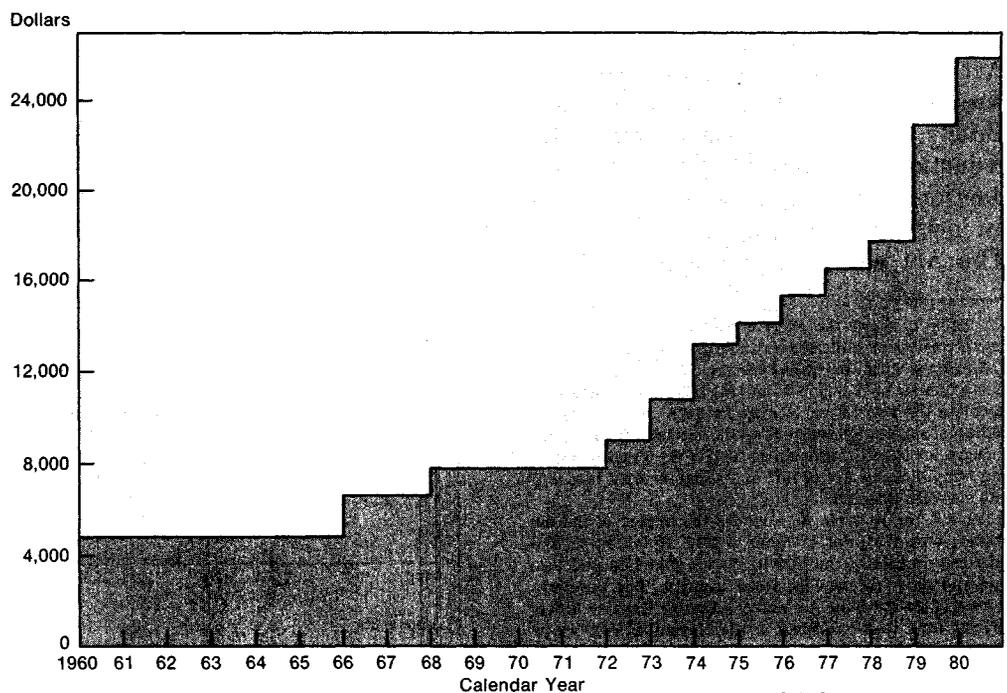
The additional unemployment insurance taxes reflect legislation expanding coverage. Beginning January 1, 1980, contributions will be paid on behalf of the newly covered workers, largely State and local government employees.

Legislation is proposed to increase railroad retirement payroll taxes effective January 1, 1980. The largest part of the increase results from elimination of the taxable earnings maximum (now \$1,700 per month) on the employer share of the tax.

Federal Sector Expenditures

Federal expenditures in the NIPA's in 1980 are \$540 billion. The 1980 increase of \$43.7 billion compares with an increase of \$45.7 billion in 1979 (chart 8). Increases in transfer payments to persons (\$26.7 billion) and national defense purchases (\$10.3 billion) account for 85 percent of the 1980 increase (table 7). Smaller increases are in net interest paid (\$3.6 billion), non-defense purchases (\$1.9 billion), and grants-in-aid to State and local governments (\$0.7 billion).

CHART 7
Social Security Taxable Wage Base



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

Data: Social Security Administration 79-27

Table 11 highlights the major factors that contribute to recent changes in Federal expenditures. Social security benefits and military and civilian pensions contribute \$18.4 billion; net interest paid contributes \$3.6 billion, real wage insurance payments \$3.3 billion, pay raises \$3.1 billion, unemployment benefits and the earned-income credit \$2.6 billion, and housing subsidies \$0.8 billion. Partly offsetting these increases are declines in grants for local public works and public service employment and in subsidies for agricultural programs. Of the \$15.7 billion increase in "all other expenditures," nondefense expenditures are up \$7.6 billion, much less than in 1979, and defense expenditures are up \$8.1 billion, substantially more than in 1979.

National defense purchases

National defense purchases increase \$10.3 billion in 1980, compared with \$7 billion in 1979 (table 7). The 1980 increase is directed primarily at improving strategic forces and bolstering the strength of NATO forces in Europe.

Procurement of military hard goods increases over \$3 billion in 1980. Increases are for a number of major weapon systems, including the cruise missile and the F-16 fighter aircraft, and for weapons—such as tanks and helicopters—to strengthen conventional forces. Procurement of the eighth Trident submarine, a new aircraft carrier, and additional Trident I missiles is also scheduled for 1980. Current plans call for building 67 ships in the next 5 years, compared with 70 that were planned last year for the same period.

Operation and maintenance outlays increase \$2.8 billion in 1980, with emphasis on unit training and large-scale exercises to increase the combat capability and readiness of the Armed Forces. Other increases are for the October 1979 military and civilian pay raise (\$2.2 billion), and for research and development (\$1.3 billion)—primarily for full-scale development (the last stage before production) of the M-X intercontinental ballistic missile, the Trident II missile, and for weapons needed in Europe. Table 12 shows the detail of unified budget defense outlays and a

Table 11.—Breakdown of Changes in Federal Expenditures, NIPA Basis

	Change from preceding fiscal year		
	1978	1979	1980
Total expenditures	38.6	45.7	43.7
Purchases of goods and services:			
Pay raises.....	3.3	2.7	3.1
Strategic petroleum reserve.....	.6	1.1	-.4
Commodity Credit Corporation.....	-1.7	-.3	-.3
Transfer payments to persons:			
Social security.....	11.6	13.7	15.5
Military and civilian pensions.....	2.3	2.6	2.9
Real wage insurance.....			3.3
Earned income credit.....	0	-.1	.7
Unemployment benefits.....	-3.3	-1.5	1.9
Grants-in-aid to State and local governments:			
Public service employment.....	2.8	-.3	-.6
Local public works.....	2.4	-1.0	-1.6
Public assistance.....	1.3	1.9	.1
Targeted fiscal assistance.....		.3	-1.1
Antirecession fiscal assistance.....	-.4	-1.3	0
Net interest paid	5.3	7.9	3.6
Subsidies less current surplus of Government enterprises:			
Agricultural subsidies.....	1.8	0	-.8
Commodity Credit Corporation deficit.....	.5	.3	-.1
Housing subsidies.....	.5	.6	.8
All other expenditures¹	11.6	19.1	15.7
National defense.....	3.5	5.1	8.1
Nondefense.....	8.1	14.0	7.6

1. Includes purchases of goods and services, transfer payments, grants-in-aid and subsidies less the current surplus of government enterprises.

reconciliation with defense purchases on the NIPA basis.

Nondefense purchases

Nondefense purchases increase \$1.9 billion in 1980, compared with \$7.9 billion in 1979. The large deceleration is due to the administration's effort to limit increases in civilian spending and a decline in purchases for the strategic petroleum reserve following a large increase in 1979. Purchases by the Commodity Credit Corporation (chart 9) and changes in Federal pay are not factors in the deceleration.

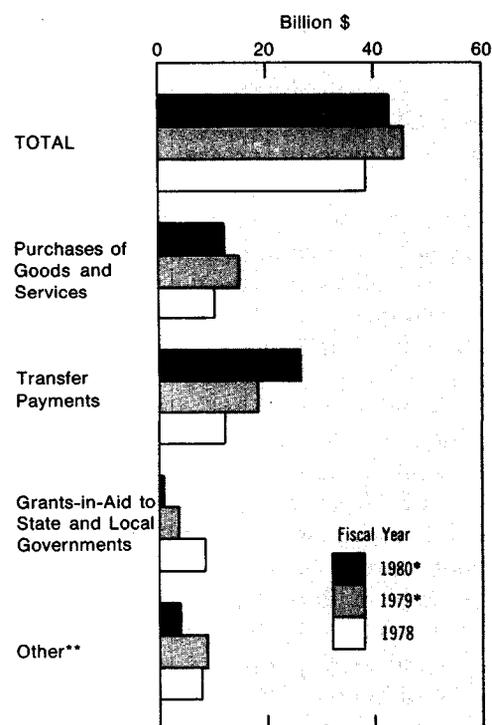
Transfer payments

Transfer payments to persons increase \$26.7 billion in 1980, compared with \$18.2 billion in 1979. The real wage insurance proposal increases transfers \$3.3 billion in 1980; other proposals limit the increase in social security and medicare payments.

The real wage insurance proposal announced in late October 1978 is a part of the administration's anti-inflation program. Under the proposal, groups of employees whose wages (defined for this purpose to include 25 percent of major fringe benefits) for

CHART 8

Change in Federal Government Expenditures, NIPA Basis



*Estimates by BEA.

**Consists of net interest and subsidies less current surplus of Government enterprises.

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

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the period October 1, 1978 to September 30, 1979 increase 7 percent or less would receive payments if inflation exceeds 7 percent. The payment is based on a rate equal to the difference between 7 percent and the actual increase in the Consumer Price Index from October–November 1978 to October–November 1979 up to a limit of 3 percentage points (10 percent inflation). This rate will apply to each employee's wages up to a maximum of \$20,000 per job. Because the payment is intended to replace wages and salaries, it is included in the taxable income of the employee.

It is assumed in the budget that the rate of inflation over the applicable period is 7.5 percent and that the proposal increases the unified budget deficit \$2.5 billion. Of this amount, \$2.3 billion is recorded in the unified budget as a net reduction in individual income tax receipts, and \$0.2 billion as an increase in outlays, reflecting payments to individuals in excess of their tax liabilities. In the NIPA's, the effect on the deficit is the same, but transfer payments are increased \$3.3 billion and personal taxes \$0.8 billion.

Social security payments (excluding medicare) account for \$12.6 billion of the 1980 increase; \$8.9 billion is the result of increases in benefits. A 9.1-percent increase in July 1979 adds \$6.9 billion to the 1980 increase, and a 7.1-percent increase in July 1980 adds \$2 billion. The administration is again proposing to reduce social security payments—\$0.6 billion in 1980—by a number of reform measures, including the elimination of payments to college students and lump-sum death payments.

Medicare payments increase \$2.9 billion in 1980, about \$1.6 billion for hospital benefits and \$1.3 billion for medical benefits. Proposed hospital cost containment legislation, which would place a limit on the annual increase in hospital inpatient costs, reduces medicare benefits \$1.7 billion in 1980 and \$0.4 billion in 1979.

Unemployment benefits increase \$1.9 billion in fiscal 1980, compared with a \$1.5 billion decline in 1979. It is estimated that an average of 2.6 million workers per week will receive

unemployment benefits in 1980, compared with 2.2 million in 1979. Benefits increase also as a result of the final phase-in of the expanded coverage enacted in 1976—primarily for State and local government employees and agricultural workers—and because of higher average benefits.

As a result of the Revenue Act, transfer payments under the earned-income credit program increase \$0.8 billion in 1980, compared with a small decline in 1979. The Revenue Act made the program permanent and increased payments—effective January 1, 1979—to 10 percent of the first \$5,000 of income, phased out as income rises from \$6,000 to \$10,000. Previously, the payment was 10 percent of the first \$4,000, phased out as income rose from \$4,000 to \$8,000. Eligible employees may elect to receive the payment in their pay checks beginning July 1, 1979; previously they received the payment only after filing yearend tax returns. The Administration is considering further expansion of this program as part of welfare reform.

Together, other transfer payments increase \$5.3 billion in 1980 and \$6.1

billion in 1979. The difference is mostly accounted for by larger increases in 1979 in education, manpower training, and community services payments. Military and civilian pensions account for \$2.9 billion of the 1980 increase and \$2.6 billion of the 1979 increase.

Grants-in-aid

Grants-in-aid to State and local governments increase \$0.7 billion in 1980, compared with \$3.6 billion in 1979. The smaller increase in 1980 reflects, in addition to the administration's effort to limit increases in civilian spending, a continued decline in economic stimulus grants for public service employment and local public works. Grants in 1979 also include a one-time payment—\$0.5 billion—for retroactive social services grants. Excluding the economic stimulus grants and the retroactive social services payments, grants-in-aid increase \$3.4 billion in 1980 and \$5.7 billion in 1979.

Grants for public service employment decline \$0.6 billion in 1980 and \$0.3 billion in 1979. The number of federally funded public service jobs amounted to about 740,000 in June

Table 12.—Relation of National Defense Purchases in the National Income and Product Accounts to National Defense Outlays in the Unified Budget

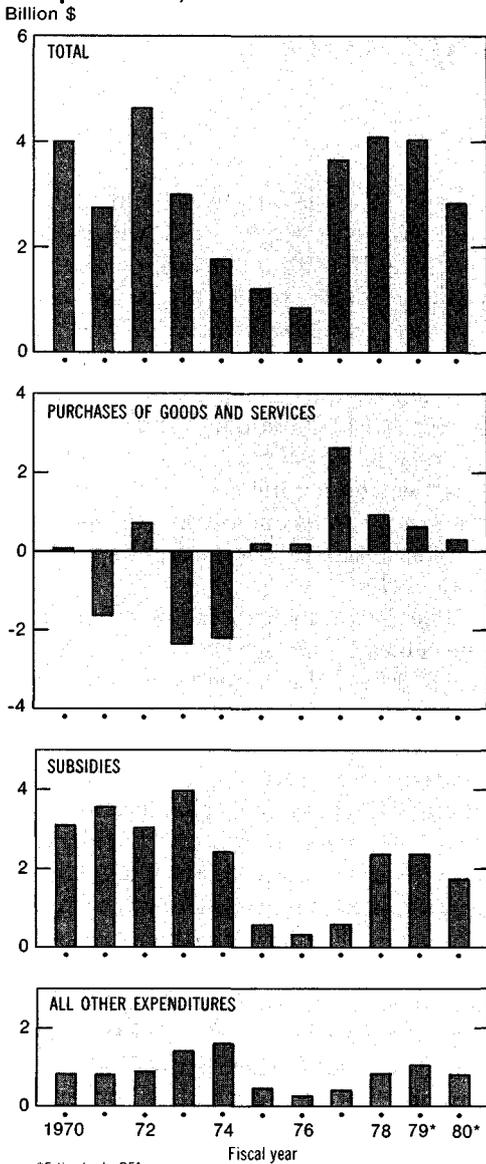
[Billions of dollars]

	Fiscal		
	Actual 1978	Estimates	
		1979	1980
National defense outlays in the unified budget.....	105.2	114.5	125.8
Department of Defense, military.....	103.0	111.9	122.7
Military personnel.....	27.1	28.2	28.4
Retired military personnel.....	9.2	10.3	11.4
Operation and maintenance.....	33.6	35.9	38.7
Procurement.....	20.0	22.5	25.7
Aircraft.....	7.0	8.0	9.4
Missiles.....	1.8	1.8	2.2
Ships.....	3.0	3.9	3.8
Weapons.....	2.1	2.3	2.9
Ammunitions.....	.7	.9	.9
Other.....	5.3	5.7	6.5
Research, development, test, and evaluation.....	10.5	11.7	13.0
Other.....	2.7	3.3	3.2
Civilian and military pay raise ¹			2.2
Atomic energy and other defense related activities.....	2.1	2.6	3.1
Plus: Military assistance outlays.....	.1	.4	.5
Less: Transfer payments to retired military personnel.....	9.1	10.2	11.4
Grants-in-aid and net interest paid.....	.7	.8	.9
Timing differences and other adjustments.....	-2.6	-1.2	-1.4
Equals: National defense purchases, NIPA.....	98.1	105.1	115.4

1. Includes pay raise effective October 1979.

CHART 9

Commodity Credit Corporation Expenditures, NIPA Basis



*Estimates by BEA
U.S. Department of Commerce, Bureau of Economic Analysis 79-2-9

1978, slightly above the 725,000 jobs targeted for the year. However, the number of jobs began to decline there-

after, and amounted to about 525,000 by December, well below the 615,000 jobs estimated for 1979 in the budget. The decline in 1978 occurred for two reasons. (1) State and local governments decided not to maintain or fill certain public service jobs—particularly those for specific projects designed to last no more than a year—because they were considered to be of limited value by these governments. (2) These governments feared additional congressional cutbacks in program funding. The budget assumes a level of 467,000 jobs by the end of 1980, with the emphasis shifted to providing jobs for the long-term unemployed.

Local public works grants decline \$1.6 billion in 1980 and \$1 billion in 1979. This program was authorized in late 1976 and broadened under the economic stimulus program in mid-1977; it reached a peak in late 1978, and is expected to end in early 1980. Antirecession fiscal assistance—also part of the economic stimulus program—ended in the third quarter of 1978. No new authority is requested for these programs although the administration is proposing a limited and temporary “targeted” fiscal assistance program aimed at cities with the greatest needs.

Smaller increases occur in most other grants in 1980 as compared to 1979; public assistance grants increase \$0.7 billion compared with \$1.3 billion in 1979, highways \$0.2 billion compared with \$0.7 billion, and education \$0.4 billion compared with \$1 billion.

Other expenditures

Net interest paid increases \$3.6 billion in 1980, compared with \$7.9

billion in 1979. In previous budgets, it was assumed, as a convention, that interest rates remain at the levels prevailing at the time the estimates were made. Because interest rates are now unusually high and because it was expected that they would decline, the Office of Management and Budget decided that continuing the same assumption this year would result in an overstatement of interest outlays. A different convention—that interest rates move with the inflation rate—is used in the 1980 budget. Under this convention, which is not meant to be a forecast, the 91-day Treasury bill rate declines gradually from 9.3 percent, the prevailing rate at the time the estimates were made, to an average of about 8.8 percent in calendar year 1979 and 7.6 percent in 1980. Currently, the 91-day bill rate is about 1½ times the rate of a year earlier. This substantial rise is the major factor in the sharp increase in net interest paid in 1979. Debt held by the public (including the Federal Reserve System) increases \$40 billion in both 1979 and 1980, despite the smaller deficit in 1980. This is because of an unusually large drawdown of cash balances in 1979.

Subsidies less the current surplus of government enterprises increases \$0.2 billion in 1980, compared with an increase of \$0.9 billion in 1979. The smaller increase results from a decline in agricultural subsidies; this decline—\$0.8 billion—is based on the budget assumption of higher farm prices and average weather conditions. Housing subsidies increase \$0.8 billion and the Postal Service deficit increases \$0.3 billion. All other subsidies are essentially unchanged.

The Input-Output Structure of the U.S. Economy, 1972

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THIS article presents preliminary results of BEA's input-output (I-O) study for 1972. With the publication of these results, the number of BEA benchmark I-O tables is increased to five, covering, in addition to 1972, the years 1947, 1958, 1963, and 1967.¹

The 1972 benchmark results are preliminary because the GNP derived as part of the I-O study has not yet been fully reconciled with the GNP derived in terms of incomes as part of the national income and product accounts (NIPA's). The reconciliation, which will be completed shortly, may require revisions in the results of the I-O study, but it is not believed that the revisions will significantly affect the I-O relationships shown in this article. The reconciled benchmark results will be shown in the SURVEY OF CURRENT BUSINESS at that time. Tables 1 and 2, which are in percentage form in this article, will be

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

shown in dollar form and reconciled summary NIPA's for 1972 will be presented in the format of table A that appears regularly in the July issues of the SURVEY. (The associated NIPA time series will not be available this year.)

The 1972 I-O results presented in this article are in summary form, i.e., the underlying detail is aggregated to 85 industries and commodities. The 1972 results will be available in considerably greater detail, as are the results for 1963 and 1967.²

The I-O tables for 1972 differ from the tables for earlier years in two major ways. First, the industry classification used for the 1972 I-O table is based on the 1972 Standard Industrial Classification (SIC) (see appendix B). The 1972 SIC is revised considerably from the 1967 version on which the 1967 I-O tables were based. Second, a change was made in the treatment of secondary products.³ The new treatment is similar to that recommended by the United Nations in its *A System of National Accounts* (New York, 1968). As a result of this change, the I-O tables provide better information on industrial markets for commodities, on the inputs used by each industry to produce its output, and on the economy-wide requirements for inputs that stem from changes in demand. The discussion of

2. The 85-industry/commodity classification and its relationship to the 1972 Standard Industrial Classification (SIC) are shown in appendix B. The 496-industry/commodity classification in which the 1972 I-O results will be available and its relationship to the 85-level classification and the SIC will be available later.

The set of tables at the 496 level of classification will be published as a supplement to the SURVEY and also will be available on computer tape, as will the 85-level tables. A set of tables at the 365 level will be available only on computer tape. The availability of these tables will be announced in the SURVEY.

3. The primary product is the product that accounts for the largest percentage of a business unit's production or related magnitudes. Its secondary products are the other products it produces. For a more detailed definition of these terms, see footnote 6.

Acknowledgments

The BEA input-output study for 1972 was prepared under the direction of Philip M. Ritz, Chief of the Interindustry Economics Division; Eugene P. Roberts, Assistant Chief; and Paula C. Young, Chief of the Input-Output Structures Branch. Guidance was provided by Martin L. Marimont, Associate Director for National Economic Accounts, and Albert J. Walderhaug, Chief of the Research and Analysis Branch of the Division. Important contributions were made by the following persons in the Division:

E. Louise Adams, William A. Allen, Jr., Stevan T. Augustin, Claiborne M. Ball, John J. Benton, Jr., Peggy L. Burcham, Antoinette S. Coniglio, Peter E. Coughlin, Marjorie S. Crenshaw, Ray N. Dryden, Jr., D. Anne Fisher, John C. Hartley, Carolyn B. Knapp, Robert T. Mangan, Steven K. Martin, Paul E. Myers, Jr., David R. Nelson, Gary L. Olin, Mark A. Planting, Anne L. Probst, Karen D. Redman, Elizabeth G. Rhodes, Robert S. Robinowitz, Austin L. Schmitt, Jr., Howard L. Schreier, Sharon R. Scott, Roy A. Seaton, II, Nancy W. Simon, Elizabeth T. Spaulding, George M. Swisko, Joanne S. Thompson, Kenneth A. Wallach, Lucy J. Wayne, John R. Welty.

Estimates for the agricultural industries were prepared by Gerald Schluter and staff, Economic Research Service (now Economics, Statistics, and Cooperative Service), U.S. Department of Agriculture.

Table A.—Input-Output Commodity Composition of Final Demand, 1972

[Percentage distributions, based on producers' prices]

Commodity number	Final demand category								
	91	92	93	94	95 ¹	96	97	98	99
Total.....	100.00	100.00	100.00	100.00	-100.00	100.00	100.00	100.00	100.00
1.....	.20	0	4.25	.15	-.34	(*)	.01	.07	.03
2.....	.62	0	19.84	6.54	-.83	(*)	-3.43	.16	.10
3.....	.11	0	.18	.14	-1.51	(*)	-1.86	(*)	(*)
4.....	.02	0	0	.03	(*)	.01	.01	.04	.02
5.....	0	0	.07	.14	-.81	-.03	0	0	0
6.....	0	0.11	.26	.04	-.54	-.01	(*)	0	0
7.....	.02	0	.78	.68	(*)	.05	.04	.02	.01
8.....	0	.03	.73	(*)	-3.63	0	0	0	0
9.....	(*)	0	.23	.12	-.23	(*)	0	0	-.06
10.....	(*)	0	-.07	.11	-.13	(*)	(*)	0	.06
11.....	0	53.58	0	.01	0	2.11	9.92	9.04	23.39
12.....	0	0	0	.01	0	1.33	3.84	3.48	5.89
13.....	.06	.04	.62	.45	-.11	5.99	4.67	0	.02
14.....	9.93	0	12.04	3.93	-6.37	.01	1.06	2.33	.86
15.....	.82	0	2.10	1.15	-.09	0	0	0	(*)
16.....	.09	0	2.69	.59	-1.18	.03	(*)	.02	.05
17.....	.20	.33	1.87	.21	-.77	.01	.04	(*)	(*)
18.....	3.06	0	7.17	.36	-3.46	.11	.17	.01	.09
19.....	.38	0	1.60	.14	-.18	.17	.07	.01	.05
20.....	.05	(*)	6.10	1.17	-2.72	.02	.05	.04	(*)
21.....	0	0	.03	(*)	(*)	.01	.02	0	0
22.....	.77	.37	3.44	.05	-.28	.02	.17	.04	.02
23.....	.03	1.29	.75	.04	-.17	.05	.28	.45	.16
24.....	.32	0	1.74	1.31	-2.34	.04	.38	.38	.31
25.....	.01	0	.59	.04	-.01	.01	.03	.03	.02
26.....	.78	0	2.54	.51	-.31	.22	.78	1.90	.71
27.....	.07	.09	2.08	3.16	-1.79	1.08	.85	.20	.28
28.....	0	0	.70	1.05	-.43	.05	(*)	(*)	(*)
29.....	1.52	0	3.68	.97	-.41	.14	.34	.23	1.05
30.....	.02	0	1.12	.09	(*)	(*)	.01	.07	(*)
31.....	1.83	0	.40	.98	-3.77	.93	.34	.51	.48
32.....	.59	.02	5.19	.80	-1.52	.25	.23	.07	.19
33.....	0	0	.44	.10	-.21	(*)	(*)	0	0
34.....	.67	0	1.99	.05	-1.40	.01	.01	0	.01
35.....	.08	0	1.51	.28	-.44	.02	.06	.07	.09
36.....	0.08	0	3.00	.35	-.83	.01	.01	.01	.01
37.....	(*)	(*)	4.72	1.10	-4.59	.23	.01	(*)	.01
38.....	(*)	.03	2.62	1.12	-3.40	-.02	.36	(*)	0
39.....	0	.01	.31	.04	-.02	.01	0	.02	(*)
40.....	.02	.65	5.10	.54	-.19	.19	.18	0	0
41.....	.06	0	1.96	.76	-.31	.06	.12	.08	-.03
42.....	.16	.39	4.25	.84	-1.15	.18	.20	.09	.02
43.....	.02	.87	1.67	.98	-.33	.26	.48	0	.10
44.....	.01	2.27	1.88	.65	-.60	.01	.02	.02	.04
45.....	0	2.04	3.30	2.70	-.23	.15	.07	0	.13
46.....	0	.89	.49	.27	-.17	.05	.08	(*)	0
47.....	.02	2.10	1.21	.80	-.39	.09	.18	.03	.02
48.....	.01	2.30	1.17	1.56	-1.15	.06	.07	.02	(*)
49.....	0	1.17	1.33	1.20	-.70	.21	.19	0	.03
50.....	(*)	.02	.57	.11	-.01	.06	.05	.22	.04
51.....	.03	2.34	.29	2.29	-.96	.37	1.51	.27	.12
52.....	.07	1.12	2.88	.72	-.10	.06	.03	.21	.05
53.....	.01	1.79	2.06	1.14	-.71	.55	.43	.04	.15
54.....	.62	.54	3.67	.30	-.66	.01	.01	.03	.02
55.....	.13	.04	1.73	.33	-.23	.03	.06	.05	.01
56.....	.67	2.39	4.02	1.23	-3.30	.30	3.15	.20	.08
57.....	.04	.01	-.01	1.38	-.75	.62	.59	.01	.02
58.....	.16	.22	1.17	.41	-.42	.12	.11	.01	.04
59.....	3.85	9.01	8.22	5.66	-11.10	.62	.66	.34	1.06
60.....	.01	1.07	1.96	4.18	-.74	10.10	2.18	0	(*)
61.....	.53	3.21	4.89	.62	-1.91	1.92	.70	.03	.16
62.....	.11	1.15	1.39	1.09	-.62	.59	.66	.06	.24
63.....	.21	1.12	.66	.89	-.80	.32	.51	.22	.25
64.....	.95	.41	4.98	.94	-2.34	.06	.13	.55	.15
65.....	2.80	.66	5.11	7.16	-1.51	3.15	1.57	1.47	1.00
66.....	1.74	1.17	0	.53	0	.82	.86	.47	1.00
67.....	0	0	0	0	0	0	0	0	0
68.....	2.92	0	0	.22	-.54	.69	.46	2.23	1.18
69.....	19.01	5.52	9.67	5.64	3.93	1.04	1.27	.89	1.17
70.....	5.29	0	0	.35	-.22	.01	2.46	.32	2.41
71.....	14.72	2.40	0	2.80	0	.20	.99	.48	1.39
72.....	2.76	.10	0	.01	0	.70	.66	-.15	.82
73.....	1.00	0	0	1.15	-.01	3.17	3.70	-2.33	3.18
74.....	5.08	0	0	0	0	.37	.31	-.11	.29
75.....	1.87	0	0	0	0	.11	.08	.11	.36
76.....	1.17	0	-1.58	.60	-.02	.21	-.04	-.63	-.05
77.....	9.63	0	0	.07	-.04	1.00	5.43	-.06	8.10
78.....	.29	0	0	.19	0	.29	.76	.07	.58
79.....	.27	0	0	0	0	.02	.01	.04	.02
80.....	.89	(*)	.04	.93	-20.79	3.97	2.02	.01	(*)
81.....	.29	-2.88	1.97	1.26	-1.48	.03	1.20	.09	1.12
82.....	0	0	0	0	0	48.36	48.15	73.83	40.87
83.....	-.48	0	0	19.47	-4.62	0	-.71	0	0
84.....	.72	0	0	0	0	0	0	0	0
85.....	0	0	-73.35	0	0	0	0	0	0

*Less than 0.005 percent.

1. This column, which covers comparable imports, is shown as negatives to remind the reader that the absolute values, except that for trade (I-0 69), would appear as negatives in a value table. The trade entry is positive because it covers duties collected on imports; duties are part of the domestic trade industry in the I-0 system.

secondary products in the "Definitions and Conventions" section of this article contains a more detailed explanation of the new treatment and its advantages. BEA plans to conform the 1963 and 1967 tables to the 1972 SIC classification, to the new treatment of secondary products, and to the other new features of the 1972 I-O table.

I-O and the NIPA's

I-O is conceptually and statistically integrated with the NIPA's. The basic relationships between I-O and the NIPA's are brought out in charts 10 and 11. Features of I-O that are bypassed in the following explanation of the charts are discussed in the section on "Definitions and Conventions."

The national income and product account, shown on the left side of chart 10, 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 final products equals GNP. The same total may be derived by summing 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.

The right side of chart 10 shows the components of GNP and of charges against GNP arranged in an input-output format—a matrix, i.e., a table in which information is presented in rows and columns. The row labeled "producers" shows the sales of commodities (goods and services) by producers to final demand. The column headed "producers" shows the incomes that make up charges against GNP in three groups: compensation of employees;

GROSS NATIONAL PRODUCT

In the National Income and Product Accounts

In an Input-Output Format

Compensation of employees Proprietors' income Rental income of persons Corporate profits Net interest Business transfer payments Indirect business taxes Less: Subsidies less current surplus of government enterprises Capital consumption allowances (CHARGES AGAINST GNP)	Personal consumption expenditures Gross private domestic investment Net exports Government purchases GNP
---	--

	PRODUCERS	FINAL DEMAND				
		Personal consumption expenditures	Gross private domestic investment	Net exports	Government purchases	GNP
VALUE ADDED	Compensation of employees					
	Profit-type income*, net interest & capital consumption allowances					
	Indirect business taxes					
	Charges against GNP					

*Consists of proprietors' income, rental income of persons, corporate profits, and business transfer payments, less subsidies, etc.

INPUT-OUTPUT TABLE

		PRODUCERS									FINAL DEMAND (GNP)				GROSS OUTPUT
		Agriculture	Mining	Construction	Manufacturing	Transportation	Trade	Finance	Services	Other	Personal consumption expenditures	Gross private domestic investment	Net exports	Government purchases	
PRODUCERS	Agriculture														
	Mining														
	Construction														
	Manufacturing														
	Transportation														
	Trade														
	Finance														
	Services														
	Other														
VALUE ADDED (Charges against GNP)	Compensation of employees														
	Profit-type income*, net interest & capital consumption allowances														
	Indirect business taxes														
GROSS INPUT															

*Consists of proprietors' income, rental income of persons, corporate profits, and business transfer payments, less subsidies, etc.

profit-type income, net interest, and capital consumption allowances; and indirect business taxes. The sum of the producers' column, which in I-O terminology is called value added, is equal to the sum of the producers' row.

Chart 11 is an elaboration of the right side of chart 10. It shows, in addition to sales by producers to final demand and incomes generated in production, an expansion of the producers-to-producers box, which was empty in chart 10, into a large shaded area with many boxes. These boxes represent producers' sales of materials, semifinished products, and services to producers. These sales depict the I-O structure of the economy. For example, the row for manufacturing shows sales of manufactured commodities to producers as well as to final demand; the column for manufacturing shows raw materials, semifinished products, and services purchased by manufacturers for use in production as well as value added by manufacturers.

The value of total GNP as well as the value of sales to each of the final demand components is the same in I-O as in the NIPA's. The chart also shows gross output and gross input for each industry. The former is the sum of sales by producers to producers and to final demand, and the latter is the sum of purchases by producers from producers and value added. For each industry, gross output equals gross input.

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 re-

quire 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. I-O analysis traces this intricate chain 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. I-O has also been used to study the impact on the environment of industrial emissions of pollutants associated with alternative levels and 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. I-O is also useful in cost-price analysis. It provides detailed information on cost-price structures and permits 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 requirements for raw materials, semifinished products, and finished products 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.

Description of the tables

The results of the 1972 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.^{4,5} This section describes these tables and highlights some of the important I-O relationships for 1972. The next section summarizes the definitions and conventions underlying the tables.

The use table (table 1).—A use table that shows dollar values would show in each row the sales to each industry and to final users of the output of the commodity named at the beginning of the row. Each column would show the value of the input of commodities—raw materials, semifinished goods, and services—and the value added generated in production of the industry named at the head of the column.

For reasons stated earlier, the use table in this article shows percentages. These percentages are distributions of the row totals, that is, the sales patterns of commodities. These patterns may change over time, even if the input-output relationships mentioned earlier remain fixed.

An interesting aspect of the U.S. economy shown in the rows is the wide variation in the proportion of total domestic output of commodities sold directly to final users. More than nine-tenths of 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 to final users; therefore, the

4. 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.

5. The results of earlier BEA I-O studies were presented in three basic tables: (1) transactions (or flow) table, (2) direct requirements table, and (3) total requirements table. The use table replaces the transactions table. The make table is new. The commodity-by-industry direct requirements table replaces the direct requirements table. The commodity-by-commodity total requirements table is new. The industry-by-commodity total requirements table replaces the total requirements table.

Table B.—Input-Output Commodity Composition of Personal Consumption Expenditures, 1972

I-O commodity number	Percentage		I-O commodity number	Percentage		I-O commodity number	Percentage		I-O commodity number	Percentage		I-O commodity number	Percentage	
	Producers' prices	Purchasers' prices		Producers' prices	Purchasers' prices		Producers' prices	Purchasers' prices		Producers' prices	Purchasers' prices		Producers' prices	Purchasers' prices
3. Food purchased for off-premise consumption (n.d.)			16. Standard clothing issued to military personnel (n.d.)			27. Other housing (s.)			34. Cleaning and polishing preparations, paper products, and miscellaneous supplies (n.d.)			45. Drug preparations and sundries (n.d.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
1.....	.94	1.22	16.....	25.57	27.00	72.....	100.00	100.00	3.....	.07	.16	24.....	3.39	6.33
2.....	3.24	7.67	18.....	63.00	63.00	22.....	55.97	97.75	9.....	.06	.21	27.....	.01	.01
3.....	.58	1.01	34.....	10.00	10.00	23.....	.04	.08	17.....	.43	.82	29.....	48.04	87.75
10.....	(*)	.01	65.....	.29	0	65.....	.86	0	19.....	.06	.10	31.....	.01	.02
14.....	82.02	89.75	69.....	1.14	0	69.....	43.15	0	24.....	16.03	25.35	32.....	.77	1.28
27.....	.03	.04							25.....	1.19	1.65	54.....	.13	.23
65.....	3.62	.05							26.....	.04	.05	55.....	.05	.08
69.....	29.42	0							27.....	2.30	4.28	62.....	2.17	4.30
70.....	(*)	0							29.....	32.63	49.69	65.....	.66	0
80.....	.16	.26							30.....	1.37	2.42	69.....	44.77	0
4. Purchased meals and beverages (n.d.)			17. Cleaning, laundering, dyeing, pressing, alteration, storage, and repair of garments (s.)			29. Furniture, including mattresses and bedsprings (d.)			46. Ophthalmic products and orthopedic appliances (d.)			47. Physicians (s.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
74.....	100.00	100.00	72.....	100.00	100.00	22.....	.26	.45	58.....	.93	1.50	58.....	.93	1.50
5. Food furnished employees (including military) (n.d.)			18. Jewelry and watches (d.)			30. Kitchen and other household appliances (d.)			48. Dentists (s.)			49. Other professional services (s.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
1.....	2.68	2.89	34.....	.02	.03	22.....	.09	.13	24.....	15.96	28.99	77.....	100.00	100.00
2.....	3.46	5.06	62.....	7.78	13.68	38.....	.13	.13	26.....	30.53	52.58			
3.....	.33	.38	64.....	42.94	85.23	40.....	.90	1.50	27.....	4.43	7.41			
14.....	81.48	91.68	65.....	.15	0	52.....	5.03	8.15	32.....	.15	.26			
65.....	3.41	0	69.....	49.41	0	54.....	48.50	84.82	64.....	5.74	10.76			
69.....	8.65	0	81.....	-.30	1.06	58.....	2.02	3.03	65.....	2.33	0			
6. Food produced and consumed on farms (n.d.)			19. Other clothing, accessories, and jewelry repair (s.)			31. China, glassware, tableware, and utensils (d.)			37. Household electricity (s.)			50. Privately controlled hospitals and sanitariums (s.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
1.....	22.90	22.90	72.....	99.68	99.68	20.....	1.75	2.82	68.....	100.00	100.00	77.....	100.00	100.00
2.....	7.51	7.51	73.....	.32	.32	32.....	14.85	21.91				73.....	4.39	4.39
3.....	.08	.08										77.....	95.61	95.61
14.....	69.52	69.52												
7. Tobacco products (n.d.)			21. Toilet articles and preparations (n.d.)			32. Other durable housefurnishings (d.)			38. Household gas (s.)			51. Health insurance (s.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
15.....	49.95	100.00	19.....	.05	.09	17.....	16.45	32.74	68.....	70.46	70.46	70.....	100.00	100.00
65.....	.60	0	29.....	55.67	83.02	19.....	1.94	3.26	79.....	23.94	23.94			
69.....	49.46	0	32.....	.18	.35	20.....	3.51	5.45						
11. Shoes and other footwear (n.d.)			22. Barbershops, beauty parlors, and baths (s.)			33. Semidurable housefurnishings (n.d.)			40. Household fuel oil and coal (n.d.)			56. Brokerage charges and investment counseling (s.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
32.....	8.96	17.76	72.....	100.00	100.00	17.....	10.45	15.01	7.....	2.49	4.27	70.....	100.00	100.00
34.....	43.03	82.12							20.....	.09	.12			
65.....	.74	0							27.....	.94	1.53			
69.....	47.26	0							31.....	42.82	92.76			
81.....	(*)	.12							37.....	.01	.01			
12. Shoe cleaning and repair (s.)			24. Owner-occupied nonfarm dwellings—space rent (s.)			41. Telephone and telegraph (s.)			42. Domestic service (s.)			57. Bank service charges, trust services, and safe deposit box rental (s.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
72.....	100.00	100.00	71.....	100.00	100.00	65.....	5.60	5.60	66.....	100.00	100.00	70.....	100.00	100.00
14. Women' and children's clothing and accessories except footwear (n.d.)			25. Tenant-occupied nonfarm dwellings (including lodging houses)—rent (s.)			42. Domestic service (s.)			43. Other household operations (s.)			58. Services furnished without payment by financial intermediaries (except life insurance carriers) (s.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
16.....	1.39	2.53	71.....	99.25	99.25	16.....	2.43	4.42	84.....	100.00	100.00	70.....	100.00	100.00
17.....	(*)	.01	72.....	.75	.75	17.....	.26	.53				73.....	100.00	100.00
18.....	44.79	87.51												
19.....	.23	.45												
24.....	.88	1.64												
26.....	.39	.70												
32.....	.05	.09												
34.....	2.97	5.61												
64.....	.63	1.28												
65.....	.52	0												
69.....	48.16	0												
81.....	-.02	.18												
15. Men's and boys' clothing and accessories except footwear (n.d.)			26. Rental value of farm dwellings (s.)			43. Other household operations (s.)			44. Legal services (s.)			59. Expense of handling life insurance (s.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
16.....	.46	.85	71.....	99.25	99.25	16.....	.26	.53	70.....	100.00	100.00	70.....	100.00	100.00
18.....	54.59	96.55	72.....	.75	.75	19.....	45.09	82.78	73.....	100.00	100.00	73.....	100.00	100.00
19.....	.07	.13							26.....	.39	.61			
34.....	1.10	2.07							32.....	.90	1.37			
64.....	.01	.02							35.....	.82	1.38			
65.....	.24	0							37.....	.08	.10			
69.....	43.58	0							41.....	.77	1.14			
81.....	-.05	.38							64.....	4.00	6.88			
									65.....	1.48	0			
									69.....	43.61	0			
									80.....	.17	.38			
									81.....	(*)	.40			

Table B.—Input-Output Commodity Composition of Personal Consumption Expenditures, 1972—Continued

I-O commodity number	Percentage		I-O commodity number	Percentage		I-O commodity number	Percentage		I-O commodity number	Percentage		I-O commodity number	Percentage	
	Producers' prices	Purchasers' prices		Producers' prices	Purchasers' prices		Producers' prices	Purchasers' prices		Producers' prices	Purchasers' prices		Producers' prices	Purchasers' prices
61. Funeral and burial expenses (s.)			70. Gasoline and oil (n.d.)			84. Magazines, newspapers, and sheet music (n.d.)			89. Flowers, seeds, and potted plants (n.d.)			99. Private higher education (s.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
36.....	4.93	6.40	31.....	44.63	100.00	26.....	65.27	100.30	2.....	35.20	98.16	77.....	100.00	100.00
42.....	.45	.63	65.....	4.80	0	65.....	1.19	0	4.....	.90	.90			
65.....	.64	.58	69.....	50.57	0	69.....	34.11	0	65.....	4.51	0			
69.....	1.58	0	71. Bridge, tunnel, ferry, and road tolls (s.)			85. Nondurable toys and sport supplies (n.d.)			91. Admissions to motion picture theaters (s.)			100. Private elementary and secondary schools (s.)		
71.....	16.77	16.77	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
72.....	75.63	75.63	79.....	100.00	100.00	3.....	1.84	4.22	76.....	100.00	100.00	77.....	100.00	100.00
62. Other personal business (s.)			72. Motor vehicle insurance premiums less claims paid (s.)			86. Wheel goods, durable toys, sports equipment, boats, and pleasure aircraft (d.)			92. Admissions to legitimate theaters, opera, and entertainments of nonprofit institutions (except athletic) (s.)			101. Other private education and research (s.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
66.....	1.19	1.19	70.....	100.00	100.00	3.....	2.66	3.97	76.....	100.00	100.00	76.....	100.00	100.00
70.....	1.37	1.37	74. Local transit systems (s.)			87. Radio and TV receivers, records, and musical instruments (d.)			93. Admissions to spectator sports (s.)			102. Religious and welfare activities (s.)		
72.....	13.59	13.59	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
73.....	21.10	21.10	70.....	100.00	100.00	13.....	.11	.19	76.....	100.00	100.00	76.....	2.42	2.42
77.....	60.95	60.95	75. Local taxicabs (s.)			88. Radio and TV repair (s.)			94. Clubs and fraternal organizations, except insurance (s.)			103. Expenditures abroad by U.S. residents (n.d.)		
78.....	1.82	1.82	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
65. New autos (d.)			76. Local railway (commutation) (s.)			89. Other purchased intercity transportation (s.)			95. Commercial participant amusements (s.)			104. Foreign travel by U.S. residents (s.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
59.....	78.82	100.00	65.....	100.00	100.00	65.....	36.62	53.30	65.....	58.57	58.57	65.....	34.82	34.82
65.....	2.21	0	77. Local railway (commutation) (s.)			90. Airline (s.)			96. Parimutuel net receipts (s.)			105. Expenditures in the U.S. by foreigners (s.)		
69.....	18.98	0	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	-100.00	-100.00
66. Net purchases of used autos (d.)			78. Intercity railway (excluding commutation) (s.)			91. Other recreation (s.)			97. Other recreation (s.)			106. Expenditures in the U.S. by foreigners (s.)		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	-100.00	-100.00
65.....	.01	0	65.....	100.00	100.00	34.....	.02	.04	1.....	3.41	6.18	83.....	-100.00	-100.00
69.....	64.55	0	79. Intercity bus (s.)			92. Radio and TV receivers, records, and musical instruments (d.)			98. Other recreation (s.)			107. Personal remittances in kind to foreigners (n.d.)		
80.....	.09	.13	Total.....	100.00	100.00	Total.....	100.00	100.00	3.....	.90	1.05	Total.....	-100.00	-100.00
81.....	35.35	99.87	65.....	100.00	100.00	56.....	48.98	86.05	4.....	1.96	1.96	Total.....	-100.00	-100.00
67. Other motor vehicles (d.)			80. Airline (s.)			93. Radio and TV receivers, records, and musical instruments (d.)			99. Other recreation (s.)			Total personal consumption expenditures		
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
59.....	51.06	65.06	65.....	100.00	100.00	34.....	3.16	4.77	65.....	7.57	7.57	Durable...	15.02	15.02
61.....	21.23	29.44	81. Other purchased intercity transportation (s.)			94. Radio and TV receivers, records, and musical instruments (d.)			100. Other recreation (s.)			Non-durable...		
65.....	1.52	0	Total.....	100.00	100.00	Total.....	100.00	100.00	69.....	2.85	0	40.73	40.73	
69.....	23.98	0	65.....	100.00	100.00	57.....	3.69	6.63	70.....	.21	.21	44.24	44.24	
81.....	2.20	5.50	82. Books and maps (d.)			95. Radio and TV receivers, records, and musical instruments (d.)			101. Other recreation (s.)			Services....		
68. Tires, tubes, accessories, and other parts (d.)			Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00			
Total.....	100.00	100.00	65.....	100.00	100.00	58.....	.72	1.15	65.....	7.57	7.57			
19.....	.23	.46	83. Books and maps (d.)			96. Radio and TV receivers, records, and musical instruments (d.)			102. Other recreation (s.)					
27.....	1.63	3.68	Total.....	100.00	100.00	Total.....	100.00	100.00	66.....	.41	0			
29.....	.43	.70	65.....	100.00	100.00	56.....	3.16	4.77	66.....	7.57	7.57			
32.....	32.16	67.00	84. Books and maps (d.)			97. Radio and TV receivers, records, and musical instruments (d.)			103. Other recreation (s.)					
35.....	.05	.11	Total.....	100.00	100.00	Total.....	100.00	100.00	69.....	2.85	0			
36.....	.09	.14	65.....	100.00	100.00	57.....	3.16	4.77	70.....	.21	.21			
42.....	.39	.78	85. Books and maps (d.)			98. Radio and TV receivers, records, and musical instruments (d.)			104. Other recreation (s.)					
50.....	.22	.42	Total.....	100.00	100.00	Total.....	100.00	100.00	72.....	24.54	24.54			
52.....	.50	.92	65.....	100.00	100.00	58.....	.72	1.15	73.....	15.81	15.81			
55.....	.59	1.17	86. Books and maps (d.)			99. Radio and TV receivers, records, and musical instruments (d.)			105. Other recreation (s.)					
56.....	.42	.86	Total.....	100.00	100.00	Total.....	100.00	100.00	76.....	25.80	25.80			
57.....	.07	.13	65.....	100.00	100.00	58.....	3.69	6.63	77.....	11.91	11.91			
58.....	8.05	15.84	87. Books and maps (d.)			100. Radio and TV receivers, records, and musical instruments (d.)			106. Other recreation (s.)					
59.....	4.15	8.30	Total.....	100.00	100.00	Total.....	100.00	100.00	79.....	4.12	4.12			
65.....	1.74	0	65.....	100.00	100.00	56.....	.04	.04	80.....	.55	.90			
69.....	50.45	0	88. Books and maps (d.)			101. Radio and TV receivers, records, and musical instruments (d.)			107. Other recreation (s.)					
81.....	-1.17	-1.51	Total.....	100.00	100.00	Total.....	100.00	100.00	81.....	-.05	-.05			
69. Motor vehicle repair, greasing, washing, parking, storage, and rental (s.)			65.....	100.00	100.00	56.....	.04	.04						
Total.....	100.00	100.00	69.....	39.77	0	72.....	98.66	98.66						
75.....	100.00	100.00	89. Books and maps (d.)			102. Radio and TV receivers, records, and musical instruments (d.)								
			Total.....	100.00	100.00	Total.....	100.00	100.00						
			65.....	100.00	100.00	73.....	1.30	1.30						

* Less than 0.005 percent.

NOTE.—The identifying numbers for the personal consumption expenditure components are those used in table 2.6 in the July 1978 SURVEY OF CURRENT BUSINESS. Personal consumption expenditures of scrap, used, and secondhand goods (I-O 81) from other final demand categories 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.

Table C.—Input-Output Commodity Composition of Producers' Durable Equipment Expenditures, 1972

I-O commodity number	Percentage		I-O commodity number	Percentage		I-O commodity number	Percentage		I-O commodity number	Percentage		I-O commodity number	Percentage	
	Producers' prices	Purchasers' prices		Producers' prices	Purchasers' prices		Producers' prices	Purchasers' prices		Producers' prices	Purchasers' prices		Producers' prices	Purchasers' prices
1. Furniture and fixtures														
Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00	Total.....	100.00	100.00
22.....	16.79	18.02	45.....	82.54	97.09	51.....	87.98	99.14	54.....	22.76	27.53	61.....	97.03	101.16
23.....	70.39	80.98	65.....	.84	0	65.....	.75	0	55.....	8.72	10.03	65.....	1.95	0
65.....	2.26	0	69.....	16.94	0	69.....	11.67	0	58.....	43.90	62.44	69.....	2.18	0
69.....	10.41	0	81.....	-.32	2.91	81.....	-.40	.86	65.....	2.01	0	81.....	-1.16	-1.16
81.....	.15	1.00							69.....	22.61	0			
2. Fabricated metal products														
Total.....	100.00	100.00												
6.....	7.88	8.39												
27.....	6.52	6.52												
37.....	.08	.08												
39.....	.52	.58												
40.....	47.49	50.53												
42.....	28.31	33.20												
48.....	.94	.94												
65.....	1.69	0												
69.....	6.81	0												
81.....	-.24	-.24												
3. Engines and turbines														
Total.....	100.00	100.00												
43.....	95.31	100.00												
65.....	1.59	0												
69.....	3.10	0												
4. Tractors														
Total.....	100.00	100.00												
44.....	60.94	71.06												
45.....	21.84	25.59												
65.....	1.80	0												
69.....	15.41	0												
80.....	.10	.11												
81.....	-.09	3.24												
5. Agricultural machinery (except tractors)														
Total.....	100.00	100.00												
44.....	86.46	99.88												
65.....	2.60	0												
69.....	10.94	0												
81.....	0	.12												
6. Construction machinery														
Total.....	100.00	100.00												
45.....	82.54	97.09												
65.....	.84	0												
69.....	16.94	0												
81.....	-.32	2.91												
7. Mining and oilfield machinery														
Total.....	100.00	100.00												
8.....	5.90	5.91												
45.....	80.26	89.70												
49.....	2.46	2.84												
65.....	2.68	0												
69.....	8.70	0												
81.....	0	1.55												
8. Metalworking machinery														
Total.....	100.00	100.00												
47.....	92.00	99.46												
65.....	.52	0												
69.....	7.72	0												
81.....	-.24	.54												
9. Special industry machinery, n.e.c.														
Total.....	100.00	100.00												
48.....	93.44	100.11												
65.....	.79	0												
69.....	5.88	0												
81.....	-.11	-.11												
10. General industrial, including materials handling, equipment														
Total.....	100.00	100.00												
46.....	39.25	43.05												
49.....	51.38	57.80												
65.....	2.45	0												
69.....	7.77	0												
81.....	-.85	-.85												
11. Office, computing, and accounting machinery														
Total.....	100.00	100.00												
51.....	87.98	99.14												
65.....	.75	0												
69.....	11.67	0												
81.....	-.40	.86												
12. Service industry machinery														
Total.....	100.00	100.00												
50.....	1.39	1.78												
52.....	74.57	89.09												
65.....	1.00	0												
69.....	16.17	0												
72.....	6.87	6.87												
81.....	0	2.26												
13. Electrical transmission, distribution, and industrial apparatus														
Total.....	100.00	100.00												
53.....	89.80	96.97												
65.....	1.28	0												
69.....	8.78	0												
81.....	.14	3.03												
14. Communication equipment														
Total.....	100.00	100.00												
13.....	1.17	1.17												
38.....	.94	1.00												
56.....	64.02	65.88												
57.....	.21	.22												
65.....	.32	0												
66.....	31.71	31.71												
69.....	1.61	0												
81.....	.02	.02												
15. Electrical equipment, n.e.c.														
Total.....	100.00	100.00												
54.....	22.76	27.53												
55.....	8.72	10.03												
58.....	43.90	62.44												
65.....	2.01	0												
69.....	22.61	0												
16. Trucks, buses, and truck trailers														
Total.....	100.00	100.00												
59.....	85.24	100.38												
65.....	1.99	0												
69.....	13.65	0												
81.....	-.88	-.38												
17. Passenger cars														
Total.....	100.00	100.00												
59.....	109.42	136.73												
65.....	3.10	0												
69.....	26.06	0												
81.....	-38.58	-36.73												
18. Aircraft														
Total.....	100.00	100.00												
60.....	103.45	106.83												
62.....	10.86	11.85												
65.....	.15	0												
69.....	4.22	0												
81.....	-18.68	-18.68												
19. Ships and boats														
Total.....	100.00	100.00												
61.....	103.90	105.13												
65.....	.06	0												
69.....	1.17	0												
81.....	-5.13	-5.13												
20. Railroad equipment														
Total.....	100.00	100.00												
61.....	97.03	101.16												
65.....	1.95	0												
69.....	2.18	0												
81.....	-1.16	-1.16												
21. Instruments														
Total.....	100.00	100.00												
62.....	39.84	48.30												
63.....	43.23	51.64												
65.....	.49	0												
69.....	16.38	0												
81.....	.06	.06												
22. Miscellaneous equipment														
Total.....	100.00	100.00												
17.....	10.14	11.80												
20.....	.20	.21												
32.....	1.70	1.96												
44.....	25.15	31.21												
61.....	9.43	13.72												
64.....	31.39	39.76												
65.....	2.21	0												
69.....	19.66	0												
80.....	.09	.09												
81.....	.03	1.25												
23. Scrap														
Total.....	100.00	100.00												
81.....	100.00	100.00												
24. Residential (landlord durables)														
Total.....	100.00	100.00												
17.....	23.34	27.17												
22.....	7.17	7.61												
32.....	.18	.20												
54.....	51.47	62.14												
56.....	2.38	2.88												
65.....	3.03	0												
69.....	12.43	0												

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 ferro-alloy ores mining (I-O 5), were sold almost entirely to industrial users. For such commodities, the connection between production and final demand is remote and can be traced only through the sales made by industrial users. Industrial users accounted for over 50 percent of the sales of 45 of the commodities shown in the table, and over 75 percent for 33 of the commodities.

The rows of table 1 also show wide variation in the concentration of sales to industrial users. Primary iron and steel (I-O 37) was sold to 74 industrial

users; none of them consumed more than 20 percent of total iron and steel production. In contrast, metal containers (I-O 39) were sold to 15 industrial users; one of them, food and kindred products (I-O 14), consumed 72.5 percent of metal container production.

The make table (table 2).—A make table that shows dollar values would show in each row the value of each of the commodities produced by the industry named at the beginning of the row. For I-O industries 1-79, the value in the main diagonal (i.e., the value where the row with a given number intersects the column with the same number) would be the value of the primary product of the industry named

at the beginning of the row.⁶ The other values in that row would be the values

6. The basic unit of classification is the establishment; an establishment is classified in an industry on the basis of its primary product; and once an establishment is classified in an industry, its entire production—both primary and secondary—is regarded as part of the production of that industry. In some cases, an I-O primary product consists of more than one SIC primary product, each of which is primary to a different industry. According to I-O conventions, these SIC products are made primary to only one industry. For example, cotton bedsheets made from purchased fabrics are primary to SIC industry 2392 and cotton bedsheets made from fabric produced in the same establishment are primary to SIC industry 2211. According to I-O conventions, the latter are made primary to SIC 2392, and secondary to SIC 2211. At the 85-industry level of classification, the only industries for which such changes are large are: (1) radio and TV broadcasting (I-O 67), for which almost all of industry production is advertising, and (2) printing and publishing (I-O 26), for which nearly half of production is advertising; advertising in I-O is primary to business services (I-O 73).

I-O distinguishes a government enterprise industry. The local passenger transit and electric utilities produced by government enterprises are treated as secondary to the government enterprises and primary to transportation and warehousing (I-O 65) and electric, gas, water, and sanitary services (I-O 68), respectively.

of the secondary products of that industry. (The category scrap, used, and secondhand goods (I-O 81) is identified only as a commodity; there is no corresponding industry.)

The columns of a make table would show the total output of each commodity and the amount of that commodity produced in each industry. Table 2 shows percentage distributions of the column totals. These percentages can be referred to as "market shares." For example, column 27 shows that of the production of chemicals and selected chemical products (I-O 27), 86 percent was produced by the chemicals and selected chemical products industry (row 27), 6.1 percent by petroleum refining and related industries (row 31), 2 percent by the plastics and synthetic materials industry (row 28), 1.5 percent by the drugs, cleaning, and toilet preparations industry (row 29), and the remainder (4.4 percent) by 23 other industries. Row 27 shows that the chemicals and selected chemical products industry produced, in addition to its primary product, a number of secondary products, the most important being plastics and synthetic materials (column 28) and drugs, cleaning, and toilet preparations (column 29).

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. This distribution is referred to as "input coefficients." For example, to produce a dollar of output, the chemicals and selected chemical products industry (I-O 27) required 20.5 cents of chemicals and selected chemical products, 1.2 cents of refined petroleum products (row 31), 1.2 cents of chemical and fertilizer minerals (row 10), etc.

Table 3 shows heavy interdependence among industries, which is a feature of the U.S. economy. Seventy-five of the industries shown in the table required inputs of at least 40 commodities, and 56 industries required inputs of at least 50 commodities. The other transportation equipment industry, for example, required inputs of 69 commodities.

The data 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 97.5 percent of the production of this commodity. Six-tenths of 1 percent was produced by the rubber and miscellaneous plastics products industry (I-O 32), 0.4 percent was produced by the miscellaneous manufacturing industry (I-O 64), and the remainder by 12 other industries. Based on these 1972 market shares, I-O 22 would initially supply \$975,000 for sale to consumers, I-O 32 would supply \$6,000, 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 \$4,651 (\$975,000 x 0.00477) of household furniture products, of which \$4,535 (0.975 x \$4,651) it would produce itself. Thus, industry 22 initially would have to produce \$979,535 of household

furniture. Continuing the calculation, this production would require \$57,038 (\$979,535 x 0.05823) of fabrics (I-O 16); \$139,819 (\$979,535 x 0.14274) of wood products (I-O 20); and so on down column 22.

The next calculation is that of the production required by each of the industries producing the commodities required by the household furniture industry to meet the requirements placed upon it. The calculation is based on a similar use of the data in the columns of tables 2 and 3. Thus, to supply the fabrics, I-O industry 16 requires its own products (fabrics) and 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.

Similar calculations would trace 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.

Table D.—Relation of Foreign Port Value, Duty, and Insurance to Domestic Port Value of Comparable Imports, 1972

[In percentages of domestic port value]

Commodity number	Foreign port value	Transportation	Duty	Insurance	Domestic port value	Commodity number	Foreign port value	Transportation	Duty	Insurance	Domestic port value
1.....	92.78	1.35	5.79	0.08	100.00	39.....	93.25	1.84	4.91	0	100.00
2.....	87.71	3.24	8.88	.17	100.00	40.....	92.12	2.29	5.46	.13	100.00
3.....	94.71	4.51	.57	.21	100.00	41.....	93.77	2.56	3.46	.21	100.00
4.....	100.00	0	0	0	100.00	42.....	91.00	2.30	6.52	.18	100.00
5.....	81.28	18.27	.24	.21	100.00	43.....	91.74	4.27	3.79	.20	100.00
6.....	89.80	9.18	.82	.19	100.00	44.....	94.14	5.75	.04	.07	100.00
7.....	100.00	0	0	0	100.00	45.....	90.45	4.80	4.58	.17	100.00
8.....	87.49	9.34	3.17	0	100.00	46.....	89.53	5.86	4.45	.16	100.00
9.....	87.70	12.02	.17	.11	100.00	47.....	86.74	4.07	8.99	.20	100.00
10.....	81.94	12.11	5.85	.10	100.00	48.....	90.40	3.53	5.77	.30	100.00
13.....	89.94	1.74	8.07	.25	100.00	49.....	88.75	6.04	5.04	.17	100.00
14.....	89.65	3.81	6.32	.22	100.00	50.....	90.28	2.78	6.94	0	100.00
15.....	78.29	3.08	18.63	0	100.00	51.....	93.93	2.22	3.64	.21	100.00
16.....	81.78	2.90	15.10	.22	100.00	52.....	91.28	4.30	4.30	.13	100.00
17.....	86.31	8.82	4.66	.21	100.00	53.....	90.09	3.61	6.10	.20	100.00
18.....	75.58	4.18	20.04	.20	100.00	54.....	89.23	5.39	5.14	.24	100.00
19.....	79.95	7.68	12.15	.22	100.00	55.....	88.68	2.90	8.25	.17	100.00
20.....	93.44	2.71	3.72	.13	100.00	56.....	91.56	2.65	5.55	.24	100.00
21.....	94.74	0	5.26	0	100.00	57.....	93.08	1.59	5.14	.19	100.00
22.....	85.15	7.89	6.77	.19	100.00	58.....	91.26	3.15	5.37	.22	100.00
23.....	97.96	.86	1.18	0	100.00	59.....	95.25	2.78	1.83	.14	100.00
24.....	97.79	1.68	.46	.07	100.00	60.....	96.05	.41	3.42	.12	100.00
25.....	92.19	1.56	6.25	0	100.00	61.....	92.21	3.68	3.90	.21	100.00
26.....	95.26	3.43	1.18	.13	100.00	62.....	84.99	1.96	12.81	.23	100.00
27.....	91.51	3.04	5.27	.18	100.00	63.....	88.72	2.50	8.53	.25	100.00
28.....	86.54	3.92	9.29	.25	10.000	64.....	86.65	3.89	9.29	.16	100.00
29.....	92.22	1.43	6.13	.22	100.00	65.....	100.00	0	0	0	100.00
30.....	94.12	0	5.88	0	100.00	68.....	99.95	.05	0	0	100.00
31.....	84.46	13.80	1.72	.02	100.00	70.....	100.00	0	0	0	100.00
32.....	87.09	6.48	6.21	.22	100.00	73.....	90.99	8.11	.90	0	100.00
33.....	90.44	4.27	5.03	.26	100.00	76.....	100.00	0	0	0	100.00
34.....	83.75	7.07	8.95	.23	100.00	77.....	100.00	0	0	0	100.00
35.....	80.85	7.09	11.91	.15	100.00	81.....	98.44	1.35	.05	.16	100.00
36.....	85.13	4.80	9.90	.17	100.00	83.....	100.00	0	0	0	100.00
37.....	88.17	6.32	5.29	.22	100.00						
38.....	96.95	1.23	1.67	0.16	100.00	Total.....	91.31	4.01	4.53	.15	100.00

This chain of calculations of requirements that spreads 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 data on market shares and input coefficients shown in tables 2 and 3, respectively, have 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

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 \$1,004,900 ($\$1,000,000 \times 1.00490$) of household furniture products is required (row 22). Similarly, \$98,790 of fabrics ($\$1,000,000 \times 0.09879$) is required (row 16), \$207,260 of lumber and wood products ($\$1,000,000 \times 0.20726$) is required (row 20), etc.

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

Returning again to the household furniture example, calculations similar to those made for commodity-by-

commodity total requirements would be made. The column for I-O commodity 22 shows that to provide consumers with \$1 million of household furniture, \$980,200 ($\$1,000,000 \times 0.98020$) is required directly and indirectly from the household furniture industry (row 22), \$95,730 ($\$1,000,000 \times 0.09573$) from the fabrics industry (row 16), \$206,810 ($\$1,000,000 \times 0.20681$) from the lumber and wood products industry (row 20), etc.

Definitions and conventions

Classification of industries and commodities.—For this article, production is grouped into 85 industries. The industrial categories, their I-O numbers, and their SIC composition are given in appendix B. Seventy-seven of these are combinations of industries as defined in the *Standard Industrial Classification Manual*, 1972 edition. Two are government enterprises, which are not identified in the SIC. Six are special industries established because they improve the classification of industries for I-O purposes. They are noncomparable imports (I-O 80), designated as “directly allocated imports” in earlier tables; scrap, used, and secondhand goods (I-O 81), which is a “dummy” commodity; government (I-O 82); rest of the world (I-O 83); households (I-O 84); and inventory valuation adjustment (I-O 85). Earlier I-O tables included two additional dummy industries, the business travel, entertainment, and gifts industry and the office supplies industry. The commodities previously included in the two dummy industries are distributed directly to consuming industries and final demand in the 1972 table.

For this article, production is grouped also into 85 commodities. Each commodity consists of the production of the primary product of the industry with the identical name (and is given the same I-O number as the industry) and of the production of that commodity as the secondary product of other industries.

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 purchases of them by industrial and final users, commodities are shown as if moving directly to the users, bypassing trade. The production of trade is measured by gross margins, that is, operating expense plus profit.

There has been one change from earlier tables in the definition of the trade industry. Eating and drinking places (I-O 74) has been taken out of retail trade and established as a separate industry. The retail trade industry exclusive of eating and drinking places (I-O 69) is a distributive industry that buys commodities for sale without further processing, whereas eating and drinking places process food and sell a transformed product. As a result of the new definition, the retail trade industry has a more homogeneous input structure than before.

Valuation of transactions.—In the I-O tables in this article, the underlying valuation is at producers' prices.⁹ Such prices exclude distribution costs (trade margins and transportation costs). (In the NIPA's, goods and services are valued at purchasers' prices, which are producers' prices plus distribution costs.) In I-O tables, purchases of commodities from industries other than transportation and trade by industrial and final users are valued at producers' prices, and these users make separate purchases of trade margins and transportation costs from the trade and transportation industries, respectively.

Secondary products.—The treatment of secondary products in the 1972 I-O study differs substantially from that in earlier I-O studies. In earlier studies, selected secondary products were redefined, that is, the secondary product and associated inputs were excluded from the industry that produced it and included in the industry to which it was primary. The secondary product that was redefined differed considerably from the industry's primary product and was usually a significant propor-

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 40 in appendix A.

8. See footnote 7.

9. Producers' prices are defined to include Federal and State and local excise taxes collected and paid by the producer.

tion of the production of the industry that produced it or of the commodity to which it was redefined. All other secondary product was transferred, that is, treated as if it were sold by the industry that produced it to the industry to which it was primary and added to the output of the industry to which it was primary for distribution to that industry's users.

In the 1972 I-O study, all secondary product is redefined. The 1972 redefinitions are of two kinds. The first kind is reflected in tables 1 and 2, and therefore in the three other basic tables. The second kind is reflected only in tables 4 and 5.¹⁰ 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 the 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.

6. Electricity produced and sold by mining, manufacturing, and railroad industries was redefined to utilities.

Items 1-3 had been redefined in earlier I-O tables; items 4-6 were redefined for the 1972 tables.

The second kind of redefinition was used for all other secondary product. 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.

The extension of the redefinition treatment of secondary products in the 1972 I-O study results in substantial improvements compared with the transfer treatment used in earlier studies. That treatment had the following defects. First, the composition of each industry's inputs was distorted by the inclusion among inputs of fictitious purchases of its primary product from other industries. Correspondingly, the distribution of each industry's output to its customers was distorted by the inclusion among outputs of fictitious sales of its secondary product. Second, the fictitious sales between industries tended to distort interindustry relationships. For example, printing is a secondary product of the metal containers industry. This printing was sold fictitiously to the printing and publishing industry. That industry produced advertising as a secondary product, which was sold fictitiously to the advertising component of the business services industry. In this way, the metal containers industry was linked to the printing and publishing industry, which in turn was linked to the business services industry. Consequently, an increase in the demand for advertising led indirectly to an increase in the demand for metal containers.

The treatment of secondary product in the 1972 I-O study eliminates the two defects described above. However, additional work is needed in the preparation of estimates of the inputs used to produce an industry's secondary product.

Imports.—Imported commodities that are comparable to domestically produced commodities, whether used by industrial users or by final users in substantially the same form in which they are imported, are included 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 (table 1, column 95), so that the row total for each commodity equals the domestic production of that commodity.

Imports that are not comparable to domestically produced commodities 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 (table 1, row 80 at column 95).

The treatment of comparable imports differs from that in earlier I-O tables. Imports for industrial use were shown as if purchased by the industry producing the comparable commodity and added to that industry's output for distribution to using industries; imports purchased by final users were shown as purchased directly from the row of directly allocated imports. The aggregate of comparable imports used by industries and the aggregate of all other imports (i.e., comparable imports used by final users and all noncomparable imports) were shown in the earlier studies as negative entries in the net export column at the import rows. The treatment of noncomparable imports (though more narrowly defined) is the same in the 1972 and earlier I-O studies.

Gross output and gross input: industry and commodity.—Gross output of an industry is the total production of an industry and consists of its primary product and those of its secondary products for which the second kind of redefinition is used. Gross input of an industry is the sum of the input of commodities and value added required to produce the industry's gross output. Gross output equals gross input for each industry.

The gross output of a commodity equals the domestic output of the commodity, whether produced as primary product or as secondary product.

Inventories.—Table 1 shows for each commodity (listed at the beginning of the rows) inventory change, which is a component of final demand. The table also shows for each commodity consumption of the commodity by industrial users and by the other components of final demand. Thus, the total for each row, that is, consumption plus inventory change, is the total domestic production of each commodity. The accounting for inventory change in I-O differs from that in the NIPA's. The latter shows the change in inventories held by each industry; for each

10. For the mathematical derivation of the second kind of redefinition, see item 40 in appendix A.

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. Reprints of the text and sample portions of the tables are available from BEA.
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. Reprint available from Superintendent of Documents, Government Printing Office, Washington, D.C. 20402; price 40 cents.*
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.*

Supplements to the SURVEY OF CURRENT BUSINESS

19. *Input-Output Structure of the U.S. Economy: 1963*; Volume 1, "Transactions Data for Detailed Industries;" Volume 2, "Direct Requirements for Detailed Industries;" Volume 3, "Total Requirements for Detailed Industries;" U.S. Department of Commerce, 1969.*
20. *Input-Output Structure of the U.S. Economy: 1967*; Volume 1, "Transactions Data for Detailed Industries;" Volume 2, "Direct Requirements for Detailed Industries;" Volume 3, "Total Requirements for Detailed Industries;" BEA, 1974. Available from Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402; \$3.85 for Volume 1 and \$3.75 each for Volumes 2 and 3. Stock numbers 003-024-00668-5, 003-024-00669-3, and 003-024-00670-7, respectively. A few copies of volumes 2 and 3 are available from BEA.
21. Irving Stern, "Industry Effects of Government Expenditures," 1975. Volume 1: 85-Industry Detail; Volume 2: 367-Industry Detail. Both available from National Technical Information Service, 5285 Port Royal Road, Springfield, Va. 22161; \$6.50 for Volume 1, \$16.25 for Volume 2 (\$3.00 microfiche for each). Accession numbers COM 75-11157/AS and COM 75-11158/AS, respectively.
22. 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 Service, Springfield, Va. 22161; \$5.25 per copy (\$3.00 microfiche) for Volume I and \$6.50 per copy (\$3.00 microfiche) for Volume II. Accession numbers PB-248-876/AS and PB-248-877/AS, respectively.*

BEA Staff Papers

23. "Input-Output Transactions: 1961," Staff Paper in Economics and Statistics, No. 16. Office of Business Economics (now Bureau of Economic Analysis), U.S. Department of Commerce, 1968.*
24. "Input-Output Transactions: 1966," Staff Paper in Economics and Statistics, No. 19. Bureau of Economic Analysis, U.S. Department of Commerce, February 1972. Available from National Technical Information Service, Springfield, Va. 22161; \$4.50 per copy (\$3.00 microfiche). Accession number COM 72-10299.
25. Arlene K. Shapiro, "Input-Output Analysis as a Predictive Tool," Bureau of Economic Analysis, Staff Paper No. 20, December 1972. Available from National Technical Information Service, Springfield, Va. 22161; \$6.00 per copy (\$3.00 microfiche). Accession number COM 73-10146.
26. Roger H. Bezdek, "Empirical Tests of Input-Output Forecasts: Review and Critique," BEA Staff Paper No. 24, July 1974. Available from National Technical Information Service, Springfield, Va. 22161; \$4.50 per copy (\$3.00 microfiche). Accession number COM 74-11439-AS.*
27. Arlene K. Shapiro, "Sources of Error in Input-Output Projections," BEA Staff Paper No. 26, July 1975. Available from National Technical Information Service, Springfield, Va. 22161; \$4.50 per copy (\$3.00 microfiche). Accession number COM 75-11074/AS.
28. Paula C. Young and Philip M. Ritz, "Summary Input-Output Tables of the U.S. Economy: 1968, 1969, 1970," Staff Paper No. 27, September 1975. Available from National Technical Information Service, Springfield, Va. 22161; \$6.00 per copy (\$3.00 microfiche). Accession number PB-246-690.
29. Paula C. Young and Philip M. Ritz, "Input-Output Table of the U.S. Economy: 1971," Staff Paper No. 28, March 1977. Available from National Technical Information Service, Springfield, Va. 22161; \$4.50 per copy (\$3.00 microfiche). Accession number PB-265-194.
30. Albert J. Walderhaug, "Revised Input-Output Tables for the U.S. Economy, 1967," Staff Paper No. 29, June 1977. Available from National Technical Information Service, Springfield, Va. 22161; \$5.25 per copy (\$3.00 microfiche). Accession number PB-270-259/AS.
31. Peter E. Coughlin, "Employment and Employee Compensation in the 1967 Input-Output Study," Staff Paper No. 31, February 1978. Available from National Technical Information Service, Springfield, Va. 22161; \$4.50 per copy (\$3.00 microfiche). Accession number PB-278-759.*

Miscellaneous Papers

32. 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.*
33. "The Input-Output Structure of the United States Economy: 1947," U.S. Department of Commerce, Office of Business Economics (now Bureau of Economic Analysis), March 1970.*
34. "Definitions and Conventions of the 1963 Input-Output Study," Bureau of Economic Analysis, April 1972.
35. "Industrial Composition of Personal Consumption Expenditures by PCE Category in Producers' and Purchasers' Prices, 1963." table showing producing industry detail at 367-industry level of classification.*
36. "Interindustry Transactions in New Structures and Equipment, 1963," Table showing producing industry detail at 367-industry level of classification.*
37. "Notes on Methods and Sources Used in Preparing the 1963 Capital Flow Table," U.S. Department of Commerce, Office of Business Economics (now Bureau of Economic Analysis), November 1971.
38. "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 classification.*
39. "Definitions and Conventions of the 1967 Input-Output Study," BEA, October 1974.*
40. "Mathematical Derivation of the Total Requirements Tables for the 1972 Input-Output Study," February 1979.*

* Indicates that a limited supply of the paper or reprint of the articles is available from BEA. Requests for copies should be addressed to the Bureau of Economic Analysis (BE-51), U.S. Department of Commerce, Washington, D.C. 20230. Other items may be secured from source listed, if any.

APPENDIX B.—Industry Classification of the 1972 Input-Output Tables

Industry number and title	Related Census-SIC codes (1972 edition)	Industry number and title	Related Census-SIC codes (1972 edition)
AGRICULTURE, FORESTRY, AND FISHERIES			
1. Livestock and livestock products.....	pt. 01, pt. 02	53. Electrical transmission and distribution equipment and industrial apparatus.....	361-2, 3825
2. Other agricultural products.....	pt. 01, pt. 02	54. Household appliances.....	363
3. Forestry and fishery products.....	081-4, 091, 097	55. Electric lighting and wiring equipment.....	364
4. Agricultural, forestry, and fishery services.....	0254, 07 (excl. 074), 085, 092	56. Radio, TV, and communication equipment.....	365-6
MINING			
5. Iron and ferroalloy ores mining.....	101, 106	57. Electronic components and accessories.....	367
6. Nonferrous metal ores mining.....	102-5, pt. 108, 109	58. Miscellaneous electrical machinery, equipment, and supplies.....	369
7. Coal mining.....	1111, pt. 1112, 1211, pt. 1212	59. Motor vehicles and equipment.....	371
8. Crude petroleum and natural gas.....	131, 132, pt. 138	60. Aircraft and parts.....	372
9. Stone and clay mining and quarrying.....	141-5, pt. 148, 149	61. Other transportation equipment.....	373-5, 3792, 3799, 2451
10. Chemical and fertilizer mineral mining.....	147	62. Professional, scientific, and controlling instruments and supplies.....	381, 3822-4, 3829, 384, 387
CONSTRUCTION			
11. New construction.....	pt. 15-17, pt. 108, pt. 1112, pt. 1212, pt. 148	63. Optical, ophthalmic, and photographic equipment and supplies.....	383, 385-6
12. Maintenance and repair construction.....	pt. 15-17, pt. 138	64. Miscellaneous manufacturing.....	39
MANUFACTURING			
13. Ordnance and accessories.....	3482-4, 3489, 3761, 3795	TRANSPORTATION, COMMUNICATION, AND UTILITIES	
14. Food and kindred products.....	20	65. Transportation and warehousing.....	40-2, 44-7
15. Tobacco manufactures.....	21	66. Communications, except radio and TV.....	481-2, 489
16. Broad and narrow fabrics, yarn and thread mills.....	221-4, 226, 228	67. Radio and TV broadcasting.....	483
17. Miscellaneous textile goods and floor coverings.....	227, 229	68. Electric, gas, water, and sanitary services.....	49
18. Apparel.....	225	WHOLESALE AND RETAIL TRADE	
19. Miscellaneous fabricated textile products.....	239	69. Wholesale and retail trade.....	50-57, 59, 7396, 8042
20. Lumber and wood products, except containers.....	241-3, 2448, 249	FINANCE, INSURANCE, AND REAL ESTATE	
21. Wood containers.....	2441, 2449	70. Finance and insurance.....	60-64, 67
22. Household furniture.....	251	71. Real estate and rental.....	65-6, pt. 1531
23. Other furniture and fixtures.....	252-4, 259	SERVICES	
24. Paper and allied products, except containers and boxes.....	261-4, 266	72. Hotels and lodging, personal and repair services (except auto).....	70-72, 762-4, pt. 7699
25. Paperboard containers and boxes.....	265	73. Business services.....	73 (excl. 7396), 7692, 7694, pt. 7699
26. Printing and publishing.....	27	74. Eating and drinking places.....	58
27. Chemicals and selected chemical products.....	281, 286-7, 289	75. Automobile repair and services.....	75
28. Plastics and synthetic materials.....	282	76. Amusements.....	78-9
29. Drugs, cleaning and toilet preparations.....	283-4	77. Health, educational, and social services and nonprofit organizations.....	074, 80 (excl. 8042), 82-84, 86, 8922
30. Paints and allied products.....	285	GOVERNMENT ENTERPRISES	
31. Petroleum refining and related industries.....	29	78. Federal Government enterprises.....	not applicable
32. Rubber and miscellaneous plastics products.....	30	79. State and local government enterprises.....	not applicable
33. Leather tanning and finishing.....	311	DUMMY AND SPECIAL INDUSTRIES	
34. Footwear and other leather products.....	313-7, 319	80. Noncomparable imports.....	
35. Glass and glass products.....	321-3	81. Scrap, used, and secondhand goods.....	
36. Stone and clay products.....	324-9	82. Government industry.....	
37. Primary iron and steel manufacturing.....	331-2, 339, 3462	83. Rest of the world industry.....	
38. Primary nonferrous metals manufacturing.....	333-6, 3463	84. Household industry.....	
39. Metal containers.....	341	85. Inventory valuation adjustment.....	
40. Heating, plumbing, and fabricated structural metal products.....	343-4	FINAL DEMAND	
41. Screw machine products and stampings.....	345, 3465-6, 3469	91. Personal consumption expenditures.....	
42. Other fabricated metal products.....	342, 347, 349	92. Gross private domestic fixed investment.....	
43. Engines and turbines.....	351	93. Change in business inventories.....	
44. Farm and garden machinery.....	352	94. Exports.....	
45. Construction and mining machinery.....	3531-3	95. Imports.....	
46. Materials handling machinery and equipment.....	3534-7	96. Federal Government purchases, national defense.....	
47. Metalworking machinery and equipment.....	354	97. Federal Government purchases, nondefense.....	
48. Special industry machinery and equipment.....	355	98. State and local government purchases, education.....	
49. General industrial machinery and equipment.....	356	99. State and local government purchases, other.....	
50. Miscellaneous machinery, except electrical.....	359		
51. Office, computing, and accounting machines.....	357		
52. Service industry machines.....	358		

Table 1.—The Use of Commodities

[Percent distribution,

Commodity number	For the distribution of output of a commodity, read the row for that commodity.	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
		1	2	3	4	5	6	7	8	9	10	11	12	13
1	Livestock and livestock products.....	27.8	2.1		0.5									
2	Other agricultural products.....	29.5	3.3		1.2							0.5	(*)	(*)
3	Forestry and fishery products.....			0.4								2.4	0.1	(*)
4	Agricultural, forestry, and fishery services.....	29.4	31.0	1.2	2.5									
5	Iron and ferroalloy ores mining.....					1.9		0.1						
6	Nonferrous metal ores mining.....					.1	11.7							
7	Coal mining.....		(*)			.1	(*)	12.1		(*)	(*)			0.1
8	Crude petroleum and natural gas.....								3.6					
9	Stone and clay mining and quarrying.....	(*)	3.0		(*)	.2	(*)			2.1	0.5	35.4	12.9	
10	Chemical and fertilizer mineral mining.....		9.3								5.1			
11	New construction.....											.1		
12	Maintenance and repair construction.....	.6	.8		.2	.1	(*)	.1	2.0	.1	(*)	.1	(*)	.1
13	Ordnance and accessories.....											.1	(*)	4.2
14	Food and kindred products.....	4.4	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
15	Tobacco manufactures.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.1	(*)	(*)
16	Broad and narrow fabrics, yarn and thread mills.....		.1					.1						
17	Miscellaneous textile goods and floor coverings.....	.2	.9	.9	.7							11.6	.9	(*)
18	Apparel.....											(*)	(*)	.1
19	Miscellaneous fabricated textile products.....		.3	.4	.2							.1	.4	.1
20	Lumber and wood products, except containers.....	(*)	(*)			(*)	(*)	.2			(*)	41.1	3.8	(*)
21	Wood containers.....	.2	26.4		3.6									7.6
22	Household furniture.....											1.2	.1	
23	Other furniture and fixtures.....											7.7	.9	
24	Paper and allied products, except containers.....	.4	.1	(*)	(*)		(*)	.1	(*)	.1	(*)	1.8	.5	(*)
25	Paperboard containers and boxes.....	(*)	.1		1.5							.1	(*)	.3
26	Printing and publishing.....	.1		(*)	.1	(*)	(*)		(*)	(*)	(*)	.1	.1	(*)
27	Chemicals and selected chemical products.....	.4	11.7	.1	.4	.1	(*)	.3	.2	.4	.2	1.3	.4	.1
28	Plastics and synthetic materials.....						(*)	.3						.1
29	Drugs, cleaning and toilet preparations.....	.4		(*)							(*)			(*)
30	Paints and allied products.....			.2					.1			15.8	29.8	.1
31	Petroleum refining and related industries.....	.6	2.9	.2	.2	(*)	.1	.1	.3		(*)	6.5	3.7	.1
32	Rubber and miscellaneous plastics products.....	.6	1.0	(*)	(*)	.1	.2	.2	(*)	.2	(*)	5.5	1.7	.1
33	Leather tanning and finishing.....													
34	Footwear and other leather products.....	.3			.1				(*)			.1	(*)	(*)
35	Glass and glass products.....	.1		(*)	(*)				(*)	(*)	(*)	2.9	1.0	(*)
36	Stone and clay products.....		.1		.1	(*)	.1	.2	(*)	(*)	(*)	60.6	7.6	.1
37	Primary iron and steel manufacturing.....	(*)	(*)		.1	(*)	.1	.2	.3	.2	(*)	7.0	.8	1.2
38	Primary nonferrous metals manufacturing.....					(*)	.1	.1	.1	(*)	(*)	10.8	.5	1.0
39	Metal containers.....			.8										
40	Heating, plumbing, and structural metal products.....	(*)	(*)						.1	(*)	(*)	70.0	6.7	
41	Screw machine products and stampings.....	.1				(*)	.1	.6		(*)	(*)	.5	.2	.6
42	Other fabricated metal products.....	.3	.3	.3	.2	.1	.1	.1	.5	.1	(*)	19.7	2.5	.4
43	Engines and turbines.....				.3	.1	.1	.2	.8	.6	.1			.1
44	Farm and garden machinery.....	3.2	5.1	.3	.3									
45	Construction and mining machinery.....					.3	.6	3.4	1.5	1.4	.2	3.6	1.1	
46	Materials handling machinery and equipment.....					.1	.2	.5		.9	.1	16.7	8.1	
47	Metalworking machinery and equipment.....											.2	.1	.6
48	Special industry machinery and equipment.....													
49	General industrial machinery and equipment.....	(*)	.1	.2	(*)	.1	(*)	.1	.9	.2	(*)	5.1	.6	.3
50	Miscellaneous machinery, except electrical.....	.2	.1				.2	.1	1.6	.1		.2	.2	.7
51	Office, computing, and accounting machines.....				(*)							(*)	(*)	
52	Service industry machines.....											16.3	8.9	
53	Electric industrial equipment and apparatus.....											7.9	1.4	.1
54	Household appliances.....											3.5	3.5	
55	Electric lighting and wiring equipment.....	(*)	(*)	(*)	(*)	(*)	(*)	.2	(*)	(*)	(*)	32.4	11.6	(*)
56	Radio, TV, and communication equipment.....	(*)	(*)	(*)	(*)	(*)	(*)		(*)	(*)	(*)	.6	.3	.7
57	Electronic components and accessories.....													1.5
58	Misc. electrical machinery and supplies.....	(*)	.7	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	1.3	.4	(*)
59	Motor vehicles and equipment.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.1	(*)	(*)
60	Aircraft and parts.....				(*)	(*)	(*)	(*)	(*)	(*)	(*)			2.3
61	Other transportation equipment.....			.5								(*)	(*)	
62	Scientific and controlling instruments.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	5.9	1.8	.4
63	Optical, ophthalmic, and photographic equipment.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.2		
64	Miscellaneous manufacturing.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	1.5	1.2	(*)
65	Transportation and warehousing.....	.9	.6	.1	.2				.1			4.3	1.2	.1
66	Communications, except radio and TV.....	.4	.3		.1				.2			1.1	.5	.1
67	Radio and TV broadcasting.....													
68	Electric, gas, water, and sanitary services.....	.6	.4	(*)	.1	.1	.1	.2	.4	.2	.1	.3	.1	.1
69	Wholesale and retail trade.....	.7	.6	(*)	.1	(*)	(*)	(*)	.1	(*)	(*)	4.6	1.3	(*)
70	Finance and insurance.....		.6	(*)	.1	(*)	(*)	(*)	.1	(*)	(*)	1.0	.4	(*)
71	Real estate and rental.....	.6	2.1	(*)	.1	(*)	(*)	(*)	.1	(*)	(*)	.4	.2	(*)
72	Hotels, personal and repair services exc. auto.....	(*)	(*)	(*)	.1	(*)	(*)	(*)	.1	(*)	(*)	.1	(*)	.1
73	Business services.....	.2	.6	.1	.3	(*)	(*)	(*)	.2	(*)	(*)	8.7	.7	.3
74	Eating and drinking places.....	(*)	(*)	(*)	.1	(*)	(*)	(*)	.1	(*)	(*)	1.1	.5	.1
75	Automobile repair and services.....	.5	.4	.1	.3	(*)	(*)	(*)	.1	(*)	(*)	1.8	.7	.1
76	Amusements.....	(*)	(*)	(*)	.3	(*)	(*)	(*)	.1	(*)	(*)	.1	(*)	(*)
77	Medical, educ. services and nonprofit org.....	.3	(*)	(*)	(*)	(*)	(*)	(*)	.1	(*)	(*)	.1	(*)	(*)
78	Federal Government enterprises.....	.1	(*)	(*)	.1	(*)	(*)	(*)	.1	(*)	(*)	.4	.2	.2
79	State and local government enterprises.....		(*)	(*)	(*)	(*)	(*)	(*)	.1	(*)	(*)	.2	.1	(*)
80	Noncomparable imports.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.3	(*)	(*)	.3	.1	(*)
81	Scrap, used, and secondhand goods.....			.2	(*)	.7	2.8	1.9	.1	.9	.3	1.3	.5	.6
82	Government industry.....													
83	Rest of the world industry.....													
84	Household industry.....													
85	Inventory valuation adjustment.....													
VA	Value added.....	.8	1.7	.1	.1	(*)	.1	.3	1.0	.1	(*)	4.6	1.8	.3

See footnote at end of table.

Table 1.—The Use of Commodities

[Percent distribution, based

Commodity number	For the distribution of output of a commodity, read the row for that commodity	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
		34	35	36	37	38	39	40	41	42	43	44	45
1	Livestock and livestock products												
2	Other agricultural products		(*)	(*)	(*)	(*)							
3	Forestry and fishery products			0.1									
4	Agricultural, forestry, and fishery services	(*)	0.1	1.1	0.1	0.2	0.1	0.2	0.1	0.1	(*)	(*)	(*)
5	Iron and ferroalloy ores mining			1.3	133.7	7.7							
6	Nonferrous metal ores mining			1.3	1.2	84.9		8					
7	Coal mining	(*)	(*)	1.7	14.0	.2	(*)		.1	(*)	(*)	(*)	(*)
8	Crude petroleum and natural gas												
9	Stone and clay mining and quarrying		1.7	32.2	3.5	.1		(*)		.1			
10	Chemical and fertilizer mineral mining		.3	5.4	6.4	(*)				(*)			
11	New construction												
12	Maintenance and repair construction	(*)	.1	.3	1.3	.2	(*)	.1	.1	.1	(*)	(*)	0.1
13	Ordnance and accessories	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
14	Food and kindred products	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
15	Tobacco manufactures	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
16	Broad and narrow fabrics, yarn and thread mills	0.9		.3		.1							
17	Miscellaneous textile goods and floor coverings	3.4		.1		.2				.2			
18	Apparel	.1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
19	Miscellaneous fabricated textile products	.2	.1	(*)	.1	.1	.1	.1	.4	.1	(*)	(*)	(*)
20	Lumber and wood products, except containers	.2	.3	.6	.7	.5	(*)	.2	.1	.6		0.1	.1
21	Wood containers		2.9	.7	2.9	4.5		1.2	4.0	1.1		1.0	.8
22	Household furniture												
23	Other furniture and fixtures				4								
24	Paper and allied products, except containers	.2	.1	1.3	.1	.1	(*)	.2	.2	(*)	(*)	(*)	(*)
25	Paperboard containers and boxes	.8	3.2	.9	.5	.5	.4	1.1	.8	1.8	0.2	.2	(*)
26	Printing and publishing	(*)	.1	(*)	2	.1	1.3	(*)	.1	(*)	(*)	(*)	(*)
27	Chemicals and selected chemical products	.1	.5	1.5	2.6	1.3	(*)	.1	.2	.8	(*)	(*)	(*)
28	Plastics and synthetic materials	(*)		.7	(*)	1.9	.1		.1	.2			
29	Drugs, cleaning and toilet preparations	(*)		(*)	(*)	(*)	(*)	.1	.1	.1			
30	Paints and allied products	.1	.4	.8	.5	.9	2.6	3.9	.6	3.1	.1	4	.4
31	Petroleum refining and related industries	(*)	.1	.5	.6	.4		.2	.1	.2	.1	(*)	.1
32	Rubber and miscellaneous plastics products	1.5	1.1	.4	.2	.8	(*)	.4	.4	1.7	.1	.9	.7
33	Leather tanning and finishing	74.8											
34	Footwear and other leather products	2.4		(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
35	Glass and glass products		8.2	.2	.1	.2		2.2	.2	.3	(*)	(*)	(*)
36	Stone and clay products	(*)	.5	10.9	1.6	.4	(*)	.3	.2	.5	.3	.1	.4
37	Primary iron and steel manufacturing			.3	20.0	.5	4.7	10.2	8.2	5.4	2.0	2.0	3.2
38	Primary nonferrous metals manufacturing	.1	(*)	.1	3.4	41.4	1.8	4.9	2.2	3.9	1.1	.2	.2
39	Metal containers				.3		.1		.4	.1			
40	Heating, plumbing, and structural metal products			(*)	.3			1.4		(*)	.7		.3
41	Screw machine products and stampings	.3	.1	(*)	2.1	.4	(*)	3.0	3.0	2.2	1.0	1.2	.8
42	Other fabricated metal products	.3	(*)	1.1	2.7	1.1	.3	3.4	1.0	3.4	.4	.4	.5
43	Engines and turbines			.1	.1			(*)		.4	10.8	6.0	4.4
44	Farm and garden machinery								.1	(*)	.1	4.4	
45	Construction and mining machinery			.4									6.3
46	Materials handling machinery and equipment	.2		.1	1.0	.4			.1				
47	Metalworking machinery and equipment		.2	(*)	3.6	2.7	.4	1.3	2.1	1.5	.7	.6	1.3
48	Special industry machinery and equipment	.3	.6	(*)	.5				(*)	.1			
49	General industrial machinery and equipment	(*)	.1	.2	8.0	1.9	.1	1.1	.1	.4	1.3	4.0	5.1
50	Miscellaneous machinery, except electrical	.1	.4	.6	4.0	1.6	.3	2.4	4.2	2.7	4.2	1.7	3.0
51	Office, computing, and accounting machines					.5							
52	Service industry machines				(*)			.4		(*)			
53	Electric industrial equipment and apparatus		(*)	.1	2.8	.7		1.3	.1	.5	.4	.4	.9
54	Household appliances	.1	(*)		(*)				(*)				
55	Electric lighting and wiring equipment		(*)	.4	1.8	.3	(*)	.1	.1	(*)	(*)	(*)	(*)
56	Radio, TV, and communication equipment	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
57	Electronic components and accessories												
58	Misc. electrical machinery and supplies				.1			.1	.1	(*)	1.6	1.1	.2
59	Motor vehicles and equipment	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	.2	.2
60	Aircraft and parts												
61	Other transportation equipment				.2			(*)					
62	Scientific and controlling instruments		.2	.1	.8			.7	.1	.1	(*)	(*)	(*)
63	Optical, ophthalmic, and photographic equipment	(*)	(*)	.1	.1	(*)	(*)	.1	(*)	(*)	(*)	(*)	(*)
64	Miscellaneous manufacturing	.6	.1	.3	.2	.1		.1	(*)	.1		.1	.1
65	Transportation and warehousing	.1	.3	1.9	2.7	.8	.3	.6	.3	.5	.1	.1	.1
66	Communications, except radio and TV	.1	.1	.2	.3	.2	(*)	.2	.1	.2	(*)	.1	.1
67	Radio and TV broadcasting												
68	Electric, gas, water, and sanitary services	(*)	.4	.9	2.1	1.1	.1	.2	.2	.3	.1	.1	.1
69	Wholesale and retail trade	.1	.1	.2	.6	.4	.1	.3	.1	.2	.1	.1	.1
70	Finance and insurance	(*)	.1	.2	.3	.2	(*)	.1	.1	.2	(*)	.1	.1
71	Real estate and rental	(*)	(*)	.1	(*)	.1	(*)	.1	.1	.1	(*)	(*)	(*)
72	Hotels; personal and repair services exc. auto	(*)	(*)	.1	.3	.1	.1	.2	.1	.1	(*)	(*)	(*)
73	Business services	.2	.2	.4	.8	.5	.2	.4	.2	.4	.1	.2	.2
74	Eating and drinking places		.1	.1	.2	.1	(*)	.2	.1	.1	(*)	(*)	.1
75	Automobile repair and services	(*)	(*)	.3	.2	.1	(*)	.2	.1	.1	(*)	(*)	.1
76	Amusements	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
77	Medical, educ. services and nonprofit org.	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
78	Federal Government enterprises	.2	.1	.2	.3	.1	(*)	.2	.1	.2	(*)	(*)	.1
79	State and local government enterprises	(*)	(*)	.1	1.5	.2	(*)	(*)	(*)	(*)	(*)	(*)	(*)
80	Noncomparable imports	(*)	(*)	.1	.1	.2	(*)	(*)	(*)	(*)	(*)	(*)	(*)
81	Scrap, used, and secondhand goods	.1	2.2	1.1	53.3	79.8	(*)	2.3	1.4	2.4	1.3	1.1	1.2
82	Government industry												
83	Rest of the world industry												
84	Household industry												
85	Inventory valuation adjustment												
VA	Value added	.2	.3	.6	1.3	.5	.1	.5	.4	.6	.2	.2	.3

See footnote at end of table.

Table 1.—The Use of Commodities

[Percent distribution,

Commodity number	For the distribution of output of a commodity, read the row for that commodity	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	Medical, educ. services and nonprofit org.
		66	67	68	69	70	71	72	73	74	75	76	77
1	Livestock and livestock products.....									0.6		0.1	0.2
2	Other agricultural products.....	(*)	(*)	(*)	(*)	(*)	0.4	0.1	(*)	1.7	(*)	1.0	.1
3	Forestry and fishery products.....									14.0			.2
4	Agricultural, forestry, and fishery services.....	2.1	(*)	2.0	2.5	(*)	14.6	.5	0.1			1.9	1.8
5	Iron and ferroalloy ores mining.....												
6	Nonferrous metal ores mining.....												
7	Coal mining.....			42.4			(*)	.1					.4
8	Crude petroleum and natural gas.....			22.0									
9	Stone and clay mining and quarrying.....												
10	Chemical and fertilizer mineral mining.....												
11	New construction.....												
12	Maintenance and repair construction.....	2.6	(*)	4.9	2.4	0.8	29.6	1.0	.9	.5	.4	.5	3.9
13	Ordnance and accessories.....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
14	Food and kindred products.....	(*)	(*)	(*)	.1	.1	(*)	(*)	(*)	12.8	(*)	(*)	1.0
15	Tobacco manufactures.....	(*)	(*)	(*)	.2	.2	(*)	(*)	(*)		(*)	(*)	.1
16	Broad and narrow fabrics, yarn and thread mills.....								.5				.1
17	Miscellaneous textile goods and floor coverings.....				.3				.1			.1	(*)
18	Apparel.....	(*)		(*)	.1	(*)	(*)	1.4	.1		.2	(*)	.7
19	Miscellaneous fabricated textile products.....				1.6	.8		3.6	.1	.4		.2	3.4
20	Lumber and wood products, except containers.....				.2	(*)	(*)	.1	.1			(*)	.1
21	Wood containers.....												
22	Household furniture.....												
23	Other furniture and fixtures.....												
24	Paper and allied products, except containers.....	.1	(*)	.1	5.9	1.7	.2	.9	1.0	.9	.2	(*)	.9
25	Paperboard containers and boxes.....				4.6			.9	.5	3.8			.8
26	Printing and publishing.....	(*)	(*)	.4	2.4	7.5	.3	.6	3.6	.3	(*)	.3	5.3
27	Chemicals and selected chemical products.....	(*)	(*)	.5	.1	(*)	.2	.5	.8	.1	(*)	.1	1.4
28	Plastics and synthetic materials.....												
29	Drugs, cleaning and toilet preparations.....				.6	(*)	(*)	2.1	.8	.7		(*)	7.9
30	Paints and allied products.....							.3	.5		2.9	(*)	.3
31	Petroleum refining and related industries.....	(*)	(*)	4.5	5.0	.5	1.5	1.1	1.3	(*)	.6	(*)	1.4
32	Rubber and miscellaneous plastics products.....			.2	2.2	.2	1.1	1.5	1.6	.7	1.7	(*)	2.5
33	Leather tanning and finishing.....												
34	Footwear and other leather products.....	(*)	(*)		.3	.2	(*)	2.8	.2		(*)	.8	.2
35	Glass and glass products.....	(*)	(*)	(*)	1.1	.1	(*)	.3	.7	.9	2.1	(*)	1.7
36	Stone and clay products.....	(*)	(*)	(*)	.1	(*)	(*)	5.5	.2	.3	1.1	(*)	.1
37	Primary iron and steel manufacturing.....	(*)	(*)	(*)			(*)	(*)	.1	.1			
38	Primary nonferrous metals manufacturing.....	.1		(*)				(*)					
39	Metal containers.....								.2				
40	Heating, plumbing, and structural metal products.....						.1						
41	Screw machine products and stampings.....							.5	1.1	.4	2.8		.3
42	Other fabricated metal products.....	(*)		(*)	.4	(*)	(*)	1.1	1.2	(*)	1.3	(*)	.3
43	Engines and turbines.....			1.7				.8	1.6		.8		
44	Farm and garden machinery.....				.1		.4		3.1				
45	Construction and mining machinery.....												
46	Materials handling machinery and equipment.....				.3				.2				
47	Metalworking machinery and equipment.....				.3			(*)	.2	.3	(*)		
48	Special industry machinery and equipment.....								.7				
49	General industrial machinery and equipment.....			.3	(*)	(*)	(*)	1.0	2.8	.1	3.5	(*)	(*)
50	Miscellaneous machinery, except electrical.....				1.1	(*)	(*)						
51	Office, computing, and accounting machines.....	(*)	(*)	.1	.2	.4	(*)	1.2	1.4				.1
52	Service industry machines.....				1.1			1.0	.3		10.5	.1	.2
53	Electric industrial equipment and apparatus.....			.2				1.4	1.9		.1		
54	Household appliances.....	(*)	(*)	(*)	.1	(*)	(*)	2.4	2.2		(*)	(*)	(*)
55	Electric lighting and wiring equipment.....			1.4	.1			.2		.1	(*)	(*)	.9
56	Radio, TV, and communication equipment.....	3.3	(*)	(*)	.4	.1	(*)	(*)	(*)		(*)	(*)	.1
57	Electronic components and accessories.....	5.5	(*)	(*)	.1	.2	(*)	3.8	2.3		(*)	(*)	.3
58	Misc. electrical machinery and supplies.....	.1	(*)	(*)	1.0	.2	(*)	2.2	3.3		(*)	(*)	.1
59	Motor vehicles and equipment.....	(*)	(*)	(*)	.1	(*)	(*)	(*)	(*)		8.8	(*)	(*)
60	Aircraft and parts.....												
61	Other transportation equipment.....	.1	(*)	(*)	.1	.1	(*)	.3	.7		.1	.1	.2
62	Scientific and controlling instruments.....	(*)	(*)	(*)	.1	(*)	(*)	1.0	.1		(*)	(*)	9.1
63	Optical, ophthalmic, and photographic equipment.....	.1	(*)	.2	.7	.6	.1	3.6	6.7		(*)	1.6	5.8
64	Miscellaneous manufacturing.....	.1	(*)	.1	.9	.7	.2	4.8	2.3	.5	(*)	.3	2.3
65	Transportation and warehousing.....	.1	(*)	.6	3.6	.4	.3	3.3	1.9		.4	.1	1.1
66	Communications, except radio and TV.....	1.4	4.4	.7	10.0	5.9	1.0	1.4	4.4	1.0	.5	.3	2.5
67	Radio and TV broadcasting.....		100.0										
68	Electric, gas, water, and sanitary services.....	.4	.1	19.5	5.6	1.1	1.5	1.1	.7	1.3	.3	.3	3.0
69	Wholesale and retail trade.....	(*)	(*)	.2	1.4	.2	.2	.3	.4	1.4	.7	.1	.5
70	Finance and insurance.....	.4	.1	.7	3.8	20.1	4.3	.7	1.1	.7	.4	.3	1.3
71	Real estate and rental.....	.4	.2	.3	5.1	1.4	6.7	1.2	1.8	1.2	.5	.5	2.8
72	Hotels, personal and repair services exc. auto.....	.5	.1	.8	3.1	1.0	.7	3.2	2.5	1.8	.1	.4	2.8
73	Business services.....	1.1	.3	.9	13.8	6.8	2.8	1.9	6.1	1.5	.6	.6	4.0
74	Eating and drinking places.....	.3	(*)	.3	5.0	2.8	.6	1.4	1.8		.1	.6	2.4
75	Automobile repair and services.....	.4	(*)	.6	11.7	1.3	1.4	1.7	3.6	.1	.3	.6	1.2
76	Amusements.....	.1	(*)	.1	.3	.3	.1	(*)	1.3	3.3	(*)	15.6	1.3
77	Medical, educ. services and nonprofit org.....	(*)	(*)	(*)	.6	.7	(*)	.1	.2	.2	(*)	(*)	1.6
78	Federal Government enterprises.....	1.4		1.7	10.5	15.3	5.5	6.2	6.6	.6	.1	.3	7.1
79	State and local government enterprises.....	.6	.2	.4	5.7	.9	2.1	1.3	.8	1.2	.6	.2	1.7
80	Noncomparable imports.....	2.5	(*)	.1	1.0	.9	.2	.1	.4	.1	(*)	1.4	.5
81	Scrap, used, and secondhand goods.....			(*)	.5			(*)	(*)		4.4		
82	Government industry.....												
83	Rest of the world industry.....												
84	Household industry.....												
85	Inventory valuation adjustment.....												
VA	Value added.....	2.2	.2	2.1	14.0	3.7	11.9	1.5	4.0	1.8	1.0	.6	4.9

* Less than 0.05 percent.

Table 2.—The Make of Commodities

[Percent distribution]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity. Commodity number	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 products	Tobacco manufactures
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Livestock and livestock products.....	100.0		2.6	6.4										1.9	
2	Other agricultural products.....		100.0	9.7	8.1										.1	
3	Forestry and fishery products.....			87.8												
4	Agricultural, forestry, and fishery services.....		(*)		85.6											
5	Iron and ferroalloy ores mining.....					94.8	0.2									
6	Nonferrous metal ores mining.....					5.2	99.7									
7	Coal mining.....							100.0								
8	Crude petroleum and natural gas.....								99.7							
9	Stone and clay mining and quarrying.....						.1	(*)		94.1	0.1					
10	Chemical and fertilizer mineral mining.....									.1	99.9					
11	New construction.....											100.0				
12	Maintenance and repair construction.....												100.0			
13	Ordnance and accessories.....													92.7		
14	Food and kindred products.....		(*)												97.9	
15	Tobacco manufactures.....															100.0
16	Broad and narrow fabrics, yarn and thread mills.....															
17	Miscellaneous textile goods and floor coverings.....															
18	Apparel.....															
19	Miscellaneous fabricated textile products.....															
20	Lumber and wood products, except containers.....															
21	Wood containers.....															
22	Household furniture.....															
23	Other furniture and fixtures.....													(*)		
24	Paper and allied products, except containers.....															(*)
25	Paperboard containers and boxes.....															
26	Printing and publishing.....															
27	Chemicals and selected chemical products.....										(*)			(*)	(*)	
28	Plastics and synthetic materials.....									1					(*)	
29	Drugs, cleaning and toilet preparations.....														.1	
30	Paints and allied products.....															
31	Petroleum refining and related industries.....									.9					(*)	
32	Rubber and miscellaneous plastics products.....													.1	(*)	
33	Leather tanning and finishing.....														(*)	
34	Footwear and other leather products.....														(*)	
35	Glass and glass products.....															
36	Stone and clay products.....									4.8					.3	
37	Primary iron and steel manufacturing.....													(*)	.1	
38	Primary nonferrous metals manufacturing.....															
39	Metal containers.....														.1	
40	Heating, plumbing, and structural metal products.....														.1	
41	Screw machine products and stampings.....														.1	
42	Other fabricated metal products.....														.1	
43	Engines and turbines.....															
44	Farm and garden machinery.....															
45	Construction and mining machinery.....														.3	
46	Materials handling machinery and equipment.....														.3	
47	Metalworking machinery and equipment.....														.3	
48	Special industry machinery and equipment.....															
49	General industrial machinery and equipment.....														(*)	
50	Miscellaneous machinery, except electrical.....															
51	Office, computing, and accounting machines.....														.1	
52	Service industry machines.....														.1	
53	Electric industrial equipment and apparatus.....														.3	
54	Household appliances.....															
55	Electric lighting and wiring equipment.....															
56	Radio, TV, and communication equipment.....														1.1	
57	Electronic components and accessories.....														.1	
58	Misc. electrical machinery and supplies.....														.3	
59	Motor vehicles and equipment.....														3.4	
60	Aircraft and parts.....															
61	Other transportation equipment.....														.4	
62	Scientific and controlling instruments.....														(*)	
63	Optical, ophthalmic, and photographic equipment.....														(*)	
64	Miscellaneous manufacturing.....														(*)	
65	Transportation and warehousing.....															
66	Communications, except radio and TV.....															
67	Radio and TV broadcasting.....															
68	Electric, gas, water, and sanitary services.....									2						
69	Wholesale and retail trade.....															
70	Finance and insurance.....															
71	Real estate and rental.....															
72	Hotels; personal and repair services exc. auto.....															
73	Business services.....															
74	Eating and drinking places.....															
75	Automobile repair and services.....															
76	Amusements.....															
77	Medical, educ. services and nonprofit org.....															
78	Federal Government enterprises.....															
79	State and local government enterprises.....															
82	Government industry.....															
83	Rest of the world industry.....															
84	Household industry.....															
85	Inventory valuation adjustment.....															
T	Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

See footnote at end of table.

Table 2.—The Make of Commodities

[Percent distribution commodity output]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity. Commodity number	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	Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery except electrical
		36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
1	Livestock and livestock products.....															
2	Other agricultural products.....															
3	Forestry and fishery products.....															
4	Agricultural, forestry, and fishery services.....															
5	Iron and ferroalloy ores mining.....															
6	Nonferrous metal ores mining.....															
7	Coal mining.....															
8	Crude petroleum and natural gas.....															
9	Stone and clay mining and quarrying.....	0.4														
10	Chemical and fertilizer mineral mining.....	.1														
11	New construction.....															
12	Maintenance and repair construction.....															
13	Ordnance and accessories.....		(*)			(*)	0.4	0.1	0.3	(*)	0.2			0.1		0.1
14	Food and kindred products.....				0.6		(*)									
15	Tobacco manufactures.....															
16	Broad and narrow fabrics, yarn and thread mills.....	(*)														
17	Miscellaneous textile goods and floor coverings.....	(*)						(*)								
18	Apparel.....															
19	Miscellaneous fabricated textile products.....					(*)		(*)					(*)			
20	Lumber and wood products, except containers.....		(*)			0.2		.1								
21	Wood containers.....							(*)								
22	Household furniture.....					(*)		(*)								
23	Other furniture and fixtures.....					.1	(*)	.1		(*)	(*)	0.2	(*)		(*)	(*)
24	Paper and allied products, except containers.....	.6						.4					(*)		(*)	
25	Paperboard containers and boxes.....				(*)			.1					(*)	(*)	(*)	
26	Printing and publishing.....															
27	Chemicals and selected chemical products.....	.3	(*)	0.1			.1	(*)	.3			.1	(*)	.1	(*)	(*)
28	Plastics and synthetic materials.....															
29	Drugs, cleaning and toilet preparations.....												(*)			
30	Paints and allied products.....	(*)														
31	Petroleum refining and related industries.....	.3			(*)											
32	Rubber and miscellaneous plastics products.....	.6		(*)	.1	(*)	.2	.3			.1		1.0	.4		
33	Leather tanning and finishing.....	(*)														
34	Footwear and other leather products.....	(*)						(*)								
35	Glass and glass products.....	(*)				(*)		(*)								(*)
36	Stone and clay products.....	96.6	(*)			.1	(*)	(*)					.1		.3	
37	Primary iron and steel manufacturing.....	(*)	97.2	.7	(*)	1.5	1.5	7.0		0.3	.1		.7	.1	.6	.2
38	Primary nonferrous metals manufacturing.....	.1	.4	97.7		1.0	.3	1.7					.5	.4	.3	.5
39	Metal containers.....			(*)	98.1	.3	.1	.1		(*)			(*)	(*)	.4	
40	Heating, plumbing, and structural metal products.....	.1	.1	.1	.3	93.3	.4	.8	.2	.4	.3	.6	.2	.5	1.1	.2
41	Screw machine products and stampings.....		(*)	(*)	.6	.3	92.0	.6		.2	.1		3.4	.4	.1	.1
42	Other fabricated metal products.....	(*)	(*)	(*)	.1	.4	.6	83.1		.1	.3	.6	1.1	.4	.8	1.0
43	Engines and turbines.....		(*)	(*)	.4	.1	.1	87.9		.1	.1		1.1	.4	.4	(*)
44	Farm and garden machinery.....		(*)	(*)	.1	.1	.2	.5	93.6	1.7	.2		.2	.2	.4	
45	Construction and mining machinery.....	(*)	(*)	(*)	.1	.1	.3	3.3	1.6	93.4	2.2	.1	.3	.3	.3	.1
46	Materials handling machinery and equipment.....		(*)	(*)	.1	.1	.1	.1	.1	.7	.1	91.6	.6	.1	.8	.1
47	Metalworking machinery and equipment.....	.1	.3		(*)	(*)	(*)	.2	.1	.9	.3	.6	88.7	1.1	1.4	.6
48	Special industry machinery and equipment.....	.3	.1		(*)	(*)	(*)	.2	.2	.2	.3	.6	1.0	90.1	1.0	.3
49	General industrial machinery and equipment.....		.1		(*)	(*)	(*)	1.0	1.5	.2	.3	.8	1.4	89.4	1.0	.7
50	Miscellaneous machinery, except electrical.....	(*)	.1	(*)	.2	(*)	(*)	.1		(*)	.1	.2	.4	.2	.1	93.4
51	Office, computing, and accounting machines.....		(*)			(*)	.3	(*)						.5		.2
52	Service industry machines.....		(*)			(*)	.7	.2		.1	(*)	.5	.1	.2	1.1	.2
53	Electric industrial equipment and apparatus.....		(*)		.1	(*)	.1	.6	.6			.3	.5	.3	.9	.1
54	Household appliances.....	(*)			.2	.2	.5	.1						.1		
55	Electric lighting and wiring equipment.....	(*)	.2		.1	.1	.1	.2					.1	.5	(*)	.2
56	Radio, TV, and communication equipment.....					(*)	(*)	.7						.2		
57	Electronic components and accessories.....			(*)		(*)	(*)	.1		.1			.1	.8		
58	Misc. electrical machinery and supplies.....	(*)	.1	.4			(*)	(*)	.1	(*)		.1		.2	.1	1.3
59	Motor vehicles and equipment.....	(*)	.5	.2	(*)	.3	2.3	.6	1.4	1.3	.4	.6	.9		.5	.6
60	Aircraft and parts.....	(*)			.3	.1	(*)	(*)	3.3		.2	.5	.1	.6	1.0	.2
61	Other transportation equipment.....		.1	(*)		.2		.1	.7	.9	.9	.4		.1	.1	
62	Scientific and controlling instruments.....					.1	(*)	.3			.1		.3	.1	.3	(*)
63	Optical, ophthalmic, and photographic equipment.....	(*)		(*)									(*)	.2	(*)	(*)
64	Miscellaneous manufacturing.....	.2	(*)	(*)		(*)	.1	.2					(*)	.5	(*)	(*)
65	Transportation and warehousing.....															
66	Communications, except radio and TV.....															
67	Radio and TV broadcasting.....															
68	Electric, gas, water, and sanitary services.....		.1													
69	Wholesale and retail trade.....															
70	Finance and insurance.....															
71	Real estate and rental.....															
72	Hotels, personal and repair services exc. auto.....															
73	Business services.....															
74	Eating and drinking places.....															
75	Automobile repair and services.....															
76	Amusements.....															
77	Medical, educ. services and nonprofit org.....															
78	Federal Government enterprises.....															
79	State and local government enterprises.....		.1													
80	Government industry.....															
81	Rest of the world industry.....															
82	Household industry.....															
83	Inventory valuation adjustment.....															
T	Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

See footnote at end of table.

Table 2.—The Make of Commodities by Industries, 1972—Continued

[Percent distribution of commodity output]

Industry number	For the distribution of industries producing a commodity, read the column for that commodity. Commodity number	Real estate and rental	Hotels; personal and repair services exc. auto	Business services	Eating and drinking places	Automobile repair and services	Amusements	Medical, educ. services and nonprofit org.	Federal Government enterprises	State and local government enterprises	Scrap, used, and secondhand goods	Government industry	Rest of the world industry	Household industry	Inventory valuation adjustment
		71	72	73	74	75	76	77	78	79	81	82	83	84	85
1	Livestock and livestock products						0.3								
2	Other agricultural products						.2								
3	Forestry and fishery products														
4	Agricultural, forestry, and fishery services														
5	Iron and ferroalloy ores mining														
6	Nonferrous metal ores mining														
7	Coal mining														
8	Crude petroleum and natural gas														
9	Stone and clay mining and quarrying														
10	Chemical and fertilizer mineral mining														
11	New construction														
12	Maintenance and repair construction														
13	Ordnance and accessories										2.2				
14	Food and kindred products														
15	Tobacco manufactures										1.1				
16	Broad and narrow fabrics, yarn and thread mills										3.6				
17	Miscellaneous textile goods and floor coverings														
18	Apparel										1.4				
19	Miscellaneous fabricated textile products										.2				
20	Lumber and wood products, except containers														
21	Wood containers														
22	Household furniture														
23	Other furniture and fixtures														
24	Paper and allied products, except containers					(*)					1.3				
25	Paperboard containers and boxes										4.6				
26	Printing and publishing					14.7					8.9				
27	Chemicals and selected chemical products														
28	Plastics and synthetic materials														
29	Drugs, cleaning and toilet preparations														
30	Paints and allied products														
31	Petroleum refining and related industries										.7				
32	Rubber and miscellaneous plastics products										.5				
33	Leather tanning and finishing										.7				
34	Footwear and other leather products										(*)				
35	Glass and glass products														
36	Stone and clay products														
37	Primary iron and steel manufacturing										17.1				
38	Primary nonferrous metals manufacturing										7.8				
39	Metal containers										3.3				
40	Heating, plumbing, and structural metal products										2.9				
41	Screw machine products and stampings										8.8				
42	Other fabricated metal products					(*)					3.5				
43	Engines and turbines										.3				
44	Farm and garden machinery										.5				
45	Construction and mining machinery										.7				
46	Materials handling machinery and equipment										.2				
47	Metalworking machinery and equipment										.5				
48	Special industry machinery and equipment										.2				
49	General industrial machinery and equipment										1.2				
50	Miscellaneous machinery, except electrical										.5				
51	Office, computing, and accounting machines										.4				
52	Service industry machines										1.6				
53	Electric industrial equipment and apparatus										2.0				
54	Household appliances										.8				
55	Electric lighting and wiring equipment										.7				
56	Radio, TV, and communication equipment										1.4				
57	Electronic components and accessories										1.3				
58	Misc. electrical machinery and supplies										1.1				
59	Motor vehicles and equipment										9.7				
60	Aircraft and parts										1.0				
61	Other transportation equipment										1.8				
62	Scientific and controlling instruments					(*)					.7				
63	Optical, ophthalmic, and photographic equipment					(*)					.3				
64	Miscellaneous manufacturing					.7					.9				
65	Transportation and warehousing					(*)					3.2				
66	Communications, except radio and TV					1.0									
67	Radio and TV broadcasting					5.0									
68	Electric, gas, water, and sanitary services							.5							
69	Wholesale and retail trade														
70	Finance and insurance	0.1		.4											
71	Real estate and rental	99.8													
72	Hotel; personal and repair services exc. auto	.1	100.0												
73	Business services			77.9											
74	Eating and drinking places				99.6										
75	Automobile repair and services					99.1									
76	Amusements			.2			98.7								
77	Medical, educ. services and nonprofit org.							100.0							
78	Federal Government enterprises				.4				100.0						
79	State and local government enterprises					.9				100.0					
82	Government industry										100.0				
83	Rest of the world industry												100.0		
84	Household industry													100.0	
85	Inventory valuation adjustment														100.0
T	Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

*Less than 0.05 percent.

Table 3.—Commodity-by-Industry Direct Requirements, 1972

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

Commodity number	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
		1	2	3	4	5	6	7	8	9	10	11	12	13
1	Livestock and livestock products.....	0.26110	0.02481	-----	0.05278	-----	-----	-----	-----	-----	-----	-----	-----	-----
2	Other agricultural products.....	.23277	.03218	-----	.01444	-----	-----	-----	0.00002	-----	-----	0.00121	0.00013	0.00008
3	Forestry and fishery products.....	-----	-----	0.00467	0.0294	-----	-----	-----	-----	-----	-----	-----	-----	-----
4	Agricultural, forestry, and fishery services.....	.02821	.03673	.02502	.02959	-----	-----	-----	-----	-----	-----	0.00076	.00012	.00001
5	Iron and ferroalloy ores mining.....	-----	-----	-----	-----	0.01972	-----	0.00029	-----	-----	-----	-----	-----	-----
6	Nonferrous metal ores mining.....	-----	-----	-----	-----	.00268	0.11396	-----	0.0002	-----	-----	-----	-----	-----
7	Coal mining.....	-----	.00002	-----	-----	.00357	.00018	.12054	-----	0.00070	0.00142	-----	-----	.00091
8	Crude petroleum and natural gas.....	-----	-----	-----	-----	-----	-----	-----	.03346	-----	-----	-----	-----	-----
9	Stone and clay mining and quarrying.....	.00001	.00251	-----	.00034	.00511	.00031	-----	.00003	.02104	.01704	.00795	.01035	-----
10	Chemical and fertilizer mineral mining.....	-----	.00130	-----	-----	-----	-----	-----	-----	-----	.03253	-----	-----	-----
11	New construction.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
12	Maintenance and repair construction.....	.00517	.00867	-----	.01584	.02637	.00744	.00831	.04123	.00681	.01175	.00025	.00039	.00458
13	Ordnance and accessories.....	-----	-----	-----	.00003	-----	-----	-----	.00001	-----	-----	.00008	.00003	.04960
14	Food and kindred products.....	.12284	.00003	.02355	.00729	.00008	.00009	.00006	.00022	.00011	.00039	.00021	.00031	.00104
15	Tobacco manufactures.....	.00001	.00001	.00005	.00011	.00008	.00004	.00002	.00005	.00004	.00013	.00006	.00009	.00027
16	Broad and narrow fabrics, yarn and thread mills.....	-----	.00027	-----	-----	-----	.00026	.00208	-----	-----	.00065	-----	-----	-----
17	Miscellaneous textile goods and floor coverings.....	.00030	.00154	.02649	.01195	-----	.00004	-----	-----	-----	-----	.00547	.00151	.00013
18	Apparel.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	.00007	.00012	.00222
19	Miscellaneous fabricated textile products.....	-----	.00055	.01142	.00367	-----	-----	-----	-----	-----	-----	.00003	.00061	.00076
20	Lumber and wood products, except containers.....	.00013	.00009	-----	-----	.00203	.00463	.00689	-----	-----	.00077	.06865	.02282	.00132
21	Wood containers.....	.00002	.00345	-----	.00468	-----	-----	-----	-----	-----	-----	-----	-----	.00489
22	Household furniture.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	.00069	.00026	-----
23	Other furniture and fixtures.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	.00225	.00090	-----
24	Paper and allied products, except containers.....	.00157	.00052	.00005	.00101	-----	.00004	.00243	.00011	.00429	.00310	.00270	.00241	.00048
25	Paperboard containers and boxes.....	.00002	.00014	-----	.03253	-----	-----	-----	-----	-----	-----	.00004	(*)	.00333
26	Printing and publishing.....	.00020	.00021	.00213	.00275	.00016	.00018	.00015	.00012	.00039	.00026	.00019	.00031	.00060
27	Chemicals and selected chemical products.....	.00210	.08595	.01198	.03040	.01785	.03383	.01022	.00633	.01384	.02130	.00253	.00318	.00534
28	Plastics and synthetic materials.....	-----	-----	-----	-----	-----	.00009	-----	-----	-----	-----	-----	-----	.00091
29	Drugs, cleaning and toilet preparations.....	.00173	-----	.00010	-----	-----	-----	-----	-----	-----	-----	.00013	-----	.00035
30	Paints and allied products.....	-----	.00431	-----	-----	-----	-----	-----	-----	-----	-----	.00434	.02913	.00044
31	Petroleum refining and related industries.....	.00421	.02501	.02492	.02005	.01014	.01106	.01441	.00368	.03007	.01691	.01539	.03122	.00284
32	Rubber and miscellaneous plastics products.....	.00312	.00614	.00173	.00112	.01201	.01968	.00869	.00025	.00987	.00361	.00886	.00998	.00340
33	Leather tanning and finishing.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
34	Footwear and other leather products.....	.00036	-----	-----	.00095	-----	-----	-----	.00003	-----	-----	.00002	.00004	.00011
35	Glass and glass products.....	.00007	-----	.00015	.00039	.00032	.00044	.00004	.00024	.00014	.00013	.000126	.00015	.00022
36	Stone and clay products.....	-----	.00029	-----	.00266	.00138	.00700	.00483	.00021	.00056	.00039	.01787	.03223	.00114
37	Primary iron and steel manufacturing.....	.00014	.00013	-----	.00003	.03684	.02137	.00983	.00658	.02297	.02337	.01905	.00783	.05877
38	Primary nonferrous metals manufacturing.....	-----	-----	-----	-----	.00438	.00145	.00268	-----	.00383	.00142	.01942	.00351	.03412
39	Metal containers.....	-----	-----	.01984	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
40	Heating, plumbing, and structural metal products.....	.00011	.00010	-----	-----	-----	.00004	.00002	.00097	.00172	.00232	.08400	.02869	-----
41	Screw machine products and stampings.....	.00030	-----	-----	-----	.00154	.00344	.01231	-----	.00190	.00723	.00043	.00065	.00936
42	Other fabricated metal products.....	.00102	.00151	.02111	.00855	.01201	.00828	.00362	.00456	.00773	.00219	.02415	.01099	.00960
43	Engines and turbines.....	-----	-----	.00908	.00502	.00373	.00313	.00156	.00255	.01184	.00800	-----	-----	-----
44	Farm and garden machinery.....	.00402	.00804	-----	.00533	-----	-----	-----	-----	-----	-----	-----	-----	-----
45	Construction and mining machinery.....	-----	-----	-----	-----	.01801	.02106	.04741	.00660	.03758	.02388	.00212	.00231	-----
46	Materials handling machinery and equipment.....	-----	-----	-----	-----	.00211	.00242	.00277	-----	.00913	.00387	.00365	.00631	-----
47	Metalworking machinery and equipment.....	-----	-----	-----	-----	.00032	.00031	.00018	.00017	.00007	-----	.00011	.00019	.00651
48	Special industry machinery and equipment.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
49	General industrial machinery and equipment.....	.00009	.00031	.00873	.00006	.00333	.00057	.00103	.00407	.00527	.00400	.00319	.00123	.00349
50	Miscellaneous machinery, except electrical.....	.00016	.00019	-----	-----	-----	.00383	.00064	.00414	.00081	-----	.00008	.00021	.00419
51	Office, computing, and accounting machines.....	-----	-----	-----	.00003	-----	-----	-----	-----	-----	-----	(*)	(*)	-----
52	Service industry machines.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	.01018	.01983	-----
53	Electric industrial equipment and apparatus.....	-----	-----	-----	-----	.00235	.00123	.00055	.00681	.00162	.00258	-----	.00641	.00135
54	Household appliances.....	-----	-----	-----	-----	-----	-----	-----	.00001	-----	-----	-----	.00182	.00003
55	Electric lighting and wiring equipment.....	.00005	.00003	.00127	-----	.00041	.00044	.00213	.00034	.00035	.00013	.01372	.01746	.00004
56	Radio, TV, and communication equipment.....	(*)	(*)	.00005	.00006	-----	-----	.00002	.00019	.00004	-----	.00081	.00168	.01755
57	Electronic components and accessories.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	.01767
58	Misc. electrical machinery and supplies.....	.00026	.00086	.00010	.00244	.00016	.00084	.00007	.00003	.00018	.00013	.00041	.00049	.00001
59	Motor vehicles and equipment.....	.00045	.00046	.00005	.00449	.01947	.00093	.00022	.00011	.00636	.00194	.00029	.00048	.00177
60	Aircraft and parts.....	-----	-----	.00005	.00160	-----	-----	-----	.00019	-----	-----	-----	-----	.05421
61	Other transportation equipment.....	-----	-----	.03258	.00093	.00162	.00128	-----	-----	-----	-----	.00065	.00001	.00001
62	Scientific and controlling instruments.....	(*)	(*)	.00411	.00003	-----	.00022	.00013	.00048	-----	-----	.00322	.00344	.00415
63	Optical, ophthalmic, and photographic equipment.....	.00001	(*)	.00005	.00050	-----	.00004	.00002	.00003	.00011	-----	.00011	.00005	.00014
64	Miscellaneous manufacturing.....	.00008	.00009	.00360	.00154	.00219	.00185	.00073	.00030	.00119	.00542	.00134	.00379	.00051
65	Transportation and warehousing.....	.01518	.01397	.01974	.03646	.02142	.01236	.00968	.00605	.01208	.01898	.02563	.02565	.01211
66	Communications, except radio and TV.....	.00268	.00265	.00208	.00620	.00073	.00079	.00094	.00260	.00109	.00142	.00257	.00398	.00616
67	Radio and TV broadcasting.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
68	Electric, gas, water, and sanitary services.....	.00824	.00706	.00046	.01099	.06669	.03414	.02019	.01321	.03727	.08843	.00119	.00179	.01123
69	Wholesale and retail trade.....	.03342	.04029	.03375	.03752	.03337	.02969	.03065	.00518	.03035	.01614	.07767	.07502	.01434
70	Finance and insurance.....	.01311	.01423	.01259	.01470	.00519	.01502	.00663	.00636	.01465	.01859	.00577	.08005	.00464
71	Real estate and rental.....	.02325	.10289	.00812	.03009	.20795	.01947	.04110	.15222	.03800	.04596	.00547	.00841	.00680
72	Hotels; personal and repair services exc. auto.....	.00001	.00002	.00330	.00625	.00057	.00132	.00073	.00090	.00200	.00090	.00021	.00034	.00353
73	Business services.....	.00427	.01411	.02456	.07317	.03164	.01956	.02639	.02209	.03600	.03770	.05918	.01664	.03935
74	Eating and drinking places.....	.00040	.00039	.00213	.00791	.00122	.00145	.00130	.00566	.00098	.00232	.00399	.00617	.02059
75	Automobile repair and services.....	.00275	.00301	.01066	.01820	.00269	.00358	.00144	.00102	.00260	.00337	.00337	.00438	.00226
76	Amusements.....	.00001	.00001	.00005	.00017	.00008	.00004	.00004	.00010	.00004	.00013	.00009	.00014	.00044
77	Medical, educ. services and nonprofit org.....	.00519	.00035	.00061	.00421	.00105	.00132	.00119	.00038	.00133	.00090	.00047	.00072	.00177
78	Federal Government enterprises.....	.00014	.00013	.00030	.00160	.00146	.00088	.00057	.00056	.00053	.00349	.00028	.00043	.00281
79	State and local government enterprises.....	-----	-----	.00020	.00028	.00308	.00066	.00023	.00039	.00095	.00129	.00005	.00	

Table 3.—Commodity-by-Industry

[Direct requirements per dollar of

Commodity number	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
		14	15	16	17	18	19	20	21	22	23	24	25	26
1	Livestock and livestock products.....	0.21986		0.00339	0.00975									
2	Other agricultural products.....	.07325	0.16850	.05988	.00304	0.00049		0.00001		0.00003		0.00078	0.00003	0.00006
3	Forestry and fishery products.....	.00656				.00239		.08033				.00020		
4	Agricultural, forestry, and fishery services.....					.00014		.00058	0.00043	.00045		.00015	.00006	.00013
5	Iron and ferroalloy ores mining.....													
6	Nonferrous metal ores mining.....											.00015		
7	Coal mining.....	.00030	.00018	.00059	.00030	.00005	0.00032	.00182		.00027	0.00078	.00058	.00015	.00001
8	Crude petroleum and natural gas.....													
9	Stone and clay mining and quarrying.....	.00006										.00392		
10	Chemical and fertilizer mineral mining.....	.00005		.00003								.00030		
11	New construction.....													
12	Maintenance and repair construction.....	.00194	.00081	.00245	.00158	.00070	.00075	.00360	.00258	.00207	.00239	.00983	.00563	.00353
13	Ordinance and accessories.....	(*)		.00001		(*)						.00001	.00001	.00001
14	Food and kindred products.....	.18067	.00070	.00197	.00139	.00038	.00254	.00019	.00021	.00448	.00040	.00824	.00018	.00057
15	Tobacco manufactures.....	.00003	.21846	.00005	.00003	.00004	.00008	.00004	.00021	.00007	.00016	.00008	.00005	.00014
16	Broad and narrow fabrics, yarn and thread mills.....	.00003		.30002	.25831	.21899	.31594			.05823	.00539	.00860		.00041
17	Miscellaneous textile goods and floor coverings.....	.00011		.00784	.00707	.00314	.10944	.00046		.02201	.01993	.00529		.00104
18	Apparel.....	.00022	.00001	.00071	.01128	.25370	.00796	.00050		.00379	.00590	.00047	.00058	.00062
19	Miscellaneous fabricated textile products.....	.00045	.00002	.00008	.00545	.01281	.03340	.00032		.00201	.00708	.00002	.00001	.00007
20	Lumber and wood products, except containers.....	.00017	.00016	.00305	.00158	.00062	.00240	.29442	.40412	.14274	.06846	.08195	.00010	
21	Wood containers.....	.00060	.00051					.00006	.11038	.00026	.00013	.00007		
22	Household furniture.....							.00007		.00477	.00046			
23	Other furniture and fixtures.....										.01146			
24	Paper and allied products, except containers.....	.00852	.00841	.00126	.00305	.00280	.01005	.00139	.00043	.00136	.00040	.17409	.40020	.14488
25	Paperboard containers and boxes.....	.02037	.00776	.00670	.00876	.00860	.01098	.00316		.01778	.01178	.01794	.01826	.00226
26	Printing and publishing.....	.00556	.00681	.00029	.00039	.00095	.00209	.00020	.00043	.00145	.00107	.00044	.00008	.00008
27	Chemicals and selected chemical products.....	.00352	.00010	.02671	.02487	.00389	.00118	.00982		.00158	.00233	.03474	.01906	.01439
28	Plastics and synthetic materials.....			.13482	.11879	.01725	.00514	.00153			.00048	.01354	.00889	.00006
29	Drugs, cleaning and toilet preparations.....	.00308	.00104	.00353	.00124	.00162						.00125		
30	Paints and allied products.....	(*)		.00028	.00112				.00443	.01029	.00810	.00046		.00035
31	Petroleum refining and related industries.....	.00238	.00085	.00250	.00324	.00186	.00144	.01255	.00429	.00283	.00244	.01125	.00618	.00188
32	Rubber and miscellaneous plastics products.....	.00928	.01121	.00499	.02794	.00334	.02361	.00605	.00043	.05423	.05486	.02026	.00144	.00614
33	Leather tanning and finishing.....					.00461	.00644			.00198	.00097			.00011
34	Footwear and other leather products.....	.00001		.00002		.00002		.00015				.00004	.00003	.00006
35	Glass and glass products.....	.01424	.00004	.00356	.00391	.00001		.00219		.00618	.00794	.00006	.00003	.00003
36	Stone and clay products.....	.00050	.00028	.00074	.00060	.00033	.00037	.00928	.00043	.00639	.00416	.00229	.00053	.00081
37	Primary iron and steel manufacturing.....	.00040	.00017	.00028	.00044	.00022	.00028	.00316	.04166	.01745	.08968	.00040	.00413	.00032
38	Primary nonferrous metals manufacturing.....							.00053		.00672	.00842	.00107	.00145	.00181
39	Metal containers.....	.02924	.00005											
40	Heating, plumbing, and structural metal products.....							.00188						
41	Screw machine products and stampings.....	.00197						.00420	.00193	.00676	.01840			(*)
42	Other fabricated metal products.....	.00200	.00349	.00089		.00065		.03348	.00172	.05938	.04829	.00661	.00135	.00158
43	Engines and turbines.....													
44	Farm and garden machinery.....													
45	Construction and mining machinery.....							.00014						
46	Materials handling machinery and equipment.....	(*)		.00122	.00040	.00018		.00117				.00010	.00222	.00011
47	Metalworking machinery and equipment.....	.00008	.00004					.00049		.00010	.00129	.00014	.00222	.00014
48	Special industry machinery and equipment.....	.00055		.00701	.00520	.00092	.00018	.00230	.00193	.00106	.00106	.00310	.00942	.00276
49	General industrial machinery and equipment.....	.00052	.00045	.00024	.00225	.00031	.00004	.00135	.00021	.00010	.00188	.00099	.00028	.00003
50	Miscellaneous machinery, except electrical.....	.00031	.00037	.00128	.00096	.00039	.00053	.00161	.00193	.00100	.00089	.00103	.00127	.00032
51	Office, computing, and accounting machines.....					(*)								.00001
52	Service industry machines.....	.00026		.00012				.00034						
53	Electric industrial equipment and apparatus.....							.00034			.00196			
54	Household appliances.....			.00005		.00061	.00097	.00003						.00001
55	Electric lighting and wiring equipment.....	.00002		.00004	.00007	.00001		.00046		.00054	.00019	.00007	.00004	.00003
56	Radio, TV, and communication equipment.....	.00002	.00001	.00003	.00003	.00003	.00002	.00003		.00005	.00011	.00004	.00003	.00011
57	Electronic components and accessories.....			.00046										
58	Misc. electrical machinery and supplies.....	.00002		.00001		.00002		.00021		.00003			.00003	.00003
59	Motor vehicles and equipment.....	.00011	.00004	.00004	.00002	.00005	.00002	.00174	.00021	.00014	.00008	.00002	.00005	.00009
60	Aircraft and parts.....	.00001	.00001	.00002				.00001				.00003		.00001
61	Other transportation equipment.....							.00009						
62	Scientific and controlling instruments.....	.00007		.00061		(*)		.00043	.00064	.00047		.00104	.00001	.00002
63	Optical, ophthalmic, and photographic equipment.....	.00004	.00002	.00085	.00136	.00009	.00010	.00009		.00054	.00011	.00009	.00009	.00762
64	Miscellaneous manufacturing.....	.00008	.00002	.00011	.00037	.01534	.00644	.00078	.00107	.00284	.00255	.00026	.00110	.00247
65	Transportation and warehousing.....	.02665	.01806	.01831	.02682	.01271	.02262	.03276	.04552	.02821	.03431	.04798	.05238	.03338
66	Communications, except radio and TV.....	.00156	.00066	.00269	.00406	.00373	.00439	.00190	.00344	.00347	.00309	.00218	.00423	.01083
67	Radio and TV broadcasting.....													
68	Electric, gas, water, and sanitary services.....	.00747	.00181	.01511	.01262	.00547	.00579	.01061	.01074	.00695	.01060	.02919	.00871	.00605
69	Wholesale and retail trade.....	.04301	.00406	.04104	.04476	.03658	.04239	.04201	.05991	.05392	.04142	.04502	.02787	.02645
70	Finance and insurance.....	.00465	.00391	.00378	.00339	.00630	.00635	.00809	.01890	.00856	.01116	.00494	.00410	.00927
71	Real estate and rental.....	.00468	.00246	.00674	.01403	.00971	.01708	.00723	.00709	.01230	.01838	.01546	.01374	.04184
72	Hotels; personal and repair services exc. auto.....	.00227	.00309	.00195	.00547	.00354	.00591	.00159	.00150	.00194	.00483	.00455	.00612	.00947
73	Business services.....	.02831	.04771	.01636	.02301	.01986	.01746	.01517	.01439	.02738	.02307	.02388	.02154	.05261
74	Eating and drinking places.....	.00159	.00110	.00299	.00228	.00326	.00274	.00253	.00387	.00389	.00555	.00371	.00350	.01147
75	Automobile repair and services.....	.00270	.00069	.00101	.00138	.00104	.00128	.00797	.00279	.00294	.00483	.00138	.00234	.00371
76	Amusements.....	.00011	.00014	.00006	.00005	.00014	.00028	.00015	.00021	.00010	.00016	.00010	.00008	.00039
77	Medical educ. services and nonprofit org.....	.00062	.00028	.00178	.00069	.00173	.00384	.00123	.00150	.00216	.00298	.00086	.00104	.00272
78	Federal Government enterprises.....	.00085	.00198	.00111	.00107	.00243	.00162	.00057	.00129	.00125	.00153	.00097	.00102	.01403
79	State and local government enterprises.....	.00012	.00001	.00005	.00003	.00004	.00002	.00031		.00010	.00003	.00114	.00005	.00009
80	Noncomparable imports.....	.01172	.00221	.00045	.00401	.00040	.00030	.00024	.00043	.00054	.00067	.00033	.00028	.00094
81	Scrap, used, and secondhand goods.....	.00055	.00055	.00144	.00530	.00019	.00049	.00053	.00021	.00026	.00027	.01465	.00010	.00029
VA	Value added.....	.27565	.48073	.30640	.25843	.33756	.32422	.37909	.35194	.40409	.44582	.38618	.37561	.48232
EC	Compensation of employees.....	.14492	.07942	.25166	.19309	.29852	.27562	.23197	.31265	.31684	.36359	.25672	.3	

Direct Requirements, 1972—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 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	Commodity number
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
0.00124	0.00003	0.00026	0.00571	0.00001	0.00002			0.00002	0.00002	0.00001	0.00001		0.00003	0.00003	0.00002	0.00004	0.00002	0.00004		1
.00036		.00113	.00379						.00009											2
.00022	.00017	.00023	.00008	.00005	.00027		0.00002	.00082	.00026	.00011	.00041	0.00049	.00066	.00036	.00028	.00011	.00016	.00006		3
.00171			.00044						.00111	.00058										4
.00617	.00011		.00197		.00002				.00187	.00074	.00074		.00108							5
.00458	.00441	.00019	.00003	.00113	.00048	0.00066	.00004	.00027	.00187	.00074	.00074		.00108							6
.00238	.00103		.00047	.00113	.00048				.00187	.00074	.00074		.00108							7
.00552		.00062	.00047	.00078	.00063			.00861	.00136	.00279	.00011		.00007							8
.01228	.00005		.00211	.00001	.00089	.00094		.00027	.00174	.00086	.00001			.00030						9
														.00001						10
.00852	.00878	.00515	.00274	.01728	.00501	.00217	.00124	.00772	.00753	.01271	.00363	.00209	.00221	.00369	.00375	.00185	.00196	.00496	.00213	11
.00001	.00001	.00001	.00003	(*)	.00001				.00001	.00001			.00001				.00002	.00001		12
.00903	.00356	.01291	.02302	.00136	.00031	.41711	.00212	.00020	.00062	.00017	.00018	.00006	.00033	.00020	.00027	.00033	.00144	.00025	.00039	13
.00010	.00009	.00015	.00011	.00003	.00007	.00009	.00013	.00007	.00010	.00004	.00005	.00002	.00010	.00003	.00007	.00004	.00007	.00008	.00014	14
	.00198			.00003	.00007		.00013		.00010		.00003		.00010							15
		.00003		.00003	.00007		.00013		.00010		.00003		.00010							16
.00015	.00026	.00008	.00003	.00005	.00081		.00033	.00068	.00013	.00039	.00016	.00029	.00047	.00064	.00058	.00042	.00038	.00033	.00007	17
.00049	.00002	.00038	.00003	(*)	.00020		.00203	.00054	.00001	.00011	.00028	.00060	.00032	.00185	.00027	.00002	.00002	.00003		18
.00221	.00042	.00015	.00019	.00019	.00048		.00085	.01152	.00783	.00408	.00413	.00152	.00300	.00235	.00852		.00258	.00244	.00167	19
								.00236	.00020	.00036	.00087		.00035	.00164	.00035		.00081	.00044	.00075	20
										.00044									.00053	21
.00656	.01919	.00750	.00199	.00307	.00885	.00028	.00846	.00335	.01633	.00051	.00091	.00177	.00211	.00363	.00039	.00055	.00029	.00030	.00043	22
.00473	.01056	.02409	.00837	.00334	.01432	.00047	.01378	.04580	.00457	.00099	.00177	.00731	.00564	.00581	.01003	.00262	.00285	.00046		23
.00067	.00054	.00419	.00861	.00010	.00061	.00019	.00060	.00170	.00042	.00092	.00038	.04595	.00038	.00035	.00047	.00035	.00048	.00053	.00064	24
.20498	.32177	.06492	.20897	.02633	.04476	.06580	.00841	.02513	.00248	.01858	.01412	.00244	.00178	.00517	.01502	.00007	.00014	.00058	.00021	25
.00853	.03796	.09532	.00003	.13939	.00051		.00051	.00430	.00042	.00092	.00038	.04595	.00038	.00035	.00047	.00035	.00048	.00053	.00064	26
.00084	.00549	.05438	.00216	.00331	.00021	.03558	.00174	.00052	.00004	.00001	.00107	.00091	.00091	.00080	.00070					27
.00178	.00177	.00120	.01019	.00009	.00115		.00071	.00226	.00194	.00046	.00136	.01879	.00905	.00186	.00772	.00039	.00248	.00176	.00068	28
.01161	.00829	.00582	.01454	.07416	.00299	.00461	.00216	.00365	.00962	.00473	.00465	.00168	.00319	.00298	.00348	.00299	.00257	.00289	.00348	29
.00694	.01718	.04488	.00247	.00171	.04310	.00009	.06789	.04161	.00568	.00109	.00726	.00107	.00490	.00746	.02563	.00357	.03299	.01781	.02062	30
					.00005	.08491	.17330													31
.00022	.00004	.00007	.00006	.00003	.00005		.00005		.00003	.00005	.00001		.00003					.00004	.00004	32
.00043	.00053	.01618	.00004	.00008	.00429	.00009		.08262	.00068	.00011	.00042	.00002	.00792	.00087	.00136	.00007	.00004	.00003		33
.00186	.00038	.00068	.00526	.00287	.00214	.00339	.00026	.01469	.01026	.00688	.00258	.00113	.00300	.00282	.00515	.00073	.00240	.00742	.00174	34
.00520	.00028	.00003	.00158	.00041	.00728	.00019	.00073	.00240	.00610	.19298	.00770	.34150	.23419	.25665	.13342	.13173	.12970	.14383	.13820	35
.00955	.00106	.00039	.01086	.00148	.00092		.00386	.00163	.00225	.02150	.40345	.08772	.07466	.04543	.06428	.04844	.00850	.00604	.02603	36
.00884	.00210	.02401	.05717	.00894					.00010	.00043		.00136		.00170	.00036	.00024	.02141		.00580	37
									.00007	.00110			.01426		.00024	.02141			.00580	38
.00014		.00447	.00033		.00736		.00627	.00270	.00032	.00658	.00186	.00055	.02202	.03019	.01786	.02180	.02501	.01164	.00992	39
.00188	.00108	.00566	.00357	.00161	.01002		.01197	.00054	.01144	.01158	.00733	.01123	.03572	.01456	.03833	.01197	.01159	.01034	.01557	40
									.00027	.00010			.00006		.00170	.11302	.06109	.03175	.01522	41
									.00191	.00017	.00053	.00002	.00006	.00030	.00018	.00065	.04338			42
									.00115	.00017	.00080	.00053	.00002	.00030	.00018	.00065	.04338			43
	.00046	.00015		.00002	.00010		.00115		.00233	.00018	.000726	.000846	.00563	.00635	.00781	.01027	.00786	.01241	.03801	44
.00844	.00461			.00026	.00266		.00384	.00593	.00019	.00083	.000747	.00649	.00152	.00595	.00081	.00212	.01940	.05272	.05244	45
.00623	.00219	.00076	.00006	.00136	.00068	.00009	.00004	.00073	.00091	.01747	.00649	.00152	.00595	.00081	.00212	.01940	.05272	.05244	.05540	46
.00073	.00094	.00034	.00022	.00023	.00232	.00075	.00117	.00322	.00162	.00492	.00296	.00263	.00697	.01668	.00850	.03497	.01374	.01716	.02372	47
					(*)					.00117										48
.00063									.00010	.00010			.00214		.00023					49
.00043									.00084	.00083	.00804	.00328	.00918	.00130	.00393	.00809	.00773	.01153	.03573	50
.00001		.00002		(*)	(*)	.00084	.00038		.00083	.00804	.00328	.00918	.00130	.00393	.00809	.00773	.01153	.03573		51
.00006	.00007	.00004	.00006	.00008	.00101		.00084	.00038	.00083	.00804	.00328	.00918	.00130	.00393	.00809	.00773	.01153	.03573		52
.00008	.00004	.00012	.00006	.00002	.00004	.00004	.00004	.00007	.00007	.00003	.00003	.00002	.00006	.00003	.00006	.00004	.00005	.00014	.00014	53
									.00160	.00270	.00074	.00004	.00036	.00065	.00005	.00002	.00147	.00004	.00014	54
.00001	.00001	.00003	.00006	.00001	.00001				.00003	.00010	.00003	.00004	.00023	.00024	.00001	.01210	.00773	.00108	.00231	55
.00003	.00001	.00003	.00006	.00001	.00001				.00003	.00010	.00003	.00004	.00023	.00024	.00001	.01210	.00773	.00108	.00231	56
.00001	.00002	.00001	.00006	.00001	.00002				.00001	.00001	.00001	.00001	.00004	.00057	.00010	.00456	.01895	.01314	.00011	57
										.00069	.00158	.00023	.00023	.00015	.00341	.00045	.00031	.00034	.00039	58
.00101	.00086	.00120	.00042	.00044	.00112		.00112	.00215	.00039	.00158	.00023	.00023	.00023	.00015	.00					

Table 4.—Commodity-by-Commodity

[Total requirements, direct and indirect, per dollar of

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
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Livestock and livestock products.....	1.45776	0.04320	0.01794	0.10723	0.00131	0.00125	0.00105	0.00146	0.00116	0.00149	0.00243	0.00238	0.00449	0.39046
2	Other agricultural products.....	.36926	1.04689	.01665	.06182	.00119	.00104	.00104	.00111	.00094	.00123	.00316	.02200	.00307	.19597
3	Forestry and fishery products.....	.00203	.00065	1.00493	.00363	.00067	.00092	.00119	.00032	.00040	.00048	.00841	.00312	.00098	.00001
4	Agricultural, forestry, and fishery services.....	.05760	.04167	.02585	1.03749	.00122	.00046	.00050	.00084	.00051	.00068	.00167	.00068	.00062	.02029
5	Iron and ferroalloy ores mining.....	.00063	.00061	.00123	.00070	1.02225	.00240	.00219	.00087	.00249	.00245	.00362	.00188	.00463	.00126
6	Nonferrous metal ores mining.....	.00090	.00134	.00140	.00111	.01340	1.12869	.00139	.00066	.00175	.00142	.00581	.00251	.00736	.00130
7	Coal mining.....	.00251	.00226	.00160	.00244	.01091	.00499	1.14027	.00182	.00642	.00081	.00417	.00250	.00519	.00323
8	Crude petroleum and natural gas.....	.01624	.02317	.01686	.01950	.01784	.01577	.01445	1.04132	.02464	.02333	.01556	.02193	.00742	.01271
9	Stone and clay mining and quarrying.....	.00194	.00400	.00067	.00185	.00651	.00110	.00102	.00102	1.02734	.01912	.01405	.01365	.00104	.00170
10	Chemical and fertilizer mineral mining.....	.00118	.00284	.00041	.00093	.00049	.00074	.00032	.00018	.00043	1.03410	.00050	.00042	.00033	.00086
11	New construction.....											1.00000			
12	Maintenance and repair construction.....	.02547	.02522	.00875	.02886	.05205	.01958	.02005	.05729	.01996	.02959	.01228	1.01020	.01399	.01880
13	Ordnance and accessories.....	.00003	.00003	.00003	.00007	.00003	.00003	.00003	.00002	.00003	.00003	.00002	.00006	1.03994	.00003
14	Food and kindred products.....	.22235	.01087	.03972	.03916	.00357	.00361	.00294	.00424	.00394	.00434	.00644	.00701	.01368	1.28166
15	Tobacco manufactures.....	.00010	.00007	.00012	.00021	.00017	.00012	.00008	.00011	.00011	.00033	.00018	.00019	.00046	.00013
16	Broad and narrow fabrics, yarn and thread mills.....	.00230	.00252	.01588	.00764	.00172	.00218	.00486	.00055	.00175	.00208	.00472	.00284	.00304	.00298
17	Miscellaneous textile goods and floor coverings.....	.00262	.00300	.02539	.01329	.00117	.00129	.00084	.00037	.00092	.00069	.00752	.00283	.00112	.00236
18	Apparel.....	.00049	.00034	.00101	.00085	.00048	.00042	.00146	.00039	.00145	.00047	.00090	.00068	.00355	.00095
19	Miscellaneous fabricated textile products.....	.00087	.00101	.01100	.00409	.00072	.00031	.00030	.00017	.00046	.00037	.00062	.00102	.00128	.00125
20	Lumber and wood products, except containers.....	.00463	.00479	.00523	.00778	.00726	.01033	.01391	.00281	.00394	.00482	.01287	.03578	.00848	.00748
21	Wood containers.....	.00172	.00375	.00026	.00488	.00011	.00009	.00011	.00005	.00011	.00011	.00024	.00016	.00494	.00168
22	Household furniture.....	.00002	.00002	.00032	.00004	.00005	.00003	.00002	.00003	.00002	.00003	.00075	.00032	.00048	.00003
23	Other furniture and fixtures.....	.00005	.00004	.00014	.00008	.00017	.00006	.00005	.00007	.00009	.00008	.00234	.00096	.00021	.00005
24	Paper and allied products, except containers.....	.01364	.00634	.00672	.02374	.00510	.00489	.00753	.00293	.01071	.00915	.01337	.00963	.00840	.03479
25	Paperboard containers and boxes.....	.00802	.00315	.00376	.03241	.00173	.00183	.00147	.00086	.00184	.00158	.00420	.00338	.00609	.03001
26	Printing and publishing.....	.00485	.00250	.00546	.00664	.00266	.00236	.00212	.00164	.00289	.00302	.00374	.00285	.00369	.01293
27	Chemicals and selected chemical products.....	.05306	.11915	.02879	.05951	.03227	.05550	.02137	.01191	.02542	.03505	.02106	.02326	.01804	.03933
28	Plastics and synthetic materials.....	.00355	.00369	.00825	.00555	.00408	.00535	.00358	.00110	.00338	.00256	.00667	.00743	.00506	.00515
29	Drugs, cleaning and toilet preparations.....	.00393	.00074	.00097	.00127	.00053	.00053	.00045	.00027	.00075	.00078	.00083	.00072	.00102	.00560
30	Paints and allied products.....	.00128	.00122	.00522	.00149	.00216	.00115	.00112	.00215	.00125	.00139	.00699	.03092	.00164	.00177
31	Petroleum refining and related industries.....	.02548	.03635	.03133	.03232	.02131	.02047	.02326	.00919	.04140	.02860	.02757	.04156	.00992	.01914
32	Rubber and miscellaneous plastics products.....	.01331	.01072	.00779	.00860	.01012	.02688	.01440	.00290	.01494	.00832	.01748	.01657	.00996	.02018
33	Leather tanning and finishing.....	.00013	.00003	.00023	.00023	.00003	.00003	.00003	.00002	.00003	.00004	.00005	.00005	.00008	.00007
34	Footwear and other leather products.....	.00063	.00011	.00074	.00104	.00007	.00007	.00005	.00008	.00007	.00008	.00013	.00012	.00024	.00025
35	Glass and glass products.....	.00404	.00063	.00164	.00178	.00130	.00117	.00063	.00069	.00085	.00085	.00367	.00335	.00190	.02013
36	Stone and clay products.....	.00221	.00228	.00187	.00504	.00582	.01100	.00851	.00307	.01373	.00336	.08448	.03878	.00426	.00294
37	Primary iron and steel manufacturing.....	.01069	.00795	.02335	.01150	.06417	.04563	.03665	.01716	.04963	.04968	.06879	.05331	.09366	.02420
38	Primary nonferrous metals manufacturing.....	.00542	.00521	.01270	.00722	.01782	.01149	.01290	.00568	.01621	.01198	.05904	.02349	.07952	.01066
39	Metal containers.....	.00732	.00184	.01959	.00217	.00081	.00095	.00064	.00047	.00091	.00086	.00128	.00265	.00088	.03775
40	Heating, plumbing, and structural metal products.....	.00111	.00103	.00181	.00118	.00211	.00115	.00122	.00295	.00307	.00389	.08619	.02399	.00088	.00081
41	Screw machine products and stampings.....	.00244	.00138	.00264	.00282	.00620	.00640	.01689	.00136	.00557	.01040	.00670	.00491	.01550	.00446
42	Other fabricated metal products.....	.00538	.00419	.02310	.01166	.01723	.01316	.00794	.00705	.01203	.00624	.03733	.01818	.01739	.00693
43	Engines and turbines.....	.00140	.00129	.01047	.00616	.00589	.00559	.00452	.00354	.01499	.01120	.00133	.00108	.00151	.00098
44	Farm and garden machinery.....	.00965	.00937	.00084	.00714	.00022	.00015	.00019	.00014	.00020	.00021	.00029	.00015	.00022	.00369
45	Construction and mining machinery.....	.00049	.00067	.00046	.00054	.02105	.02590	.05767	.00760	.03951	.02771	.00360	.00352	.00087	.00048
46	Materials handling machinery and equipment.....	.00024	.00026	.00020	.00028	.00286	.00306	.00352	.00042	.00940	.00484	.00430	.00687	.00030	.00022
47	Metalworking machinery and equipment.....	.00067	.00053	.00131	.00088	.00210	.00195	.00213	.00098	.00205	.00162	.00307	.00194	.01073	.00123
48	Special industry machinery and equipment.....	.00078	.00109	.00075	.00099	.00052	.00069	.00042	.00020	.00044	.00048	.00084	.00056	.00051	.00160
49	General industrial machinery and equipment.....	.00221	.00248	.01070	.00225	.00739	.00445	.00624	.00594	.01049	.00852	.00789	.00452	.00821	.00272
50	Miscellaneous machinery, except electrical.....	.00141	.00116	.00184	.00164	.00237	.00665	.00331	.00547	.00389	.00239	.00338	.00232	.00926	.00185
51	Office, computing, and accounting machines.....	.00015	.00012	.00017	.00029	.00025	.00020	.00018	.00013	.00023	.00025	.00034	.00020	.00102	.00021
52	Service industry machines.....	.00017	.00009	.00165	.00172	.00168	.00085	.00082	.00143	.00114	.00120	.01201	.02207	.00081	.00133
53	Electric industrial equipment and apparatus.....	.00112	.00111	.00210	.00154	.00508	.00355	.00893	.00893	.00459	.00546	.01212	.00948	.00530	.00134
54	Household appliances.....	.00022	.00020	.00065	.00030	.00042	.00020	.00017	.00041	.00019	.00026	.00200	.00662	.00021	.00021
55	Electric lighting and wiring equipment.....	.00088	.00076	.00182	.00099	.00212	.00138	.00328	.00169	.00139	.00140	.01547	.01907	.00149	.00080
56	Radio, TV, and communication equipment.....	.00049	.00036	.00064	.00080	.00054	.00032	.00033	.00055	.00049	.00043	.00143	.00228	.02444	.00048
57	Electronic components and accessories.....	.00052	.00042	.00080	.00100	.00076	.00057	.00054	.00064	.00072	.00073	.00155	.00141	.03164	.00067
58	Misc. electrical machinery and supplies.....	.00127	.00138	.00072	.00304	.00107	.00143	.00055	.00032	.00093	.00078	.00130	.00138	.00094	.00075
59	Motor vehicles and equipment.....	.00539	.00372	.00585	.01281	.02731	.00447	.00412	.00169	.01344	.00721	.00495	.00436	.00566	.00462
60	Aircraft and parts.....	.00052	.00037	.00054	.00224	.00043	.00034	.00031	.00041	.00047	.00044	.00062	.00048	.06874	.00060
61	Other transportation equipment.....	.00071	.00048	.03049	.00173	.00236	.00198	.00046	.00026	.00059	.00124	.00112	.00073	.00058	.00107
62	Scientific and controlling instruments.....	.00047	.00040	.00431	.00057	.00067	.00073	.00055	.00094	.00050	.00052	.00452	.00469	.00639	.00062
63	Optical, ophthalmic, and photographic equipment.....	.00058	.00045	.00062	.00143	.00058	.00052	.00050	.00038	.00070	.00062	.01017	.00058	.00124	.00084
64	Miscellaneous manufacturing.....	.00099	.00076	.00420	.00258	.00319	.00297	.00155	.00095	.00221	.00682	.00286	.00500	.00176	.00115
65	Transportation and warehousing.....	.05276	.03549	.03857	.06264	.04361	.03355	.02697	.01600	.03983	.03987	.05811	.05294	.00374	.06962
66	Communications, except radio and TV.....	.01082	.00737	.00662</											

Total Requirements, 1972

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	Chemical 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	Commodity number
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
0.01043	0.01439	.002196	0.00726	0.01074	0.00377	0.00277	0.00570	0.00320	0.00642	0.00382	0.00372	0.00697	0.00541	0.01011	0.01308	0.00241	0.00419	0.18004	0.03601	1
.22880	.08953	.03527	.02981	.04449	.00330	.00222	.00916	.00369	.00596	.00332	.00297	.00613	.00453	.00775	.01343	.00525	.00525	.09083	.02303	2
.00053	.00116	.00117	.00408	.00118	.11350	.04775	.01686	.00852	.01213	.00517	.00227	.00142	.00116	.00118	.00479	.00049	.00126	.00443	.00245	3
.00919	.00434	.00252	.00201	.00249	.00427	.00250	.00193	.00093	.00143	.00093	.00088	.00123	.00107	.00141	.00080	.00080	.00105	.00060	.00246	4
.00031	.00083	.00085	.00053	.00081	.00149	.00328	.00244	.00688	.00077	.00099	.00048	.00343	.00174	.00131	.00295	.00097	.00150	.00099	.00088	5
.00052	.00202	.00198	.00120	.00138	.00164	.00121	.00279	.00375	.00172	.00168	.00123	.01149	.00547	.00226	.00806	.00131	.00245	.00163	.00192	6
.00146	.00607	.00573	.00031	.00448	.00576	.00485	.00427	.00687	.01216	.00663	.00319	.01164	.01163	.00346	.00569	.00462	.00536	.00429	.00293	7
.00781	.01797	.01775	.01082	.01283	.01752	.01346	.01089	.00999	.02019	.01632	.00877	.06375	.03383	.01483	.03019	.52534	.01567	.01635	.01014	8
.00115	.00176	.00167	.00096	.00126	.00173	.00118	.00160	.00165	.00623	.00304	.00149	.00757	.00330	.00229	.00542	.00457	.00244	.00185	.00107	9
.00071	.00215	.00198	.00096	.00124	.00046	.00029	.00062	.00059	.00135	.00094	.00055	.01454	.00577	.00158	.00380	.00060	.00272	.00262	.00105	10
.01047	.01910	.01878	.01287	.01582	.01587	.01624	.01473	.01595	.02711	.02386	.01721	.02919	.02727	.01965	.02155	.05598	.01895	.01831	.01309	11
.00003	.00005	.00004	.00004	.00003	.00003	.00003	.00004	.00004	.00004	.00004	.00004	.00013	.00007	.00009	.00003	.00003	.00007	.00003	.00003	12
.00566	.01332	.01423	.01268	.01566	.00931	.00736	.01412	.00802	.01919	.01139	.01103	.02125	.01635	.03000	.04101	.00727	.00937	.59051	.11339	13
1.28002	.00019	.00018	.00018	.00021	.00015	.00038	.00019	.00029	.00021	.00019	.00025	.00021	.00025	.00031	.00026	.00013	.00019	.00024	.00029	14
.00190	1.41874	.40183	.42404	.50286	.00418	.00225	.09879	.02592	.02103	.00945	.00710	.00237	.00669	.00471	.00247	.00113	.04313	.00257	.07780	15
.00151	.01520	1.10709	.01196	.11058	.00492	.00234	.02856	.02479	.00965	.00427	.00451	.00124	.00213	.00282	.00124	.00100	.03559	.00168	.05228	16
.00041	.00440	.01722	1.34017	.01456	.00155	.00092	.00658	.00914	.00168	.00183	.00201	.00083	.00108	.00108	.00086	.00055	.00265	.00070	.00800	17
.00041	.00116	.00664	.00214	1.02929	.00214	.00111	.00307	.00771	.00070	.00054	.00051	.00094	.00057	.00097	.00068	.00030	.00099	.00080	.00309	18
.00514	.01129	.01093	.00812	.01141	1.41436	.57202	.20726	.10380	.14521	.06099	.02515	.00926	.00914	.00745	.00666	.00429	.01295	.00579	.01971	19
.00149	.00038	.00020	.00017	.00024	.00025	1.01096	.00046	.00036	.00018	.00011	.00008	.00013	.00009	.00015	.00017	.00006	.00013	.00080	.00024	20
.00001	.00002	.00004	.00002	.00004	.00018	.00009	1.00490	.00058	.00004	.00003	.00003	.00003	.00003	.00003	.00003	.00004	.00003	.00002	.00002	21
.00002	.00004	.00018	.00003	.00007	.00008	.00005	.00006	1.01086	.00005	.00005	.00004	.00005	.00005	.00004	.00005	.00007	.00009	.00004	.00004	22
.02494	.02030	.02666	.02158	.03071	.01075	.00774	.02055	1.22471	.49729	.20010	.01950	.03875	.03670	.02256	.01043	.03252	.02147	.02944	.0244	23
.01202	.01569	.01858	.01853	.01970	.00716	.00371	.02400	.01702	.02517	1.02980	.00945	.00880	.01529	.03011	.01463	.00516	.02019	.01664	.02207	24
.01248	.00350	.00420	.00440	.00541	.00312	.00352	.00434	.00462	.00519	.00505	1.13386	.00471	.00455	.01240	.01635	.00308	.00370	.00789	.00453	25
.03128	.14926	.14113	.08612	.08431	.03137	.01646	.03717	.02948	.07379	.06063	.03806	1.24828	.40054	.10560	.30518	.04487	.13296	.11412	.05827	26
.00408	.20885	.19443	.08995	.10788	.00737	.00383	.03089	.01888	.02717	.02198	.00849	.01521	.01484	.01241	.10420	.00236	.15748	.00460	.03185	27
.00192	.00719	.00502	.00528	.00462	.00071	.00059	.00139	.00099	.00267	.00155	.00107	.00326	.00704	1.05625	.00474	.00415	.00232	.00428	.01084	28
.00061	.00196	.00276	.00119	.00154	.00805	.00398	.01286	.01038	.00261	.00183	.00152	.00365	.00384	.00304	1.01299	.00243	.00294	.00148	.00205	29
.01222	.01806	.01825	.01265	.01436	.02981	.02207	.01543	.01349	.02770	.02337	.01178	.03089	.02533	.01670	.03150	1.08897	.01520	.02033	.01280	30
.01941	.01802	.04322	.01447	.03564	.01488	.00899	.06529	.06444	.03133	.01702	.01756	.01483	.02581	.05467	.01272	.00611	1.05322	.01389	.08157	31
.00003	.00008	.00029	.00708	.00632	.00010	.00006	.00233	.00116	.00006	.00005	.00031	.00009	.00007	.00008	.00007	.00003	.00020	.019385	.19278	32
.00008	.00015	.00016	.00021	.00019	.00036	.00019	.00014	.00013	.00018	.00017	.00018	.00033	.00024	.00027	.00025	.00011	.00019	.00017	1.02463	33
.00053	.00650	.00699	.00251	.00421	.00430	.00254	.00867	.01021	.00155	.00102	.00086	.00172	.00203	.01943	.00273	.00090	.00597	.01037	.00331	34
.00151	.00332	.00332	.00243	.00287	.01658	.00861	.01192	.00924	.00699	.00448	.00310	.00496	.00369	.00341	.00892	.00678	.00501	.00650	.00321	35
.00492	.01022	.01117	.00770	.01284	.00260	.00587	.04551	.13833	.01207	.01753	.00603	.02478	.01575	.02139	.03853	.01778	.02421	.01582	.01493	36
.00309	.00795	.00829	.00686	.00709	.01464	.01059	.02651	.03650	.01011	.01227	.01000	.02833	.01672	.01352	.03843	.01002	.01372	.00842	.01566	37
.00074	.00280	.00274	.00161	.00206	.00334	.00170	.00210	.00159	.00201	.00143	.00097	.01271	.00758	.02662	.06130	.01039	.00253	.01939	.00445	38
.00043	.00092	.00090	.00059	.00074	.00362	.00192	.00116	.00118	.00134	.00108	.00072	.00142	.00118	.00080	.00094	.00243	.00088	.00075	.00065	39
.00101	.00161	.00207	.00148	.00218	.00916	.00743	.01156	.02385	.00263	.00204	.00157	.00257	.00211	.00711	.00258	.00156	.00962	.00299	.00912	40
.00678	.00482	.00448	.00412	.00430	.05403	.02733	.07208	.05946	.01649	.00973	.00660	.00657	.00562	.01041	.00896	.00720	.01428	.00473	.01679	41
.00055	.00083	.00082	.00059	.00081	.00195	.00120	.00096	.00120	.00098	.00098	.00057	.00146	.00099	.00082	.00096	.00035	.00082	.00080	.00064	42
.00219	.00099	.00092	.00044	.00062	.00027	.00021	.00030	.00025	.00024	.00025	.00024	.00027	.00025	.00060	.00037	.00018	.00024	.00178	.00054	43
.00026	.00074	.00071	.00042	.00053	.00090	.00067	.00062	.00084	.00124	.00077	.00041	.00246	.00147	.00059	.00125	.00460	.00075	.00064	.00043	44
.00012	.00197	.00114	.00093	.00113	.00193	.00093	.00061	.00056	.00064	.00039	.00030	.00052	.00037	.00025	.00035	.00051	.00042	.00022	.00153	45
.00049	.00098	.00124	.00067	.00096	.00231	.00172	.00246	.00471	.00124	.00339	.00078	.00141	.00158	.00149	.00164	.00098	.00541	.00086	.00135	46
.00057	.01295	.01129	.00575	.00711	.00393	.00380	.00347	.00147	.00545	.00618	.00443	.00977	.00916	.00191	.00331	.00055	.00559	.00158	.00616	47
.00161	.00362	.00563	.00234	.00282	.00522	.00398	.00332	.00679	.00362	.00301	.00156	.01001	.00714	.00325	.00454	.00567	.00399	.00252	.00226	48
.00122	.00342	.00327	.00217	.00291	.00431	.00468	.00384	.00484	.00288	.00323	.00150	.00267	.00275	.00215	.00218	.00371	.00440	.00224	.00315	49
.00019	.00020	.00023	.00020	.00021	.00019	.00025	.00026	.00038	.00021	.00022	.00024									

Table 4.—Commodity-by-Commodity
[Total requirements, direct 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	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	Special industry machinery and equipment
		35	36	37	38	39	40	41	42	43	44	45	46	47	48
1	Livestock and livestock products.....	0.00219	0.00248	0.00174	0.00199	0.00306	0.00246	0.00197	0.00210	0.00194	0.00250	0.00197	0.00238	0.00223	0.00247
2	Other agricultural products.....	0.0180	0.0213	0.0132	0.0185	0.0217	0.0182	0.0150	0.0165	0.0141	0.0181	0.0150	0.0168	0.0160	0.0180
3	Forestry and fishery products.....	0.0236	0.0171	0.0106	0.0133	0.0107	0.0120	0.0099	0.0158	0.0057	0.0092	0.0085	0.0079	0.0079	0.0116
4	Agricultural, forestry, and fishery services.....	0.0151	0.0089	0.0069	0.0123	0.0123	0.0134	0.0092	0.0085	0.0061	0.0070	0.0056	0.0054	0.0049	0.0064
5	Iron and ferroalloy ores mining.....	0.0086	0.0251	0.0683	0.0288	0.2147	0.1633	0.1733	0.1134	0.1079	0.1068	0.1121	0.1048	0.0744	0.0736
6	Nonferrous metal ores mining.....	0.0137	0.0293	0.0781	0.1450	0.1625	0.1586	0.0986	0.1243	0.1078	0.0495	0.0423	0.0712	0.0603	0.0757
7	Coal mining.....	0.0503	0.1216	0.3425	0.0626	0.1375	0.1159	0.1158	0.0854	0.0785	0.0782	0.0789	0.0723	0.0587	0.0569
8	Crude petroleum and natural gas.....	0.1321	0.1858	0.1497	0.1601	0.1219	0.1088	0.1031	0.1085	0.0870	0.0845	0.0847	0.0883	0.0833	0.1061
9	Stone and clay mining and quarrying.....	0.1150	0.6958	0.0538	0.0157	0.0251	0.0231	0.0213	0.0224	0.0187	0.0160	0.0194	0.0152	0.0162	0.0142
10	Chemical and fertilizer mineral mining.....	0.0101	0.0266	0.0163	0.0071	0.0082	0.0064	0.0068	0.0075	0.0043	0.0048	0.0046	0.0044	0.0037	0.0058
11	New construction.....	0.2100	0.2400	0.3129	0.2007	0.2184	0.1888	0.1870	0.1751	0.1399	0.1402	0.1680	0.1463	0.1312	0.1466
12	Maintenance and repair construction.....	0.0003	0.0004	0.0007	0.0003	0.0005	0.0007	0.0036	0.0009	0.0012	0.0011	0.0017	0.0004	0.0003	0.0009
13	Ordnance and accessories.....	0.0609	0.0722	0.0508	0.0559	0.0791	0.0713	0.0519	0.0606	0.0574	0.0744	0.0576	0.0709	0.0669	0.0735
14	Food and kindred products.....	0.0017	0.0022	0.0014	0.0018	0.0014	0.0023	0.0012	0.0017	0.0014	0.0019	0.0019	0.0028	0.0026	0.0026
15	Tobacco manufactures.....	0.0429	0.0762	0.0184	0.0460	0.0249	0.0233	0.0344	0.0331	0.0198	0.0329	0.0254	0.0226	0.0198	0.0235
16	Broad and narrow fabrics, yarn and thread mills.....	0.0245	0.0177	0.0095	0.0197	0.0116	0.0119	0.0148	0.0254	0.0113	0.0241	0.0192	0.0177	0.0095	0.0161
17	Miscellaneous textile goods and floor coverings.....	0.0160	0.0089	0.0128	0.0092	0.0134	0.0146	0.0166	0.0146	0.0136	0.0132	0.0120	0.0084	0.0143	0.0109
18	Apparel.....	0.0100	0.0044	0.0074	0.0086	0.0122	0.0091	0.0078	0.0064	0.0089	0.0089	0.0079	0.0045	0.0062	0.0041
19	Miscellaneous fabricated textile products.....	0.2748	0.1821	0.1171	0.1494	0.1061	0.1257	0.1075	0.1770	0.0552	0.0662	0.0894	0.0795	0.0591	0.1243
20	Lumber and wood products, except containers.....	0.0285	0.0030	0.0061	0.0151	0.0039	0.0080	0.0202	0.0072	0.0044	0.0116	0.0080	0.0109	0.0087	0.0066
21	Wood containers.....	0.0003	0.0003	0.0004	0.0003	0.0003	0.0004	0.0003	0.0005	0.0005	0.0008	0.0004	0.0004	0.0002	0.0004
22	Household furniture.....	0.0005	0.0006	0.0064	0.0006	0.0025	0.0021	0.0031	0.0015	0.0019	0.0022	0.0022	0.0073	0.0013	0.0010
23	Other furniture and fixtures.....	0.0539	0.3141	0.0700	0.0989	0.2204	0.1204	0.1329	0.1329	0.0709	0.0879	0.0671	0.0718	0.0646	0.0735
24	Paper and allied products, except containers.....	0.5320	0.0780	0.0325	0.0547	0.1091	0.0922	0.0867	0.1257	0.0566	0.0645	0.0293	0.0362	0.0347	0.0429
25	Paperboard containers and boxes.....	0.0462	0.0328	0.0370	0.0350	0.5522	0.0344	0.0327	0.0373	0.0285	0.0336	0.0324	0.0331	0.0286	0.0297
26	Printing and publishing.....	0.4884	0.4949	0.3786	0.4980	0.3188	0.2459	0.2585	0.3963	0.1504	0.1763	0.1573	0.1596	0.1579	0.3243
27	Chemicals and selected chemical products.....	0.1048	0.1074	0.0326	0.1823	0.0781	0.0574	0.0643	0.0998	0.0427	0.0833	0.0573	0.0617	0.0520	0.0594
28	Plastics and synthetic materials.....	0.0071	0.0138	0.0064	0.0074	0.0190	0.0165	0.0143	0.0134	0.0054	0.0061	0.0054	0.0056	0.0052	0.0059
29	Drugs, cleaning and toilet preparations.....	0.0386	0.0357	0.0228	0.0348	0.0266	0.1066	0.0353	0.0841	0.0210	0.0398	0.0338	0.0222	0.0199	0.0218
30	Paints and allied products.....	0.1449	0.2617	0.1823	0.1952	0.1564	0.1476	0.1351	0.1372	0.1239	0.1184	0.1197	0.1282	0.1413	0.1539
31	Petroleum refining and related industries.....	0.5144	0.1341	0.0852	0.2094	0.0927	0.1345	0.1532	0.3045	0.1190	0.4207	0.2602	0.2835	0.0941	0.1945
32	Rubber and miscellaneous plastics products.....	0.0005	0.0008	0.0005	0.0004	0.0006	0.0005	0.0006	0.0005	0.0003	0.0005	0.0004	0.0003	0.0004	0.0011
33	Leather tanning and finishing.....	0.0009	0.0011	0.0014	0.0011	0.0012	0.0013	0.0009	0.0010	0.0008	0.0013	0.0013	0.0008	0.0011	0.0019
34	Footwear and other leather products.....	1.08853	0.0167	0.0113	0.0175	0.0151	0.0936	0.0230	0.0247	0.0124	0.0143	0.0118	0.0102	0.0111	0.0304
35	Glass and glass products.....	0.2010	1.1261	0.1283	0.0840	0.0756	0.0913	0.0851	0.0983	0.1327	0.0794	0.1342	0.0684	0.1230	0.0704
36	Stone and clay products.....	0.4884	0.2308	1.25975	0.4077	4.4158	3.1779	3.3812	1.9429	2.1996	2.1870	2.2799	2.1452	1.5153	1.4917
37	Primary iron and steel manufacturing.....	0.1040	0.1328	0.6057	1.66919	1.7137	1.5666	1.0194	1.3211	1.1524	0.9461	0.4143	0.7440	0.6330	0.7891
38	Primary nonferrous metals manufacturing.....	0.0109	0.0141	0.0142	0.10422	0.0145	0.0263	0.0169	0.0073	0.0094	0.0081	0.0082	0.0076	0.0098	
39	Metal containers.....	0.0096	0.0129	0.0295	0.0107	0.0154	1.01510	0.0137	0.0178	0.2321	0.0325	0.0787	0.0819	0.0579	0.1510
40	Heating, plumbing, and structural metal products.....	0.0537	0.0285	0.1274	0.0658	0.0704	0.2845	1.03769	0.2190	0.3035	0.3537	0.2065	0.1731	0.1306	0.1237
41	Screw machine products and stampings.....	0.0543	0.1744	0.0270	0.1768	0.2239	0.4563	0.2494	1.04245	0.2307	0.2237	0.2031	0.2542	0.1404	0.2338
42	Other fabricated metal products.....	0.0095	0.0237	0.0196	0.0157	0.0122	0.0189	0.0157	0.0299	1.11436	0.6897	0.3850	0.1947	0.0127	0.1158
43	Engines and turbines.....	0.0017	0.0018	0.0027	0.0019	0.0026	0.0027	0.0054	0.0044	0.0110	1.04277	0.0097	0.0032	0.0017	0.0031
44	Farm and garden machinery.....	0.0099	0.0615	0.0371	0.0402	0.0183	0.0164	0.0147	0.0138	0.0366	1.0226	1.06190	0.0254	0.0090	0.0111
45	Construction and mining machinery.....	0.0035	0.0119	0.0166	0.0152	0.0081	0.0071	0.0090	0.0060	0.0047	0.0049	0.0061	1.03767	0.0034	0.0101
46	Materials handling machinery and equipment.....	0.0386	0.0140	0.1106	0.1610	0.1176	0.1252	0.1946	0.1387	0.1769	0.1456	0.0182	1.05883	1.0193	0.1903
47	Metalworking machinery and equipment.....	0.0768	0.0115	0.0163	0.0082	0.0111	0.0092	0.0094	0.0125	0.0056	0.0078	0.0069	0.0084	0.0082	1.03605
48	Special industry machinery and equipment.....	0.0302	0.0400	0.2613	0.1450	0.1280	0.1591	0.1014	0.1059	0.3238	0.9891	0.6601	0.6556	0.2793	0.4962
49	General industrial machinery and equipment.....	0.0518	0.0351	0.0920	0.0810	0.0755	0.1240	0.2200	0.1224	0.4320	0.2256	0.2507	0.3030	0.2508	0.2229
50	Miscellaneous machinery, except electrical.....	0.0018	0.0019	0.0192	0.0025	0.0082	0.0068	0.0112	0.0056	0.0053	0.0052	0.0053	0.0056	0.0041	0.0133
51	Office, computing, and accounting machines.....	0.0100	0.0116	0.0135	0.0091	0.0104	0.0032	0.0106	0.0122	0.0098	0.0109	0.0108	0.0118	0.0069	0.0135
52	Service industry machines.....	0.0287	0.0296	0.1418	0.0889	0.0665	0.1841	0.0737	0.0999	0.1631	0.1605	0.2054	0.4403	0.2970	0.3431
53	Electric industrial equipment and apparatus.....	0.0061	0.0024	0.0022	0.0027	0.0027	0.0026	0.0041	0.0020	0.0018	0.0028	0.0020	0.0017	0.0014	0.0016
54	Household appliances.....	0.0180	0.0277	0.0496	0.0294	0.0241	0.0259	0.0291	0.0197	0.0174	0.0331	0.0173	0.0185	0.0235	0.0162
55	Electric lighting and wiring equipment.....	0.0052	0.0061	0.0060	0.0082	0.0059	0.0074	0.0076	0.0114	0.0138	0.0077	0.0085	0.0097	0.0065	0.0108
56	Radio, TV, and communication equipment.....	0.0080	0.0082	0.0141	0.0148	0.0114	0.0155	0.0154	0.0301	0.0281	0.0160	0.0165	0.0238	0.0174	0.0615
57	Electronic components and accessories.....	0.0047	0.0061	0.0103	0.0097	0.0068	0.0099	0.0162	0.0064	0.1375	0.1007	0.0272	0.0352	0.0082	0.0130
58	Misc. electrical machinery and supplies.....	0.0421	0.0593	0.0695	0.0374	0.0489	0.0567	0.1413	0.0465	0.1291	0.3043	0.2243	0.0624	0.0531	0.0388
59	Motor vehicles and equipment.....	0.0061	0.0109	0.0088	0.0060	0.0088	0.0115	0.0107	0.0063	0.0747	0.1014	0.0142	0.0134	0.0060	0.0186
60	Aircraft and parts.....	0.0088	0.0141	0.0217	0.0102	0.0155	0.0146	0.0103	0.0095	0.0174	0.0230	0.0188	0.0113	0.0059	0.0078
61	Other transportation equipment.....	0.0298	0.0100	0.0270	0.0102	0.0159	0.0455	0.0179							

Total Requirements, 1972—Continued
of delivery to final demand, at producers' prices]

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	Radio and TV broadcasting	Electric, gas, water, and sanitary services	Commodity number
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	
0.00247	0.00205	0.00445	0.00221	0.00269	0.00237	0.00240	0.00384	0.00321	0.00231	0.00207	0.00630	0.00286	0.00403	0.00252	0.00450	0.00298	0.00137	0.00355	0.00153	1
.00187	.00153	.00307	.00170	.00198	.00223	.00203	.00283	.00231	.00182	.00253	.00424	.00270	.00365	.00198	.00659	.00208	.00094	.00679	.00124	2
.00092	.00058	.00070	.00097	.00096	.00122	.00095	.00105	.00086	.00082	.00094	.00080	.00087	.00119	.00079	.00488	.00050	.00024	.00020	.00045	3
.00062	.00063	.00085	.00065	.00073	.00064	.00074	.00077	.00081	.00071	.00064	.00084	.00087	.00078	.00057	.00110	.00052	.00037	.00281	.00250	4
.00959	.00714	.00224	.00696	.00577	.00720	.00518	.00197	.00225	.00418	.00858	.00295	.00794	.00288	.00184	.00300	.00069	.00015	.00009	.00052	5
.00766	.00905	.00586	.01228	.01340	.01036	.01166	.00662	.00646	.02079	.00639	.00787	.00847	.00824	.00598	.01056	.00073	.00039	.00016	.00058	6
.00702	.00628	.00281	.00590	.00541	.00618	.00513	.00267	.00381	.00454	.00706	.00327	.00643	.00339	.00380	.00434	.00167	.00074	.00050	.06583	7
.01071	.01288	.00681	.00997	.00972	.00916	.00867	.00635	.00837	.00958	.00878	.00772	.01014	.00858	.00878	.01233	.02493	.00245	.00217	.10457	8
.00182	.00152	.00088	.00154	.00176	.00191	.00178	.00086	.00151	.00137	.00175	.00080	.00185	.00116	.00130	.00282	.00099	.00053	.00027	.00137	9
.00042	.00037	.00031	.00088	.00045	.00063	.00058	.00030	.00053	.00073	.00055	.00025	.00052	.00039	.00083	.00071	.00015	.00004	.00006	.00025	10
.01460	.01357	.01384	.01338	.01439	.01508	.01337	.01219	.01337	.01449	.01449	.01335	.01428	.01273	.01406	.01684	.04667	.03428	.01310	.07936	11
.00005	.00005	.00007	.00006	.00005	.00005	.00004	.00042	.00009	.00004	.00009	.00066	.00012	.00020	.00005	.00004	.00003	.00002	.00003	.00003	13
.00714	.00595	.01345	.00650	.00802	.00671	.00697	.01089	.00958	.00673	.00540	.01923	.00745	.01172	.00751	.01281	.00865	.00032	.00482	.00397	14
.00023	.00019	.00043	.00023	.00029	.00023	.00026	.00033	.00032	.00026	.00014	.00057	.00025	.00029	.00020	.00029	.00014	.00009	.00010	.00011	15
.00386	.00307	.00288	.00307	.00271	.01022	.00715	.00426	.00321	.00389	.01641	.00400	.01265	.01709	.00301	.03286	.00226	.00069	.00066	.00118	16
.00629	.00352	.00157	.00193	.00151	.00459	.00206	.00166	.00170	.00255	.00893	.00144	.01948	.00837	.00207	.00977	.00157	.00030	.00049	.00055	17
.00135	.00286	.00116	.00135	.00175	.00123	.00149	.00187	.00197	.00241	.00176	.00167	.00336	.00234	.00096	.00269	.00170	.00086	.00032	.00106	18
.00044	.00048	.00049	.00052	.00055	.00054	.00117	.00057	.00056	.00059	.02269	.00050	.00393	.00060	.00041	.00314	.00126	.00018	.00036	.00030	19
.00954	.00550	.00518	.01016	.00958	.01294	.00985	.01004	.00557	.00826	.01001	.00481	.09602	.01227	.00777	.05595	.00404	.00202	.0132	.00434	20
.00099	.00041	.00022	.00191	.00124	.00192	.00036	.00122	.00034	.00039	.00080	.00080	.00041	.00028	.00014	.00103	.00006	.00005	.00005	.00005	21
.00003	.00003	.00036	.00008	.00011	.00004	.00008	.01918	.00169	.00005	.00024	.00111	.01043	.00015	.00007	.00008	.00015	.00039	.00002	.00004	22
.00014	.00011	.00005	.00010	.00009	.00050	.00008	.00005	.00005	.00008	.00392	.00161	.00359	.00009	.00006	.00007	.00014	.00004	.00002	.00009	23
.01026	.00943	.01668	.01322	.01368	.01847	.01721	.01330	.01436	.01211	.01112	.00878	.01034	.02081	.03748	.04005	.00668	.00410	.00483	.00498	24
.00627	.01029	.00806	.01202	.00792	.02135	.02216	.00788	.00959	.01059	.00708	.00410	.00537	.01128	.01076	.02946	.00196	.00072	.00067	.00111	25
.00295	.00298	.00601	.00327	.00356	.00424	.00326	.00912	.00376	.00492	.00337	.00643	.00363	.00501	.00340	.00514	.00520	.00534	.00832	.00411	26
.01556	.01670	.01782	.02354	.02394	.03271	.03437	.01776	.03511	.04948	.02533	.01372	.02416	.02205	.06395	.04350	.00879	.00257	.00375	.01311	27
.00565	.00446	.00851	.00931	.01048	.02071	.01069	.01089	.01352	.01989	.01404	.00722	.01455	.01762	.00947	.04309	.00280	.00089	.00070	.00158	28
.00059	.00082	.00076	.00072	.00083	.00089	.00079	.00085	.00082	.00081	.00086	.00085	.00102	.00286	.00084	.00190	.00089	.00027	.00043	.00085	29
.00152	.00179	.00247	.00499	.00446	.01000	.00423	.00195	.00146	.00201	.00562	.00299	.01018	.00235	.00111	.00719	.00211	.00116	.00050	.00262	30
.01646	.02060	.00910	.01450	.01372	.01174	.01081	.00851	.01043	.01131	.01179	.01139	.01478	.01238	.01048	.01756	.04755	.00334	.00323	.04262	31
.01494	.01170	.03004	.02881	.02000	.04999	.03496	.02066	.03427	.04366	.04768	.00993	.02768	.03192	.02897	.05695	.01113	.00215	.00194	.00474	32
.00004	.00005	.00007	.00006	.00008	.00006	.00006	.00001	.00006	.00005	.00018	.00009	.00011	.00020	.00006	.00277	.00004	.00003	.00015	.00003	33
.00011	.00012	.00026	.00015	.00025	.00014	.00010	.00024	.00018	.00011	.00011	.00033	.00014	.00072	.00016	.00338	.00009	.00008	.00076	.00009	34
.00106	.00081	.00557	.00232	.00262	.00689	.03344	.00932	.02754	.00284	.01699	.00248	.00816	.00871	.00883	.00247	.00124	.00053	.00031	.00070	35
.01007	.01094	.00445	.00974	.01498	.01327	.00830	.00475	.01018	.00835	.00986	.00389	.01261	.00579	.00273	.01088	.00807	.00160	.00074	.00413	36
.19473	.14488	.04358	.13979	.11530	.14440	.09986	.03803	.04273	.06970	.17227	.05858	.16026	.05820	.03448	.05794	.01345	.00287	.00164	.00888	37
.07968	.09750	.06340	.13220	.14823	.11046	.12508	.07215	.09125	.22154	.06591	.08612	.08909	.08369	.08069	.11337	.00701	.00399	.00136	.00506	38
.00080	.00076	.00091	.00104	.00100	.00148	.00111	.00081	.00093	.00105	.00117	.00108	.00147	.00241	.00120	.00171	.00092	.00023	.00026	.00080	39
.00799	.00116	.00800	.00689	.00594	.00201	.00098	.00154	.00117	.00096	.00158	.00098	.04136	.00334	.00077	.00099	.00195	.00107	.00043	.00261	40
.01764	.01929	.02529	.03211	.02257	.03507	.03426	.02533	.02803	.01360	.10450	.01543	.01875	.02817	.00990	.01372	.00925	.01007	.00054	.00206	41
.01889	.02685	.02279	.03789	.01789	.03981	.02227	.02273	.02799	.02922	.04723	.02175	.03558	.02870	.01113	.02306	.00578	.00157	.00096	.00346	42
.00766	.00301	.00070	.00575	.00608	.00149	.00105	.00063	.00069	.00107	.01273	.00173	.03184	.00067	.00052	.00096	.00286	.00021	.00024	.00342	43
.00028	.00016	.00022	.00025	.00021	.00049	.00022	.00022	.00020	.00023	.00034	.00026	.00114	.00024	.00019	.00033	.00020	.00012	.00033	.00017	44
.00140	.00095	.00050	.00111	.00110	.00097	.00086	.00048	.00062	.00102	.00109	.00058	.00399	.00061	.00057	.00084	.00053	.00018	.00010	.00457	45
.00048	.00039	.00025	.00042	.00041	.00043	.00037	.00025	.00036	.00041	.00059	.00027	.00194	.00030	.00024	.00065	.00042	.00025	.00010	.00075	46
.01905	.02684	.00735	.00901	.01160	.01003	.01049	.00749	.00745	.01253	.00981	.01482	.00843	.00839	.00183	.00344	.00111	.00031	.00014	.00056	47
.00090	.00059	.00068	.00061	.00065	.00132	.00107	.00093	.00090	.00092	.00106	.00046	.00202	.00100	.00098	.00168	.00027	.00012	.00015	.00022	48
1.07028	1.01698	0.9583	0.28556	0.1087	0.1464	0.0561	0.0298	0.0354	0.1760	0.1180	0.1111	0.2919	0.0524	0.0534	0.0496	0.0383	0.0038	0.0036	0.0233	49
.02138	1.06616	0.0704	0.0932	0.1055	0.0803	0.0656	0.0631	0.0689	0.0641	0.1868	0.2787	0.1004	0.1048	0.0352	0.0470	0.0194	0.0040	0.0034	0.0133	50
.00054	.00061	1.16336	.00065	.00270	.00057	.00049	.00379	.01198	.00048	.00056	.00543	.00052	.00							

Table 4.—Commodity-by-Commodity Total Requirements, 1972—Continued

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

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.	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	Medical, educ. services and nonprofit org.	Federal Government enterprises	State and local government enterprises	Noncomparable imports	Scrap, used, and secondhand goods
		69	70	71	72	73	74	75	76	77	78	79	80	81
1	Livestock and livestock products.....	0.00232	0.00405	0.00107	0.00306	0.00301	0.13222	0.00168	0.01504	0.01008	0.00097	0.00266		
2	Other agricultural products.....	0.00160	0.00270	0.00147	0.00357	0.00258	0.07703	0.00157	0.04041	0.00599	0.00084	0.00243		
3	Forestry and fishery products.....	0.00034	0.00048	0.00028	0.00071	0.00074	0.00953	0.00051	0.00058	0.00064	0.00016	0.00111		
4	Agricultural, forestry, and fishery services.....	0.00098	0.00068	0.00042	0.00147	0.00085	0.00782	0.00058	0.01019	0.00196	0.00027	0.00094		
5	Iron and ferroalloy ores mining.....	0.00015	0.00013	0.00016	0.00056	0.00039	0.00053	0.00282	0.00022	0.00026	0.00015	0.00076		
6	Nonferrous metal ores mining.....	0.00020	0.00022	0.00022	0.00103	0.00064	0.00064	0.00259	0.00040	0.00045	0.00021	0.00119		
7	Coal mining.....	0.00145	0.00123	0.00067	0.00284	0.00145	0.00255	0.00313	0.00155	0.00233	0.00112	0.00503		
8	Crude petroleum and natural gas.....	0.00712	0.00448	0.00398	0.01169	0.00665	0.00818	0.00942	0.00631	0.00776	0.00606	0.01909		
9	Stone and clay mining and quarrying.....	0.00033	0.00034	0.00097	0.00092	0.00061	0.00093	0.00142	0.00069	0.00063	0.00026	0.00426		
10	Chemical and fertilizer mineral mining.....	0.00006	0.00007	0.00005	0.00026	0.00019	0.00038	0.00030	0.00021	0.00019	0.00005	0.00078		
11	New construction.....													
12	Maintenance and repair construction.....	0.01283	0.01321	0.06854	0.02544	0.01514	0.01777	0.01946	0.02944	0.02731	0.01090	28819		
13	Ordnance and accessories.....	0.00003	0.00005	0.00001	0.00004	0.00029	0.00003	0.00005	0.00006	0.00004	0.00001	0.00004		
14	Food and kindred products.....	0.00688	0.01231	0.00208	0.00666	0.00864	0.40852	0.00473	0.01856	0.02745	0.00281	0.00783		
15	Tobacco manufactures.....	0.00014	0.00034	0.00005	0.00017	0.00023	0.00008	0.00012	0.00039	0.00021	0.00008	0.00027		
16	Broad and narrow fabrics, yarn and thread mills.....	0.00103	0.00123	0.00043	0.01626	0.00200	0.00213	0.00605	0.00219	0.00371	0.00221	0.00225		
17	Miscellaneous textile goods and floor coverings.....	0.00052	0.00052	0.00035	0.00289	0.00106	0.00142	0.00299	0.00177	0.00107	0.00079	0.00121		
18	Apparel.....	0.00058	0.00043	0.00016	0.00005	0.00120	0.00074	0.00371	0.00094	0.00388	0.00005	0.00302		
19	Miscellaneous fabricated textile products.....	0.00068	0.00102	0.00016	0.00778	0.00050	0.00125	0.00558	0.00145	0.00278	0.00271	0.00073		
20	Lumber and wood products, except containers.....	0.00234	0.00272	0.00273	0.00634	0.00685	0.00446	0.00480	0.00274	0.00313	0.00131	0.01185		
21	Wood containers.....	0.00003	0.00004	0.00004	0.00010	0.00006	0.00061	0.00033	0.00022	0.00007	0.00002	0.00007		
22	Household furniture.....	0.00002	0.00003	0.00003	0.00006	0.00005	0.00002	0.00019	0.00003	0.00003	0.00002	0.00011		
23	Other furniture and fixtures.....	0.00003	0.00002	0.00007	0.00004	0.00004	0.00003	0.00005	0.00004	0.00004	0.00004	0.00028		
24	Paper and allied products, except containers.....	0.01143	0.01575	0.00227	0.01623	0.04018	0.02175	0.00863	0.00794	0.01032	0.00496	0.00817		
25	Paperboard containers and boxes.....	0.00267	0.00131	0.00056	0.00574	0.00289	0.01686	0.00373	0.00187	0.00017	0.00012	0.00195		
26	Printing and publishing.....	0.00450	0.02598	0.00167	0.00681	0.02399	0.00709	0.00290	0.00870	0.01457	0.00725	0.00572		
27	Chemicals and selected chemical products.....	0.00362	0.00428	0.00320	0.01663	0.01303	0.01794	0.01400	0.01179	0.01277	0.00326	0.04329		
28	Plastics and synthetic materials.....	0.00124	0.00123	0.00091	0.00709	0.00319	0.00309	0.00749	0.00181	0.00296	0.00125	0.00330		
29	Drugs, cleaning and toilet preparations.....	0.00100	0.00081	0.00022	0.01367	0.00232	0.00495	0.00062	0.00111	0.01779	0.00274	0.00384		
30	Paints and allied products.....	0.00059	0.00059	0.00214	0.00176	0.00117	0.00108	0.00108	0.00112	0.00122	0.00179	0.00902		
31	Petroleum refining and related industries.....	0.01127	0.00636	0.00672	0.01800	0.01061	0.01078	0.01525	0.00891	0.01065	0.00995	0.02858		
32	Rubber and miscellaneous plastics products.....	0.00449	0.00340	0.00310	0.01750	0.00916	0.01184	0.03010	0.00472	0.01060	0.00897	0.00897		
33	Leather tanning and finishing.....	0.00004	0.00006	0.00001	0.00107	0.00008	0.00008	0.00008	0.00067	0.00009	0.00009	0.00005		
34	Footwear and other leather products.....	0.00013	0.00021	0.00004	0.00462	0.00031	0.00020	0.00009	0.00341	0.00022	0.00030	0.00012		
35	Glass and glass products.....	0.00079	0.00060	0.00034	0.00201	0.00129	0.00788	0.00993	0.00084	0.00243	0.00051	0.00157		
36	Stone and clay products.....	0.00099	0.00097	0.00275	0.00518	0.00207	0.00263	0.01184	0.00168	0.00180	0.00082	0.01227		
37	Primary iron and steel manufacturing.....	0.00275	0.00248	0.00299	0.01026	0.00710	0.01002	0.05559	0.00398	0.00459	0.00289	0.01317		
38	Primary nonferrous metals manufacturing.....	0.00180	0.00198	0.00199	0.00970	0.00579	0.00531	0.02634	0.00329	0.00378	0.00191	0.00894		
39	Metal containers.....	0.00041	0.00053	0.00029	0.00104	0.00073	0.01236	0.00092	0.00084	0.00152	0.00031	0.00150		
40	Heating, plumbing, and structural metal products.....	0.00044	0.00046	0.00212	0.00101	0.00065	0.00067	0.00121	0.00098	0.00091	0.00043	0.00862		
41	Screw machine products and stampings.....	0.00111	0.00092	0.00057	0.00464	0.00319	0.00303	0.04038	0.00117	0.00172	0.00150	0.00211		
42	Other fabricated metal products.....	0.00164	0.00142	0.00154	0.00057	0.00506	0.00350	0.02305	0.00210	0.00299	0.00131	0.00751		
43	Engines and turbines.....	0.00036	0.00035	0.00019	0.00233	0.00175	0.00065	0.00552	0.00047	0.00037	0.00040	0.00081		
44	Farm and garden machinery.....	0.00023	0.00029	0.00025	0.00025	0.00230	0.00145	0.00021	0.00069	0.00025	0.00010	0.00064		
45	Construction and mining machinery.....	0.00020	0.00016	0.00029	0.00041	0.00024	0.00033	0.00057	0.00026	0.00031	0.00018	0.00344		
46	Materials handling machinery and equipment.....	0.00015	0.00012	0.00047	0.00026	0.00018	0.00017	0.00031	0.00023	0.00022	0.00017	0.00200		
47	Metalworking machinery and equipment.....	0.00033	0.00021	0.00018	0.00091	0.00080	0.00060	0.00362	0.00029	0.00037	0.00023	0.00079		
48	Special industry machinery and equipment.....	0.00019	0.00029	0.00009	0.00009	0.00107	0.00105	0.00055	0.00030	0.00016	0.00014	0.00055		
49	General industrial machinery and equipment.....	0.00048	0.00047	0.00045	0.00163	0.00176	0.00133	0.00495	0.00090	0.00074	0.00062	0.00232		
50	Miscellaneous machinery, except electrical.....	0.00077	0.00051	0.00029	0.00288	0.00254	0.00105	0.01252	0.00061	0.00064	0.00044	0.00121		
51	Office, computing, and accounting machines.....	0.00024	0.00083	0.00008	0.00429	0.00186	0.00022	0.00030	0.00024	0.00034	0.00038	0.00019		
52	Service industry machines.....	0.00137	0.00070	0.00163	0.00436	0.00137	0.00082	0.03964	0.00187	0.00110	0.00088	0.00676		
53	Electric industrial equipment and apparatus.....	0.00068	0.00071	0.00079	0.00381	0.00378	0.00090	0.00734	0.00099	0.00101	0.00062	0.00331		
54	Household appliances.....	0.00019	0.00019	0.00047	0.00582	0.00039	0.00024	0.00027	0.00035	0.00030	0.00036	0.00193		
55	Electric lighting and wiring equipment.....	0.00057	0.00057	0.00140	0.00134	0.00075	0.00073	0.00707	0.00106	0.00139	0.00051	0.00648		
56	Radio, TV, and communication equipment.....	0.00061	0.00106	0.00028	0.00089	0.00123	0.00040	0.00811	0.00073	0.00062	0.00044	0.00106		
57	Electronic components and accessories.....	0.00063	0.00123	0.00026	0.01470	0.00457	0.00069	0.00297	0.00113	0.00140	0.00049	0.00084		
58	Misc. electrical machinery and supplies.....	0.00044	0.00030	0.00021	0.00071	0.00050	0.00040	0.00897	0.00039	0.00029	0.00051	0.00093		
59	Motor vehicles and equipment.....	0.00533	0.00285	0.00125	0.00637	0.00511	0.00277	0.00362	0.00306	0.00227	0.00499	0.00315		
60	Aircraft and parts.....	0.00018	0.00015	0.00007	0.00027	0.00035	0.00039	0.00048	0.00020	0.00021	0.00064	0.00032		
61	Other transportation equipment.....	0.00044	0.00056	0.00017	0.00169	0.00167	0.00087	0.00113	0.00124	0.00060	0.00114	0.00084		
62	Scientific and controlling instruments.....	0.00023	0.00030	0.00036	0.00329	0.00047	0.00043	0.00166	0.00039	0.00046	0.00025	0.00194		
63	Optical, ophthalmic, and photographic equipment.....	0.00065	0.00177	0.00030	0.00913	0.00776	0.00086	0.00069	0.01029	0.00544	0.00079	0.00087		
64	Miscellaneous manufacturing.....	0.00110	0.00219	0.00067	0.02107	0.00459	0.00227	0.01333	0.00431	0.00435	0.00086	0.00246		
65	Transportation and warehousing.....	0.02229	0.01731	0.00780	0.02550	0.03893	0.04702	0.03954	0.02112	0.02399	0.00399	0.00669		
66	Communications, except radio and TV.....	0.01760	0.03332	0.00386	0.02041	0.02424	0.00973	0.01208	0.01264	0.01331	0.00534	0.01352		

Table 5.—Industry-by-Commodity Total Requirements, 1972

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

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.	Commodity number												
		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	Ordinance and accessories
		1	2	3	4	5	6	7	8	9	10	11	12	13
1	Livestock and livestock products.....	1.46552	0.04607	0.04616	0.17406	0.00147	0.00137	0.00117	0.00160	0.00127	0.00163	0.00288	0.00264	0.00482
2	Other agricultural products.....	.37431	1.04990	.11602	.14622	.00128	.00132	.00125	.00141	.00110	.00141	.00285	.00265	.00333
3	Forestry and fishery products.....	.00178	.00057	.88194	.00319	.00059	.00080	.00104	.00028	.00035	.00042	.00738	.00274	.00086
4	Agricultural, forestry, and fishery services.....	.04938	.03595	.02212	.88761	.00105	.00039	.00043	.00072	.00043	.00058	.00143	.00058	.00053
5	Iron and ferroalloy ores mining.....	.00060	.00058	.00117	.00066	.98869	.00503	.00208	.00083	.00237	.00232	.00844	.00178	.00441
6	Nonferrous metal ores mining.....	.00093	.00137	.00146	.00115	.06696	1.12545	.00150	.00071	.00212	.00155	.00599	.00260	.00758
7	Coal mining.....	.00251	.00227	.00160	.00244	.01091	.00499	1.14008	.00182	.00787	.00983	.00419	.00252	.00519
8	Crude petroleum and natural gas.....	.01706	.02423	.01774	.02048	.01888	.01660	.01525	1.03888	.02601	.02470	.01639	.02310	.00783
9	Stone and clay mining and quarrying.....	.00187	.00382	.00068	.00181	.00619	.00240	.00129	.00098	.96662	.01910	.01360	.01306	.00101
10	Chemical and fertilizer mineral mining.....	.00171	.00404	.00070	.00153	.00083	.00132	.00055	.00030	.00130	1.03320	.00084	.00071	.00052
11	New construction.....										1.00000			
12	Maintenance and repair construction.....	.02547	.02522	.00875	.02886	.05205	.01958	.02005	.05729	.01996	.02959	.01228	1.01020	.01399
13	Ordinance and accessories.....	.00011	.00015	.00029	.00021	.00020	.00021	.00027	.00009	.00024	.00022	.00026	.00017	.96965
14	Food and kindred products.....	.21807	.01112	.03912	.03860	.00365	.00378	.00043	.00421	.00340	.00441	.00642	.00700	.01348
15	Tobacco manufactures.....	.00010	.00007	.00012	.00021	.00017	.00012	.00008	.00011	.00011	.00033	.00018	.00019	.00046
16	Broad and narrow fabrics, yarn and thread mills.....	.00241	.00264	.01732	.00816	.00181	.00220	.00475	.00056	.00190	.00209	.00478	.00298	.00317
17	Miscellaneous textile goods and floor coverings.....	.00252	.00286	.02659	.01249	.00118	.00132	.00088	.00036	.00094	.00071	.00710	.00273	.00112
18	Apparel.....	.00054	.00039	.00144	.00104	.00051	.00045	.00150	.00040	.00147	.00050	.00099	.00074	.00358
19	Miscellaneous fabricated textile products.....	.00076	.00087	.00017	.00346	.00063	.00031	.00031	.00015	.00042	.00034	.00062	.00090	.00109
20	Lumber and wood products, except containers.....	.00472	.00498	.00524	.00803	.00722	.01024	.01374	.00280	.00395	.00481	.10154	.03537	.00871
21	Wood containers.....	.00162	.00353	.00025	.00460	.00012	.00010	.00013	.00005	.00011	.00011	.00037	.00021	.00465
22	Household furniture.....	.00008	.00005	.00039	.00010	.00011	.00010	.00007	.00005	.00006	.00007	.00100	.00047	.00053
23	Other furniture and fixtures.....	.00010	.00009	.00025	.00017	.00023	.00014	.00012	.00009	.00016	.00013	.00247	.00106	.00066
24	Paper and allied products, except containers.....	.01373	.00676	.00715	.02383	.00539	.00533	.00768	.00301	.01083	.00922	.01431	.01009	.00870
25	Paperboard containers and boxes.....	.00797	.00815	.00376	.03204	.00176	.00187	.00151	.00086	.00188	.00161	.00422	.00340	.00605
26	Printing and publishing.....	.01174	.00852	.01243	.02140	.01120	.00877	.00939	.00705	.01169	.01241	.01802	.00939	.01370
27	Chemicals and selected chemical products.....	.04636	.01036	.02585	.05197	.02926	.04851	.01894	.01123	.02248	.03083	.01939	.02159	.01666
28	Plastics and synthetic materials.....	.00454	.00593	.00878	.00662	.00464	.00635	.00393	.00128	.00379	.00316	.00682	.00745	.00505
29	Drugs, cleaning and toilet preparations.....	.00480	.00261	.00160	.00224	.00110	.00145	.00082	.00049	.00119	.00135	.00131	.00141	.00142
30	Paints and allied products.....	.00145	.00161	.00320	.00169	.00223	.00134	.00118	.00212	.00132	.00148	.00689	.02996	.00168
31	Petroleum refining and related industries.....	.02798	.04255	.03217	.03500	.02277	.02331	.02388	.00966	.05112	.03003	.02843	.04204	.01076
32	Rubber and miscellaneous plastics products.....	.01290	.01073	.00805	.00877	.01830	.02568	.01385	.00288	.01440	.00817	.01746	.01624	.01047
33	Leather tanning and finishing.....	.00014	.00004	.00024	.00024	.00003	.00003	.00003	.00002	.00003	.00004	.00006	.00005	.00008
34	Footwear and other leather products.....	.00063	.00013	.00076	.00105	.00008	.00059	.00006	.00008	.00008	.00003	.00015	.00014	.00025
35	Glass and glass products.....	.00397	.00063	.00163	.00178	.00129	.00117	.00064	.00068	.00085	.00084	.00366	.00334	.00188
36	Stone and clay products.....	.00235	.00250	.00204	.00511	.00611	.01088	.00842	.00308	.06256	.00430	.08265	.03846	.00722
37	Primary iron and steel manufacturing.....	.01113	.00850	.02481	.01240	.06449	.04601	.03697	.01750	.04987	.04861	.07198	.03676	.09476
38	Primary nonferrous metals manufacturing.....	.00586	.00598	.01325	.00783	.01841	.01218	.01325	.00595	.01564	.01244	.06011	.02419	.00792
39	Metal containers.....	.00733	.00186	.01947	.00239	.00065	.00059	.00071	.00043	.00095	.00090	.00137	.00269	.00100
40	Heating, plumbing, and structural metal products.....	.00128	.00122	.00224	.00141	.00253	.00157	.00171	.00301	.00350	.00413	.08162	.02877	.00221
41	Screw machine products and stampings.....	.00445	.00141	.00290	.00290	.00607	.00623	.01597	.00140	.00546	.00990	.00701	.00502	.01590
42	Other fabricated metal products.....	.00467	.00363	.01959	.00993	.01494	.01142	.00717	.00612	.01058	.00568	.03211	.01582	.01674
43	Engines and turbines.....	.00129	.00119	.00935	.00551	.00540	.00506	.00414	.00330	.01339	.01005	.00179	.00130	.00168
44	Farm and garden machinery.....	.00911	.00884	.00114	.00683	.00081	.00077	.00133	.00035	.00114	.00090	.00071	.00043	.00053
45	Construction and mining machinery.....	.00074	.00090	.00106	.00095	.02027	.02470	.05437	.00738	.03794	.02663	.00399	.00975	.00408
46	Materials handling machinery and equipment.....	.00026	.00028	.00026	.00030	.00284	.00305	.00370	.00049	.00898	.00470	.00415	.00642	.00162
47	Metalworking machinery and equipment.....	.00080	.00069	.00145	.00101	.00230	.00214	.00233	.00106	.00230	.00181	.00396	.00211	.01278
48	Special industry machinery and equipment.....	.00083	.00113	.00101	.00105	.00081	.00095	.00077	.00036	.00087	.00078	.00157	.00101	.00086
49	General industrial machinery and equipment.....	.00218	.00241	.01017	.00238	.00728	.00460	.06331	.00564	.01027	.00853	.00825	.00500	.00793
50	Miscellaneous machinery, except electrical.....	.00137	.00112	.00181	.00160	.00238	.00633	.00322	.00517	.00379	.00236	.00399	.00230	.00916
51	Office, computing, and accounting machines.....	.00021	.00019	.00028	.00039	.00036	.00030	.00028	.00020	.00032	.00039	.00053	.00036	.00243
52	Service industry machines.....	.00119	.00101	.00178	.00176	.00189	.00096	.00095	.00146	.00137	.00135	.01192	.02089	.00246
53	Electric industrial equipment and apparatus.....	.00118	.00121	.00238	.00168	.00500	.00354	.00304	.00834	.00460	.00530	.01181	.00925	.00612
54	Household appliances.....	.00030	.00026	.00076	.00041	.00055	.00031	.00033	.00047	.00031	.00039	.00272	.00714	.00365
55	Electric lighting and wiring equipment.....	.00092	.00077	.00185	.00105	.00228	.00152	.00319	.00172	.00155	.00154	.01465	.01763	.00205
56	Radio, TV, and communication equipment.....	.00058	.00044	.00096	.00098	.00082	.00050	.00050	.00077	.00070	.00061	.00217	.00280	.03661
57	Electronic components and accessories.....	.00052	.00043	.00085	.00100	.00079	.00061	.00058	.00068	.00075	.00076	.00173	.00161	.02897
58	Misc. electrical machinery and supplies.....	.00125	.00133	.00083	.00090	.00128	.00155	.00070	.00052	.00112	.00093	.00181	.00167	.00166
59	Motor vehicles and equipment.....	.00372	.00403	.00667	.01317	.02773	.00528	.00516	.00212	.01427	.00810	.00653	.00548	.01052
60	Aircraft and parts.....	.00063	.00047	.00124	.00247	.00086	.00074	.00072	.00066	.00128	.00104	.00117	.00085	.01045
61	Other transportation equipment.....	.00082	.00059	.02979	.00184	.00266	.00230	.00109	.00043	.00117	.00165	.00159	.00099	.00075
62	Scientific and controlling instruments.....	.00054	.00046	.00401	.00068	.00082	.00083	.00068	.00066	.00064	.00064	.00451	.00455	.01073
63	Optical, ophthalmic, and photographic equipment.....	.00066	.00055	.00070	.00150	.00065	.00060	.00057	.00042	.00075	.00068	.00130	.00085	.00147
64	Miscellaneous manufacturing.....	.00150	.00132	.00462	.00340	.00372	.00349	.00203	.00124	.00273	.00711	.00307	.00546	.00283
65	Transportation and warehousing.....	.05140	.03458	.03758	.06102	.04247	.03269	.02630	.01559	.03880	.03883	.06414	.05159	.03638
66	Communications, except radio and TV.....	.01129	.00778	.00709	.01365	.00643	.00555	.00549	.00585	.00668	.00716	.01090	.00977	.01220
67	Radio and TV broadcasting.....	.00233	.00204	.00235	.00495	.00250	.00218	.00247	.00185	.00298	.00819	.00483	.00220	.00340
68	Electric, gas, water, and sanitary services.....	.02879	.02199	.01102	.02575	.08508	.05309	.03383	.02309	.05187	.11079	.02085	.01543	.02853
69	Wholesale and retail trade.....	.08901	.05844	.05179	.06520	.04488	.04786	.04909	.01647	.04748	.03390	.10796	.08222	.03851
70	Finance and insurance.....	.04243	.02999	.02357	.03304	.02134	.02							

Table 5.—Industry-by-Commodity

[Total requirements, direct and indirect, per dollar

Industry number	Commodity number	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
		14	15	16	17	18	19	20	21	22	23	24	25	26
1	Livestock and livestock products.....	0.41618	0.01114	0.01495	0.02242	0.00774	0.01123	0.00714	0.00430	0.00652	0.00363	0.00719	0.00423	0.00405
2	Other agricultural products.....	.19979	.22762	.09012	.03575	.03049	.04496	.02340	.01067	.01232	.00533	.00827	.00442	.00351
3	Forestry and fishery products.....	.00791	.00046	.00102	.00102	.00358	.00103	.09961	.04191	.01479	.00748	.01064	.00454	.00199
4	Agricultural, forestry, and fishery services.....	.01741	.00793	.00374	.00217	.00173	.00214	.00366	.00214	.00166	.00166	.00122	.00079	.00075
5	Iron and ferroalloy ores mining.....	.00120	.00030	.00079	.00081	.00050	.00077	.00142	.00311	.00231	.00653	.00073	.00094	.00046
6	Nonferrous metal ores mining.....	.00136	.00054	.00206	.00202	.00122	.00142	.00171	.00137	.00291	.00410	.00175	.00173	.00125
7	Coal mining.....	.00323	.00146	.00607	.00573	.00331	.00448	.00576	.00485	.00427	.00688	.01216	.00663	.00319
8	Crude petroleum and natural gas.....	.01336	.00819	.01869	.01846	.01131	.01339	.01845	.01421	.01144	.01052	.02121	.01714	.00920
9	Stone and clay mining and quarrying.....	.00164	.00111	.00170	.00162	.00094	.00122	.00174	.00118	.00158	.00162	.00594	.00291	.00143
10	Chemical and fertilizer mineral mining.....	.00127	.00103	.00365	.00340	.00162	.00208	.00080	.00047	.00101	.00089	.00210	.00155	.00094
11	New construction.....	.01880	.01047	.01910	.01878	.01287	.01582	.01587	.01624	.01473	.01595	.02711	.02386	.01721
12	Maintenance and repair construction.....	.00012	.00008	.00021	.00021	.00012	.00015	.00019	.00015	.00022	.00026	.00016	.00015	.00011
13	Ordnance and accessories.....	1.25489	.00570	.01367	.01455	.01271	.01572	.00927	.00729	.01404	.00804	.01924	.01146	.01098
14	Food and kindred products.....	.00013	1.28159	.00019	.00018	.00018	.00021	.00015	.00038	.00019	.00029	.00021	.00019	.00025
15	Tobacco manufactures.....	.00013	1.28159	.00019	.00018	.00018	.00021	.00015	.00038	.00019	.00029	.00021	.00019	.00025
16	Broad and narrow fabrics, yarn and thread mills.....	.00813	.00194	1.36014	.40278	.41731	.63775	.00446	.00239	.09573	.02653	.02073	.00940	.00704
17	Miscellaneous textile goods and floor coverings.....	.00234	.00152	.02582	1.03065	.01491	.11385	.00468	.00224	.02757	.02350	.01076	.00473	.00479
18	Apparel.....	.00100	.00044	.01805	.02647	1.33309	.03209	.00163	.00096	.00766	.00953	.00193	.00194	.00209
19	Miscellaneous fabricated textile products.....	.00111	.00040	.01155	.01412	.01918	.83499	.00181	.00095	.00509	.00775	.00206	.00106	.00085
20	Lumber and wood products, except containers.....	.00757	.00521	.01122	.01089	.00808	.01137	1.39165	.62222	.20681	.11173	.14453	.06121	.02504
21	Wood containers.....	.00160	.00141	.00038	.00021	.00018	.00025	.00218	.94819	.00086	.00068	.00038	.00059	.00011
22	Household furniture.....	.00020	.00006	.00015	.00073	.00015	.00163	.00214	.00112	.00020	.01436	.00030	.00016	.00011
23	Other furniture and fixtures.....	.00012	.00007	.00013	.00267	.00012	.00060	.00191	.00436	.00381	.94181	.00050	.00025	.00058
24	Paper and allied products, except containers.....	.03453	.02541	.02072	.03451	.02173	.03514	.01494	.00946	.02187	1.19604	.48977	.20509	.00058
25	Paperboard containers and boxes.....	.02974	.01196	.01557	.01855	.01839	.01958	.00721	.00396	.02384	.01695	.02769	1.01629	.01176
26	Printing and publishing.....	.02358	.02481	.01295	.01764	.01405	.01547	.01056	.01110	.01425	.01330	.02404	.02322	1.13129
27	Chemicals and selected chemical products.....	.03532	.02491	.14899	.14090	.06588	.08334	.02808	.01477	.03557	.02777	.06717	.05481	.03440
28	Plastics and synthetic materials.....	.00583	.00463	.21175	.20214	.08808	.10732	.00753	.00394	.03129	.01923	.02732	.02137	.00887
29	Drugs, cleaning and toilet preparations.....	.00705	.00238	.00992	.00745	.00646	.00970	.00131	.00092	.00222	.00167	.00422	.00267	.00175
30	Paints and allied products.....	.00188	.00073	.00349	.00484	.00186	.00241	.00793	.00392	.01272	.01025	.00294	.00210	.00165
31	Petroleum refining and related industries.....	.02106	.01380	.02751	.02736	.01669	.01968	.03091	.02244	.01748	.01507	.03186	.02660	.01385
32	Rubber and miscellaneous plastics products.....	.01947	.01850	.02270	.05500	.01825	.03909	.01493	.00893	.06821	.06176	.03309	.01936	.01812
33	Leather tanning and finishing.....	.00007	.00003	.00008	.00075	.00710	.00638	.00010	.00006	.00235	.00117	.00006	.00006	.00032
34	Footwear and other leather products.....	.00026	.00009	.00030	.00045	.00102	.00150	.00037	.00020	.00020	.00018	.00020	.00018	.00031
35	Glass and glass products.....	.01972	.00054	.00665	.00711	.00260	.00429	.00424	.00251	.00858	.01005	.00158	.00174	.00092
36	Stone and clay products.....	.00813	.00163	.00347	.00587	.00253	.00326	.01678	.00872	.01207	.00949	.00865	.00517	.00340
37	Primary iron and steel manufacturing.....	.02449	.00545	.01087	.01178	.00811	.01323	.03057	.06669	.05027	.01452	.01336	.01820	.00856
38	Primary nonferrous metals manufacturing.....	.01106	.00343	.00902	.00934	.00737	.00778	.01580	.01140	.02794	.03846	.01086	.01419	.01099
39	Metal containers.....	.03764	.00085	.00289	.00286	.00173	.00220	.00343	.00175	.00233	.00181	.00218	.00786	.00337
40	Heating, plumbing, and structural metal products.....	.00112	.00056	.00123	.00123	.00079	.00099	.00540	.00282	.00218	.00753	.00176	.00136	.00089
41	Screw machine products and stampings.....	.00459	.00107	.00171	.00221	.00171	.00832	.00904	.00724	.01193	.02649	.00274	.00417	.00163
42	Other fabricated metal products.....	.00610	.00581	.00432	.00411	.00369	.00391	.04564	.02325	.06324	.06365	.01582	.00910	.00721
43	Engines and turbines.....	.00693	.00052	.00080	.00080	.00056	.00077	.00139	.00119	.00133	.00132	.00095	.00094	.00055
44	Farm and garden machinery.....	.00359	.00211	.00104	.00066	.00051	.00170	.00049	.00044	.00057	.00072	.00037	.00130	.00030
45	Construction and mining machinery.....	.00067	.00036	.00091	.00087	.00052	.00067	.00130	.00099	.00104	.00143	.00136	.00090	.00050
46	Materials handling machinery and equipment.....	.00024	.00013	.00187	.00111	.00088	.00108	.00187	.00092	.00066	.00249	.00064	.00041	.00030
47	Metalworking machinery and equipment.....	.00131	.00056	.00121	.00134	.00073	.00110	.00284	.00212	.00329	.00505	.00142	.00328	.00086
48	Special industry machinery and equipment.....	.00158	.00060	.01187	.01040	.00530	.00656	.00386	.00365	.00500	.00175	.00511	.00575	.00409
49	General industrial machinery and equipment.....	.00270	.00160	.00365	.00543	.00235	.00238	.00552	.00430	.00402	.00708	.00385	.00303	.00163
50	Miscellaneous machinery, except electrical.....	.00179	.00117	.00326	.00312	.00207	.00278	.00418	.00451	.00377	.00431	.00277	.00309	.00144
51	Office, computing, and accounting machines.....	.00030	.00024	.00041	.00043	.00051	.00040	.00033	.00037	.00047	.00058	.00075	.00050	.00047
52	Service industry machines.....	.00133	.00054	.00116	.00110	.00086	.00104	.00203	.00140	.00121	.00272	.00123	.00111	.00090
53	Electric industrial equipment and apparatus.....	.00141	.00082	.00183	.00186	.00128	.00149	.00287	.00232	.00268	.00553	.00181	.00171	.00125
54	Household appliances.....	.00037	.00018	.00036	.00035	.00104	.00109	.00051	.00037	.00043	.00301	.00063	.00044	.00033
55	Electric lighting and wiring equipment.....	.00096	.00042	.00090	.00098	.00066	.00080	.00181	.00141	.00191	.00213	.00118	.00101	.00072
56	Radio, TV, and communication equipment.....	.00081	.00037	.00069	.00074	.00064	.00066	.00108	.00084	.00270	.00123	.00081	.00075	.00101
57	Electronic components and accessories.....	.00066	.00055	.00154	.00290	.00104	.00124	.00084	.00076	.00275	.00114	.00092	.00086	.00111
58	Misc. electrical machinery and supplies.....	.00081	.00045	.00052	.00049	.00040	.00048	.00101	.00077	.00072	.00086	.00053	.00056	.00040
59	Motor vehicles and equipment.....	.00505	.00230	.00314	.00345	.00284	.00355	.01010	.00738	.00577	.00799	.00412	.00412	.00353
60	Aircraft and parts.....	.00072	.00044	.00076	.00086	.00054	.00071	.00090	.00091	.00082	.00121	.00098	.00100	.00074
61	Other transportation equipment.....	.00113	.00056	.00078	.00090	.00095	.00209	.00534	.00314	.00154	.00465	.00148	.00132	.00087
62	Scientific and controlling instruments.....	.00074	.00035	.00167	.00187	.00090	.00114	.00166	.00159	.00199	.00335	.00329	.00164	.00103
63	Optical, ophthalmic, and photographic equipment.....	.00096	.00089	.00205	.00268	.00128	.00170	.00076	.00067	.00151	.00116	.00397	.00217	.00089
64	Miscellaneous manufacturing.....	.00190	.00156	.00211	.00456	.02282	.00927	.00393	.00343	.00971	.00684	.00297	.00323	.00886
65	Transportation and warehousing.....	.06782	.04064	.05860	.07036	.04756	.06182	.07072	.08791	.06580	.07015	.08978	.10291	.08350
66	Communications, except radio and TV.....	.01035	.00622	.01115	.01338	.01250	.01288	.00870	.01111	.01112	.01010	.00962	.01179	.01634
67	Radio and TV broadcasting.....	.00356	.00419	.00313	.00364	.00320	.00314	.00247	.00256	.00323	.00285	.00310	.00310	.00429
68	Electric, gas, water, and sanitary services.....	.02809	.01125	.04596	.04455	.02864	.03433	.02791	.03006	.02711	.03141	.05433	.03799	.02295
69	Wholesale and retail trade.....	.09396	.02474	.08532	.09174	.08553	.09073	.07972	.10063	.08965	.07328	.08017	.06971	.05292
70	Finance and insurance.....	.02863	.01710	.02111	.02100	.02313	.02273	.02557	.03					

Total Requirements, 1972—Continued

of delivery to final demand, 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 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	
0.00750	0.00582	0.01081	0.01409	0.00282	.00447	0.19192	0.03837	0.00246	0.00272	0.00191	0.00221	0.00332	0.00272	0.00216	0.00231	0.00211	0.00272	0.00214	0.00257	1
.00656	.00490	.00814	.01422	.00195	.00564	.09271	.02377	.00242	.00265	.00169	.00207	.00258	.00223	.00182	.00207	.00162	.00209	.00175	.00192	2
.00124	.00102	.00104	.00421	.00043	.00110	.00388	.00215	.00207	.00150	.00093	.00117	.00094	.00105	.00087	.00139	.00050	.00081	.00075	.00070	3
.00106	.00092	.00121	.00146	.00069	.00090	.00824	.00211	.00129	.00076	.00059	.00109	.00105	.00115	.00079	.00073	.00052	.00060	.00048	.00046	4
.00328	.00166	.00125	.00281	.00092	.00142	.00094	.00084	.00082	.00239	.00576	.00309	.02038	.01551	.01645	.01077	.01025	.01014	.01064	.00995	5
.01164	.00554	.00232	.00819	.00135	.00252	.00167	.00196	.00141	.00406	.01097	.14821	.01733	.01667	.01074	.01299	.01131	.00550	.00480	.00765	6
.01165	.01163	.00346	.00570	.00462	.00537	.00429	.00293	.00505	.01226	.03425	.00627	.01375	.01159	.01158	.00854	.00766	.00762	.00789	.00723	7
.06488	.03478	.01540	.03120	.55886	.01627	.01706	.01060	.01392	.01952	.01580	.01688	.01284	.01148	.01087	.01142	.00918	.00892	.00894	.00932	8
.00721	.00317	.00220	.00519	.00585	.00235	.00180	.00104	.01093	.07010	.00515	.00162	.00242	.00224	.00207	.00218	.00184	.00156	.00190	.00148	9
.02704	.00979	.00264	.00687	.00107	.00405	.00377	.00164	.00154	.00482	.00203	.00122	.00115	.00090	.00095	.00116	.00060	.00067	.00063	.00061	10
.02919	.02727	.01965	.02155	.05598	.01895	.01831	.01309	.02100	.02400	.03129	.02007	.02184	.01868	.01870	.01751	.01399	.01402	.01680	.01468	11
.00111	.00042	.00037	.00013	.00038	.00038	.00017	.00017	.00014	.00016	.00039	.00016	.00022	.00050	.00418	.00115	.00411	.00076	.00263	.00023	12
.02561	.01761	.03468	.04168	.00756	.01056	.57874	.11136	.00621	.00728	.0514	.00569	.01355	.00712	.00563	.00613	.00571	.00760	.00574	.00704	13
.00021	.00025	.00031	.00026	.00013	.00019	.00024	.00029	.00017	.00022	.00014	.00018	.00014	.00023	.00012	.00017	.00014	.00019	.00019	.00028	14
.00252	.01115	.00482	.00296	.00116	.04363	.00265	.07605	.00473	.00751	.00192	.00467	.00264	.00244	.00381	.00340	.00205	.00342	.00264	.00232	15
.00131	.00231	.00294	.00128	.00097	.03677	.00167	.05301	.00254	.00184	.00095	.00196	.00118	.00120	.00149	.00255	.00112	.00242	.00190	.00177	16
.00087	.00115	.00089	.00057	.00039	.00329	.00074	.01339	.00166	.00097	.00130	.00098	.00138	.00149	.00172	.00150	.00139	.00137	.00124	.00088	17
.00082	.00060	.00167	.00062	.00027	.00236	.00075	.00403	.00095	.00047	.00064	.00077	.00105	.00086	.00244	.00072	.00056	.00089	.00071	.00043	18
.00935	.00915	.00750	.00731	.00427	.01388	.00583	.01958	.02807	.01303	.01190	.01486	.01065	.01480	.01085	.01880	.00561	.00968	.00698	.00803	19
.00014	.00011	.00017	.00017	.00006	.00021	.00076	.00027	.00254	.00031	.00059	.00144	.00038	.00077	.00191	.00071	.00042	.00110	.00076	.00103	20
.00008	.00010	.00025	.00009	.00006	.00150	.00013	.00025	.00729	.00010	.00010	.00009	.00047	.00086	.00026	.00011	.00018	.00012	.00012	.00012	21
.00010	.00011	.00010	.00010	.00010	.00140	.00009	.00032	.00048	.00013	.00007	.00014	.00032	.00086	.00050	.00098	.00027	.00057	.00053	.00255	22
.02350	.03952	.03720	.02345	.01052	.03937	.02167	.03013	.03553	.03771	.00731	.01001	.02238	.01231	.01345	.01761	.00791	.00919	.00705	.00751	23
.00876	.01534	.02989	.01456	.00513	.02155	.01650	.02199	.05262	.00780	.00325	.00546	.01137	.00916	.00926	.01249	.00594	.00647	.00297	.00385	24
.01627	.01673	.04579	.02839	.01151	.01418	.01751	.01533	.01336	.01189	.01141	.01251	.06570	.01201	.01078	.01464	.00983	.01212	.01143	.01158	25
1.07591	.44643	.11909	.28960	.04113	.13293	.10223	.05394	.04342	.04709	.03342	.04668	.02901	.02235	.02414	.03571	.01378	.01651	.01456	.01623	26
.03880	.92355	.01801	.10019	.00814	.18056	.00684	.03800	.01122	.01082	.00883	.01742	.00778	.00586	.00652	.01021	.00431	.00651	.00589	.00630	27
.02244	.01411	1.00661	.01614	.00523	.00615	.04450	.01158	.00203	.00219	.00130	.00159	.00252	.00215	.00188	.00206	.00083	.00101	.00088	.00090	28
.00796	.01042	.00446	.97831	.00259	.00440	.00190	.00242	.00397	.00410	.00236	.00364	.02008	.01040	.00354	.00831	.00211	.00396	.00336	.00224	29
.10651	.05324	.02472	.05294	1.05678	.02424	.02684	.01620	.01728	.03250	.02008	.02208	.01750	.01591	.01476	.01585	.01300	.01265	.01266	.01348	30
.00198	.04134	.05228	.01724	.00631	.98801	.01383	.08092	.04941	.02011	.00857	.02048	.01043	.01377	.01728	.03198	.01180	.04001	.02574	.02707	31
.00010	.00007	.00008	.00007	.00003	.00022	1.09562	.19483	.00005	.00012	.00005	.00004	.00006	.00005	.00006	.00005	.00003	.00005	.00005	.00003	32
.00040	.00028	.00030	.00028	.00012	.00059	.00373	1.01253	.00011	.00026	.00015	.00012	.00013	.00014	.00010	.00012	.00009	.00015	.00014	.00010	33
.00172	.00335	.01906	.00282	.00089	.00639	.01017	.00333	1.06453	.00200	.00113	.00176	.00151	.00927	.00228	.00265	.00124	.00144	.00119	.00103	34
.00538	.00395	.00371	.01165	.00798	.00811	.00651	.00395	.02266	1.06801	.01343	.00840	.00784	.01012	.00914	.01033	.01324	.00876	.01352	.00713	35
.02806	.01703	.02220	.03927	.01823	.02561	.01626	.01625	.01542	.02458	1.23509	.05255	.43560	.33116	.34917	.26455	.21890	.21908	.22835	.21320	36
.03537	.01943	.01459	.03996	.01055	.01618	.00919	.01661	.01093	.01460	1.63873	.17095	.16619	.10545	.14917	.11538	.05767	.05187	.04267	.07513	37
.01268	.00763	.02662	.00688	.01035	.00282	.01935	.00461	.00145	.00148	.00151	.00167	.99528	.00168	.00539	.00252	.00090	.00136	.00092	.00093	38
.00268	.00172	.00119	.00298	.00257	.00217	.00102	.00107	.00124	.00262	.00531	.00298	.00547	.95086	.00665	.01047	.02526	.00878	.01260	.01501	39
.00268	.00223	.00706	.00298	.00166	.01060	.00304	.00892	.00541	.00309	.01297	.00723	.01323	.03082	.96686	.02691	.02939	.03586	.02124	.01708	40
.00585	.00506	.00947	.00783	.00625	.01467	.00419	.01449	.00617	.01523	.02013	.01618	.02064	.04332	.02808	.87006	.02095	.02121	.02173	.02874	41
.00141	.00097	.00082	.00094	.00220	.00112	.00066	.00093	.00029	.00019	.00239	.00208	.00141	.00159	.00312	.00399	.98126	.06194	.03528	.01814	42
.00044	.00038	.00070	.00052	.00034	.00047	.00177	.00064	.00032	.00040	.00302	.00072	.00130	.00211	.00219	.00257	.00767	.97840	.02005	.00333	43
.00270	.00161	.00073	.00142	.00453	.00093	.00076	.00061	.00110	.00624	.00643	.00435	.00290	.00338	.00274	.00558	.04072	.02185	.99601	.02713	44
.00057	.00041	.00027	.00037	.00054	.00045	.00023	.00145	.00038	.00118	.00185	.00152	.00090	.00184	.00105	.00149	.00070	.00214	.00882	.95198	45
.00203	.00132	.00159	.00182	.00106	.00583	.00095	.00154	.00372	.00230	.01344	.01469	.01186	.01267	.02040	.01819	.01691	.02227	.02106	.02054	46
.00980	.00862	.00192	.00329	.00068	.00573	.00158	.00574	.00715	.00413	.00285	.00123	.00167	.00410	.00161	.00342	.00323	.00430	.00527	.00637	47
.00960	.00882	.00326	.00445	.00536	.00458	.00247	.00250	.00486	.00401	.02509	.01527	.01248	.01790	.01011	.02095	.04666	.06660	.06783	.06874	48
.00259	.00264	.00208	.00213	.00353	.00426	.00214	.00302	.00492	.00350	.00972	.00853	.00759	.01248	.02139	.01304	.04084	.02190	.02454	.03075	49
.00077	.00048	.00065	.00049	.00025	.00043	.00030	.00048	.00033	.00031	.00220	.00039	.00069	.0013							

Table 5.—Industry-by-Commodity

[Total requirements, direct and 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.	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
		47	48	49	50	51	52	53	54	55	56	57	58	59
1	Livestock and livestock products.....	0.00241	0.00268	0.00267	0.00222	0.00478	0.00240	0.00292	0.00257	0.00260	0.00392	0.00347	0.00251	0.00225
2	Other agricultural products.....	0.00179	0.00210	0.00213	0.00174	0.00331	0.00198	0.00226	0.00256	0.00231	0.00292	0.00254	0.00208	0.00282
3	Forestry and fishery products.....	0.00055	0.00102	0.00081	0.00051	0.00061	0.00085	0.00084	0.00107	0.00083	0.00092	0.00058	0.00072	0.00082
4	Agricultural, forestry, and fishery services.....	0.00042	0.00055	0.00053	0.00054	0.00073	0.00056	0.00063	0.00055	0.00066	0.00066	0.00069	0.00061	0.00055
5	Iron and ferrous ores mining.....	0.00707	0.00700	0.00911	0.00678	0.00213	0.00662	0.00550	0.00684	0.00494	0.00189	0.00216	0.00401	0.00815
6	Nonferrous metal ores mining.....	0.00640	0.00793	0.00814	0.00940	0.00596	0.01261	0.01366	0.01071	0.01190	0.00671	0.00856	0.02094	0.00682
7	Coal mining.....	0.00567	0.00569	0.00702	0.00628	0.00281	0.00590	0.00541	0.00618	0.00513	0.00267	0.00321	0.00454	0.00707
8	Crude petroleum and natural gas.....	0.00985	0.01116	0.01131	0.01338	0.00697	0.01051	0.01024	0.00964	0.00911	0.00669	0.00879	0.01005	0.00924
9	Stone and clay mining and quarrying.....	0.00159	0.00139	0.00178	0.00151	0.00086	0.00151	0.00174	0.00188	0.00173	0.00084	0.00148	0.00135	0.00173
10	Chemical and fertilizer mineral mining.....	0.00054	0.00094	0.00059	0.00056	0.00049	0.00113	0.00072	0.00097	0.00094	0.00048	0.00090	0.00124	0.00082
11	New construction.....													
12	Maintenance and repair construction.....	0.01312	0.01466	0.01460	0.01357	0.01384	0.01338	0.01439	0.01503	0.01337	0.01219	0.01337	0.01449	0.01449
13	Ordnance and accessories.....	0.00019	0.00156	0.00029	0.00160	0.00121	0.00045	0.00033	0.00037	0.00028	0.01007	0.00095	0.00037	0.00136
14	Food and kindred products.....	0.00663	0.00736	0.00708	0.00591	0.01328	0.00714	0.00797	0.00678	0.00700	0.01077	0.0056	0.00683	0.00548
15	Tobacco manufactures.....	0.00027	0.00026	0.00023	0.00019	0.00043	0.00023	0.00029	0.00023	0.00026	0.00033	0.00032	0.00026	0.00014
16	Broad and narrow fabrics, yarn and thread mills.....	0.00205	0.00239	0.00390	0.00311	0.00293	0.00313	0.00278	0.01008	0.00719	0.00427	0.00329	0.00399	0.01936
17	Miscellaneous textile goods and floor coverings.....	0.00094	0.00159	0.00594	0.00335	0.00161	0.00195	0.00151	0.00455	0.00212	0.00167	0.00174	0.00257	0.00874
18	Apparel.....	0.00145	0.00112	0.00142	0.00269	0.00120	0.00139	0.00178	0.00136	0.00158	0.00191	0.00201	0.00245	0.00222
19	Miscellaneous fabricated textile products.....	0.00063	0.00039	0.00045	0.00046	0.00048	0.00052	0.00052	0.00064	0.00106	0.00058	0.00054	0.00058	0.01555
20	Lumber and wood products, except containers.....	0.00595	0.01240	0.00956	0.00554	0.00522	0.01026	0.00522	0.01303	0.00987	0.01009	0.00563	0.00828	0.01021
21	Wood containers.....	0.00083	0.00064	0.00094	0.00040	0.00022	0.00181	0.00118	0.00183	0.00036	0.00117	0.00033	0.00039	0.00077
22	Household furniture.....	0.00007	0.00012	0.00009	0.00007	0.00046	0.00019	0.00019	0.00320	0.00047	0.01886	0.00190	0.00016	0.00056
23	Other furniture and fixtures.....	0.00064	0.00021	0.00050	0.00030	0.00062	0.00116	0.00034	0.00078	0.00077	0.00023	0.00028	0.00019	0.00087
24	Paper and allied products, except containers.....	0.00684	0.00780	0.01073	0.00664	0.02892	0.01396	0.01401	0.01909	0.01816	0.01449	0.02059	0.01265	0.01178
25	Paperboard containers and boxes.....	0.00346	0.00438	0.00624	0.01020	0.00807	0.01196	0.00790	0.02120	0.02210	0.00767	0.00987	0.01055	0.00715
26	Printing and publishing.....	0.00962	0.01114	0.01070	0.00974	0.01639	0.01238	0.01234	0.01538	0.01159	0.02005	0.01330	0.01527	0.01200
27	Chemicals and selected chemical products.....	0.01442	0.0104	0.01642	0.01516	0.01648	0.02229	0.02243	0.0074	0.01813	0.01661	0.01388	0.04505	0.02372
28	Plastics and synthetic materials.....	0.00509	0.00631	0.00572	0.00458	0.00843	0.00924	0.01009	0.01940	0.01769	0.01019	0.01323	0.01928	0.01412
29	Drugs, cleaning and toilet preparations.....	0.00112	0.00119	0.00093	0.00113	0.00117	0.00145	0.00132	0.00245	0.00145	0.00121	0.00148	0.00168	0.00151
30	Paints and allied products.....	0.00201	0.00226	0.00156	0.00182	0.00250	0.00496	0.00445	0.00888	0.00431	0.00201	0.00161	0.00222	0.00640
31	Petroleum refining and related industries.....	0.01473	0.01707	0.01697	0.02104	0.00999	0.01560	0.01488	0.01358	0.01273	0.00941	0.01238	0.01413	0.01312
32	Rubber and miscellaneous plastics products.....	0.02009	0.02297	0.01463	0.01168	0.02865	0.02769	0.01943	0.04782	0.03862	0.02016	0.02322	0.04271	0.04665
33	Leather tanning and finishing.....	0.00004	0.00011	0.00004	0.00005	0.00007	0.00008	0.00008	0.00006	0.00007	0.00011	0.00006	0.00005	0.00019
34	Footwear and other leather products.....	0.00012	0.00020	0.00012	0.00013	0.00028	0.00017	0.00026	0.00017	0.00012	0.00025	0.00020	0.00014	0.00016
35	Glass and glass products.....	0.00111	0.00080	0.00107	0.00094	0.00549	0.00233	0.00261	0.00894	0.03334	0.00935	0.02698	0.00284	0.01679
36	Stone and clay products.....	0.01335	0.00724	0.01305	0.01089	0.00457	0.00983	0.01483	0.01334	0.01203	0.00485	0.01018	0.00845	0.01007
37	Primary iron and steel manufacturing.....	1.58009	1.50112	1.99822	1.4640	0.4712	1.4125	1.1593	1.4575	1.0742	0.9392	0.94504	0.7235	1.7616
38	Primary nonferrous metals manufacturing.....	0.6927	0.8339	0.8293	1.0232	0.6347	1.3420	1.4516	1.1043	0.7358	0.7358	0.4504	0.22346	0.6728
39	Metal containers.....	0.00128	0.00115	0.00093	0.00093	0.0107	0.0127	0.0116	0.0177	0.0164	0.00098	0.00111	0.00125	0.00156
40	Heating, plumbing, and structural metal products.....	0.00818	0.02023	0.01967	0.00407	0.00757	0.01910	0.00660	0.01106	0.00265	0.00275	0.00175	0.00184	0.00374
41	Screw machine products and stampings.....	0.04847	0.01663	0.01812	0.02066	0.02453	0.03081	0.02265	0.03882	0.03379	0.02436	0.02698	0.01921	0.09877
42	Other fabricated metal products.....	0.02468	0.02626	0.02519	0.03361	0.02005	0.03601	0.01817	0.03735	0.02244	0.02068	0.02485	0.02525	0.04219
43	Engines and turbines.....	0.00174	0.01101	0.01152	0.00348	0.00117	0.00871	0.01952	0.00239	0.00150	0.00082	0.00088	0.00161	0.01364
44	Farm and garden machinery.....	0.00062	0.00327	0.00328	0.00061	0.00042	0.00174	0.00074	0.00100	0.00214	0.00041	0.00041	0.00121	0.00121
45	Construction and mining machinery.....	0.00293	0.00546	0.01034	0.00270	0.00128	0.00361	0.00393	0.00172	0.00130	0.00072	0.00090	0.00148	0.00411
46	Materials handling machinery and equipment.....	0.00163	0.00324	0.00340	0.00157	0.00065	0.00135	0.00087	0.00056	0.00044	0.00060	0.00209	0.00052	0.00114
47	Metalworking machinery and equipment.....	0.94067	0.92965	0.92232	0.93031	0.0694	0.09888	0.01188	0.01039	0.00990	0.00702	0.00704	0.01167	0.01024
48	Special industry machinery and equipment.....	0.01208	0.03540	0.01259	0.00387	0.0241	0.0017	0.00213	0.00284	0.0136	0.00157	0.00148	0.00136	0.00204
49	General industrial machinery and equipment.....	0.02892	0.06016	0.05964	0.02255	0.00588	0.03758	0.01381	0.02116	0.01303	0.00330	0.00386	0.01733	0.01341
50	Miscellaneous machinery, except electrical.....	0.03062	0.02302	0.02172	0.00976	0.00673	0.00958	0.01013	0.00824	0.00641	0.00605	0.00662	0.00779	0.01998
51	Office, computing, and accounting machines.....	0.00063	0.00655	0.00087	0.00321	1.07010	0.00110	0.00439	0.00101	0.00109	0.01341	0.06158	0.00129	0.00154
52	Service industry machines.....	0.00203	0.00366	0.01309	0.00302	0.0151	0.96841	0.00112	0.08272	0.0421	0.01017	0.00975	0.01211	0.01559
53	Electrical industrial equipment and apparatus.....	0.03290	0.03506	0.04674	0.01276	0.03648	0.10690	0.05879	0.04246	0.01974	0.00469	0.00782	0.01964	0.00884
54	Household appliances.....	0.00035	0.00103	0.00094	0.00041	0.00051	0.04953	0.00122	0.01058	0.00978	0.00178	0.00052	0.00185	0.00160
55	Electric lighting and wiring equipment.....	0.00460	0.00755	0.00284	0.00386	0.00734	0.00900	0.02339	0.01635	0.03967	0.01583	0.00683	0.01687	0.00993
56	Radio, TV, and communication equipment.....	0.00135	0.00400	0.00180	0.00122	0.01985	0.00438	0.01750	0.00365	0.01102	1.04899	0.04255	0.00515	0.00885
57	Electronic components and accessories.....	0.00256	0.01399	0.00415	0.00161	1.7045	0.00562	0.03402	0.00434	0.02063	2.0109	1.03560	0.02424	0.00471
58	Misc. electrical machinery and supplies.....	0.00188	0.00237	0.00269	0.02090	0.00213	0.00345	0.01437	0.00540	0.03077	0.00469	0.00782	0.95972	0.02696
59	Motor vehicles and equipment.....	0.01648	0.00636	0.01183	0.01471	0.00628	0.01501	0.01561	0.01262	0.01681	0.00735	0.01569	0.05269	1.26769
60	Aircraft and parts.....	0.00230	0.00909	0.01443	0.00300	0.00106	0.00407	0.00428	0.00148	0.00077	0.00604	0.00067	0.00109	0.00272
61	Other transportation equipment.....	0.00091	0.00249	0.00184	0.00091	0.00087	0.00172	0.00739	0.00141	0.00099	0.00084	0.00072	0.00091	0.00250
62	Scientific and controlling instruments.....	0.00621												

Total Requirements, 1972—Continued

of delivery to final demand, at producers' prices]

Alroairt 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 etc. auto	Business services	Eating and drinking places	Automobile repair and services	Amusements	Medical, educ. services and nonprofit org.	Federal Government enterprises	State and local government enterprises	Industry number
60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	
0.00674	0.00326	0.00434	0.00272	0.00504	0.00319	0.00164	0.00455	0.00178	0.00253	0.00434	0.00138	0.00334	0.00330	0.14071	0.00182	0.01948	0.01075	0.00105	0.00290	1
0.00449	0.00421	0.00398	0.00220	0.00759	0.00365	0.00125	0.00978	0.00155	0.00177	0.00286	0.00185	0.00384	0.00286	0.07906	0.00175	0.04395	0.00629	0.00100	0.00274	2
0.00070	0.00692	0.00105	0.00069	0.00429	0.00044	0.00021	0.00018	0.00039	0.00030	0.00042	0.00024	0.00062	0.00065	0.00836	0.00045	0.00051	0.00056	0.00014	0.00098	3
0.00072	0.00083	0.00066	0.00048	0.00045	0.00065	0.00272	0.00223	0.00214	0.00084	0.00058	0.00344	0.00073	0.00073	0.00671	0.00049	0.00873	0.00167	0.00023	0.00080	4
0.00281	0.00755	0.00275	0.00176	0.00287	0.00065	0.00015	0.00009	0.00050	0.00014	0.00013	0.00015	0.00126	0.00037	0.00051	0.00268	0.00021	0.00025	0.00015	0.00072	5
0.00800	0.00866	0.00836	0.00606	0.01069	0.00076	0.00039	0.00016	0.00061	0.00021	0.00023	0.00023	0.00106	0.00066	0.00066	0.00273	0.00041	0.00047	0.00021	0.00123	6
0.00327	0.00644	0.00339	0.00380	0.00434	0.00167	0.00074	0.00050	0.00582	0.00145	0.00123	0.00067	0.00284	0.00145	0.00255	0.00313	0.00155	0.00233	0.00112	0.00503	7
0.00815	0.01068	0.00903	0.00816	0.1295	0.02627	0.00280	0.00229	0.1200	0.00753	0.00474	0.00420	0.01234	0.00701	0.00884	0.00994	0.00667	0.00820	0.0041	0.02014	8
0.00079	0.00182	0.00114	0.00125	0.00273	0.00101	0.00051	0.00026	0.00138	0.00033	0.00033	0.00093	0.00091	0.00060	0.00900	0.00141	0.00067	0.00062	0.00026	0.00410	9
0.00040	0.00078	0.00062	0.00148	0.00116	0.00024	0.00007	0.00010	0.00039	0.00010	0.00011	0.00009	0.00043	0.00033	0.00056	0.00046	0.00033	0.00032	0.00009	0.00124	10
0.01385	0.01428	0.01273	0.01406	0.01884	0.04867	0.0428	0.01310	0.07936	0.01283	0.01321	0.06854	0.02544	0.01514	0.01777	0.01946	0.02944	0.02731	0.01090	0.28819	11
0.01089	0.00556	0.00239	0.00038	0.00021	0.00028	0.00023	0.00005	0.00008	0.00005	0.00008	0.00003	0.00013	0.00034	0.00008	0.00051	0.00009	0.00009	0.00005	0.00012	12
0.01890	0.00744	0.01182	0.00763	0.01278	0.00853	0.00326	0.00474	0.00396	0.00676	0.01208	0.0205	0.00863	0.00854	0.40003	0.00476	0.01823	0.02701	0.00278	0.00787	13
0.00057	0.00021	0.00030	0.00020	0.00029	0.00014	0.00009	0.00010	0.00011	0.00014	0.00034	0.00005	0.00017	0.00023	0.00008	0.00012	0.00039	0.00021	0.00008	0.00027	14
0.00398	0.01310	0.01671	0.00306	0.03332	0.00241	0.00071	0.00070	0.00120	0.00111	0.00135	0.00045	0.01697	0.00204	0.00228	0.00676	0.00236	0.00404	0.00254	0.00232	16
0.00143	0.01832	0.00854	0.00210	0.01079	0.00153	0.00030	0.00047	0.00055	0.00053	0.00054	0.00035	0.00298	0.00109	0.00141	0.00298	0.00170	0.00110	0.00079	0.00118	17
0.00171	0.00361	0.00258	0.00101	0.00415	0.00173	0.00087	0.00033	0.00107	0.00060	0.00045	0.00017	0.02019	0.00123	0.00078	0.00382	0.00100	0.00393	0.00040	0.00303	18
0.00047	0.00368	0.00152	0.00044	0.00375	0.00106	0.00016	0.00031	0.00027	0.00058	0.00086	0.00015	0.00650	0.00048	0.00107	0.00461	0.00122	0.00233	0.00222	0.00064	19
0.00487	0.09502	0.01222	0.00777	0.05586	0.00402	0.00200	0.00181	0.00430	0.00233	0.00271	0.00270	0.00632	0.00683	0.00449	0.00487	0.00274	0.00312	0.00130	0.00124	20
0.00076	0.00052	0.00029	0.00015	0.00111	0.00007	0.00005	0.00005	0.00005	0.00003	0.00004	0.00004	0.00011	0.00007	0.00058	0.00032	0.00021	0.00008	0.00002	0.00009	21
0.00117	0.01054	0.00154	0.00019	0.00210	0.00018	0.00040	0.00003	0.00006	0.00004	0.00005	0.00004	0.00018	0.00009	0.00010	0.00033	0.00006	0.00008	0.00004	0.00016	22
0.00198	0.00369	0.00118	0.00038	0.00128	0.00017	0.00005	0.00003	0.00011	0.00005	0.00005	0.00008	0.00014	0.00009	0.00007	0.00102	0.00007	0.00008	0.00005	0.00032	23
0.00926	0.01111	0.02597	0.04448	0.01664	0.00676	0.00413	0.00482	0.00504	0.01128	0.01568	0.02390	0.01644	0.03968	0.02156	0.00896	0.00803	0.01046	0.00498	0.00840	24
0.00411	0.00589	0.01126	0.00785	0.03085	0.00198	0.00074	0.00074	0.00113	0.00267	0.00189	0.00057	0.00577	0.00801	0.01671	0.00378	0.00190	0.00320	0.00104	0.00197	25
0.01689	0.01207	0.01647	0.01467	0.02174	0.01419	0.01136	0.01866	0.01004	0.01507	0.04287	0.00523	0.01917	0.18592	0.01697	0.01100	0.02210	0.02393	0.01245	0.01521	26
0.01284	0.02278	0.02112	0.06310	0.04281	0.00807	0.00236	0.00336	0.01169	0.00333	0.00390	0.00293	0.01559	0.01176	0.01618	0.01318	0.01050	0.01188	0.00306	0.03797	27
0.00687	0.01433	0.01690	0.01017	0.04034	0.00291	0.00089	0.00075	0.00177	0.00128	0.00127	0.00093	0.00726	0.00332	0.00338	0.00756	0.00199	0.00320	0.00130	0.00398	28
0.00129	0.00163	0.02117	0.00194	0.00476	0.00108	0.00033	0.00048	0.00108	0.00104	0.00088	0.00029	0.01349	0.00248	0.00537	0.00098	0.00130	0.01738	0.00270	0.00447	29
0.00298	0.01000	0.00245	0.00135	0.00757	0.00209	0.00113	0.00050	0.00259	0.00059	0.00059	0.00209	0.00182	0.00120	0.00113	0.00643	0.00113	0.00126	0.00052	0.00888	30
0.01193	0.01596	0.01347	0.01415	0.01997	0.04661	0.00341	0.00337	0.04210	0.01115	0.00644	0.00674	0.01854	0.01112	0.01160	0.01574	0.00938	0.01116	0.00985	0.02851	31
0.01155	0.02722	0.03157	0.02593	0.06138	0.01064	0.00209	0.00189	0.00462	0.00431	0.00332	0.00298	0.01694	0.00889	0.01139	0.02892	0.00462	0.01015	0.00374	0.00697	32
0.00009	0.00012	0.00021	0.00006	0.00279	0.00003	0.00003	0.00015	0.00063	0.00004	0.00006	0.00001	0.00108	0.00008	0.00008	0.00008	0.00007	0.00009	0.00009	0.00005	33
0.00034	0.00016	0.00085	0.00018	0.00434	0.00010	0.00009	0.00075	0.00010	0.00013	0.00022	0.00005	0.00462	0.00032	0.00021	0.00012	0.00338	0.00024	0.00030	0.00013	34
0.00246	0.00808	0.00960	0.00672	0.00262	0.00123	0.00052	0.00031	0.00070	0.00078	0.00059	0.00034	0.00201	0.00128	0.00771	0.00977	0.00083	0.00240	0.00050	0.00155	35
0.00432	0.01274	0.00593	0.00290	0.01101	0.00315	0.00160	0.00075	0.00416	0.00102	0.00100	0.00274	0.00517	0.00214	0.00270	0.01176	0.00171	0.00184	0.00084	0.01220	36
0.00606	0.16160	0.05815	0.03532	0.05949	0.01380	0.00301	0.00172	0.00599	0.00288	0.00260	0.00312	0.01096	0.00749	0.01024	0.05745	0.00416	0.00481	0.00300	0.01384	37
0.00688	0.08970	0.08864	0.06048	0.11278	0.0721	0.00405	0.00140	0.00523	0.00187	0.00205	0.00205	0.00997	0.00598	0.00551	0.02703	0.00341	0.00398	0.00197	0.00389	38
0.00120	0.00161	0.00259	0.00132	0.00213	0.00095	0.00025	0.00027	0.00082	0.00043	0.00059	0.00080	0.00111	0.00080	0.01238	0.00108	0.00067	0.00157	0.00033	0.00153	39
0.00201	0.04158	0.00411	0.00114	0.00218	0.00206	0.00108	0.00045	0.00262	0.00048	0.00048	0.00206	0.00126	0.00078	0.00080	0.00237	0.00102	0.00095	0.00046	0.00840	40
0.01558	0.01877	0.02708	0.00949	0.01671	0.00318	0.00104	0.00054	0.00201	0.00109	0.00091	0.00057	0.00462	0.00310	0.00302	0.03814	0.00116	0.00171	0.00145	0.00214	41
0.02004	0.03172	0.03199	0.00976	0.02240	0.00505	0.00139	0.00085	0.00305	0.00145	0.00129	0.00135	0.00631	0.00447	0.00310	0.02034	0.00186	0.00245	0.00116	0.00652	42
0.00435	0.02920	0.00126	0.00062	0.00107	0.00265	0.00021	0.00023	0.00308	0.00034	0.00033	0.00020	0.00216	0.00163	0.00061	0.00563	0.00045	0.00036	0.00038	0.00083	43
0.00097	0.00704	0.00049	0.00034	0.00058	0.00033	0.00014	0.00033	0.00031	0.00024	0.00030	0.00026	0.00033	0.000							

(Continued from page 48)

industry, the inventories consist of the several commodities it holds. The former shows the change in inventories of a commodity wherever held.

Supplementary data

Final demand for goods and services (commodities) in the NIPA's is expressed at purchasers' prices rather than producers' prices, and in commodity categories that differ from those used in I-O. Before I-O tables 4 and 5 can be used to measure the requirements for commodities or on industries of changes in the level and composition of GNP, the commodities that make up

GNP 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—in I-O terminology, a bill of goods must be formulated. Some of the data that facilitate formulation of bills of goods are presented in tables A, B, C, and D.

Table A can be used if the GNP estimates that are the starting point for obtaining industry or commodity requirements are available only in the broad categories listed in its column heads. Tables B and C can be used if estimates of personal consumption expenditures and of producers' durable equipment are available in NIPA detail. In each case, the producers' values of

I-O commodities that make up the NIPA component are obtained from the percentages in the producers' prices column and used in conjunction with tables 4 and 5 to obtain total commodity or industry requirements, respectively. The purchasers' values of each I-O commodity in a NIPA component can be determined using the percentages based on purchasers' prices.

Table D may be used for calculating the domestic port value of comparable imports from import statistics, which show only foreign port values. The transportation (I-O 65), duty (I-O 69), and insurance (I-O 70) components for each imported item also can be calculated from table D.

(Continued from page 20)

Current-dollar PAC expenditures are deflated (revalued in 1972 prices) by dividing each element of detail for each year by its corresponding price ratio.⁷ After each element is deflated, estimates are summed to obtain the published constant-dollar categories. Price deflators are calculated by dividing current-dollar expenditures by corresponding constant-dollar expenditures; alternatively, price deflators can be expressed as the price ratios combined with weights that are quantities of PAC goods and services purchased in the current year—i.e., the year to which the deflator refers—valued in prices of 1972.⁸ Inasmuch as these quantities change over time, the year-to-year changes in the PAC IPD reflect not only changes in prices but also changes in weights.

Price ratios for the elements of detail of PA spending by consumers are components of the BLS Consumer Price Index (CPI). Cost ratios for the elements of detail of PA spending by business on capital account are based

on components of the BLS Producer Price Index (PPI), average wage rates, and similar "price" data, and also—to a large extent—cost indexes developed by the Environmental Protection Agency, the economics staff of *Chemical Engineering* magazine, and Whitman, Requardt and Associates. Price ratios for PA spending by business on current account are largely based on components of the PPI, average wage rates, and an Environmental Protection Agency cost index. Ratios for PA spending by government are usually those developed for similar goods and services purchased by business. Ratios for R. & M. and R. & D. spending depend heavily on those used for components of government purchases of goods and services in the national income and product accounts.

An example of the level of detail at which deflation is done is "manufacturing purchases of materials for the operation and maintenance of air pollution abatement systems, excluding the manufacturing fuel price penalty" (MMMA). In this case, the price ratio

is a combination of the following information: PPI for industrial power, PPI for natural gas, maintenance cost index developed by the technical staff of *Factory Magazine*, PPI for textile products, and PPI for industrial chemicals. These five indexes are averaged for each year using estimated average physical quantities of materials inputs to MMMA.⁹

7. This statement can be expressed in algebraic form as follows, where $P_t Q_t$ is current-dollar PAC expenditures for an element of detail,

$$\frac{P_t}{P_{72}}$$

is its corresponding price ratio, and $P_{72} Q_t$ is constant-dollar PAC expenditures.

$$\frac{P_t Q_t}{P_{72}} = P_{72} Q_t$$

8. In algebraic form,

$$\frac{\sum P_t Q_t}{\sum P_{72} Q_t} = \text{PAC IPD}_t$$

alternatively,

$$\frac{\sum \frac{P_t}{P_{72}} (P_{72} Q_t)}{\sum P_{72} Q_t} = \text{PAC IPD}_t$$

9. An unpublished paper, "An Overview of the PAC Price Project," containing more detail on methods, assumptions and price indexes used in developing price ratios is available on request from the author, Abatement and Control Expenditures Branch, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, D.C. 20230.

CURRENT BUSINESS STATISTICS

THE STATISTICS here update series published in the 1975 edition of BUSINESS STATISTICS, biennial statistical supplement to the SURVEY OF CURRENT BUSINESS. That volume (available from the Superintendent of Documents for \$6.80) provides a description of each series, references to sources of earlier figures, and historical data as follows: For all series, monthly or quarterly, 1971 through 1974 (1964-74 for major quarterly series), annually, 1947-74; for selected series, monthly or quarterly, 1947-74 (where available). Series added or significantly revised after the 1975 BUSINESS STATISTICS went to press are indicated by an asterisk (*) and a dagger (†), respectively. Unless otherwise noted, revised monthly data for periods not shown herein corresponding to revised annual data are available upon request.

The sources of the data are given in the 1975 edition of BUSINESS STATISTICS; they appear in the main descriptive note for each series, and are also listed alphabetically on pages 187-88. Statistics originating in Government agencies are not copyrighted and may be reprinted freely. Data from private sources are provided through the courtesy of the compilers, and are subject to their copyrights.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1975	1976	1977	1975	1976				1977				1978			
	Annual total			IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
	Seasonally adjusted quarterly totals at annual rates															

GENERAL BUSINESS INDICATORS—Quarterly Series

NATIONAL INCOME AND PRODUCT†	1975	1976	1977	1975	1976	1976	1976	1976	1977	1977	1977	1977	1978	1978	1978	1978
Gross national product, total†.....bil.\$..	1,528.8	1,700.1	1,887.2	1,598.0	1,649.7	1,685.4	1,715.6	1,749.8	1,806.8	1,867.0	1,916.8	1,958.1	1,992.0	2,087.5	2,136.1	2,212.1
Personal consumption expenditures, total...do....	979.1	1,090.2	1,206.5	1,021.6	1,053.8	1,075.1	1,098.4	1,133.7	1,167.7	1,188.6	1,214.5	1,255.2	1,276.7	1,322.9	1,356.9	1,405.1
Durable goods, total ♀.....do....	132.6	156.6	178.4	143.5	152.2	154.7	156.7	162.8	173.2	175.6	177.4	187.2	183.5	197.8	199.5	209.2
Motor vehicles and parts.....do....	53.4	69.7	81.5	60.6	67.7	69.1	69.5	72.6	81.3	81.2	79.5	84.0	84.1	92.5	89.8	92.7
Furniture and household equipment.....do....	58.0	63.9	71.3	60.8	61.9	63.0	64.2	66.5	68.0	69.9	72.0	75.3	72.1	76.5	78.9	83.2
Nondurable goods, total ♀.....do....	408.9	442.6	479.0	421.4	430.3	437.4	444.5	458.3	465.9	473.6	479.7	496.9	501.4	519.3	531.7	553.5
Clothing and shoes.....do....	70.1	75.7	81.5	72.2	73.8	74.2	76.1	78.5	78.5	79.3	81.4	86.7	82.9	87.5	90.5	95.2
Food.....do....	209.6	225.8	245.2	216.6	219.4	223.9	227.4	232.3	237.5	244.5	246.4	252.6	257.7	267.8	272.0	280.1
Gasoline and oil.....do....	39.5	42.8	46.5	40.5	41.4	41.9	43.0	45.1	46.1	46.2	46.0	47.5	48.3	49.1	51.5	55.7
Services, total ♀.....do....	437.5	491.0	549.2	456.7	471.3	483.0	497.2	512.6	528.6	539.4	557.5	571.1	591.8	605.8	625.8	642.5
Household operation.....do....	64.5	72.8	81.6	66.7	69.3	70.2	73.5	78.2	80.2	78.0	83.7	84.6	89.6	89.9	92.6	93.7
Housing.....do....	150.2	166.4	184.6	156.3	160.2	164.7	168.2	172.3	177.3	182.1	186.9	192.0	198.1	204.1	210.1	217.0
Transportation.....do....	32.6	37.9	44.2	34.0	36.0	37.0	38.7	39.8	40.8	43.5	45.0	47.3	49.7	52.1	53.7	55.2
Gross private domestic investment, total...do....	190.9	243.0	297.8	203.9	231.5	243.5	249.9	247.1	272.5	295.6	309.7	313.5	322.7	345.4	350.1	360.1
Fixed investment.....do....	201.6	232.8	282.3	208.8	220.1	228.1	235.3	247.6	262.2	278.6	287.8	300.5	306.0	325.3	336.5	348.5
Nonresidential.....do....	150.2	164.6	190.4	151.5	157.7	162.2	168.1	170.5	180.6	187.2	193.5	200.3	205.6	220.1	227.5	235.2
Structures.....do....	53.8	57.3	63.9	54.7	56.4	57.6	57.3	57.9	59.3	63.4	65.4	67.4	68.5	76.6	80.9	84.6
Producers' durable equipment.....do....	96.4	107.3	126.5	96.8	101.3	104.6	110.8	112.6	121.4	123.8	128.1	132.8	137.1	143.5	146.6	150.7
Residential.....do....	51.5	68.2	91.9	57.3	62.4	65.9	67.3	77.1	81.6	91.4	94.3	100.2	100.3	105.3	109.0	113.3
Change in business inventories.....do....	-10.7	10.2	15.6	-4.9	11.4	15.4	14.5	-6	10.3	17.0	21.9	13.1	16.7	20.1	13.6	11.6
Nonfarm.....do....	-14.3	12.2	15.0	-9.0	12.7	18.8	15.2	2.2	11.1	16.5	22.0	10.4	16.9	22.1	14.6	12.2
Net exports of goods and services.....do....	20.4	7.4	-11.1	20.9	10.4	9.7	6.9	2.8	-8.5	-5.9	-7.0	-23.2	-24.1	-5.5	-10.7	-7.8
Exports.....do....	147.3	163.2	175.5	152.2	154.4	160.7	168.2	169.4	170.9	178.1	180.8	172.1	181.7	205.4	210.1	222.0
Imports.....do....	126.9	155.7	186.6	131.2	144.1	150.9	161.3	166.6	179.4	184.0	187.8	195.2	205.8	210.9	220.8	229.7
Govt. purchases of goods and services, total...do....	338.4	359.5	394.0	351.5	354.0	357.2	360.4	366.3	375.0	388.8	399.5	412.5	416.7	424.7	439.8	454.6
Federal.....do....	123.1	129.9	145.1	127.9	127.1	127.8	129.9	134.6	138.3	142.9	146.8	152.2	151.5	147.2	154.0	162.3
National defense.....do....	83.7	86.8	94.3	86.2	85.9	85.6	86.5	89.1	91.9	93.7	94.4	97.1	97.9	98.6	99.6	102.1
State and local.....do....	215.4	229.6	248.9	223.6	226.9	229.4	230.5	231.7	236.7	245.9	252.7	260.3	265.2	277.6	285.8	292.3
By major type of product: †																
Final sales, total.....do....	1,539.6	1,689.9	1,871.6	1,602.9	1,638.3	1,670.1	1,701.0	1,750.4	1,796.5	1,850.0	1,894.9	1,945.0	1,975.3	2,067.4	2,122.5	2,200.5
Goods, total.....do....	686.6	760.3	832.6	718.6	741.9	758.0	768.1	772.9	800.2	825.8	844.7	859.6	861.8	912.2	927.3	969.3
Durable goods.....do....	259.0	304.6	341.3	273.7	288.6	301.8	312.4	315.6	332.2	339.1	346.5	347.4	351.2	375.8	380.1	398.3
Nondurable goods.....do....	427.5	455.7	491.3	444.9	453.4	456.2	455.7	457.3	468.0	486.7	498.2	512.2	510.6	536.4	547.2	571.0
Services.....do....	697.6	778.0	862.8	726.4	749.7	766.9	787.1	808.1	832.3	850.0	875.3	893.6	926.4	952.0	973.7	998.8
Structures.....do....	144.7	161.9	191.8	153.0	158.1	160.5	160.3	168.7	174.3	191.3	196.8	204.9	203.8	223.4	235.0	244.0
Change in business inventories.....do....	-10.7	10.2	15.6	-4.9	11.4	15.4	14.5	-6	10.3	17.0	21.9	13.1	16.7	20.1	13.6	11.6
Durable goods.....do....	-8.9	5.3	8.4	-8.6	1	6.5	9.3	5.2	6.1	9.1	11.9	6.3	14.8	10.8	10.2	10.3
Nondurable goods.....do....	-1.8	4.9	7.2	3.7	11.3	8.9	5.3	-5.8	4.2	7.9	10.0	6.8	1.9	9.3	3.4	1.3
GNP in constant (1972) dollars†																
Gross national product, total†.....bil.\$..	1,202.3	1,271.0	1,332.7	1,227.9	1,255.5	1,268.0	1,276.5	1,284.0	1,306.7	1,325.5	1,343.9	1,354.5	1,354.2	1,382.6	1,391.4	1,413.0
Personal consumption expenditures, total...do....	774.6	819.4	857.7	791.1	806.3	814.0	820.9	836.2	846.6	849.5	858.0	876.6	873.5	886.3	895.1	912.6
Durable goods.....do....	112.7	125.9	137.8	119.7	124.8	125.2	125.3	128.5	134.9	136.2	136.9	143.0	137.8	145.8	144.8	150.1
Nondurable goods.....do....	306.6	320.2	330.4	309.5	314.6	318.2	320.5	327.7	327.1	327.2	329.2	338.1	333.3	336.3	340.4	348.6
Services.....do....	355.3	373.2	389.5	361.9	366.9	370.6	375.1	380.0	384.6	386.0	391.8	395.6	402.4	404.2	410.0	413.8
Gross private domestic investment, total...do....	142.6	173.4	196.3	148.9	168.5	174.7	177.1	173.4	186.1	197.1	201.7	200.3	205.7	213.1	210.4	210.9
Fixed investment.....do....	152.4	166.8	187.4	154.1	161.0	164.6	167.8	173.6	180.3	187.1	189.5	192.8	193.4	200.4	201.4	203.9
Nonresidential.....do....	113.6	118.9	129.8	111.8	115.5	117.8	121.0	121.4	126.8	129.1	130.8	132.5	133.8	140.5	141.7	143.7
Residential.....do....	38.8	47.8	57.7	42.3	45.5	46.8	46.8	52.3	53.5	58.0	58.8	60.3	59.5	59.9	59.7	60.2
Change in business inventories.....do....	-9.8	6.7	8.9	-5.2	7.5	10.1	9.3	-2	5.8	10.0	12.2	7.5	12.3	12.7	9.0	7.0
Net exports of goods and services.....do....	22.6	15.4	9.5	22.2	16.5	16.1	16.1	13.1	11.2	11.0	12.5	3.1	2.9	11.3	9.2	10.1
Govt. purchases of goods and services, total...do....	262.6	262.8	269.2	265.7	264.3	263.2	262.5	261.3	262.8	267.9	271.7	274.5	272.1	271.9	276.7	279.5
Federal.....do....	96.5	96.6	101.6	97.3	96.2	95.9	96.8	97.5	98.7	101.3	102.9	103.6	101.2	97.1	100.4	102.4
State and local.....do....	166.1	166.2	167.6	168.4	168.1	167.3	165.7	163.8	164.1	166.6	168.8	170.9	170.8	174.8	176.3	177.1

† Revised. ‡ Preliminary. † Revised series. Estimates of national income and product and personal income have been revised back to 1973 (see p. 16 ff. of the July 1977 SURVEY and

p. 24 ff. of the July 1978 SURVEY); revisions prior to May 1977 for personal income appear on p. 36 of the July 1978 SURVEY. ♀ Includes data for items not shown separately.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1975	1976	1977	1976				1977				1978				1979
	Annual total			I	II	III	IV	I	II	III	IV	I	II	III	IV	I

GENERAL BUSINESS INDICATORS—Quarterly Series—Continued

NATIONAL INCOME AND PRODUCT†—Con.																
Quarterly Data Seasonally Adjusted																
Implicit price deflators:†																
Gross national product..... Index, 1972=100.....	127.15	133.76	141.61	131.40	132.92	134.39	136.28	138.27	140.86	142.63	144.56	147.10	150.98	153.52	156.55	
Personal consumption expenditures..... do.....	126.4	133.1	140.7	130.7	132.1	133.8	135.6	137.9	139.9	141.6	143.2	146.2	149.3	151.6	154.0	
Durable goods..... do.....	117.7	124.4	129.5	122.0	123.6	125.0	126.8	128.4	128.9	129.5	130.9	133.1	135.7	137.3	139.3	
Nondurable goods..... do.....	133.4	138.2	145.0	136.8	137.4	138.7	139.9	142.4	144.7	145.7	147.0	150.4	154.4	156.2	158.8	
Services..... do.....	123.2	131.6	141.0	128.4	130.3	132.5	134.9	137.4	139.7	142.3	144.4	147.1	149.9	152.6	155.2	
Gross private domestic investment:																
Fixed investment..... do.....	132.3	139.6	150.6	136.7	138.5	140.3	142.6	145.4	148.9	151.9	155.9	158.2	162.2	167.1	170.9	
Nonresidential..... do.....	132.2	138.4	146.7	136.6	137.7	138.9	140.5	142.5	145.0	147.9	151.2	153.6	156.7	160.6	163.7	
Residential..... do.....	132.8	142.5	159.4	137.2	140.7	143.8	147.6	152.3	157.6	160.6	166.1	168.6	175.7	182.6	182.2	
Govt. purchases of goods and services..... do.....	128.9	136.8	146.3	134.0	135.7	137.3	140.2	142.7	145.1	147.1	150.3	153.2	156.2	158.9	162.7	
Federal..... do.....	127.5	134.4	142.7	132.1	133.3	134.2	138.0	140.1	141.1	142.7	146.9	149.6	151.5	153.4	158.4	
State and local..... do.....	129.7	138.1	148.5	135.0	137.1	139.1	141.5	144.3	147.6	149.7	152.3	155.2	158.8	162.1	165.1	
Quarterly Data Seasonally Adjusted at Annual Rates																
National income, total..... bil. \$.....	1,215.0	1,359.2	1,515.3	1,319.8	1,347.9	1,372.1	1,397.0	1,447.5	1,499.3	1,537.6	1,576.9	1,603.1	1,688.1	1,728.4	-----	
Compensation of employees, total..... do.....	931.1	1,036.8	1,153.4	1,001.7	1,026.0	1,046.1	1,073.3	1,107.9	1,140.5	1,165.8	1,199.7	1,241.0	1,287.8	1,317.1	1,359.6	
Wages and salaries, total..... do.....	805.9	890.1	983.6	861.7	881.5	897.3	919.9	946.4	973.4	993.6	1,021.2	1,050.8	1,090.2	1,113.4	1,149.2	
Govt. and govt. enterprises..... do.....	175.4	187.6	200.8	183.7	186.1	188.1	192.6	195.2	198.1	201.7	208.1	211.4	213.9	216.8	222.3	
Other..... do.....	630.4	702.5	782.9	678.0	695.4	709.2	727.2	751.2	775.3	791.9	813.1	839.3	876.3	896.6	928.9	
Supplements to wages and salaries..... do.....	125.2	146.7	169.8	140.0	144.6	148.8	153.4	161.5	167.1	172.2	178.4	190.2	197.6	203.6	210.4	
Proprietors' income with inventory valuation and capital consumption adjustments, total..... bil. \$.....	87.0	88.6	99.8	88.6	88.8	87.4	89.5	95.6	98.9	97.2	107.3	105.0	110.1	114.5	122.1	
Farm..... do.....	23.5	18.4	20.2	20.9	19.6	16.9	16.3	19.4	20.0	16.5	25.1	21.9	24.0	25.0	29.5	
Nonfarm..... do.....	63.5	70.2	79.5	67.7	69.3	70.5	73.2	76.1	78.9	80.8	82.3	83.1	86.1	89.6	92.6	
Rental income of persons with capital consumption adjustment..... bil. \$.....	22.4	22.5	22.5	22.5	22.4	22.4	22.8	22.5	22.4	22.4	22.7	22.8	22.2	24.3	24.4	
Corp. profits with inventory valuation and capital consumption adjustments, total..... bil. \$.....	95.9	127.0	144.2	126.8	128.6	130.0	122.5	129.9	143.7	154.8	148.2	132.6	163.4	165.2	-----	
Corp. profits with invent. val. adj.:																
Domestic, total..... do.....	101.8	133.2	149.5	132.3	135.4	136.3	128.7	134.8	148.1	159.5	155.6	139.2	168.9	175.4	-----	
Financial..... do.....	13.0	17.5	20.9	15.8	17.0	18.3	19.1	19.7	19.9	21.9	21.9	22.7	24.3	26.0	-----	
Nonfinancial, total..... do.....	88.9	115.6	128.6	116.4	118.4	118.0	109.7	115.1	128.1	137.6	133.7	116.6	144.6	149.4	-----	
Manufacturing, total..... do.....	48.3	65.6	74.7	67.0	67.5	65.9	61.9	66.4	77.4	74.7	80.2	69.8	87.8	87.1	-----	
Durable goods..... do.....	18.3	28.1	35.1	27.4	29.7	28.5	26.9	29.9	37.2	34.2	39.1	32.8	46.1	44.6	-----	
Transportation, communication, and electric, gas, and sanitary serv..... bil. \$.....	9.2	13.7	16.1	12.4	14.3	14.9	13.3	15.4	14.5	17.5	17.1	17.3	19.3	20.7	-----	
Rest of the world..... do.....	6.1	8.2	9.6	8.9	7.6	8.2	8.2	9.7	10.4	10.3	7.9	9.4	11.7	9.1	-----	
Profits before tax, total..... do.....	120.4	155.9	173.9	152.6	158.7	157.8	154.6	164.8	175.1	177.5	178.3	172.1	205.5	205.4	-----	
Profits tax liability..... do.....	49.8	64.3	71.8	63.6	66.3	64.7	62.4	68.3	72.3	72.8	73.9	70.0	85.0	86.2	-----	
Profits after tax..... do.....	70.6	91.7	102.1	89.0	92.4	93.1	92.2	96.5	102.8	104.8	104.4	102.1	120.5	119.2	-----	
Dividends..... do.....	31.9	37.9	43.7	34.5	37.2	38.4	41.4	41.5	42.7	44.1	46.3	47.0	48.1	50.1	51.9	
Undistributed profits..... do.....	38.7	53.8	58.4	54.5	55.2	54.7	50.8	55.0	60.1	60.6	58.1	55.1	72.4	69.2	-----	
Inventory valuation adjustment..... do.....	-12.4	-14.5	-14.8	-11.4	-15.7	-13.3	-17.6	-20.3	-16.6	-7.7	-14.8	-23.5	-24.9	-20.9	-27.9	
Capital consumption adjustment..... do.....	-12.0	-14.4	-14.9	-14.4	-14.4	-14.5	-14.5	-14.6	-14.8	-15.0	-15.3	-16.1	-17.2	-19.3	-19.9	
Net interest..... do.....	78.6	84.3	95.4	80.1	82.0	86.2	88.9	91.7	93.7	97.3	99.0	101.7	104.6	107.4	111.1	
DISPOSITION OF PERSONAL INCOME†																
Personal income, total..... bil. \$.....	1,255.5	1,380.9	1,529.0	1,336.9	1,363.2	1,392.8	1,430.5	1,470.7	1,508.6	1,543.7	1,593.0	1,628.9	1,682.4	1,731.7	1,787.3	
Less: Personal tax and nontax payments..... do.....	168.8	196.5	226.6	184.4	192.6	200.0	209.0	222.7	223.3	224.6	233.3	237.3	249.1	263.2	275.0	
Equals: Disposable personal income..... do.....	1,086.7	1,184.4	1,302.4	1,152.5	1,170.6	1,192.8	1,221.5	1,248.0	1,285.3	1,319.1	1,359.6	1,391.6	1,433.3	1,468.4	1,512.3	
Less: Personal outlays⊕..... do.....	1,003.0	1,116.3	1,236.1	1,078.9	1,100.7	1,124.8	1,160.9	1,195.8	1,217.8	1,244.8	1,285.9	1,309.2	1,357.0	1,392.5	1,442.1	
Equals: Personal savings..... do.....	83.6	68.0	66.9	73.6	69.9	68.1	60.7	52.2	67.5	74.3	73.7	82.4	76.3	76.0	70.2	
NEW PLANT AND EQUIPMENT EXPENDITURES																
Unadjusted quarterly or annual totals:																
All industries..... bil. \$.....	112.78	120.49	135.80	25.87	29.70	30.41	34.52	29.20	33.73	34.82	38.06	32.35	37.89	38.67	44.18	
Manufacturing..... do.....	47.95	52.48	60.16	10.96	12.66	13.48	15.38	12.52	14.84	15.60	17.19	13.67	16.76	16.89	20.32	
Durable goods industries¶..... do.....	21.84	23.68	27.77	4.78	5.61	6.02	7.27	5.80	6.79	7.17	8.00	6.36	7.79	7.97	9.62	
Nondurable goods industries¶..... do.....	26.11	28.81	32.39	6.18	7.05	7.46	8.12	6.72	8.06	8.43	9.18	7.31	8.97	8.92	10.70	
Nonmanufacturing..... do.....	64.82	68.01	75.64	14.91	17.04	16.93	19.14	16.68	18.88	19.21	20.87	18.68	21.13	21.78	23.86	
Mining..... do.....	3.79	4.00	4.50	.92	.99	1.04	1.05	1.02	1.16	1.17	1.15	1.07	1.22	1.24	1.32	
Railroad..... do.....	2.55	2.52	2.80	.49	.68	.64	.70	.59	.67	.78	.76	.71	.83	.84	.86	
Air transportation..... do.....	1.84	1.30	1.62	.26	.42	.26	.35	.33	.43	.39	.46	.52	.60	.54	.70	
Other transportation..... do.....	3.18	3.63	2.51	.72	1.02	.95	.94	.61	.76	.50	.63	.51	.60	.62	.67	
Public utilities..... do.....	20.14	22.28	25.80	4.79	5.50	5.52	6.46	5.55	6.37	6.61	7.28	6.15	7.14	7.43	8.46	
Electric..... do.....	17.00	18.80	21.59	4.18	4.74	4.54	5.34	4.78	5.34	5.41	6.06	5.27	6.01	6.11	7.21	
Gas and other..... do.....	3.14	3.47	4.41	.62	.76	.98	1.12	.77	1.03	1.20	1.21	.88	1.13	1.32	1.25	
Communication..... do.....	12.74	13.30	15.45	2.92	3.21	3.33	3.84	3.30	3.86	4.03	4.26	3.97	4.56	4.68	-----	
Commercial and other..... do.....	20.60	20.99	22.97	4.82	5.21	5.19	5.78	5.27	5.64	5.73	6.33	5.76	6.18	6.43	11.88	
Seas. adj. qtrly. totals at annual rates:																
All industries..... do.....	-----	-----	-----	114.72	118.12	122.55	125.22	130.16	134.24	140.38	138.11	144.25	150.76	155.41	161.24	
Manufacturing..... do.....	-----	-----	-----	49.21	50.64	54.78	54.44	56.43	59.46	63.02	61.41	61.57	67.20	67.75	73.20	
Durable goods industries¶..... do.....	-----	-----	-----	21.63	22.54	24.59	25.50	26.30	27.26	29.23	28.19	28.72	31.40	32.25	34.19	
Nondurable goods industries¶..... do.....	-----	-----	-----	27.58	28.09	30.20	28.93	30.13	32.19	33.79	33.22	32.86	35.80	35.50	38.99	
Nonmanufacturing..... do.....	-----	-----	-----	65.51	67.48	67.76	70.78	73.74	74.78	77.36	76.70	82.68	83.56	87.66	88.04	
Mining..... do.....	-----	-----	-----	3.83	3.83	4.21	4.13	4.24	4.49	4.74	4.50	4.45	4.81	4.99	5.23	
Railroad..... do.....	-----	-----	-----	2.08	2.64	2.69	2.63	2.71	2.57	3.20	2.80	3.35	3.09	3.38	3.14	
Air transportation..... do.....	-----	-----	-----	1.18	1.44	1.12	1.41	1.62	1.43	1.69	1.76	2.67	2.08	2.20	2.61	
Other transportation..... do.....	-----	-----	-----	3.29	4.16	3.44	3.49	2.96	2.96	1.96	2.32	2.44	2.23	2.47	2.40	
Public utilities..... do.....	-----	-----	-----	21.91	21.85	21.67	23.46	25.35	26.22	26.22	26.23	27.92	28.46	29.62	30.59	
Electric..... do.....	-----	-----	-----	18.56	18.82	18.22	19.40	21.19	21.14	21.90	22.05	23.15	23.83	24.92	26.23	
Gas and other..... do.....	-----	-----	-----	3.36	3.03	3.45	3.96	4.16	4.32	4.32	4.18	4.78	4.62	4.70	4.36	
Communication..... do.....	-----	-----	-----	12.54	12.62	13.64	14.30	14.19	15.32	16.40	15.82	17.07	18.18	18.90	-----	
Commercial and other..... do.....	-----	-----	-----	20.68	20.94	20.99	21.36	22.67	22.73	23.14	23.27	24.76	24.71	26.09	44.07	

† Revised. ‡ Preliminary. § Estimates (corrected for systematic biases) for Oct.-Dec. 1978 and Jan.-Mar. 1979 based on expected capital expenditures of business. Expected expenditures for the year

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1975	1976	1977	1975	1976				1977				1978			
	Annual total			IV	I	II	III	IV	I	II	III	IV	I	II	III	IV

GENERAL BUSINESS INDICATORS—Quarterly Series—Continued

U.S. INTERNATIONAL TRANSACTIONS																
Quarterly Data Are Seasonally Adjusted (Credits +; debits -)																
Exports of goods and services (excl. transfers under military grants)..... mil. \$.	155,656	171,274	183,205	40,760	40,375	42,449	44,160	44,291	44,751	46,276	47,131	45,050	48,221	53,976	55,559	39,083
Merchandise, adjusted, excl. military..... do.	107,088	114,694	120,576	27,657	27,001	28,380	29,602	29,711	29,477	30,629	31,009	29,461	30,689	35,092	36,955	
Transfers under U.S. military agency sales contracts..... mil. \$.	3,919	5,213	7,079	1,164	1,095	1,189	1,472	1,457	1,912	1,702	1,918	1,547	1,842	2,217	1,889	
Receipts of income on U.S. assets abroad..... do.	25,359	29,244	32,100	6,884	7,027	7,369	7,428	7,420	7,796	8,088	8,220	7,997	9,381	10,003	9,946	
Other services..... do.	19,290	22,124	23,451	5,055	5,252	5,511	5,658	5,703	5,566	5,857	5,984	6,045	6,334	6,689	6,794	
Imports of goods and services..... do.	-132,595	-161,913	-193,789	-34,131	-37,644	-39,268	-41,933	-43,068	-46,381	-47,716	-48,740	-50,953	-53,797	-55,761	-58,116	
Merchandise, adjusted, excl. military..... do.	-98,041	-124,047	-151,706	-25,431	-28,352	-29,963	-32,418	-33,314	-36,502	-37,263	-38,277	-39,664	-41,808	-42,812	-44,918	-46,470
Direct defense expenditures..... do.	-4,795	-4,901	-5,745	-1,198	-1,159	-1,219	-1,235	-1,288	-1,344	-1,407	-1,451	-1,542	-1,632	-1,625	-1,712	
Payments of income on foreign assets in the U.S..... mil. \$.	-12,564	-13,311	-14,593	-2,973	-3,405	-3,332	-3,293	-3,281	-3,197	-3,601	-3,610	-4,185	-4,503	-5,420	-5,396	
Other services..... do.	-17,194	-19,655	-21,746	-4,529	-4,728	-4,754	-4,987	-5,185	-5,337	-5,445	-5,401	-5,563	-5,796	-5,847	-6,033	
Unilateral transfers (excl. military grants), net mil. \$.	-4,615	-5,022	-4,708	-1,241	-1,028	-1,040	-1,908	-1,047	-1,126	-1,243	-1,277	-1,064	-1,282	-1,317	-1,267	
U.S. Government grants (excl. military)..... do.	-2,894	-3,145	-2,776	-805	-546	-592	-1,440	-567	-636	-763	-787	-591	-778	-781	-774	
Other..... do.	-1,721	-1,878	-1,932	-436	-482	-448	-468	-480	-490	-480	-490	-473	-504	-536	-493	
U.S. assets abroad, net..... do.	-39,444	-50,608	-34,650	-14,179	-12,365	-11,740	-10,269	-16,235	-11,334	-12,003	-6,615	-14,700	-15,036	-6,134	-11,006	
U.S. official reserve, net..... do.	-607	-2,530	-231	89	-773	-1,578	-407	228	-388	151	(3)	246	329	189		
U.S. Gov't, other than official reserve, net..... do.	-3,470	-4,213	-3,679	-977	-762	-932	-1,340	-1,180	-949	-795	-1,068	-838	-896	-1,176	-1,494	
U.S. private, net..... do.	-35,368	-43,865	-30,740	-13,291	-10,830	-9,230	-8,522	-15,283	3	-11,214	-5,668	-13,862	-14,366	-5,287	-9,692	
Direct investment abroad..... do.	-14,244	-11,614	-12,215	-4,736	-3,923	-2,047	-3,081	-2,563	-2,177	-3,729	-3,113	-3,197	-4,945	-3,948	-2,363	
Foreign assets in the U.S., net..... do.	15,550	36,969	50,869	6,177	7,590	7,914	8,932	12,534	2,490	14,064	14,251	20,065	18,095	406	14,612	
Foreign official, net..... do.	6,907	18,073	37,124	2,851	3,819	4,017	3,070	7,166	5,451	7,884	8,246	15,543	15,760	-5,685	4,904	
Other foreign, net..... do.	8,643	18,897	13,746	3,326	3,771	3,897	5,862	5,367	-2,962	6,180	6,005	4,522	2,336	6,090	9,708	
Direct investment in the U.S..... do.	2,603	4,347	3,338	1,369	1,472	1,086	999	790	880	996	1,012	450	812	1,852	1,793	
Allocations of special drawing rights..... do.																
Statistical discrepancy..... do.	5,449	9,300	-927	2,614	3,073	1,685	1,018	3,525	1,600	622	-4,751	1,602	3,798	8,830	218	
Memoranda:																
Balance on merchandise trade..... do.	9,047	-9,353	-31,130	2,226	-1,351	-1,583	-2,816	-3,603	-7,025	-6,634	-7,268	-10,203	-11,119	-7,720	-7,963	-7,387
Balance on goods and services..... do.	23,060	9,361	-10,585	6,629	2,731	3,181	2,227	1,223	-1,630	-1,440	-1,609	-5,903	-5,576	-1,785	-2,557	
Balance on goods, services, and remittances..... do.	21,339	7,483	-12,516	6,193	2,749	2,733	1,759	743	-2,120	-1,920	-2,099	-6,376	-6,080	-2,321	-3,050	
Balance on current account..... do.	18,445	4,339	-15,292	5,388	1,203	2,141	319	176	-2,756	-2,683	-2,886	-6,967	-6,858	-3,102	-3,824	

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. ^a

GENERAL BUSINESS INDICATORS—Monthly Series

PERSONAL INCOME BY SOURCE [†]																
Seasonally adjusted, at annual rates: [‡]																
Total personal income..... bil. \$.	1,380.9	1,529.0	1,609.2	1,615.5	1,625.0	1,646.3	1,669.4	1,682.1	1,695.7	1,719.2	1,731.1	1,744.7	1,768.4	1,785.8	1,807.6	1,815.4
Wage and salary disbursements, total..... do.	890.1	983.6	1,027.3	1,038.3	1,047.4	1,066.6	1,083.9	1,088.4	1,098.4	1,108.2	1,111.3	1,120.1	1,137.5	1,149.3	1,160.8	1,172.6
Commodity-producing industries, total..... do.	307.5	343.7	358.2	359.0	364.4	374.3	383.9	386.2	390.9	395.4	395.7	398.2	404.5	411.7	417.6	421.4
Manufacturing..... do.	237.5	266.3	280.5	281.9	286.5	292.4	294.3	295.9	298.1	301.6	301.0	303.6	308.8	315.8	319.2	321.4
Distributive industries..... do.	216.4	239.1	249.5	253.3	256.2	261.3	264.9	266.1	268.3	269.8	271.0	274.1	277.8	279.7	283.4	286.4
Service industries..... do.	178.6	200.1	210.3	215.3	215.1	219.0	222.2	222.0	224.3	227.2	228.0	230.3	234.2	235.4	236.3	239.7
Govt. and gov't. enterprises..... do.	187.6	200.8	209.2	210.6	211.6	212.0	213.0	213.9	214.9	215.8	216.7	217.5	221.0	222.4	223.5	225.1
Other labor income..... do.	77.0	90.4	97.3	98.7	100.0	101.3	102.7	104.0	105.4	106.7	107.9	109.1	110.4	111.8	113.1	114.5
Proprietors' income: ^Δ																
Farm..... do.	18.4	20.2	28.5	25.6	21.5	18.6	22.0	24.8	25.3	24.0	24.9	26.0	27.1	28.2	33.3	29.7
Nonfarm..... do.	70.2	79.5	83.2	82.0	83.0	84.4	85.5	86.1	86.7	88.4	90.1	90.2	92.0	92.6	93.2	93.7
Rental income of persons, with capital consumption adjustment..... bil. \$.	22.5	22.5	22.9	23.0	22.8	22.6	22.3	22.1	22.1	24.3	24.3	24.2	24.3	24.4	24.4	24.5
Dividends..... do.	37.9	43.7	48.3	46.8	47.0	47.2	47.4	48.0	49.0	49.2	50.3	50.7	51.3	51.8	52.6	53.6
Personal interest income..... do.	126.3	141.2	147.3	149.6	151.4	153.3	154.8	158.5	157.6	159.6	161.9	163.6	165.1	166.1	167.3	168.4
Transfer payments..... do.	193.9	208.8	217.2	218.1	219.0	220.3	219.7	221.3	220.8	229.0	230.8	231.5	232.2	233.6	235.4	236.6
Less personal contributions for social insurance..... do.	55.5	61.0	62.8	66.5	67.0	68.0	68.9	69.0	69.6	70.3	70.4	70.8	71.6	72.0	72.5	78.1
Total nonfarm income..... do.	1,349.5	1,494.4	1,565.5	1,574.7	1,588.3	1,612.5	1,631.9	1,641.8	1,654.7	1,679.0	1,690.3	1,702.6	1,725.1	1,741.3	1,757.9	1,788.9
FARM INCOME AND MARKETING: [‡]																
Cash receipts from farming, including Government payments, total..... mil. \$.	95,060	96,889	9,883	9,162	7,088	7,407	7,377	7,730	8,403	7,417	8,048	10,457	13,224			
Farm marketings and CCC loans, total..... do.	94,326	95,025	8,853	8,807	6,873	7,256	7,079	7,580	8,339	7,342	7,991	10,229	12,949	11,600		
Crops..... do.	47,937	47,572	4,725	4,877	2,858	2,402	2,429	2,686	3,571	3,680	3,257	5,414	7,299	6,300		
Livestock and products, total [¶] do.	46,389	47,453	4,128	3,930	4,015	4,854	4,750	4,794	4,768	3,662	4,734	4,815	5,650	5,300		
Dairy products..... do.	11,425	11,782	1,007	1,008	944	1,064	1,076	1,108	1,046	1,058	1,051	1,011	1,016			
Meat animals..... do.	27,188	27,909	2,480	2,336	2,492	3,098	2,883	3,161	2,973	1,764	2,910	3,160	3,924			
Poultry and eggs..... do.	7,192	7,207	584	543	538	652	640	571	697	791	728	556	666			
Indexes of cash receipts from marketings and CCC loans, unadjusted: [‡]																
All commodities..... 1967=100..... do.	220	222	248	240	192	205	199	217	235	206	254	262	360	324		
Crops..... do.	260	258	308	297	181	178	156	181	232	240	282	293	468	405		
Livestock and products..... do.	190	195	203	197	201	226	232	244	235	180	233	258	278	263		
Indexes of volume of farm marketings, unadjusted: [‡]																
All commodities..... 1967=100..... do.	121	124	139	133	101	100	96	102	110	113	127	129	172	157		
Crops..... do.	134	138	172	172	98	86	75	86	113	124	150	149	239	214		
Livestock and products..... do.	111	113	116	106	103	111	111	113	109	104	110	114	124	117		

[†] Revised. [‡] Preliminary. [§] Reported annual total; revisions are not reflected in the monthly data. [¶] Less than \$500,000(±). [‡] See corresponding note on p. S-1. ^Δ Includes inventory valuation and capital consumption adjustments. [‡] Series revised beginning 1973; revisions for periods prior to May 1976 are available from the U.S. Dept. of Agr., Economic Research Service. [¶] Includes data for items not shown separately.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. [†]	Jan. ¹

GENERAL BUSINESS INDICATORS—Continued

INDUSTRIAL PRODUCTION [⊕]																
Federal Reserve Board Index of Quantity Output																
Not Seasonally Adjusted																
Total index.....1967=100.....	129.8	137.1	134.9	134.8	139.6	141.4	144.2	144.2	148.8	141.9	146.9	152.0	*152.6	149.7	145.0	146.2
By market groupings:																
Products, total.....do.....	129.3	137.1	133.8	133.5	139.0	141.0	143.2	142.1	148.2	141.7	147.0	153.3	*152.4	*147.9	141.8	143.4
Final products.....do.....	127.2	134.9	131.1	131.0	136.6	138.6	140.7	138.9	145.1	138.2	143.4	150.6	*149.5	*144.6	138.8	141.1
Consumer goods.....do.....	136.2	143.4	135.8	136.7	143.4	145.3	148.4	145.2	152.1	142.5	149.7	158.4	*156.8	*149.2	140.6	145.1
Durable consumer goods.....do.....	141.4	153.1	144.4	142.7	155.7	162.4	169.7	163.7	167.6	143.9	146.7	166.1	*173.7	*164.2	149.6	155.8
Nondurable consumer goods.....do.....	134.1	139.6	132.4	134.3	138.5	138.4	140.0	137.7	146.0	142.0	150.9	155.3	*150.1	*143.2	136.9	140.8
Equipment.....do.....	114.6	123.2	124.6	123.1	127.1	129.3	130.1	130.4	135.6	132.2	134.6	139.7	*139.5	*138.4	136.4	135.7
Intermediate products.....do.....	137.2	145.1	144.1	142.5	148.0	150.3	152.6	153.8	159.9	154.8	160.3	163.4	*163.1	*160.1	152.7	151.7
Materials.....do.....	130.6	136.9	136.5	137.0	140.6	142.1	146.1	147.0	149.7	142.2	146.8	149.8	*152.9	*152.6	150.1	150.5
By industry groupings:																
Mining and utilities.....do.....	131.6	136.2	135.0	142.0	139.9	136.3	137.0	136.4	142.4	145.5	147.2	144.5	*141.4	*141.0	143.8	147.5
Manufacturing.....do.....	129.5	137.1	134.8	133.9	139.6	142.1	145.1	145.1	149.7	141.2	146.9	153.0	*154.1	*151.1	145.3	145.9
Nondurable manufactures.....do.....	140.9	148.1	143.0	142.8	148.7	150.5	153.3	153.5	159.3	150.3	160.3	164.2	*163.7	*159.5	150.5	151.8
Durable manufactures.....do.....	121.7	129.5	129.2	127.8	133.2	136.3	139.5	139.2	143.0	135.1	137.7	145.3	*147.5	*145.3	141.7	141.9
Seasonally Adjusted																
Total index.....1967=100.....	129.8	137.1	139.7	138.8	139.2	140.9	143.2	143.9	144.9	146.1	147.1	147.8	*148.7	149.5	150.5	150.7
By market groupings:																
Products, total.....do.....	129.3	137.1	140.3	138.5	139.6	141.6	143.0	143.1	144.0	145.0	146.2	146.5	*147.0	*147.6	148.7	149.0
Final products.....do.....	127.2	134.9	137.6	134.9	136.4	138.9	140.5	140.5	141.1	142.2	143.3	143.7	*144.1	*144.6	145.5	145.7
Consumer goods.....do.....	136.2	143.4	145.8	141.8	143.8	145.9	147.5	147.0	147.0	147.7	148.4	149.0	*149.2	*149.8	150.7	150.8
Durable consumer goods.....do.....	141.4	153.1	155.8	146.5	151.2	157.5	161.8	160.2	160.6	160.9	161.5	160.3	*161.6	*162.0	161.9	161.1
Automotive products.....do.....	154.8	174.2	172.4	157.5	162.8	175.8	184.3	180.0	179.9	182.2	182.1	178.3	*185.6	*189.4	185.1	181.1
Autos and utility vehicles.....do.....	149.8	169.2	165.5	145.5	153.9	171.0	182.7	175.6	174.3	176.7	175.6	170.0	*180.5	*185.7	179.5	173.7
Autos.....do.....	132.0	148.4	143.6	127.4	131.5	149.7	159.1	151.6	149.8	152.7	151.1	144.4	*154.2	*159.7	151.8	145.9
Auto parts and allied goods.....do.....	167.6	186.8	190.4	187.8	185.3	158.5	188.2	191.5	193.9	196.1	198.0	199.8	*199.1	*198.5	199.0	200.1
Home goods.....do.....	133.9	141.3	146.6	140.3	144.6	147.2	149.2	148.9	149.7	148.9	150.0	150.2	*148.2	*146.8	148.8	149.7
Appliances, air cond., and TV.....do.....	114.6	127.3	132.8	116.1	133.3	135.4	142.2	138.3	139.0	133.7	133.9	134.4	128.7	*124.3	129.8	131.4
Carpeting and furniture.....do.....	144.1	152.2	161.5	159.1	160.2	159.3	158.9	163.4	166.0	168.5	167.9	169.0	*168.0	*164.9	166.3	-----
Nondurable consumer goods.....do.....	134.1	139.6	141.8	139.9	140.8	141.3	141.8	141.7	141.6	142.4	143.1	144.4	*144.3	*144.9	146.2	146.7
Clothing.....do.....	124.0	125.2	126.9	118.3	121.1	122.4	124.9	125.4	124.8	125.1	126.6	128.9	128.3	-----	-----	-----
Consumer staples.....do.....	136.9	143.6	145.9	145.9	146.3	146.4	146.6	146.2	146.3	147.3	147.8	148.8	*148.8	*149.2	150.7	151.4
Consumer foods and tobacco.....do.....	130.7	135.5	137.9	136.5	138.3	138.7	140.8	139.9	139.0	140.2	140.8	141.2	*140.4	*141.0	142.6	-----
Nonfood staples.....do.....	144.1	152.9	155.2	156.6	155.8	155.3	153.3	153.4	154.8	155.5	155.9	157.4	*158.5	*159.0	160.0	160.7
Equipment.....do.....	114.6	123.2	126.2	125.4	126.2	129.1	130.8	131.6	133.0	134.7	136.3	136.4	*137.0	*137.3	138.3	138.5
Business equipment.....do.....	136.3	149.2	154.0	152.6	154.2	157.4	159.3	160.2	161.8	163.8	165.4	165.8	166.9	*167.2	168.4	168.5
Industrial equipment.....do.....	128.0	138.5	143.0	144.3	144.6	146.9	147.8	149.7	150.9	151.9	152.8	152.7	*152.9	*151.9	152.2	153.1
Building and mining equipment.....do.....	177.7	202.5	208.3	211.1	214.9	221.7	225.1	226.0	227.3	228.9	228.1	226.3	*226.5	*223.8	223.0	223.2
Manufacturing equipment.....do.....	106.5	113.9	118.2	118.8	117.7	118.3	119.0	121.3	122.8	122.6	123.9	124.4	*125.0	*124.2	124.7	125.6
Commercial, transit, farm eq......do.....	145.8	161.6	166.9	162.2	165.5	169.4	172.6	172.3	174.4	177.5	179.9	180.8	*182.9	*185.1	187.0	186.2
Commercial equipment.....do.....	173.5	191.6	198.8	198.5	200.9	202.0	203.8	204.2	206.9	210.6	212.2	214.1	*215.1	*215.3	216.0	217.4
Transit equipment.....do.....	104.1	117.8	121.1	111.1	115.9	126.1	133.7	132.2	132.3	134.9	138.5	138.6	*142.6	*147.5	151.2	146.2
Defense and space equipment.....do.....	78.4	79.6	79.5	79.7	79.2	81.9	82.9	83.6	84.6	85.9	87.1	87.1	86.7	*87.2	87.6	88.4
Intermediate products.....do.....	137.2	145.1	150.4	151.6	151.4	151.4	152.1	152.6	154.7	155.6	156.4	157.0	*158.0	*159.0	160.7	161.4
Construction supplies.....do.....	132.6	140.8	148.3	149.2	148.6	147.9	148.5	150.4	152.1	153.5	154.7	155.6	*157.0	*158.1	160.3	161.2
Business supplies.....do.....	141.8	149.5	152.6	153.8	154.2	155.0	155.6	155.0	157.0	157.6	158.2	158.4	*159.2	*159.8	161.1	-----
Materials.....do.....	130.6	136.9	138.8	139.2	138.6	139.9	143.7	145.1	146.4	147.9	148.6	149.7	*151.4	*152.6	153.3	153.3
Durable goods materials.....do.....	126.8	134.5	138.7	138.2	137.0	138.6	142.7	143.9	145.4	148.7	150.4	152.1	*154.0	*154.9	156.7	156.9
Durable consumer parts.....do.....	121.6	132.0	135.7	133.0	131.1	133.1	136.8	137.9	138.7	142.0	142.2	144.8	*147.3	*147.4	148.5	147.5
Equipment parts.....do.....	133.9	143.1	149.2	148.7	146.6	151.3	154.8	155.8	157.4	161.7	162.9	164.6	166.0	*167.6	170.1	171.6
Nondurable goods materials.....do.....	146.3	153.5	155.3	155.0	158.5	160.5	162.0	163.5	164.1	162.5	162.7	164.4	*165.7	*167.3	166.7	167.3
Textile, paper, and chemical.....do.....	151.1	158.3	159.3	160.7	162.8	165.7	166.4	167.9	168.8	168.3	167.0	170.0	*171.0	*172.4	171.7	172.5
Energy materials.....do.....	120.2	122.4	118.7	122.2	117.7	117.5	123.9	125.2	127.5	127.9	127.0	126.0	*128.0	*128.5	128.6	127.7
By industry groupings:																
Mining and utilities.....do.....	131.6	136.2	133.9	137.4	137.7	138.2	140.9	140.9	142.5	142.6	142.5	142.1	*144.1	*144.0	144.2	143.4
Mining.....do.....	114.2	117.8	113.4	115.0	114.4	119.3	127.2	126.7	128.0	127.1	126.0	124.1	*127.6	*127.3	127.0	124.0
Metal mining.....do.....	122.8	105.4	104.3	121.4	119.9	127.6	122.3	120.0	121.1	117.0	117.9	115.6	122.1	125.3	123.9	-----
Coal.....do.....	117.2	118.0	74.6	54.8	56.5	78.4	129.5	131.7	136.4	131.7	124.9	114.7	*144.0	*145.1	146.8	117.2
Oil and gas extraction.....do.....	112.0	118.0	118.4	121.1	120.4	123.3	127.3	126.3	127.1	126.8	126.2	124.9	*124.5	*123.8	123.2	123.0
Crude oil.....do.....	92.2	92.4	93.4	96.9	92.7	94.0	99.4	95.4	97.3	97.8	97.7	97.6	*97.1	*96.8	97.6	-----
Natural gas.....do.....	109.5	110.4	109.6	108.8	108.7	109.9	107.6	112.2	113.2	112.6	110.5	106.0	106.6	-----	-----	-----
Stone and earth minerals.....do.....	118.3	124.9	126.5	130.0	129.1	128.2	128.9	130.1	130.7	131.3	131.6	133.8	134.0	*132.9	133.6	-----
Utilities.....do.....	151.0	156.5	156.7	162.3	163.5	159.5	156.0	157.0	158.6	159.9	160.8	162.3	162.4	*162.7	163.4	165.0
Electric.....do.....	167.6	175.5	175.9	183.6	184.3	178.8	175.0	177.1	180.1	182.1	183.2	184.4	184.1	-----	-----	-----

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	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. ^p	Jan. ¹

GENERAL BUSINESS INDICATORS—Continued

INDUSTRIAL PRODUCTION†—Continued																
Federal Reserve Board Index of Quantity Output—Continued																
Seasonally Adjusted—Continued																
By industry groupings—Continued																
Manufacturing—Continued																
Durable manufactures.....1967=100	121.7	129.5	133.4	131.1	131.5	134.4	136.9	137.6	139.0	141.1	142.2	142.8	144.0	144.9	146.4	146.2
Ordnance, pvt. and govt.....do	72.7	73.9	73.8	72.3	71.2	72.7	73.0	74.3	74.7	75.2	75.2	74.3	73.9	73.6	74.2	74.6
Lumber and products.....do	125.1	133.4	138.1	138.5	135.5	136.5	136.9	136.5	138.7	138.1	136.9	139.2	141.2	142.5	145.3	145.3
Lumber.....do	105.8	110.6	119.6	109.6	108.9	103.7	109.9	106.0	110.6	112.8	106.4	113.6	112.1	113.3	-----	-----
Furniture and fixtures.....do	132.7	140.9	146.6	146.4	150.1	149.5	148.9	152.8	156.2	158.1	159.0	160.7	160.9	157.6	156.6	-----
Clay, glass, and stone products.....do	137.1	146.1	152.1	152.2	152.6	154.2	156.7	157.9	159.8	158.8	159.5	160.9	162.1	166.3	168.0	-----
Primary metals.....do	108.9	110.2	111.0	107.4	108.2	106.1	114.3	115.5	117.5	123.0	126.0	127.9	128.6	128.9	128.9	128.9
Iron and steel.....do	104.9	103.4	103.8	99.5	96.3	96.4	109.0	110.5	114.5	119.0	120.9	123.2	123.8	123.8	126.7	-----
Basic iron and steel.....do	100.7	97.4	94.7	91.4	89.7	88.2	97.4	104.7	109.4	110.5	114.7	115.2	115.3	114.3	111.7	-----
Steel mill products.....do	108.9	105.3	105.7	104.9	98.0	99.8	116.9	118.1	122.9	133.6	123.1	129.0	130.4	127.6	136.1	-----
Nonferrous metals.....do	115.9	122.4	123.3	121.7	124.0	123.9	124.7	124.8	123.2	129.5	137.5	136.6	136.4	137.6	141.6	-----
Fabricated metal products.....do	123.3	130.9	136.4	136.9	136.9	138.1	139.5	140.4	142.3	144.0	145.8	146.3	146.0	146.9	148.7	-----
Nonelectrical machinery.....do	135.0	144.8	151.7	150.1	150.1	151.5	152.2	152.9	154.6	156.1	157.3	158.7	160.3	160.6	161.4	162.5
Electrical machinery.....do	131.6	141.9	147.3	144.0	146.4	149.5	152.3	152.9	154.1	157.9	156.9	158.3	157.9	159.1	161.8	162.9
Transportation equipment.....do	110.6	121.1	122.2	116.2	118.4	126.5	130.5	130.1	130.4	152.1	133.4	132.8	137.0	139.3	139.3	137.1
Motor vehicles and parts.....do	140.7	159.7	161.8	146.6	153.1	165.1	171.7	168.3	167.7	169.7	171.0	168.9	176.8	181.4	179.3	173.5
Aerospace and misc. trans. eq.....do	82.2	84.7	84.9	87.6	85.8	90.1	91.8	93.9	95.0	96.5	98.3	98.9	99.6	99.7	101.7	103.0
Instruments.....do	148.2	159.1	164.7	163.4	163.5	168.7	170.5	169.8	170.9	172.2	175.4	174.6	175.3	176.2	178.9	180.3
BUSINESS SALES §																
Mfg. and trade sales (unadj.), total †⊕Δ.....mil. \$	2,409,117	2,685,519	241,801	209,707	224,582	251,459	250,018	257,761	265,651	240,107	261,407	262,212	272,181	269,427	273,543	-----
Mfg. and trade sales (seas. adj.), total †⊕Δ.....do	2,409,117	2,685,519	237,017	230,294	238,165	242,627	250,606	251,869	252,639	250,853	258,306	258,311	265,295	268,311	271,090	-----
Manufacturing, total †⊕.....do	2,185,716	2,335,072	117,938	114,322	118,982	121,101	124,537	123,566	124,839	123,039	127,871	127,919	130,614	132,380	133,771	-----
Durable goods industries.....do	608,363	699,193	62,130	59,973	63,077	64,457	66,493	65,417	66,293	64,847	68,684	68,916	70,292	71,635	72,121	-----
Nondurable goods industries.....do	577,353	635,879	55,808	54,349	56,905	56,644	58,044	58,149	58,546	58,192	59,187	59,003	60,322	60,745	61,650	-----
Retail trade, total Δ.....do	2,642,507	2,708,344	61,813	59,987	61,548	62,649	63,917	64,292	64,565	64,343	65,862	66,347	67,389	68,572	69,443	-----
Durable goods stores Δ.....do	210,530	238,815	20,674	19,914	20,445	20,897	21,807	21,821	22,092	21,844	22,908	22,812	23,599	23,883	24,066	-----
Nondurable goods stores.....do	431,977	469,529	41,139	40,073	41,103	41,752	42,110	42,471	42,723	42,500	42,954	43,535	43,790	44,689	45,377	-----
Merchant wholesalers, total.....do	2,580,894	2,642,104	57,266	55,985	57,635	58,777	62,152	64,011	63,235	63,190	64,573	64,045	67,292	67,359	67,876	-----
Durable goods establishments.....do	246,732	285,605	26,488	25,508	26,976	27,866	28,974	28,692	28,738	29,889	30,072	29,763	30,936	31,448	32,235	-----
Nondurable goods establishments.....do	334,162	356,498	30,778	30,417	30,659	31,411	33,178	35,319	34,497	33,301	34,501	34,282	36,356	35,911	35,641	-----
BUSINESS INVENTORIES §																
Mfg. and trade inventories, book value, end of year or month (unadj.), total †⊕Δ.....mil. \$	308,601	333,821	333,821	337,433	341,939	349,204	352,432	354,647	354,157	355,639	357,587	361,389	369,854	376,735	372,320	-----
Mfg. and trade inventories, book value, end of year or month (seas. adj.), total †⊕Δ.....mil. \$	309,238	334,785	334,785	337,676	340,396	345,839	350,545	354,226	356,920	359,301	362,815	364,747	367,382	371,475	373,847	-----
Manufacturing, total †⊕.....do	169,886	179,714	179,714	180,977	182,393	183,860	185,715	187,689	189,557	191,167	192,882	194,063	195,735	196,587	197,502	-----
Durable goods industries.....do	108,968	115,424	115,424	116,278	117,511	118,725	119,848	121,471	122,688	123,830	125,206	126,176	126,784	128,357	128,968	-----
Nondurable goods industries.....do	60,918	64,290	64,290	64,699	64,882	65,135	65,867	66,218	66,869	67,337	67,676	67,887	67,951	68,230	68,334	-----
Retail trade, total Δ.....do	78,045	87,073	87,073	87,708	87,642	89,097	89,963	91,063	91,543	92,470	93,680	93,664	94,301	95,930	96,038	-----
Durable goods stores.....do	36,417	40,534	40,534	41,060	41,369	41,521	41,881	42,300	42,036	42,359	42,640	42,565	43,039	44,087	44,221	-----
Nondurable goods stores.....do	41,628	46,539	46,539	46,648	46,273	47,576	48,082	48,763	49,507	50,111	51,040	51,099	51,262	51,843	51,817	-----
Merchant wholesalers, total Δ.....do	61,307	67,998	67,998	68,991	70,361	72,882	74,867	75,474	75,820	75,664	76,253	77,020	78,364	78,958	80,507	-----
Durable goods establishments.....do	38,177	44,368	44,368	44,686	45,684	46,838	47,673	48,363	48,810	49,577	50,101	50,300	50,903	51,457	52,504	-----
Nondurable goods establishments.....do	23,130	23,630	23,630	24,305	24,677	26,044	27,194	27,111	27,010	26,087	26,152	26,720	27,443	27,501	28,003	-----
BUSINESS INVENTORY-SALES RATIOS																
Manufacturing and trade, total †⊕Δ.....ratio	1.48	1.44	1.41	1.47	1.43	1.43	1.40	1.41	1.41	1.43	1.40	1.41	1.38	1.39	1.38	-----
Manufacturing, total †⊕.....do	1.66	1.58	1.52	1.58	1.53	1.52	1.49	1.52	1.52	1.55	1.55	1.52	1.49	1.49	1.47	-----
Durable goods industries.....do	2.07	1.93	1.86	1.94	1.86	1.84	1.80	1.86	1.85	1.90	1.82	1.83	1.81	1.79	1.79	-----
Materials and supplies.....do	.69	.65	.62	.64	.61	.60	.58	.60	.60	.61	.59	.60	.58	.58	.57	-----
Work in process.....do	.85	.78	.75	.80	.77	.77	.76	.78	.78	.81	.78	.77	.77	.77	.77	-----
Finished goods.....do	.52	.49	.48	.51	.48	.48	.46	.47	.47	.48	.46	.46	.45	.45	.45	-----
Nondurable goods industries †⊕.....do	1.23	1.19	1.15	1.19	1.16	1.15	1.13	1.14	1.14	1.16	1.14	1.15	1.13	1.12	1.11	-----
Materials and supplies.....do	.50	.48	.45	.46	.45	.45	.44	.44	.45	.45	.44	.44	.43	.43	.43	-----
Work in process.....do	.19	.19	.18	.19	.18	.18	.18	.18	.18	.18	.18	.18	.18	.18	.17	-----
Finished goods.....do	.53	.53	.52	.54	.52	.52	.51	.52	.52	.53	.53	.53	.51	.51	.51	-----
Retail trade, total Δ.....do	1.39	1.40	1.41	1.46	1.42	1.42	1.41	1.42	1.42	1.44	1.42	1.41	1.40	1.40	1.38	-----
Durable goods stores Δ.....do	1.94	1.93	1.96	2.06	2.02	1.99	1.92	1.94	1.90	1.94	1.86	1.87	1.82	1.81	1.84	-----
Nondurable goods stores.....do	1.12	1.13	1.13	1.16	1.13	1.14	1.14	1.15	1.17	1.18	1.19	1.17	1.17	1.16	1.14	-----
Merchant wholesalers, total Δ.....do	1.21	1.21	1.19	1.23	1.22	1.24	1.20	1.18	1.20	1.19	1.18	1.20	1.16	1.17	1.19	-----
Durable goods establishments.....do	1.78	1.73	1.68	1.75	1.69	1.71	1.65	1.69	1.70	1.66	1.67	1.69	1.65	1.64	1.63	-----
Nondurable goods establishments.....do	.79	.80	.77	.80	.80	.83	.82	.77	.78	.77	.76	.78	.75	.77	.79	-----
MANUFACTURERS' SALES, INVENTORIES, AND ORDERS																
Manufacturers' export sales: ⊙																
Durable goods industries:																
Unadjusted, total.....mil. \$	62,792	66,765	5,569	4,982	6,165	6,298	6,378	6,386	6,673	5,716	6,033	6,813	6,867	6,940	6,919	-----
Seasonally adj., total.....do	-----	-----	4,345	5,648	6,061	5,978	6,240	6,249	6,092	6,406	6,666	6,932	6,643	6,847	6,640	-----
Shipments (not seas. adj.), total †⊕.....do	1,185,716	1,335,072	111,358	105,437	119,337	125,225	127,014	125,144	131,727</							

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

GENERAL BUSINESS INDICATORS—Continued

MANUFACTURERS' SALES, INVENTORIES, AND ORDERS†—Continued																
Shipments (not seas. adj.)†—Continued																
Durable goods industries†—Continued																
Fabricated metal products.....mil. \$	77,508	85,255	6,815	6,357	7,457	7,919	8,184	8,110	8,510	7,158	8,393	8,637	8,605	8,436	8,187	
Machinery, except electrical.....do	105,529	119,008	10,627	9,285	11,039	11,860	11,685	11,259	12,453	10,446	11,074	12,346	12,384	11,828	12,520	
Electrical machinery.....do	73,868	85,759	7,566	7,135	7,826	8,175	8,119	7,848	8,627	7,271	8,273	9,026	8,967	8,699	8,575	
Transportation equipment.....do	141,028	170,739	13,754	13,140	15,313	16,675	17,087	16,833	17,540	13,185	13,858	16,958	18,125	17,944	15,987	17,133
Motor vehicles and parts.....do	95,380	117,758	9,134	9,070	10,600	11,641	11,920	11,780	12,035	8,645	9,141	11,290	12,987	12,532	10,047	
Instruments and related products.....do	25,030	28,570	2,510	2,182	2,359	2,661	2,522	2,575	2,826	2,390	2,716	2,890	2,857	2,841	2,663	
Nondurable goods industries, total ♀⊕.....do	577,353	635,879	53,147	51,011	56,571	57,752	58,635	57,787	59,888	55,084	60,175	61,639	62,441	60,951	58,700	
Food and kindred products.....do	180,933	191,887	16,494	15,338	17,487	17,694	17,539	17,778	18,204	16,983	18,209	18,674	19,268	18,786	18,541	
Tobacco products.....do	8,786	9,589	889	879	800	876	903	885	1,003	821	968	939	1,043	1,014	1,064	
Textile mill products.....do	36,387	40,821	3,437	3,216	3,562	3,691	3,912	3,743	3,818	3,100	3,744	3,901	3,990	3,783	3,425	
Paper and allied products.....do	48,219	52,368	4,282	4,229	4,666	4,775	4,759	4,803	5,066	4,592	5,007	4,966	5,157	5,061	4,643	
Chemical and allied products.....do	104,142	113,891	9,161	9,366	10,309	11,010	11,434	11,841	11,161	9,605	10,241	10,961	10,701	10,432	10,320	
Petroleum and coal products.....do	82,347	95,656	8,346	8,005	8,151	8,019	8,207	8,273	8,721	8,679	8,926	9,118	8,781	8,952	9,274	
Rubber and plastics products.....do	31,762	36,955	2,980	3,260	3,150	3,400	3,462	3,306	3,491	3,001	3,544	3,522	3,642	3,461	3,313	
Shipments (seas. adj.), total⊕.....do			117,938	114,322	118,982	121,101	124,537	123,566	124,839	123,106	127,871	127,919	130,614	132,380	133,771	
By industry group:																
Durable goods industries, total ♀.....do																
Stone, clay, and glass products.....do			62,130	59,973	63,077	64,457	66,493	65,417	66,293	65,222	68,684	68,916	70,292	71,635	72,415	74,307
Primary metals.....do			3,223	3,136	3,341	3,396	3,657	3,710	3,710	3,644	3,791	3,725	3,884	3,852	4,009	
Blast furnaces, steel mills.....do			9,166	8,776	9,591	9,310	9,824	9,628	9,860	9,905	10,346	10,241	10,862	10,868	11,425	10,825
Nonferrous and other primary met.....do			4,639	4,673	4,982	4,683	4,968	4,942	5,062	5,030	5,064	5,154	5,534	5,273	5,923	
Fabricated metal products.....do			3,562	3,767	3,938	3,680	3,834	3,640	3,786	3,823	4,267	4,036	4,253	4,464	4,392	
Machinery, except electrical.....do			7,419	7,003	7,582	7,848	8,013	7,880	7,899	7,539	8,241	8,200	8,152	8,639	8,906	
Electrical machinery.....do			10,670	10,051	10,778	10,964	11,364	11,091	11,425	11,544	11,831	12,062	12,371	12,320	12,565	
Transportation equipment.....do			7,640	7,831	7,713	7,979	8,119	7,929	8,167	8,071	8,495	8,509	8,526	8,519	8,644	
Motor vehicles and parts.....do			14,906	14,420	15,176	15,676	16,288	15,971	15,887	15,510	16,324	16,738	16,674	17,373	17,176	
Instruments and related products.....do			10,334	9,688	10,490	10,869	11,291	11,138	10,803	10,670	11,237	11,012	11,684	11,891	11,891	
Nondurable goods industries, total ♀⊕.....do			55,808	54,349	55,905	56,644	58,044	58,149	58,546	57,884	59,187	59,003	60,332	60,745	61,650	
Food and kindred products.....do			16,844	16,100	17,343	17,775	17,775	18,015	17,844	17,599	18,122	17,853	18,517	18,551	18,943	
Tobacco products.....do			884	836	840	898	928	821	960	824	921	933	1,046	988	1,057	
Textile mill products.....do			3,600	3,535	3,583	3,486	3,976	3,697	3,606	3,639	3,706	3,657	3,782	3,684	3,584	
Paper and allied products.....do			4,558	4,424	4,593	4,719	4,750	4,796	4,815	4,861	4,859	4,812	5,051	5,109	4,941	
Chemicals and allied products.....do			10,104	10,223	10,993	10,277	10,537	10,433	10,719	10,399	10,188	10,450	10,673	10,942	11,366	
Petroleum and coal products.....do			8,299	8,080	7,953	8,158	8,239	8,443	8,590	8,600	8,863	9,040	8,837	8,980	9,240	
Rubber and plastics products.....do			3,270	3,086	3,219	3,226	3,314	3,235	3,283	3,258	3,515	3,426	3,483	3,552	3,634	
By market category:†																
Home goods and apparel⊕.....do	93,402	102,713	9,269	8,898	9,147	9,190	9,611	9,395	9,532	9,291	9,809	9,820	9,998	9,964	9,970	
Consumer staples.....do	227,918	244,028	21,519	20,662	21,969	22,217	22,480	22,554	22,545	22,300	22,855	22,858	23,210	23,408	23,782	
Equipment and defense prod., excl. auto.....do	156,878	177,735	15,672	15,005	15,711	16,209	16,541	16,300	16,968	16,838	17,606	18,277	17,958	18,303	18,324	
Automotive equipment.....do	111,595	137,605	12,226	11,400	12,261	12,690	13,160	12,917	12,563	12,340	12,963	12,856	13,543	13,871	13,115	
Construction materials and supplies.....do	95,577	109,361	9,918	9,525	9,935	10,276	10,653	10,651	10,786	10,605	11,200	11,062	11,379	11,731	12,081	
Other materials and supplies.....do	500,346	563,630	49,334	48,792	50,054	50,519	52,092	51,749	52,445	51,732	53,438	53,246	54,526	55,103	56,499	
Supplementary series:																
Household durables.....do	40,624	45,015	4,184	3,911	3,951	4,296	4,369	4,133	4,361	4,155	4,447	4,353	4,503	4,437	4,469	
Capital goods industries.....do	178,160	205,263	18,208	17,974	18,459	19,536	19,058	19,653	19,574	20,409	21,290	21,290	21,191	21,819	22,639	
Nondefense.....do	151,511	173,723	15,252	15,296	15,690	16,095	16,598	16,257	16,782	16,819	17,598	18,357	17,882	18,284	18,975	
Defense.....do	26,649	31,540	2,683	2,678	2,769	2,833	2,938	2,801	2,871	2,755	2,811	2,933	2,762	2,907	3,120	
Inventories, end of year or month:†																
Book value (unadjusted), total.....do	170,430	180,118	180,118	182,745	184,450	185,448	186,844	188,499	188,846	189,439	191,281	191,875	193,494	195,912	197,552	
Durable goods industries, total.....do	108,529	114,862	114,862	116,835	118,704	119,969	120,963	122,540	122,891	123,160	124,430	124,903	125,583	127,226	128,273	
Nondurable goods industries, total.....do	61,901	65,256	65,256	65,910	65,746	65,479	65,881	65,959	65,955	66,279	66,851	66,972	67,911	68,676	69,279	
Book value (seasonally adjusted), total†.....do																
By industry group:																
Durable goods industries, total ♀.....do																
Stone, clay, and glass products.....do	108,968	115,424	115,424	116,277	117,511	118,725	119,848	121,471	122,688	123,830	125,206	126,176	126,784	128,357	128,968	
Primary metals.....do	3,991	4,259	4,259	4,416	4,510	4,530	4,518	4,570	4,569	4,606	4,688	4,740	4,699	4,782	4,775	
Blast furnaces, steel mills.....do	17,699	17,779	17,779	17,555	17,185	16,828	16,940	17,009	17,335	17,546	17,678	17,751	17,818	18,070		
Nonferrous and other primary met.....do	10,160	9,782	9,782	9,500	9,089	8,721	8,824	8,879	8,978	9,126	9,384	9,523	9,613	9,991	9,919	
Fabricated metal products.....do	6,490	6,826	6,826	6,891	6,912	6,893	6,901	6,974	7,000	6,987	6,953	6,931	6,937	6,919	6,929	
Machinery, except electrical.....do	14,017	14,760	14,760	14,849	15,225	15,573	15,874	15,992	16,130	16,131	16,425	16,374	16,706	16,598	16,575	
Electrical machinery.....do	24,323	26,379	26,379	26,731	27,400	27,757	28,279	28,766	29,062	29,374	29,707	30,048	30,257	30,874		
Transportation equipment.....do	13,912	15,433	15,433	15,539	15,703	16,023	16,188	16,445	16,628	16,758	16,860	17,023	16,959	17,120	16,958	
Motor vehicles and parts.....do	20,475	21,258	21,258	21,443	22,127	22,264	22,743	22,784	23,010	23,400	23,614	23,425	23,425	23,880		
Instruments and related products.....do	7,640	7,851	7,851	8,128	8,022	8,019	7,919	8,037	8,063	7,828	8,232	8,500	7,817	8,196	7,605	
Nondurable goods industries, total ♀⊕.....do	5,265	5,727	5,727	5,820	5,950	6,087	6,104	6,140	6,203	6,199	6,282	6,384	6,461	6,494	6,616	
By stage of fabrication:†																
Materials and supplies ♀.....do																
Primary metals.....do	36,540	38,719	38,719	38,177	38,535	38,547	38,794	39,484	39,667	39,727	40,343	41,133	40,916	41,228	40,967	
Machinery, except electrical.....do	7,222	7,141	7,141	6,711	6,603	6,393	6,371	6,427	6,444	6,394	6,587	6,554	6,499	6,647	6,571	
Electrical machinery.....do	6,949	7,345	7,345	7,329	7,371	7,497	7,703	7,897	8,012	8,155	8,175	8,412	8,680	8,573	8,765	
Transportation equipment.....do	4,105	4,520	4,520	4,440	4,528	4,581	4,630	4,729	4,819	4,873	4,979	4,979</				

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

COMMODITY PRICES

PRICES RECEIVED AND PAID BY FARMERS†																
Prices received, all farm products.....1910-14=100.....	464	457	452	466	481	500	520	536	543	536	526	538	544	538	555	580
Crops ♀	443	432	411	424	424	442	465	476	485	478	457	458	452	452	461	473
Commercial vegetables.....do.....	456	499	454	524	477	497	662	576	566	509	441	455	442	457	542	662
Cotton.....do.....	504	511	411	404	434	432	441	454	463	477	485	475	503	516	490	480
Feed grains and hay.....do.....	387	316	300	307	313	325	337	348	342	324	307	302	302	309	319	319
Food grains.....do.....	355	275	310	314	320	328	344	340	337	335	337	336	343	349	347	384
Fruit.....do.....	294	370	414	436	443	459	441	511	593	595	564	634	560	483	471	481
Tobacco.....do.....	906	972	1,015	1,024	1,021	1,006	1,017	1,018	1,017	1,030	1,078	1,144	1,107	1,115	1,138	1,134
Livestock and products ♀	485	481	495	509	539	560	576	597	603	597	598	621	639	627	653	692
Dairy products.....do.....	591	594	624	624	624	624	618	612	612	618	642	667	691	709	722	722
Meat animals.....do.....	569	564	582	613	661	700	730	779	789	763	765	796	830	792	829	904
Poultry and eggs.....do.....	233	228	223	218	235	238	245	237	238	258	243	247	238	248	260	264
Prices paid:																
All commodities and services.....do.....	564	591	595	604	610	621	629	637	640	642	643	650	655	658	664	676
Family living items.....do.....	563	573	588	590	593	598	602	608	613	620	624	628	632	638	641	644
Production items.....do.....	559	579	577	590	597	611	620	630	631	631	629	638	643	645	652	668
All commodities and services, interest, taxes, and wage rates (parity index).....1910-14=100.....	650	687	691	711	717	728	736	744	747	749	750	757	761	764	770	793
Parity ratio §.....do.....	71	66	66	66	67	69	71	72	73	72	70	71	71	71	72	73
CONSUMER PRICES¶ (U.S. Department of Labor Indexes)																
Not Seasonally Adjusted																
ALL ITEMS, WAGE EARNERS AND CLERICAL WORKERS, REVISED (CPI-W)¶ 1967=100.....	170.5	181.5	186.1	187.1	188.4	189.7	191.4	193.3	195.3	196.7	197.7	199.1	200.7	201.8	202.9	204.7
ALL ITEMS, ALL URBAN CONSUMERS (CPI-U)¶ 1967=100.....	170.5	181.5	186.1	187.2	188.4	189.8	191.5	193.3	195.3	196.7	197.8	199.3	200.9	202.0	202.9	204.7
Special group indexes:																
All items less shelter.....do.....	168.3	179.1	183.0	183.8	185.0	186.3	188.1	189.9	191.8	192.7	193.5	194.5	195.8	196.7	197.8	199.5
All items less food.....do.....	167.5	178.4	183.1	183.8	184.7	185.9	187.4	189.0	190.6	192.0	193.3	195.1	196.7	197.8	198.6	199.8
All items less medical care.....do.....	169.7	180.3	184.7	185.8	186.9	188.3	190.1	191.9	193.9	195.3	196.3	197.9	199.4	200.5	201.5	203.2
Commodities.....do.....	165.2	174.7	178.3	179.2	180.2	181.6	183.5	185.5	187.5	188.6	189.3	190.5	191.8	192.9	194.2	195.8
Nondurables.....do.....	169.2	178.9	182.9	183.9	185.1	186.8	188.8	190.7	192.7	193.6	194.4	195.4	196.6	197.5	198.8	201.0
Nondurables less food.....do.....	158.3	166.5	170.3	169.7	169.6	170.7	171.8	172.8	173.7	174.1	175.4	177.1	178.1	179.1	180.0	182.0
Durables.....do.....	154.3	163.2	165.9	166.6	167.2	168.3	169.9	172.0	173.9	175.3	175.9	177.2	178.8	180.0	181.2	182.0
Commodities less food.....do.....	156.6	165.1	168.4	168.6	168.8	170.0	171.3	173.0	174.4	175.4	176.3	177.8	179.1	180.3	181.3	181.9
Services.....do.....	180.4	194.3	200.5	202.0	203.5	204.9	206.5	208.0	209.9	211.7	213.4	215.6	217.6	218.6	219.2	221.1
Services less rent.....do.....	186.8	201.6	208.2	209.8	211.4	213.0	214.6	216.2	218.3	220.4	222.2	224.6	226.7	227.8	228.2	230.4
Food ♀	180.8	192.2	196.3	199.2	202.0	204.2	207.5	210.3	213.8	215.0	215.4	215.6	216.8	217.8	219.4	223.9
Food at home.....do.....	179.5	190.2	193.7	197.0	200.1	202.5	206.5	209.7	213.9	214.7	214.5	214.1	215.4	216.1	217.9	223.1
Housing.....do.....	174.6	186.5	192.4	193.8	195.0	196.7	198.3	199.9	202.0	203.8	205.2	207.5	209.5	210.6	211.5	213.1
Shelter ♀	179.0	191.1	198.2	200.0	201.3	202.9	204.7	206.6	208.9	211.3	213.3	216.2	218.6	220.1	221.0	222.8
Rent.....do.....	144.7	153.5	157.9	158.8	159.7	160.5	161.5	162.7	163.6	164.2	165.1	166.4	167.4	168.5	169.5	170.3
Homeownership.....do.....	191.7	204.9	213.0	215.0	216.4	218.3	220.4	222.5	225.3	228.3	230.6	234.2	237.0	238.8	239.5	241.6
Fuel and utilities ♀	182.7	202.2	207.6	208.5	212.6	213.9	215.5	217.5	218.0	218.1	218.1	218.8	219.1	218.5	219.9	221.6
Fuel oil and coal.....do.....	250.8	283.4	291.9	296.2	297.2	299.6	299.6	295.6	295.1	294.5	294.2	295.7	300.1	306.1	311.8	316.4
Gas (piped) and electricity.....do.....	189.0	213.4	218.9	219.7	223.3	226.6	229.2	232.5	236.5	237.2	236.9	237.9	240.0	234.9	236.2	239.5
Household furnishings and operation.....do.....	160.1	167.5	171.0	171.3	172.1	173.6	175.0	176.0	177.6	178.1	178.9	180.5	181.9	183.0	184.8	184.8
Apparel and upkeep.....do.....	147.6	154.2	158.2	155.7	154.5	156.5	158.4	159.8	159.9	158.0	159.6	161.9	163.3	164.1	163.2	160.7
Transportation.....do.....	165.5	177.2	178.8	179.0	179.4	179.9	181.1	183.2	185.5	187.2	188.1	188.7	189.7	191.4	192.6	193.9
Private.....do.....	164.6	176.6	178.0	178.2	178.6	179.1	180.3	182.6	185.0	186.8	187.7	188.3	189.4	191.1	192.5	193.8
New cars.....do.....	135.7	142.9	150.5	150.9	151.2	151.1	151.2	152.5	153.5	153.8	153.8	153.5	155.5	158.5	159.8	161.2
Used cars.....do.....	167.9	182.8	170.7	169.8	170.0	172.3	177.3	184.6	191.5	195.9	196.7	195.9	195.4	194.7	194.0	193.6
Public.....do.....	174.2	182.4	185.7	186.6	186.8	187.2	187.3	187.4	187.2	187.2	187.6	188.2	189.3	189.7	189.1	190.0
Medical care.....do.....	184.7	202.4	209.3	211.2	213.3	214.5	215.7	216.9	217.9	219.4	221.4	222.6	224.7	227.0	227.8	230.7
Seasonally Adjusted Δ																
All items, percent change from previous month.....do.....																
Commodities.....do.....																
Commodities less food.....do.....																
Food.....do.....																
Food at home.....do.....																
Fuels and utilities.....do.....																
Fuel oil and coal.....do.....																
Apparel and upkeep.....do.....																
Transportation.....do.....																
Private.....do.....																
New cars.....do.....																
Services.....do.....																
PRODUCER PRICES⊙ (U.S. Department of Labor Indexes)																
Not Seasonally Adjusted																
Spot market prices, basic commodities:																
22 Commodities.....do.....	201.0	209.6	212.7	218.0	220.3	226.3	225.0	228.1	229.6	228.9	236.2	243.0	251.0	252.2	250.8	255.3
9 Foodstuffs.....do.....	201.6	208.2	215.1	215.4	220.8	236.0	237.9	243.7	240.8	234.9	241.4	248.7	253.1	248.3	249.1	250.9
13 Raw industrials.....do.....	200.6	210.4	210.9	219.7	219.9	219.8	216.5	217.8	221.1	224.7	232.6	239.1	249.4	254.8	251.8	258.3
All commodities.....do.....	183.0	194.2	198.2	200.1	202.1	203.7	206.5	208.0	209.6	210.7	210.4	212.3	215.0	215.7	217.4	220.7
By stage of processing:																
Crude materials for further processing.....do.....	205.1	214.4	215.5	219.6	225.0	230.5	239.0	241.2	245.4	245.4	240.2	244.9	249.9	248.6	252.4	260.2
Intermediate materials, supplies, etc.....do.....	189.3	201.7	205.4	207.2	208.9	210.7	212.5	213.9	215.1	216.0	217.3	218.7	220.7	221.8	222.8	225.7
Finished goods ⊙	170.3	180.6	185.5	187.0	188.5	189.1	191.5	193.1	194.5	196.0	195.6	196.9	199.7	200.6	202.4	205.3
Finished consumer goods.....do.....	169.0	178.9	183.0	184.4	186.2	186.8	189.7	191.4	193.0	194.6	193.6	195.1	197.8	198.3	200.4	203.6
Capital equipment.....do.....	173.2	184.5	191.6	193.0	193.7	194.6	195.6	196.9								

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	Annual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

COMMODITY PRICES—Continued

PRODUCER PRICES ¹ —Continued (U.S. Department of Labor Indexes)—Continued																
All commodities—Continued																
Farm prod., processed foods and feeds 1967=100	183.1	188.8	189.4	192.2	196.8	200.0	205.5	207.6	210.4	210.3	205.3	209.5	213.6	212.5	216.1	221.0
Farm products ².....do.....	191.0	192.5	188.3	192.2	198.9	204.2	213.7	215.8	219.5	219.9	210.0	209.5	213.6	212.5	216.1	221.0
Fruits and vegetables, fresh and dried.....do.....	178.4	192.2	169.5	196.6	204.2	201.2	227.3	220.1	*230.3	252.4	215.3	209.8	225.9	217.4	218.3	230.7
Grains.....do.....	205.9	165.0	167.3	169.1	170.8	178.9	198.7	189.2	188.1	183.8	178.9	176.9	182.0	189.0	184.7	184.4
Live poultry.....do.....	166.9	175.4	157.8	170.2	188.8	187.9	196.0	194.5	221.6	246.5	204.8	211.1	184.9	192.4	198.5	206.0
Livestock.....do.....	173.3	173.0	182.7	188.2	202.1	208.3	218.1	230.3	236.2	226.8	216.6	226.8	235.1	222.4	230.1	247.3
Foods and feeds, processed ³.....do.....	178.0	186.1	189.3	191.5	194.9	196.9	200.2	202.4	204.6	204.2	201.8	205.5	209.0	208.1	211.9	215.3
Beverages and beverage materials.....do.....	173.5	201.0	201.3	202.1	201.3	200.1	200.1	199.5	200.0	198.4	196.9	197.8	201.1	201.4	202.3	201.4
Cereal and bakery products.....do.....	172.1	173.4	182.1	184.3	185.0	186.4	188.8	188.2	*190.0	191.0	192.5	190.9	193.2	195.8	196.4	196.9
Dairy products.....do.....	168.5	173.4	178.2	178.0	178.7	180.3	184.5	184.5	185.4	186.1	190.8	192.9	197.0	199.6	202.7	203.4
Fruits and vegetables, processed.....do.....	170.2	187.4	194.4	194.3	194.5	195.6	196.5	197.4	*198.8	200.4	203.3	204.9	210.3	216.3	218.4	218.4
Meats, poultry, and fish.....do.....	181.6	182.0	190.8	193.6	205.4	204.7	211.7	220.4	228.2	224.4	215.9	224.4	228.2	220.9	229.1	240.3
Industrial commodities.....do.....	182.4	195.1	200.0	201.6	202.9	204.1	206.1	207.4	*208.7	210.1	211.4	212.4	214.7	216.0	217.0	219.9
Chemicals and allied products ⁴.....do.....	187.2	192.8	194.1	194.1	195.2	196.1	196.9	198.6	*198.9	199.8	199.5	200.2	201.5	202.3	202.0	204.9
Agric. chemicals and chem. prod.....do.....	188.4	187.8	187.1	187.5	189.1	191.0	192.3	203.5	*202.6	202.1	202.1	202.4	202.5	201.8	201.6	201.4
Chemicals, industrial.....do.....	219.3	223.9	225.3	224.3	224.2	224.1	224.2	224.0	*224.0	225.1	226.4	226.3	227.8	227.1	228.8	233.4
Drugs and pharmaceuticals.....do.....	134.0	140.5	142.9	144.1	145.0	145.3	146.2	146.6	147.8	148.5	148.9	149.6	150.3	152.1	153.2	155.4
Fats and oils, inedible.....do.....	249.9	279.0	266.1	263.2	281.5	294.6	301.3	315.2	313.2	335.6	312.9	338.5	340.0	361.2	332.9	336.1
Prepared paint.....do.....	174.4	182.4	185.9	186.1	189.3	189.5	191.6	192.6	192.6	192.6	192.6	192.6	192.6	192.6	199.1	198.9
Fuels and related prod., and power ⁵.....do.....	265.6	302.2	312.0	312.8	312.9	315.3	317.3	319.7	*323.2	324.5	324.9	327.0	328.9	329.9	334.1	338.3
Coal.....do.....	368.7	389.4	402.0	403.8	404.9	407.0	426.4	432.4	*434.5	437.1	441.7	442.7	443.9	442.7	442.7	444.6
Electric power.....do.....	207.6	232.9	237.0	239.5	242.6	249.8	250.6	252.6	*256.9	254.8	253.6	252.7	253.4	250.4	251.3	251.6
Gas fuels.....do.....	286.8	387.8	422.3	420.4	417.7	424.8	428.6	428.8	*428.8	430.6	425.3	431.5	433.4	434.9	444.7	450.4
Petroleum products, refined.....do.....	276.6	308.2	313.9	314.3	312.9	310.9	311.7	314.5	*318.4	321.1	323.3	326.1	328.9	331.9	337.4	343.7
Furniture and household durables ⁶.....do.....	145.6	151.5	154.2	156.5	156.7	157.7	158.4	159.2	*159.5	161.4	161.8	161.3	162.2	162.9	163.7	165.8
Appliances, household.....do.....	139.2	145.1	148.0	149.5	149.8	151.2	152.4	152.4	*152.7	153.5	154.0	153.7	154.2	155.3	155.3	156.6
Furniture, household.....do.....	153.6	162.2	166.4	168.2	168.8	169.3	169.9	170.7	*172.3	174.6	175.6	176.1	177.9	178.9	178.9	180.9
Home electronic equipment.....do.....	91.3	87.7	86.5	89.0	88.7	89.1	88.7	90.0	*88.5	90.8	90.8	88.9	88.7	88.9	89.7	89.6
Hides, skins, and leather products ⁷.....do.....	167.8	179.3	181.5	185.8	187.2	187.9	191.9	193.6	*195.3	197.3	205.1	211.0	213.3	216.0	216.5	223.8
Footwear.....do.....	158.9	168.7	171.6	173.4	175.7	175.7	180.0	180.9	*181.1	181.7	184.0	186.5	191.2	192.7	194.9	196.9
Hides and skins.....do.....	258.4	286.7	291.9	300.4	298.2	296.0	320.5	321.7	*346.5	360.4	400.8	435.3	427.9	417.0	401.3	452.8
Leather.....do.....	188.1	201.0	200.4	210.8	211.9	215.3	217.4	217.3	*217.4	224.5	251.9	269.4	269.4	278.7	279.6	292.8
Lumber and wood products.....do.....	205.6	236.3	249.2	256.4	263.7	266.2	269.6	273.4	*278.5	277.5	281.6	282.8	284.1	288.5	288.7	290.1
Lumber.....do.....	233.0	276.5	291.0	300.4	308.5	312.5	316.7	316.5	*320.8	319.1	326.7	332.0	334.4	338.5	339.2	336.6
Machinery and equipment ⁸.....do.....	171.0	181.7	187.5	189.3	190.3	191.6	192.7	193.9	*195.3	196.5	197.5	198.7	200.4	202.5	203.6	205.0
Agricultural machinery and equip.....do.....	183.0	197.9	206.3	206.7	207.7	208.1	209.0	209.7	*210.8	212.2	214.1	217.0	217.9	219.9	221.0	221.8
Construction machinery and equip.....do.....	198.9	213.5	223.0	223.5	224.8	225.7	228.4	230.3	*231.1	232.8	234.6	236.5	240.1	241.9	243.6	245.2
Electrical machinery and equip.....do.....	146.7	154.1	158.0	160.0	160.7	161.8	162.7	163.4	*164.6	165.4	165.8	166.5	167.5	169.6	170.4	171.1
Metalworking machinery and equip.....do.....	182.7	198.5	206.0	208.3	209.5	210.8	212.2	214.0	*215.6	216.7	218.2	220.2	223.5	225.9	228.0	230.1
Metals and metal products ⁹.....do.....	195.9	209.0	213.3	215.2	219.1	221.1	223.9	224.6	*225.9	227.3	231.0	231.5	234.0	235.4	236.6	241.6
Heating equipment.....do.....	158.0	165.5	169.3	171.3	170.7	171.3	172.7	173.4	*173.9	174.4	176.2	175.8	176.7	177.0	178.8	180.1
Iron and steel.....do.....	215.9	230.4	235.7	237.9	244.8	247.6	252.0	252.0	*252.5	253.9	258.6	258.4	259.7	261.5	263.1	272.0
Nonferrous metals.....do.....	181.6	195.4	195.1	198.0	199.7	201.1	202.9	203.2	*205.4	205.9	211.1	211.3	217.0	218.1	218.9	223.2
Nonmetallic mineral products ¹⁰.....do.....	186.3	200.5	206.6	212.9	215.1	215.9	218.4	219.3	*222.0	224.7	227.2	227.8	229.0	229.8	230.9	237.7
Clay prod., structural, excl. refrac.....do.....	163.5	179.8	185.5	189.6	190.4	192.6	193.7	194.2	*195.5	196.6	197.7	201.8	202.4	204.4	206.5	209.7
Concrete products.....do.....	180.1	191.8	195.7	202.9	205.2	206.0	207.9	209.7	*211.8	214.4	219.7	221.0	222.3	222.9	224.2	235.0
Gypsum products.....do.....	154.4	183.5	204.9	209.7	215.9	217.0	221.2	228.2	*230.2	234.0	235.9	236.0	236.0	242.1	242.7	247.6
Pulp, paper, and allied products.....do.....	179.4	186.4	187.6	188.0	188.6	189.7	191.9	193.2	*193.5	195.5	195.8	199.1	202.2	208.7	204.0	206.8
Paper.....do.....	182.3	194.3	196.9	197.5	198.3	198.8	202.7	204.0	*205.1	206.8	208.0	210.4	213.2	214.2	214.9	217.4
Rubber and plastics products.....do.....	159.2	167.6	170.0	170.2	170.2	171.4	172.8	173.8	*174.5	174.9	175.7	176.6	178.0	179.2	179.6	180.7
Tires and tubes.....do.....	161.5	169.9	172.1	172.3	170.9	172.3	175.1	178.8	*179.5	179.9	180.0	180.3	184.3	187.6	188.6	191.4
Textile products and apparel ¹¹.....do.....	148.2	154.0	155.8	156.5	157.0	157.4	157.9	158.6	*159.2	160.0	160.5	161.1	162.2	163.0	163.5	164.6
Synthetic fibers.....Dec. 1975=100.....do.....	102.4	107.3	109.3	110.0	109.9	109.9	109.2	109.5	*108.9	108.9	109.1	109.3	109.8	110.8	111.5	113.3
Processed yarns and threads.....do.....	99.5	100.9	100.5	100.6	101.0	101.2	101.1	101.0	*101.6	101.9	102.4	103.3	103.7	105.3	104.6	105.3
Gray fabrics.....do.....	106.1	104.7	107.2	108.9	109.9	112.2	113.9	117.3	*117.8	119.2	120.9	124.1	126.5	126.7	125.9	125.6
Finished fabrics.....do.....	101.1	103.7	103.6	103.6	103.7	103.0	103.1	103.3	*103.1	103.2	103.4	104.0	104.3	104.7	105.8	106.4
Apparel.....1967=100.....do.....	139.9	147.3	149.4	150.1	150.0	150.2	150.7	151.0	*152.1	153.0	153.5	153.2	154.3	155.2	155.4	157.1
Textile house furnishings.....do.....	159.3	171.3	175.3	175.4	175.8	176.3	176.1	177.0	*178.7	179.4	179.2	180.3	181.0	180.5	183.4	181.8
Transportation equipment ¹².....Dec. 1968=100.....do.....	151.1	161.3	168.3	169.1	169.5	169.6	170.5	172.0	*172.4	172.8	173.1	173.5	178.8	179.8	180.2	182.4
Motor vehicles and equip.....1967=100.....do.....	153.8	163.7	170.9	171.3	171.8	171.9	172.9	174.6	*175.2	175.5	175.8	175.8	181.3	182.1	182.	

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	Annual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	
CONSTRUCTION AND REAL ESTATE																
CONSTRUCTION PUT IN PLACE †																
New construction (unadjusted), total.....mil. \$..	148,778	172,552	13,813	11,441	11,395	13,425	15,339	17,290	18,752	19,010	19,709	19,787	19,634	18,729	16,593	
Private, total ♀.....do.....	110,467	134,724	11,071	9,188	9,153	10,823	12,180	13,466	14,511	14,572	14,846	14,990	14,989	14,512	13,118	
Residential (including farm).....do.....	60,520	80,956	6,442	5,149	5,158	6,264	7,272	8,297	8,881	8,989	9,069	9,037	8,696	8,269	7,132	
New housing units.....do.....	47,277	65,749	5,409	4,239	4,295	5,174	5,669	6,366	7,041	7,382	7,543	7,436	7,332	7,043	5,954	
Nonresidential buildings, except farm and public utilities, total ♀.....mil. \$..	26,091	28,695	2,416	2,074	2,095	2,463	2,672	2,825	3,171	3,207	3,359	3,437	3,559	3,479	3,386	
Industrial.....do.....	7,183	7,712	690	554	565	720	750	735	966	950	1,057	1,114	1,110	1,078	1,164	
Commercial.....do.....	12,756	14,783	1,220	1,081	1,097	1,242	1,365	1,524	1,627	1,661	1,697	1,720	1,844	1,788	1,662	
Public utilities:																
Telephone and telegraph.....do.....	3,777	4,345	385	294	297	424	417	438	516	443	469	485	544	499		
Public, total ♀.....do.....	38,311	37,827	2,742	2,253	2,242	2,603	3,159	3,823	4,240	4,439	4,863	4,797	4,645	4,217	3,475	
Buildings (excluding military) ♀.....do.....	13,480	12,751	1,016	950	945	1,055	1,173	1,353	1,386	1,468	1,501	1,494	1,406	1,349	1,235	
Housing and redevelopment.....do.....	736	959	63	63	59	70	66	92	91	94	95	116	103	125	109	
Industrial.....do.....	973	1,146	99	96	93	96	107	106	119	114	137	131	120	102	104	
Military facilities.....do.....	1,520	1,517	118	115	117	119	120	120	113	124	128	146	116	124	125	
Highways and streets.....do.....	9,777	9,372	508	323	266	376	548	897	1,067	1,148	1,413	1,271	1,318	1,020	670	
New construction (seasonally adjusted at annual rates), total.....bil. \$..			179.0	171.4	177.6	185.4	195.3	201.6	205.8	208.3	206.4	209.2	209.8	212.8	215.0	
Private, total ♀.....do.....			142.3	134.9	141.9	147.7	153.7	156.5	160.6	159.9	158.0	161.3	161.9	164.9	168.0	
Residential (including farm).....do.....			87.4	79.3	85.3	88.1	92.4	94.5	94.9	94.0	92.5	94.2	93.6	95.4	96.8	
New housing units.....do.....			72.8	65.0	70.9	72.5	74.4	75.1	76.6	77.7	77.1	76.8	76.8	78.9	80.2	
Nonresidential buildings, except farm and public utilities, total ♀.....bil. \$..			29.0	28.4	28.7	31.8	33.2	34.2	37.3	37.7	37.6	38.2	38.7	39.7	40.6	
Industrial.....do.....			7.9	7.4	7.7	9.2	9.2	8.7	11.3	11.2	12.0	12.6	12.6	12.5	13.3	
Commercial.....do.....			14.9	15.0	15.2	16.2	17.2	18.5	19.2	19.5	18.8	18.9	19.4	20.3	20.4	
Public utilities:																
Telephone and telegraph.....do.....			4.5	4.7	4.5	4.9	5.3	5.0	5.6	5.5	5.1	5.6	5.9	5.5		
Public, total ♀.....do.....			36.8	36.4	35.7	37.7	41.5	45.1	45.2	48.4	48.4	48.0	47.9	47.9	47.0	
Buildings (excluding military) ♀.....do.....			12.4	12.7	13.1	13.8	14.8	16.4	16.0	16.7	16.6	16.0	15.7	15.5	15.4	
Housing and redevelopment.....do.....			.8	.9	.9	.9	.9	1.2	1.0	1.1	1.1	1.2	1.1	1.4	1.4	
Industrial.....do.....			1.1	1.2	1.1	1.0	1.2	1.2	1.3	1.6	1.8	1.3	1.2	1.3	1.2	
Military facilities.....do.....			1.4	1.4	1.5	1.4	1.5	1.4	1.4	1.5	1.5	1.6	1.4	1.4	1.5	
Highways and streets.....do.....			8.5	8.4	7.4	8.1	8.5	10.6	10.3	9.8	11.4	10.9	11.4	11.0	11.2	
CONSTRUCTION CONTRACTS																
Construction contracts in 50 States (F. W. Dodge Division, McGraw-Hill):																
Valuation, total.....mil. \$..	110,061	139,723	10,445	9,390	9,695	12,345	13,189	17,785	14,169	14,711	15,597	13,816	14,863	11,557	10,185	
Index (mo. data seas. adj.).....1967=100..	1199	1252	299	283	266	254	279	332	251	286	289	300	319	285	303	
Public ownership.....mil. \$..	29,254	36,917	3,486	2,499	2,239	3,131	3,594	4,097	3,551	3,569	3,857	3,499	3,099	2,867	2,978	
Private ownership.....do.....	80,807	102,805	6,959	6,891	7,456	9,214	9,595	13,688	10,618	11,141	11,740	10,317	11,764	8,690	7,207	
By type of building:																
Nonresidential.....do.....	30,035	35,086	3,370	2,809	2,905	3,429	3,470	4,538	3,788	4,534	3,945	4,572	4,141	3,532	3,096	
Residential.....do.....	44,169	62,017	4,305	3,884	3,862	6,139	6,854	7,652	7,722	6,710	6,910	6,317	6,821	5,921	4,781	
Non-building construction.....do.....	35,857	42,620	2,700	2,697	2,929	2,776	2,864	5,596	2,679	3,466	4,742	2,926	3,901	2,104	2,308	
New construction planning (Engineering News-Record) ○.....do.....	88,457	91,702	12,700	6,885	10,349	10,470	7,014	6,556	8,771	9,071	9,756	5,882	9,837	13,209	14,269	
HOUSING STARTS AND PERMITS																
New housing units started:																
Unadjusted:																
Total (private and public).....thous..	1,547.6	1,989.8	129.4	88.6	101.3	172.3	197.5	211.1	216.1	192.3	190.9	181.1	192.1	158.6	120.5	
Inside SMSA's.....do.....	1,048.3	1,377.9	95.3	67.5	75.2	121.6	141.8	146.2	149.7	131.2	(3)					
Privately owned.....do.....	1,537.5	1,987.1	129.2	88.6	101.3	172.1	197.5	211.0	216.0	192.2	190.9	180.5	192.1	158.6	118.7	
One-family structures.....do.....	1,162.4	1,450.9	87.1	63.3	72.8	121.4	139.9	154.9	154.3	139.3	140.0	124.6	131.1	110.4	80.8	
Seasonally adjusted at annual rates:																
Total privately owned.....do.....			2,151	1,744	1,650	2,011	2,176	2,037	2,093	2,104	2,004	2,024	2,054	2,107	2,062	
One-family structures.....do.....			1,561	1,290	1,171	1,413	1,482	1,463	1,439	1,455	1,431	1,432	1,436	1,502	1,529	
New private housing units authorized by building permits (14,000 permit-issuing places):																
Monthly data are seas. adj. at annual rates:																
Total.....thous..	1,296	1,690	1,778	1,526	1,534	1,647	1,740	1,597	1,821	1,632	1,563	1,731	1,727	1,724	1,664	
One-family structures.....do.....	894	1,126	1,188	1,032	957	1,037	1,157	1,058	1,123	1,035	1,020	1,092	1,135	1,114	1,149	
Manufacturers' shipments of mobile homes:																
Unadjusted.....thous..	2246.1	277.0	18.5	18.9	18.7	24.6	23.2	26.6	26.4	20.2	28.0	24.1	25.8	22.2	17.0	
Seasonally adjusted at annual rates.....do.....	(2)		5316	317	274	276	260	268	270	255	267	275	286	280	303	
CONSTRUCTION COST INDEXES																
Dept. of Commerce composite ○.....1972=100..	143.8	156.6	164.8	164.5	164.5	164.8	169.2	171.0	174.1	176.1	179.5	180.5	183.1	184.3	185.3	
American Appraisal Co., The:																
Average, 30 cities.....1913=100..	1,870	1,998	2,068	2,088	2,095	2,111	2,124	2,137	2,169	2,180	2,207	2,218	2,244	2,249	2,254	
Atlanta.....do.....	2,009	2,141	2,187	2,197	2,247	2,270	2,283	2,294	2,309	2,348	2,366	2,374	2,389	2,388	2,379	
New York.....do.....	1,943	2,065	2,131	2,162	2,162	2,174	2,181	2,191	2,211	2,211	2,223	2,229	2,298	2,297	2,324	
San Francisco.....do.....	1,906	2,063	2,147	2,167	2,195	2,195	2,220	2,216	2,230	2,295	2,312	2,321	2,338	2,336	2,332	
St. Louis.....do.....	1,803	1,905	1,967	1,986	1,990	2,003	2,029	2,066	2,078	2,087	2,102	2,111	2,122	2,121	2,154	
Boeckh indexes:																
Average, 20 cities:																
Apartments, hotels, office buildings §.....1972=100..	137.3	148.6		154.0		155.3		156.7		158.8		160.7				
Commercial and factory buildings.....do.....	141.5	152.8		158.5		160.9		163.0		165.2		167.5				
Residences.....do.....	136.2	148.5		155.5		157.5		158.8		162.0		166.4				

† Revised. ‡ Preliminary. § Computed from cumulative valuation total. ¶ Unadjusted data for Jan.-Dec. 1976 and seasonally adjusted data for Jan. 1974-Dec. 1976 will be available later. * No longer available. † Revised data prior to Dec. 1977 will be available later. ‡ Shipments for Nov. 1977 have been revised to '80. § Data for new construction have been revised back to Jan. 1973. The revised data are available from the Bureau of the Census, Washington, D.C. 20233.

○ Data for Dec. 1977, and Mar., June, Aug. and Nov. 1978 are for 5 weeks; other months 4 weeks.

♀ Includes data for items not shown separately.

§ This index has been revised to a new comparison base (1972=100); monthly data back to Jan. 1964 are available upon request.

¶ These indexes are restated on the 1972=100 base; monthly data for earlier periods will be available later.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

CONSTRUCTION AND REAL ESTATE—Continued

CONSTRUCTION COST INDEXES—Con.																
Engineering News-Record:																
Building.....1967=100.....	210.9	228.6	237.7	237.7	239.0	239.5	240.0	244.6	246.2	251.0	252.3	254.5	254.8	256.3	256.7	257.5
Construction.....do.....	223.4	240.0	248.5	248.8	249.6	250.7	251.2	254.4	256.3	262.6	263.3	265.4	265.4	266.4	267.0	267.4
Federal Highway Adm.—Highway construction: Composite (avg. for year or qtr.).....1967=100.....	199.3	216.4	233.0			219.5			258.1			296.1			302.7	
CONSTRUCTION MATERIALS																
Output index:																
Composite, unadjusted σ.....1947-49=100.....	175.4	180.4	163.3	148.4	153.6	186.6										
Seasonally adjusted σ.....do.....			187.3	156.9	174.1	193.9										
Iron and steel products, unadjusted.....do.....	141.9	147.3	139.1	124.9	129.2	161.9	158.9	176.4	180.9	153.2	173.8	159.0				
Lumber and wood products, unadjusted.....do.....	101.2	109.8	186.5	187.1	186.9	212.7	194.2	209.6	205.0	177.6	207.2	198.4				
Portland cement, unadjusted.....do.....	192.3	208.7	156.3	91.7	110.8	188.1	226.5	268.6	297.8	261.6	301.2	266.9				
REAL ESTATE\ddagger																
Mortgage applications for new home construction:																
FHA net applications.....thous. units.....	95.0	113.3	6.7	7.2	7.2	10.4	11.0	12.0	9.7	10.9	11.1	8.6	11.6	11.1	8.0	9.4
Seasonally adjusted annual rates.....do.....			95	117	99	112	133	113	104	132	122	101	133	148	120	145
Requests for VA appraisals.....do.....	183.4	211.8	12.8	15.3	13.7	18.1	18.9	16.3	16.7	15.4	17.7	14.9	17.0	15.5	13.2	15.7
Seasonally adjusted annual rates.....do.....			205	226	181	191	215	171	178	186	185	188	192	202	221	217
Home mortgages insured or guaranteed by—																
Fed. Hous. Adm.: Face amount.....mil. \$.....	6,362.12	8,840.84	543.88	811.39	785.78	963.10	714.60	868.92	805.68	886.60	1,049.48	867.76	1,916.27	905.02	565.36	1,420.67
Vet. Adm.: Face amount.....do.....	10,414.77	13,753.02	1,216.71	1,586.68	1,411.86	1,344.91	988.96	1,180.30	1,108.57	1,178.68	1,319.00	1,536.24	1,178.75	1,115.62	1,176.51	1,418.91
Federal Home Loan Banks, outstanding advances to member institutions, end of period.....mil. \$.....	15,862	20,173	20,173	20,422	20,845	21,278	22,957	23,664	25,274	26,605	27,869	29,158	30,104	30,975	32,670	32,489
New mortgage loans of all savings and loan associations, estimated total.....mil. \$.....	78,776	107,368	9,233	7,115	6,828	9,418	9,026	10,436	11,472	9,031	10,398	9,305	9,674	9,165	8,295	
By purpose of loan:																
Home construction.....do.....	14,812	20,717	1,752	1,380	1,364	2,113	2,011	2,259	2,266	1,811	1,981	1,807	2,017	1,794	1,628	
Home purchase.....do.....	48,245	66,060	5,448	4,212	4,022	5,501	5,260	6,423	7,358	5,756	6,830	6,049	6,077	5,775	5,078	
All other purposes.....do.....	15,719	20,591	2,033	1,523	1,442	1,804	1,755	1,754	1,848	1,464	1,587	1,449	1,580	1,596	1,589	
Foreclosures.....number.....																
Fire losses (on bldgs., contents, etc.).....mil. \$.....	3,558	3,764	322	310	379	385	370	311	355	351	320	295	302	311		

DOMESTIC TRADE

ADVERTISING																
McCann-Erickson national advertising index, seasonally adjusted:																
Combined index.....1967=100.....	180	207	217	226	215	218	234	238	247	244	257	248	252	257	258	
Network TV.....do.....	191	231	237	247	234	235	261	271	274	267	288	286	291	285	291	
Spot TV.....do.....	215	223	238	267	250	260	257	269	281	277	265	259	284	287	280	
Magazines.....do.....	143	172	193	182	188	191	196	197	216	212	228	224	204	221	227	
Newspapers.....do.....	175	197	193	211	212	180	218	207	208	212	236	205	217	228	219	
Magazine advertising (general and natl. farm magazines):																
Cost, total.....mil. \$.....	1,626.7	1,965.4	177.6	130.3	160.2	193.5	212.7	231.0	189.7	162.9	146.9	215.9	259.5	263.5	207.8	
Apparel and accessories.....do.....	57.8	69.6	5.9	3.8	3.7	7.6	9.2	8.7	5.1	3.5	6.0	11.8	10.8	9.5	6.4	
Automotive, incl. accessories.....do.....	142.3	176.6	13.7	12.1	17.5	19.5	20.9	22.8	19.5	17.8	13.8	12.4	29.2	26.1	16.1	
Building materials.....do.....	28.1	36.2	2.2	1.8	2.1	4.1	6.0	6.1	3.9	2.1	2.4	5.1	5.6	4.4	2.7	
Drugs and toiletries.....do.....	167.4	201.8	17.5	12.3	16.1	17.7	19.8	22.0	19.7	13.7	13.9	19.8	23.1	21.6	19.8	
Foods, soft drinks, confectionery.....do.....	120.7	150.5	13.3	8.8	13.5	18.0	15.7	14.3	14.9	14.3	13.4	16.3	18.5	24.6	16.4	
Beer, wine, liquors.....do.....	111.0	132.3	22.5	7.2	10.3	13.0	12.9	16.5	17.5	18.6	11.3	13.8	20.0	22.8	29.3	
Household equip., supplies, furnishings.....do.....	83.4	112.8	8.9	6.7	8.7	13.2	14.7	18.1	11.3	9.5	9.8	13.9	15.7	18.1	9.0	
Industrial materials.....do.....	47.0	49.5	3.7	4.0	3.8	4.8	4.8	6.9	4.5	3.3	3.9	5.5	6.3	5.8	4.8	
Soaps, cleansers, etc.....do.....	25.0	33.9	2.5	2.1	3.0	4.3	3.7	3.2	2.5	2.8	3.3	2.9	4.0	4.0	3.0	
Smoking materials.....do.....	161.8	194.5	17.5	14.7	16.1	16.0	17.2	18.4	18.1	18.0	16.3	16.0	19.0	18.2	16.7	
All other.....do.....	682.0	807.7	69.9	56.8	65.4	75.2	87.9	94.0	72.7	59.5	53.3	99.9	108.4	108.5	83.4	
Newspaper advertising expenditures (64 cities): \oplus																
Total.....mil. \$.....	5,352.0	5,996.7	524.8	488.2	458.5	555.6	621.0	600.8	578.2	523.2	488.7	497.9	578.1	663.6		
Automotive.....do.....	127.0	154.5	8.3	11.1	13.7	15.5	14.4	13.7	12.9	10.9	10.8	11.4	12.8	14.5		
Classified.....do.....	1,341.8	1,569.6	105.9	142.0	129.7	152.8	177.5	165.5	165.8	172.9	162.7	158.0	174.0	155.0		
Financial.....do.....	147.6	160.8	14.6	18.4	11.3	16.2	19.8	19.2	23.3	17.1	8.6	11.8	16.2	19.9		
General.....do.....	731.0	803.6	56.1	67.7	64.4	69.6	84.4	80.7	73.9	50.9	47.4	59.8	72.9	91.2		
Retail.....do.....	3,004.6	3,308.0	340.1	249.0	239.4	301.4	324.8	321.6	302.3	271.3	259.2	257.0	302.2	382.9		
WHOLESALE TRADE \ominus																
Merchant wholesalers sales (unadj.), total \ominus mil. \$.....	580,894	642,104	56,244	52,143	52,766	62,900	60,613	66,249	65,834	60,651	67,702	63,931	69,086	67,699	64,821	
Durable goods establishments.....do.....	246,732	285,905	24,797	22,869	23,886	28,985	28,784	30,405	30,991	28,701	32,279	30,404	32,242	31,037	29,569	
Nondurable goods establishments.....do.....	334,162	356,498	31,427	29,274	28,886	33,915	31,829	35,844	34,843	31,950	35,423	33,527	36,844	36,662	35,252	
Merchant wholesalers inventories, book value, end of year or month (unadj.), total \ominus mil. \$.....	62,056	68,555	68,555	69,596	71,156	73,931	74,635	74,634	74,882	74,874	74,943	76,074	78,715	80,100	80,971	
Durable goods establishments.....do.....	37,628	43,676	43,676	44,287	45,757	47,275	47,957	48,918	49,627	49,900	49,841	49,944	50,462	50,971	51,713	
Nondurable goods establishments.....do.....	24,429	24,879	24,879	25,309	25,399	26,656	26,678	25,716	25,255	24,974	25,102	26,130	28,253	29,129	29,258	

\ddagger Revised. $\text{\textcircled{P}}$ Preliminary. $\text{\textcircled{1}}$ Index as of Feb. 1, 1979: Building, 257.6; construction, 267.9. $\text{\textcircled{Q}}$ Includes data for items not shown separately. $\text{\textcircled{S}}$ Data include guaranteed direct loans sold. $\text{\textcircled{T}}$ Home mortgage rates (conventional 1st mortgages) are under money and interest rates on p. S-18.

$\text{\textcircled{U}}$ Source: Media Records, Inc. 64-City Newspaper Advertising Trend Chart. $\text{\textcircled{V}}$ Monthly revisions back to Jan. 1974 will be shown later.

$\text{\textcircled{W}}$ Beginning Nov. 1977 SURVEY, data revised to reflect new sample design, benchmarking to the 1967 and 1972 Censuses, conversion of the classifications to the 1972 SIC, addition of farm assemblers and bulk petroleum establishments, and revision and updating of seasonal factors. Revisions back to Jan. 1967, as well as a summary of the changes, appear in the report, Monthly Wholesale Trade: January 1967-August 1977 (Revised) available from the Census Bureau, Washington, D.C. 20233. The revisions back to 1967 also appear on p. 34f of the May 1978 SURVEY.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS

	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
DOMESTIC TRADE—Continued																
RETAIL TRADE																
All retail stores: †																
Estimated sales (unadj.), total †..... mil. \$.	642,507	708,344	74,219	52,127	52,479	63,334	62,391	66,368	67,475	65,076	67,539	64,754	67,063	69,642	82,315	61,335
↳ Durable goods stores †																
Building materials, hardware, garden supply, and mobile home dealers †..... mil. \$.	210,530	238,815	21,228	16,295	17,230	21,863	22,227	24,059	24,656	22,975	23,899	21,658	23,621	23,426	24,526	20,204
Building materials and supply stores..... do.	32,226	37,958	2,963	2,304	2,419	3,116	3,592	4,027	4,186	4,012	4,247	3,982	4,163	3,863	3,487	2,832
Hardware stores..... do.	22,206	26,706	1,928	1,928	1,664	2,139	2,409	2,681	2,927	2,870	3,110	2,890	3,015	2,727	2,277	1,832
Automotive dealers †..... do.	5,659	6,431	648	389	387	503	570	624	629	584	581	599	623	630	747	-----
Motor vehicle dealers..... do.	125,685	143,682	10,927	9,976	10,710	14,008	13,832	14,831	15,133	13,764	14,092	12,262	13,882	13,118	11,983	12,131
Auto and home supply stores..... do.	115,596	131,418	9,812	9,071	9,872	12,940	12,715	13,698	13,913	12,593	12,869	11,074	12,634	11,865	9,696	-----
Furniture, home furn., and equip..... do.	10,089	12,264	1,115	905	838	1,068	1,117	1,133	1,220	1,171	1,223	1,188	1,248	1,253	1,239	-----
Furniture, home furnishings stores..... do.	31,368	34,499	3,815	2,494	2,523	2,882	2,887	3,059	3,091	3,009	3,210	3,120	3,212	3,542	4,171	2,902
Household appliance, radio, TV..... do.	18,665	20,843	2,085	1,515	1,541	1,761	1,830	1,938	1,946	1,860	2,005	1,900	1,975	2,197	2,292	-----
↳ Nondurable goods stores..... do.	9,784	10,654	1,328	751	732	845	800	865	888	879	926	926	939	1,028	1,327	-----
General merch. group stores..... do.	431,977	469,529	52,991	35,832	35,249	41,471	40,164	42,309	42,473	42,101	43,640	43,096	43,442	46,216	57,789	41,131
Department stores..... do.	79,258	89,231	14,572	5,368	5,488	7,317	7,420	7,960	8,049	7,443	8,107	7,967	8,200	9,805	15,635	6,117
Variety stores..... do.	62,900	71,583	11,817	4,325	4,404	5,867	5,987	6,401	6,492	5,937	6,490	6,438	6,579	7,871	12,541	4,904
Food stores..... do.	7,598	7,958	1,308	450	482	643	613	662	660	637	683	637	664	750	1,337	-----
Grocery stores..... do.	145,939	156,313	14,894	12,880	12,617	14,333	13,675	14,328	14,732	14,806	14,653	14,737	14,211	14,624	16,477	14,769
Gasoline service stations..... do.	136,100	145,900	13,787	12,043	11,796	13,374	12,759	13,347	13,737	13,829	13,670	13,780	13,188	13,585	15,166	13,650
Apparel and accessory stores..... do.	51,265	56,538	4,918	4,537	4,313	4,804	4,787	5,049	5,147	5,173	5,275	5,083	5,155	5,089	5,151	4,976
Men's and boys' clothing..... do.	33,188	33,527	4,899	2,217	2,080	2,847	2,729	2,817	2,804	2,674	3,098	3,136	3,168	3,554	5,509	2,753
Women's clothing, spec. stores, furriers..... do.	6,683	6,694	1,088	458	402	509	511	517	537	485	529	527	568	728	1,198	-----
Shoe stores..... do.	12,702	12,814	1,847	829	814	1,116	1,063	1,096	1,079	1,071	1,221	1,279	1,285	1,360	2,089	-----
Eating and drinking places..... do.	5,575	5,832	720	413	364	555	514	515	553	547	642	579	563	601	801	-----
Drug and proprietary stores..... do.	58,008	63,891	5,491	4,857	4,761	5,610	5,750	6,055	6,251	6,426	6,558	6,166	6,039	5,808	6,130	5,572
Liquor stores..... do.	20,716	22,380	2,685	1,820	1,793	2,010	1,883	2,000	2,009	1,957	2,048	1,982	2,045	2,101	2,947	2,061
Mail-order houses (dept. store mdse.) §..... do.	12,734	13,084	1,583	945	928	1,044	1,087	1,092	1,145	1,188	1,168	1,154	1,130	1,203	1,679	-----
Estimated sales (seas. adj.), total †..... do.	6,099	6,751	702	440	437	598	543	537	500	502	592	555	781	908	734	-----
↳ Durable goods stores †																
Building materials, hardware, garden supply, and mobile home dealers †..... mil. \$.			20,674	19,914	20,445	20,897	21,807	21,821	22,092	21,844	22,908	22,812	23,599	23,883	24,066	23,848
Building materials and supply stores..... do.			3,149	3,224	3,382	3,341	3,559	3,518	3,619	3,641	3,801	3,772	3,923	3,891	3,803	3,822
Hardware stores..... do.			2,224	2,096	2,181	2,247	2,473	2,446	2,543	2,560	2,688	2,673	2,728	2,681	2,740	2,728
Automotive dealers..... do.			513	529	520	542	556	557	568	553	573	590	625	610	621	-----
Motor vehicle dealers..... do.			12,393	12,095	12,160	12,642	13,135	13,069	13,232	12,774	13,600	13,395	13,954	13,894	13,989	14,057
Auto and home supply stores..... do.			11,343	10,982	11,105	11,564	12,064	12,005	12,151	11,704	12,434	12,156	12,710	12,676	12,760	-----
Furniture, home furn., and equip. †..... do.			1,050	1,113	1,055	1,078	1,071	1,064	1,081	1,070	1,166	1,239	1,244	1,218	1,229	-----
Furniture, home furnishings stores..... do.			3,008	2,773	2,921	2,887	3,055	3,101	3,039	3,059	3,171	3,220	3,215	3,293	3,222	3,217
Household appliance, radio, TV..... do.			1,807	1,704	1,761	1,737	1,900	1,915	1,873	1,883	1,932	1,987	1,950	2,012	2,045	-----
↳ Nondurable goods stores..... do.			41,139	40,073	41,103	41,752	42,110	42,471	42,473	42,499	42,954	43,535	43,790	44,689	45,377	45,846
General merch. group stores..... do.			8,276	7,432	7,763	7,866	8,026	8,160	8,215	8,141	8,204	8,277	8,251	8,507	8,827	8,579
Department stores..... do.			6,646	6,066	6,309	6,336	6,425	6,538	6,618	6,531	6,596	6,644	6,592	6,768	7,018	6,946
Variety stores..... do.			696	628	660	659	694	695	685	709	687	680	687	699	686	-----
Food stores..... do.			13,406	13,636	13,906	13,900	14,218	14,342	14,263	14,381	14,383	14,511	14,743	14,863	15,180	15,423
Grocery stores..... do.			12,410	12,704	12,977	12,947	13,291	13,374	13,324	13,452	13,441	13,523	13,737	13,792	13,991	14,174
Gasoline service stations..... do.			4,898	4,796	4,952	4,983	4,900	4,916	4,930	4,803	4,907	5,028	5,064	5,193	5,100	5,271
Apparel and accessory stores..... do.			2,875	2,723	2,755	2,885	3,009	2,953	2,924	2,986	3,147	3,164	3,139	3,336	3,291	3,341
Men's and boys' clothing..... do.			568	533	537	549	573	548	522	552	585	586	596	683	633	-----
Women's clothing, spec. stores, furriers..... do.			1,123	1,017	1,054	1,148	1,184	1,133	1,127	1,193	1,255	1,268	1,215	1,269	1,300	-----
Shoe stores..... do.			515	502	485	509	539	534	536	501	532	527	562	581	576	-----
Eating and drinking places..... do.			5,469	5,415	5,510	5,772	5,808	5,783	5,853	5,917	6,000	6,081	6,051	6,000	6,167	6,205
Drug and proprietary stores..... do.			2,008	1,944	1,957	1,992	1,999	1,996	1,999	2,018	2,094	2,084	2,110	2,162	2,201	2,197
Liquor stores..... do.			1,089	1,104	1,101	1,106	1,064	1,117	1,138	1,137	1,163	1,200	1,170	1,188	1,192	-----
Mail-order houses (dept. store mdse.) §..... do.			580	609	550	574	598	590	597	607	575	594	591	602	628	-----
Estimated inventories, end of year or month: †																
Book value (unadjusted), total †..... mil. \$.	76,115	85,148	85,148	85,092	86,333	89,825	90,953	91,514	91,502	91,326	91,363	93,447	97,645	100,723	93,797	-----
Durable goods stores †																
Building materials and supply stores..... do.	35,895	40,372	40,372	40,927	41,662	42,670	43,029	43,281	42,804	42,137	40,464	40,904	42,589	44,490	44,038	-----
Automotive dealers..... do.	6,083	6,659	6,659	6,875	7,180	7,352	7,480	7,479	7,516	7,439	7,344	7,356	7,321	7,390	7,209	-----
Furniture, home furn., and equip..... do.	18,031	20,296	20,296	20,665	20,917	21,424	21,398	21,381	20,959	20,295	18,395	18,525	19,705	21,141	22,243	-----
Nondurable goods stores †	6,070	7,197	7,197	7,116	7,157	7,304	7,504	7,519	7,493	7,507	7,629	7,702	7,935	8,023	7,685	-----
General merch. group stores..... do.	40,220	44,776	44,776	44,165	44,671	47,155	47,924	48,233	48,698	49,189	50,899	52,543	55,056	56,233	49,759	-----
Department stores..... do.	13,660	16,571	16,571	16,502	16,911	18,561	19,351	19,599	19,777	20,115	21,133	22,233	23,731	24,310	19,316	-----
Food stores..... do.	10,061	12,215	12,215	12,136	12,266	13,662	14,283	14,465	14,555	14,516	15,147	15,961	17,157	17,742	14,213	-----
Apparel and accessory stores..... do.	8,880	9,198	9,198	8,948	8,963	9,280	9,233	9,379	9,564	9,541	9,616	9,712	10,085	10,379	10,074	-----
Book value (seas. adj.), total †..... do.	6,693	7,282	7,282	6,982	7,172	7,366	7,503	7,486	7,471	7,671	8,003	8,370	8,654	8,847		

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977												1979
	Annual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
DOMESTIC TRADE—Continued															
RETAIL TRADE†—Continued															
Firms with 11 or more stores:															
Estimated sales (unadjusted), total†.....mil. \$	(1)	30,601	17,556	17,477	21,496	20,944	22,073	22,380	21,611	22,570	22,548	* 22,848	25,195		
Durable goods stores.....do	(1)	2,207	1,162	1,194	1,508	1,607	1,743	1,788	1,724	1,782	1,733	* 1,793	1,948		
Auto and home supply stores.....do	(1)	274	204	190	262	294	266	287	267	275	272	* 284	285		
Nondurable goods stores ♀	(1)	28,394	16,394	16,283	19,988	19,337	20,330	20,592	19,887	20,788	20,815	* 21,055	23,247		
General merchandise group stores.....do	(1)	13,149	4,764	4,875	6,511	6,607	7,096	7,184	6,604	7,224	7,111	* 7,307	8,796		
Department stores.....do	(1)	11,165	4,109	4,183	5,565	5,686	6,082	6,176	5,649	6,176	6,111	* 6,232	7,428		
Variety stores.....do	(1)	1,043	329	359	493	459	496	500	481	521	497	* 513	597		
Miscellaneous general stores.....do	(1)	941	326	333	453	462	518	508	474	527	503	* 562	771		
Food stores.....do	(1)	8,161	7,022	6,877	7,876	7,406	7,649	7,878	7,873	7,883	7,985	* 7,574	7,910		
Grocery stores.....do	(1)	8,046	6,939	6,792	7,776	7,325	7,567	7,798	7,790	7,602	7,907	* 7,494	7,827		
Apparel and accessory stores ♀	(1)	1,788	698	673	1,032	968	1,017	1,007	931	1,162	1,166	* 1,149	1,282		
Women's clothing, specialty stores, furriers.....mil. \$	(1)	747	276	287	432	404	432	422	406	489	494	* 493	539		
Family clothing stores.....do	(1)	467	163	158	226	224	241	233	222	273	254	* 249	294		
Shoe stores.....do	(1)	366	183	163	279	243	247	242	212	280	296	* 278	296		
Eating places.....do	(1)	1,050	932	921	1,122	1,130	1,203	1,198	1,236	1,238	1,171	* 1,212	1,178		
Drug stores and proprietary stores.....do	(1)	1,440	862	825	974	894	950	970	936	978	940	* 974	1,035		
Estimated sales (seas. adj.), total ♀	(1)	21,917	20,703	21,264	21,476	22,249	22,222	22,243	22,761	22,432	22,690	* 22,842	23,611		
Auto and home supply stores.....do	(1)	256	255	252	251	268	245	246	256	258	285	* 277	277		
Department stores.....do	(1)	6,290	5,723	5,993	5,984	6,140	6,187	6,232	6,249	6,283	6,300	* 6,226	6,387		
Variety stores.....do	(1)	555	480	489	498	517	524	519	540	538	531	* 534	550		
Grocery stores.....do	(1)	7,178	7,213	7,488	7,484	7,760	7,674	7,668	7,853	7,527	7,714	* 7,663	7,827		
Apparel and accessory stores.....do	(1)	1,023	925	988	1,020	1,077	1,089	1,058	1,111	1,138	1,117	* 1,131	1,195		
Women's clothing, spec. stores, furriers.....do	(1)	418	373	423	439	464	461	446	474	477	460	* 472	503		
Shoe stores.....do	(1)	243	233	229	253	265	274	263	259	254	266	* 278	288		
Drug stores and proprietary stores.....do	(1)	952	980	934	971	974	962	975	994	976	985	* 1,016	1,099		
All retail stores, accts. receivable, end of yr. or mo.:															
Total (unadjusted).....mil. \$	32,153	34,149	34,149	32,454	31,692	31,650	31,599	31,915	32,212	32,147	32,534	32,879	* 33,680	34,701	
Durable goods stores.....do	9,515	10,089	10,089	9,445	9,369	9,531	9,817	9,963	10,203	10,375	10,490	10,501	* 10,884	10,979	
Nondurable goods stores.....do	22,638	24,060	24,060	23,009	22,323	22,119	21,782	21,952	22,009	21,772	22,044	22,378	* 22,796	23,722	
Charge accounts.....do	12,889	10,659	10,659	9,928	9,823	10,011	10,029	10,171	10,399	10,319	10,513	10,589	* 10,973	11,175	
Installment accounts.....do	19,264	23,490	23,490	22,526	21,869	21,639	21,570	21,744	21,813	21,828	22,021	22,290	* 22,707	23,526	
Total (seasonally adjusted).....do	30,323	32,018	32,018	31,966	32,020	32,275	32,030	31,950	32,362	32,807	33,101	33,262	* 33,906	34,504	
Durable goods stores.....do	9,481	10,019	10,019	9,790	9,838	9,919	10,010	9,880	9,933	10,195	10,312	10,204	* 10,608	10,922	
Nondurable goods stores.....do	20,842	21,999	21,999	22,176	22,182	22,356	22,020	22,070	22,429	22,612	22,789	23,058	* 23,298	23,582	
Charge accounts.....do	12,591	10,490	10,490	10,281	10,346	10,371	10,077	9,820	10,097	10,381	10,749	10,685	* 10,891	11,166	
Installment accounts.....do	17,732	21,528	21,528	21,685	21,674	21,904	21,953	22,130	22,265	22,426	22,352	22,577	* 23,015	23,338	

LABOR FORCE, EMPLOYMENT, AND EARNINGS

POPULATION OF THE UNITED STATES	215.14	216.82	217.61	217.74	217.84	217.94	218.09	218.22	218.36	218.50	218.67	218.86	219.03	219.19	219.34	219.48
Total, incl. armed forces overseas†.....mil.																
LABOR FORCE‡																
Not Seasonally Adjusted																
Labor force, total (including armed forces), persons 16 years of age and over.....thous.	96,917	99,534	100,832	100,071	100,048	100,565	100,984	101,422	104,276	104,755	104,169	102,961	103,677	103,776	103,740	102,961
Civilian labor force.....do	94,773	97,401	98,503	97,950	97,924	98,443	98,866	99,309	102,178	102,639	102,047	100,838	101,555	101,659	101,632	100,867
Employed, total.....do	87,485	90,546	92,623	91,053	91,185	91,564	93,180	93,851	95,852	96,202	96,116	95,041	96,095	96,029	95,906	94,436
Agriculture.....do	3,297	3,244	2,914	2,868	2,771	3,151	3,369	3,983	3,997	3,856	3,549	3,553	3,553	3,100	2,990	2,762
Nonagricultural industries.....do	84,188	87,302	89,710	88,185	88,413	89,051	90,029	90,483	91,869	92,204	92,261	91,492	92,541	92,929	92,916	91,673
Unemployed.....do	7,288	6,855	5,880	6,897	6,739	6,479	5,685	5,457	6,326	6,438	5,931	5,797	5,460	5,629	5,725	6,431
Seasonally Adjusted‡																
Civilian labor force.....do			98,919	99,107	99,093	99,414	99,784	100,261	100,573	100,618	100,549	100,870	101,062	101,647	101,867	102,183
Employed, total.....do			92,609	92,881	93,003	93,266	93,801	94,112	94,819	94,425	94,581	94,868	95,192	95,735	95,855	96,300
Agriculture.....do			3,323	3,354	3,242	3,310	3,275	3,235	3,473	3,387	3,360	3,411	3,380	3,265	3,387	3,232
Nonagricultural industries.....do			89,286	89,527	89,761	89,956	90,526	90,877	91,346	91,038	91,221	91,457	91,811	92,470	92,468	93,068
Unemployed.....do			6,310	6,226	6,090	6,148	5,983	6,149	5,754	6,193	5,968	6,002	5,870	5,912	6,012	5,883
Long-term, 15 weeks and over.....do	2,339	1,911	1,797	1,688	1,568	1,463	1,384	1,358	1,231	1,292	1,215	1,293	1,370	1,251	1,208	1,251
Rates (unemployed in each group as percent of total in the group):																
All civilian workers.....do	7.7	7.0	6.4	6.3	6.1	6.2	6.0	6.1	5.7	6.2	5.9	6.0	5.8	5.8	5.9	5.8
Men, 20 years and over.....do	5.9	5.2	4.6	4.7	4.5	4.5	4.2	4.2	3.9	4.1	4.1	4.0	4.0	4.0	4.1	4.0
Women, 20 years and over.....do	7.4	7.0	6.6	6.1	5.7	5.8	5.8	6.3	6.1	6.5	6.1	6.0	5.6	5.8	5.8	5.7
Both sexes, 16-19 years.....do	19.0	17.7	15.6	16.0	17.4	17.3	16.9	16.5	14.2	16.3	15.6	16.6	16.3	16.2	16.5	15.7
White.....do	7.0	6.2	5.5	5.5	5.3	5.3	5.2	5.2	4.9	5.3	5.2	5.3	5.1	5.0	5.2	5.1
Black and other.....do	13.1	13.1	12.7	12.7	11.8	12.4	11.8	12.3	11.9	12.5	11.7	11.2	11.4	11.8	11.5	11.2
Married men, wife present.....do	4.2	3.6	3.2	2.9	2.9	3.0	2.8	2.9	2.7	2.7	2.7	2.7	2.7	2.5	2.5	2.6
Occupation: White-collar workers.....do	4.6	4.3	4.0	3.6	3.5	3.4	3.5	3.6	3.5	3.8	3.5	3.5	3.3	3.3	3.5	3.3
Blue-collar workers.....do	9.4	8.1	7.2	7.1	7.1	7.1	6.5	6.6	6.5	6.9	7.0	7.0	6.9	6.6	6.8	6.4
Industry of last job (nonagricultural):																
Private wage and salary workers.....do	7.9	7.0	6.3	6.2	6.1	6.0	5.9	5.9	5.6	6.0	5.9	5.9	5.7	5.7	5.8	5.7
Construction.....do	15.6	12.7	10.8	11.7	11.5	11.3	9.5	9.2	9.3	9.5	9.1	10.7	11.5	10.6	12.1	10.6
Manufacturing.....do	7.9	6.7	5.7	5.6	5.7	5.4	5.3	5.6	5.6	5.6	5.7	5.5	5.3	5.3	5.0	5.0
Durable goods.....do	7.7	6.2	5.6	5.2	5.0	4.8	4.4	5.0	4.8	5.1	5.5	5.0	4.8	4.8	4.4	4.4

† Revised. ‡ See note "¶" on p. S-12: revised data for periods prior to May 1977 are not available. § As of July 1.
 ¶ See note "¶" on p. S-12. ¶ Includes data for items not shown separately.
 † Revisions back to Oct. 1973 appear in "Population Estimates and Projections: Estimates of the Population of the United States and Components of Change—1980-75," P-25, No. 632 (July 1976), Bureau of the Census.

¶ Effective with the Feb. 1977 SURVEY, the labor force series reflect new seasonal factors. Data have been revised back to 1972; comparable monthly figures for 1972-75 appear in EMPLOYMENT AND EARNINGS (Feb. 1977), U.S. Department of Labor, Bureau of Labor Statistics.
 * Data beginning Dec. 1978 for the civilian labor force, seasonally adjusted, series are not comparable with those shown for earlier periods. Comparable/revised data for earlier periods will be available at a later date.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. †	Jan. †

LABOR FORCE, EMPLOYMENT, AND EARNINGS—Continued

EMPLOYMENT†‡																	
Employees on payrolls of nonagricultural estab.:‡																	
Total, not adjusted for seasonal variation... thous.	79,382	82,256	84,464	82,724	82,962	83,897	85,075	85,796	86,800	85,925	86,134	86,688	87,303	87,800	88,020	86,339	
Private sector (excl. government)..... do.	64,511	67,177	68,982	67,372	67,363	68,171	69,309	69,988	71,109	70,996	71,375	71,556	71,745	72,097	72,326	70,809	
Seasonally Adjusted†																	
Total employees, nonagricultural payrolls†‡	79,392	82,256	83,719	83,871	84,188	84,726	85,418	85,618	85,996	86,033	86,149	86,163	86,573	87,036	87,248	87,573	
Private sector (excl. government)..... do.	64,511	67,177	68,451	68,557	68,838	69,291	69,901	70,056	70,399	70,476	70,613	70,718	71,130	71,559	71,770	72,082	
Nonmanufacturing industries..... do.	45,514	47,530	48,467	48,492	48,699	49,061	49,619	49,759	50,083	50,174	50,335	50,432	50,694	50,958	51,047	51,292	
Goods-producing..... do.	23,352	24,289	24,626	24,648	24,724	24,927	25,313	25,341	25,473	25,501	25,463	25,471	25,670	25,872	26,023	26,112	
Mining..... do.	779	809	687	678	684	698	867	869	879	882	887	887	893	903	905	909	
Contract construction..... do.	3,576	3,833	3,955	3,905	3,901	3,999	4,164	4,175	4,278	4,317	4,298	4,298	4,341	4,368	4,395	4,413	
Manufacturing..... do.	18,997	19,647	19,984	20,065	20,139	20,230	20,282	20,297	20,316	20,302	20,278	20,286	20,436	20,601	20,723	20,790	
Durable goods..... do.	11,077	11,573	11,851	11,917	11,986	12,041	12,076	12,093	12,109	12,138	12,146	12,166	12,305	12,459	12,528	12,528	
Lumber and wood products..... do.	680	722	756	754	756	752	751	745	747	743	743	744	748	749	763	764	
Furniture and fixtures..... do.	444	463	481	484	487	491	491	489	486	485	481	480	484	487	491	494	
Stone, clay and glass products..... do.	644	668	685	689	691	692	699	700	701	698	692	692	696	701	707	704	
Primary metal industries..... do.	1,155	1,179	1,180	1,186	1,193	1,189	1,192	1,197	1,197	1,199	1,205	1,214	1,220	1,235	1,241	1,239	
Fabricated metal productsⓄ..... do.	1,511	1,577	1,617	1,625	1,638	1,639	1,646	1,652	1,645	1,643	1,646	1,650	1,667	1,684	1,699	1,705	
Machinery, except electrical..... do.	2,065	2,179	2,251	2,259	2,271	2,289	2,309	2,311	2,332	2,345	2,351	2,358	2,391	2,404	2,427	2,440	
Electrical equipment and supplies..... do.	1,774	1,868	1,912	1,923	1,935	1,951	1,951	1,952	1,962	1,977	1,975	1,972	1,987	2,001	2,008	2,018	
Transportation equipmentⓄ..... do.	1,799	1,862	1,895	1,917	1,928	1,944	1,944	1,936	1,942	1,929	1,937	1,941	1,943	1,991	2,010	2,023	
Instruments and related prod.Ⓞ..... do.	575	615	628	632	635	639	644	649	654	660	661	662	665	671	675	680	
Miscellaneous manufacturing..... do.	429	439	446	448	452	455	457	456	456	451	451	451	456	458	456	460	
Nondurable goods..... do.	7,920	8,074	8,133	8,148	8,153	8,189	8,206	8,204	8,207	8,164	8,132	8,120	8,131	8,191	8,223	8,262	
Food and kindred products..... do.	1,689	1,703	1,700	1,706	1,705	1,718	1,715	1,701	1,702	1,688	1,670	1,665	1,667	1,693	1,710	1,722	
Tobacco manufactures..... do.	77	74	74	74	74	76	76	75	76	76	69	70	71	71	72	71	
Textile mill products..... do.	919	914	917	917	917	916	911	913	908	909	903	907	907	910	910	908	
Apparel and other textile products..... do.	1,318	1,312	1,320	1,318	1,315	1,319	1,330	1,326	1,325	1,307	1,309	1,309	1,307	1,307	1,313	1,319	
Paper and allied products..... do.	676	693	697	699	699	703	706	709	709	710	698	697	692	700	701	706	
Printing and publishing..... do.	1,099	1,338	1,156	1,159	1,163	1,171	1,174	1,180	1,186	1,187	1,188	1,178	1,185	1,198	1,205	1,212	
Chemicals and allied products..... do.	1,042	1,071	1,076	1,079	1,081	1,081	1,085	1,093	1,091	1,091	1,089	1,088	1,089	1,093	1,096	1,099	
Petroleum and coal products..... do.	198	202	206	207	208	209	210	207	209	207	209	209	210	210	211	209	
Rubber and plastics products, nec..... do.	640	712	734	737	738	744	748	747	749	749	746	744	752	761	769	772	
Leather and leather products..... do.	263	253	253	252	253	252	253	253	252	253	251	253	251	248	246	243	
Service-producing..... do.	56,030	57,968	59,093	59,223	59,464	59,799	60,105	60,277	60,523	60,522	60,686	60,692	60,903	61,164	61,225	61,461	
Trans., comm., electric, gas, etc..... do.	4,582	4,696	4,749	4,758	4,782	4,817	4,847	4,847	4,881	4,827	4,846	4,855	4,922	4,947	4,963	4,978	
Wholesale and retail trade..... do.	17,755	18,492	18,911	18,991	19,071	19,169	19,252	19,335	19,412	19,469	19,523	19,546	19,632	19,701	19,800	19,826	
Wholesale trade..... do.	4,546	4,677	4,783	4,802	4,828	4,854	4,872	4,885	4,905	4,901	4,905	4,917	4,945	4,968	4,989	5,003	
Retail trade..... do.	13,209	13,795	14,128	14,189	14,243	14,315	14,380	14,450	14,507	14,568	14,618	14,629	14,687	14,733	14,811	14,823	
Finance, insurance, and real estate..... do.	4,271	4,452	4,547	4,563	4,591	4,605	4,623	4,637	4,670	4,670	4,707	4,719	4,737	4,774	4,792	4,816	
Services..... do.	14,551	15,249	15,618	15,597	15,670	15,773	15,866	15,896	15,963	15,989	16,074	16,127	16,169	16,270	16,312	16,350	
Government..... do.	14,871	15,079	15,268	15,314	15,350	15,435	15,517	15,562	15,597	15,557	15,536	15,445	15,443	15,472	15,478	15,491	
Federal..... do.	2,733	2,727	2,723	2,736	2,736	2,739	2,745	2,753	2,772	2,765	2,752	2,752	2,760	2,757	2,734	2,742	
State and local..... do.	12,138	12,352	12,545	12,578	12,614	12,696	12,772	12,809	12,825	12,792	12,771	12,693	12,683	12,715	12,744	12,749	
Production of nonsupervisory workers on private nonagric. payrolls, not seas. adjustedⓄ... thous.	52,897	55,040	56,612	55,028	54,984	55,716	56,761	57,358	58,289	58,120	58,437	58,637	58,771	59,063	59,295	57,758	
Manufacturing..... do.	13,638	14,110	14,378	14,237	14,250	14,355	14,444	14,534	14,737	14,476	14,532	14,877	14,878	14,803	14,910	14,986	
Seasonally Adjusted†																	
Production of nonsupervisory workers on private nonagricultural payrolls†... thous.	52,897	55,040	56,095	56,114	56,348	56,744	57,263	57,428	57,653	57,704	57,771	57,861	58,151	58,576	58,748	58,927	
Goods-producing..... do.	17,044	17,729	17,976	17,954	18,016	18,198	18,541	18,565	18,660	18,675	18,619	18,629	18,795	18,974	19,104	19,159	
Mining..... do.	592	615	502	493	494	509	655	659	663	667	668	671	675	683	684	687	
Contract construction..... do.	2,814	3,004	3,099	3,021	3,023	3,122	3,288	3,303	3,401	3,439	3,419	3,422	3,465	3,488	3,510	3,486	
Manufacturing..... do.	13,638	14,110	14,375	14,440	14,499	14,567	14,598	14,603	14,596	14,569	14,532	14,536	14,655	14,803	14,910	14,986	
Durable goods..... do.	7,914	8,291	8,515	8,569	8,620	8,661	8,676	8,685	8,688	8,694	8,693	8,706	8,816	8,909	8,980	9,020	
Lumber and wood products..... do.	576	616	646	650	650	647	646	639	641	637	636	636	641	649	652	653	
Furniture and fixtures..... do.	364	381	397	399	401	405	405	404	400	398	394	395	398	400	403	404	
Stone, clay, and glass products..... do.	514	533	549	553	551	552	558	557	558	554	549	548	551	556	561	561	
Primary metal industries..... do.	904	920	922	929	937	933	934	939	939	942	947	953	960	976	981	982	
Fabricated metal productsⓄ..... do.	1,139	1,194	1,228	1,234	1,247	1,247	1,251	1,257	1,250	1,245	1,245	1,248	1,264	1,280	1,291	1,294	
Machinery, except electrical..... do.	1,340	1,425	1,477	1,483	1,493	1,507	1,517	1,516	1,533	1,547	1,544	1,550	1,576	1,581	1,605	1,614	
Electrical equipment and supplies..... do.	1,160	1,227	1,258	1,267	1,276	1,288	1,284	1,283	1,284	1,293	1,293	1,290	1,301	1,312	1,317	1,328	
Transportation equipmentⓄ..... do.	1,235	1,284	1,312	1,326	1,332	1,342	1,337	1,344	1,327	1,328	1,336	1,337	1,370	1,393	1,408	1,409	
Instruments and related prod.Ⓞ..... do.	353	375	384	386	388	391	394	397	402	407	405	406	408	412	414	421	
Miscellaneous manufacturing..... do.	329	335	342	342	345	349	350	349	349	343	343	343	347	350	348	354	
Nondurable goods..... do.	5,724	5,819	5,860	5,871	5,879	5,906	5,922	5,918	5,913	5,875	5,839	5,830	5,839	5,894	5,930	5,966	
Food and kindred products..... do.	1,145	1,154	1,151	1,156	1,158	1,168	1,167	1,154	1,152	1,142	1,124	1,122	1,122	1,148	1,164	1,183	
Tobacco manufactures..... do.	64	60	59	59	59	60	59	60	61	58	54	56	57	56	57	58	
Textile mill products..... do.	800	795	798	799	798	798	794	795	792	791	785	790	790	795	794	792	
Apparel and other textile products..... do.	1,134	1,126	1,131	1,132	1,131	1,134	1,144	1,140	1,137	1,121	1,127	1,124	1,123	1,123	1,124	1,134	
Paper and allied products..... do.	508	519	523	523	525	527	530	535	535	535	523	522	519	525	528	532	
Printing and publishing..... do.	625	644	653	656	658	663	664	668	668	669	667	657	663	672	678	681	
Chemicals and allied products..... do.	600	615	617	618	620	620	624	628	628	628	623	624	624	627	630	637	
Petroleum and coal products..... do.	128	131	135	136	136	137	137	135	136	135	136	137	137	1			

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec. p	Jan. p

LABOR FORCE, EMPLOYMENT, AND EARNINGS—Continued

AVERAGE HOURS PER WEEK†																
Seasonally Adjusted†																
Avg. weekly hours per worker on private nonagric. payrolls:‡ Seasonally adjusted†..... hours.																
Not seasonally adjusted..... do.....																
Mining..... do.....	36.1	36.0	35.9	35.5	35.7	36.0	36.1	35.9	35.9	35.9	35.8	35.8	35.9	35.8	35.9	35.7
Contract construction..... do.....	42.4	43.4	42.9	42.8	43.2	43.7	44.0	43.4	43.4	43.0	43.6	43.0	43.0	43.3	43.8	43.6
Manufacturing: Not seasonally adjusted..... do.....	36.8	36.5	36.2	34.3	35.6	36.9	37.3	36.6	37.3	37.3	37.1	37.0	36.9	36.8	37.1	43.6
Seasonally adjusted..... do.....	40.1	40.3	41.1	39.2	39.6	40.4	40.4	40.4	40.8	40.3	40.4	40.7	40.6	40.9	41.4	40.0
Overtime hours..... do.....	3.1	3.4	3.6	3.5	3.7	3.7	3.8	3.5	3.6	3.6	3.4	3.6	3.6	3.7	3.8	40.6
Durable goods..... do.....	40.6	41.0	41.2	40.4	40.7	41.3	41.4	41.0	41.2	41.2	41.0	41.1	41.2	41.4	41.5	41.2
Overtime hours..... do.....	3.2	3.7	3.8	3.7	4.0	3.9	4.0	3.7	3.7	3.8	3.6	3.8	3.9	4.0	4.1	4.2
Lumber and wood products..... do.....	39.9	39.8	40.0	39.3	39.6	39.9	40.2	39.5	40.0	39.8	39.3	39.6	40.1	40.1	40.1	39.7
Furniture and fixtures..... do.....	38.8	39.0	39.6	38.4	40.0	40.1	40.1	39.4	39.5	39.3	39.0	38.8	39.0	39.2	39.3	39.2
Stone, clay, and glass products..... do.....	41.1	41.3	41.3	40.0	40.9	41.8	42.0	41.6	41.9	41.7	41.6	41.8	41.8	41.9	42.0	41.2
Primary metal industries..... do.....	40.8	41.3	41.6	41.4	41.6	41.5	41.5	41.7	41.8	41.8	42.0	41.8	42.1	42.3	42.2	41.7
Fabricated metal productsⓄ..... do.....	40.8	41.0	41.2	40.3	40.7	41.3	41.4	41.1	41.0	41.0	40.9	40.9	40.8	41.1	41.4	41.0
Machinery, except electrical..... do.....	41.2	41.5	41.9	41.1	41.8	42.3	42.3	42.1	42.3	42.2	41.8	41.9	42.0	42.2	42.3	42.6
Electrical equipment and supplies..... do.....	40.0	40.4	40.5	39.7	40.0	40.6	40.4	40.2	40.2	40.7	40.4	40.1	40.3	40.4	40.5	40.8
Transportation equipmentⓄ..... do.....	41.7	42.5	41.5	41.6	40.9	42.1	42.4	41.8	42.0	42.1	41.8	42.5	42.6	42.9	42.9	42.0
Instruments and related productsⓄ..... do.....	40.3	40.6	40.5	40.4	40.6	41.3	41.4	40.8	40.8	40.7	41.0	40.9	40.9	40.9	41.0	41.4
Miscellaneous manufacturing ind. do.....	38.8	38.8	38.6	38.0	38.3	39.0	39.1	38.8	38.8	38.8	39.0	39.0	38.8	38.8	38.8	39.4
Nondurable goods..... do.....	39.4	39.4	39.4	38.8	39.1	39.7	39.8	39.5	39.4	39.4	39.3	39.4	39.3	39.3	39.6	39.7
Overtime hours..... do.....	3.0	3.2	3.3	3.2	3.3	3.3	3.4	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.3	3.2
Food and kindred products..... do.....	40.5	40.0	39.9	39.7	39.7	40.0	40.1	39.8	39.6	39.8	39.5	39.9	39.9	40.0	40.0	40.2
Tobacco manufactures..... do.....	37.5	37.9	38.0	37.6	38.3	38.9	38.7	38.7	39.6	38.6	37.7	37.9	36.7	37.4	38.0	38.4
Textile mill products..... do.....	40.1	40.4	40.5	40.3	40.3	40.8	40.9	40.5	40.3	40.2	40.4	40.4	40.3	40.4	40.5	41.3
Apparel and other textile products..... do.....	35.8	35.6	35.9	33.7	35.5	36.0	36.3	35.9	35.8	35.8	35.6	35.7	35.2	35.7	35.7	35.1
Paper and allied products..... do.....	42.5	42.9	42.9	42.5	42.5	43.4	43.5	42.9	42.9	42.9	42.7	42.7	42.6	43.1	42.7	42.9
Printing and publishing..... do.....	37.5	37.7	37.6	37.4	37.4	38.0	37.9	37.3	37.5	37.6	37.4	37.8	37.7	37.9	37.6	37.7
Chemicals and allied products..... do.....	41.6	41.7	41.7	41.6	41.6	42.1	42.0	41.9	41.9	41.8	41.9	41.8	41.9	42.1	41.9	42.0
Petroleum and coal products..... do.....	42.1	42.7	43.4	43.1	42.8	43.3	43.6	42.9	43.4	43.9	44.3	43.8	43.9	44.2	43.7	43.9
Rubber and plastics products, nec. do.....	40.7	41.0	40.6	40.2	39.8	40.7	41.3	41.1	41.1	40.9	40.9	41.0	41.0	41.1	41.3	41.7
Leather and leather products..... do.....	37.4	36.9	37.0	36.5	36.4	37.1	38.1	37.6	37.4	37.2	37.1	37.2	37.1	36.8	36.8	37.6
Trans., comm., elec., gas, etc. do.....	39.8	39.9	40.0	40.0	40.1	40.4	40.0	40.2	40.1	39.6	39.9	40.1	40.1	40.0	40.2	40.3
Wholesale and retail trade..... do.....	33.7	33.3	33.1	32.7	32.7	33.0	33.0	32.9	32.8	32.9	32.8	32.8	32.9	32.8	32.9	32.4
Wholesale trade..... do.....	38.7	38.8	38.8	38.7	38.7	38.9	39.0	38.7	38.8	38.7	38.8	39.0	38.9	38.8	38.9	38.7
Retail trade..... do.....	32.1	31.6	31.4	30.9	30.9	31.2	31.2	31.1	31.0	31.1	30.9	30.9	31.0	30.9	31.0	30.5
Finance, insurance, and real estate. do.....	36.4	36.4	36.4	36.3	36.3	36.3	36.7	36.3	36.5	36.6	36.5	36.6	36.6	36.3	36.3	36.2
Services..... do.....	33.3	33.0	33.0	33.0	32.9	33.0	33.0	32.9	32.8	32.8	32.7	32.8	32.8	32.7	32.6	32.6
AGGREGATE EMPLOYEE-HOURS																
Seasonally Adjusted																
Employee-hours, wage & salary workers in non-agric. establish, for 1 week in the month, seasonally adjusted at annual rate†..... bil. hours.																
Total private sector..... do.....	151.20	156.31	158.66	157.83	159.13	161.30	162.90	162.48	163.31	163.47	162.91	162.93	163.68	165.19	165.53	165.68
Mining..... do.....	1.72	1.83	1.52	1.50	1.53	1.59	1.95	1.96	1.98	1.99	2.03	1.99	2.01	2.06	2.07	2.04
Contract construction..... do.....	6.84	7.28	7.48	7.03	7.19	7.62	8.10	7.94	8.36	8.39	8.29	8.26	8.32	8.33	8.51	8.38
Manufacturing..... do.....	39.44	40.96	41.74	41.43	41.89	42.53	42.57	42.44	42.49	42.54	42.22	42.30	42.60	43.14	43.51	43.58
Transportation, comm., elec., gas. do.....	9.48	9.74	9.88	9.87	10.04	10.12	10.11	10.15	10.18	9.93	10.05	10.11	10.21	10.27	10.35	10.41
Wholesale and retail trade..... do.....	31.20	32.14	32.54	32.51	32.61	33.09	33.22	33.21	33.36	33.42	33.38	33.47	33.66	33.63	33.64	33.61
Finance, insurance, and real estate. do.....	8.10	8.44	8.59	8.64	8.66	8.42	8.54	8.78	8.88	8.94	8.93	8.96	9.01	9.03	9.05	9.10
Services..... do.....	25.27	26.28	26.93	26.89	26.88	27.26	27.39	27.30	27.34	27.35	27.39	27.52	27.70	27.76	27.76	27.78
Government..... do.....	29.15	29.64	29.98	29.96	30.32	30.36	30.69	30.69	30.71	30.92	30.62	30.32	30.18	30.97	30.63	30.79
Indexes of employee-hours (aggregate weekly)††																
Private nonagric. payrolls, total..... 1967=100.																
Goods-producing..... do.....	111.4	115.4	117.5	116.2	117.1	119.1	120.4	120.0	120.6	120.6	120.4	120.8	121.6	122.4	122.9	122.6
Mining..... do.....	96.0	100.2	101.6	99.3	100.9	103.6	106.0	105.1	106.0	106.1	105.4	105.5	106.5	108.0	109.0	108.5
Contract construction..... do.....	125.5	133.4	107.8	105.6	106.8	111.3	144.2	143.1	144.0	143.5	145.7	144.4	145.2	148.0	149.9	149.9
Manufacturing..... do.....	100.2	105.8	108.6	100.3	104.2	111.5	118.8	117.1	122.8	124.2	122.8	122.6	123.8	124.3	126.1	121.9
Durable goods..... do.....	94.2	98.0	100.2	98.9	100.1	102.0	102.5	101.6	101.7	101.6	101.0	101.2	102.1	103.7	104.5	104.8
Nondurable goods..... do.....	93.4	98.7	101.7	100.5	101.9	103.9	104.2	103.5	103.8	104.0	103.5	103.9	105.5	107.1	108.2	107.9
Service-producing..... do.....	95.4	97.1	97.9	96.5	97.4	99.2	99.9	98.9	98.7	98.1	97.2	97.2	97.2	98.8	99.2	100.2
Transportation, comm., elec., gas. do.....	122.1	126.0	128.5	127.9	128.4	129.8	130.5	130.5	130.7	130.7	130.8	131.4	132.0	132.3	132.6	132.3
Wholesale and retail trade..... do.....	103.7	105.9	106.9	107.0	107.7	109.1	108.7	109.0	109.4	106.5	107.7	108.2	109.9	110.2	111.0	111.7
Wholesale trade..... do.....	118.9	123.0	124.7	123.7	124.2	125.9	126.4	126.8	126.8	127.4	127.2	127.5	128.2	128.4	128.6	127.5
Retail trade..... do.....	116.4	120.6	123.0	123.1	123.9	125.3	126.0	125.2	126.1	125.7	126.1	127.1	127.4	127.6	128.3	128.0
Finance, insurance, and real estate. do.....	119.8	123.1	125.4	123.9	124.4	126.1	126.6	127.3	127.0	128.0	127.7	127.7	128.5	128.7	128.7	127.4
Services..... do.....	125.8	131.3	133.9	134.3	135.1	135.4	137.5	136.2	137.9	139.0	139.2	139.6	140.5	140.6	141.0	141.7
Services..... do.....	133.9	138.8	142.1	141.7	141.8	143.3	144.1	143.8	143.9	144.1	144.1	145.1	145.0	145.6	145.7	145.6
HOURLY AND WEEKLY EARNINGS																
Average hourly earnings per worker:‡																
Not seasonally adjusted:																
Private nonagric. payrolls..... dollars.	4.86	5.24	5.40	5.47	5.49	5.52	5.59	5.62	5.65	5.69	5.71	5.82	5.86	5.88	5.90	5.95
Mining..... do.....	6.46	6.94	6.77	6.91	6.93	6.95	7.62	7.64	7.69	7.82	7.79	7.94	7.97	8.05	8.07	8.25
Contract construction..... do.....	7.70	8.09	8.29	8.34	8.32	8.40	8.39	8.52	8.56	8.63	8.72	8.87	8.88	8.88	8.92	8.98
Manufacturing..... do.....	5.22	5.67	5.92	5.97	5.98	6.00	6.03	6.07	6.11	6.17	6.16	6.28	6.32	6.38	6.47	6.47
Excluding overtime..... do.....	5.00			5.73	5.73	5.75	5.79	5.82	5.85	5.92	5.90	5.99	6.04	6.10		

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	Annual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

LABOR FORCE, EMPLOYMENT, AND EARNINGS—Continued

HOURLY AND WEEKLY EARNINGS—Con.															
Avg. hourly earnings per worker, private nonagric. payrolls, Not seas. adj. †—Continued															
Manufacturing—Continued															
Nondurable goods.....dollars	4.70	5.10	5.30	5.38	5.38	5.39	5.42	5.44	5.48	5.57	5.56	5.62	5.64	5.70	5.81
Excluding overtime.....do	4.51	4.97	5.18	5.18	5.17	5.19	5.21	5.24	5.26	5.35	5.33	5.38	5.41	5.47	5.50
Food and kindred products.....do	4.97	5.37	5.60	5.63	5.68	5.69	5.73	5.75	5.75	5.80	5.80	5.87	5.89	5.97	6.08
Tobacco manufactures.....do	4.99	5.62	5.80	6.03	6.06	6.30	6.33	6.41	6.61	6.58	6.30	6.10	5.99	6.18	6.67
Textile mill products.....do	3.69	3.98	4.14	4.17	4.16	4.17	4.17	4.19	4.20	4.32	4.37	4.42	4.45	4.48	4.52
Apparel and other textile products.....do	3.40	3.62	3.76	3.85	3.85	3.89	3.91	3.89	3.92	3.92	3.93	3.99	4.01	4.04	4.16
Paper and allied products.....do	5.47	5.96	6.20	6.27	6.32	6.32	6.33	6.37	6.51	6.63	6.59	6.68	6.88	6.75	6.82
Printing and publishing.....do	5.71	6.11	6.27	6.33	6.34	6.37	6.37	6.38	6.42	6.47	6.51	6.58	6.58	6.64	6.74
Chemicals and allied products.....do	5.91	6.43	6.72	6.78	6.82	6.83	6.87	6.93	6.96	7.05	7.06	7.13	7.19	7.22	7.33
Petroleum and coal products.....do	7.21	7.82	8.00	8.41	8.57	8.50	8.53	8.52	8.58	8.58	8.59	8.67	8.67	8.75	8.87
Rubber and plastics products, nec.....do	4.65	5.17	5.29	5.34	5.33	5.32	5.36	5.43	5.47	5.51	5.54	5.58	5.66	5.69	5.79
Leather and leather products.....do	3.40	3.41	3.69	3.80	3.84	3.86	3.87	3.88	3.89	3.89	3.87	3.92	3.94	3.98	4.16
Transportation, comm., elec., gas.....do	6.46	6.99	7.29	7.34	7.37	7.34	7.45	7.45	7.47	7.53	7.63	7.71	7.72	7.72	7.78
Wholesale and retail trade.....do	3.97	4.27	4.38	4.54	4.54	4.56	4.60	4.61	4.62	4.66	4.67	4.74	4.78	4.80	4.94
Wholesale trade.....do	5.18	5.39	5.61	5.67	5.66	5.69	5.78	5.78	5.81	5.91	5.92	6.02	6.06	6.08	6.18
Retail trade.....do	3.57	3.85	3.93	4.10	4.10	4.11	4.14	4.15	4.16	4.19	4.19	4.25	4.28	4.30	4.45
Finance, insurance, and real estate.....do	4.27	4.54	4.67	4.76	4.76	4.76	4.84	4.85	4.89	4.93	4.91	4.97	5.02	5.03	5.11
Services.....do	4.31	4.65	4.80	4.89	4.91	4.91	4.95	4.95	4.93	4.95	4.94	5.00	5.12	5.13	5.24
Seasonally adjusted: †															
Private nonagricultural payrolls.....do	4.86	5.24	5.41	5.46	5.49	5.54	5.61	5.62	5.66	5.71	5.73	5.77	5.82	5.87	5.94
Mining.....do	6.46	6.94	6.75	6.84	6.92	6.94	7.03	7.06	7.11	7.15	7.18	7.24	7.29	7.33	7.41
Contract construction.....do	7.70	8.09	8.24	8.30	8.35	8.47	8.57	8.59	8.65	8.66	8.72	8.78	8.87	8.82	8.94
Manufacturing.....do	5.22	5.67	5.88	5.93	5.98	6.01	6.05	6.08	6.12	6.18	6.20	6.28	6.32	6.38	6.43
Transportation, comm., elec., gas.....do	6.46	6.99	7.28	7.34	7.38	7.40	7.49	7.50	7.52	7.53	7.58	7.71	7.66	7.68	7.78
Wholesale and retail trade.....do	3.97	4.27	4.42	4.51	4.50	4.55	4.60	4.60	4.63	4.67	4.70	4.74	4.77	4.81	4.91
Wholesale trade.....do	4.27	4.54	4.68	4.72	4.71	4.75	4.84	4.84	4.89	4.95	4.92	4.97	5.03	5.06	5.07
Retail trade.....do	3.57	3.85	3.93	4.10	4.10	4.11	4.14	4.15	4.16	4.19	4.19	4.25	4.28	4.30	4.45
Finance, insurance, and real estate.....do	4.27	4.54	4.67	4.76	4.76	4.76	4.84	4.85	4.89	4.93	4.91	4.97	5.02	5.03	5.11
Services.....do	4.31	4.65	4.78	4.86	4.87	4.90	4.95	4.94	4.96	5.01	5.02	5.06	5.10	5.11	5.21
Indexes of avg. hourly earnings, seas. adj.: † †															
Private nonfarm economy:															
Current dollars.....1967=100	183.0	196.8	202.5	206.0	206.6	208.3	210.3	211.0	212.3	214.1	214.6	216.2	218.0	219.0	220.3
1967 dollars.....do	107.3	108.4	109.4	109.8	109.4	109.5	109.6	109.6	109.8	109.1	108.7	108.7	108.8	108.5	108.3
Mining.....do	198.6	214.8	217.2	219.7	221.0	222.5	227.1	227.3	239.8	244.3	247.1	249.7	249.7	249.8	252.6
Contract construction.....do	184.7	194.3	197.4	198.8	200.1	203.0	203.5	206.0	207.6	207.9	209.2	210.6	211.4	212.7	214.1
Manufacturing.....do	184.6	194.4	206.5	208.1	209.4	211.0	212.2	213.5	214.7	216.7	217.5	218.9	220.8	222.4	224.0
Transportation, comm., elec., gas.....do	196.7	213.2	222.1	223.8	224.9	225.6	228.4	229.2	229.6	231.2	231.2	233.3	234.0	234.7	236.5
Wholesale and retail trade.....do	176.1	189.5	195.9	199.9	199.7	201.5	203.5	204.0	205.2	207.6	208.3	209.9	211.6	213.0	214.1
Wholesale trade.....do	169.9	180.7	186.0	187.7	187.3	188.9	192.3	192.4	194.6	196.9	196.0	198.2	199.8	200.8	201.4
Finance, insurance, and real estate.....do	183.9	197.9	203.5	207.0	206.8	208.7	210.5	210.4	211.5	213.2	212.9	214.8	217.5	217.8	221.7
Hourly wages, not seasonally adjusted:															
Construction wages, 20 cities (ENR): ♂															
Common labor.....\$ per hr.	8.93	9.46	9.74	9.77	9.78	9.82	9.83	9.87	9.96	10.26	10.27	10.31	10.33	10.34	10.37
Skilled labor.....do	11.85	12.56	12.94	13.01	13.03	13.04	13.04	13.09	13.19	13.55	13.61	13.66	13.68	13.72	13.76
Farm (U.S.) wage rates, hired workers, by method of pay:															
All workers, including piece-rate.....\$ per hr.	2.66	2.87	3.18	3.18	3.18	3.18	3.09	3.09	3.09	2.93	2.93	3.18	3.18	3.18	3.18
All workers, other than piece-rate.....do	2.61	2.82	3.13	3.13	3.13	3.13	3.05	3.05	3.05	2.90	2.90	3.11	3.11	3.11	3.11
Workers receiving cash wages only.....do	2.81	3.06	3.40	3.40	3.40	3.40	3.22	3.22	3.22	3.06	3.06	3.34	3.34	3.34	3.34
Workers paid per hour, cash wages only.....do	2.65	2.90	3.18	3.18	3.18	3.18	3.08	3.08	3.08	2.93	2.93	3.20	3.20	3.20	3.20
Railroad wages (average, class I).....do	6.929	7.451	7.658	7.658	7.658	7.658	7.658	7.658	7.658	7.716	7.716	7.716	7.716	7.716	7.716
Avg. weekly earnings per worker, †private nonfarm: †															
Current dollars, seasonally adjusted.....do	194.22	193.83	195.99	199.44	202.52	201.76	203.19	204.99	205.13	206.57	208.94	210.15	212.17	212.06	
1967 dollars, seasonally adjusted.....do	104.42	103.32	103.81	104.86	105.59	104.21	104.20	104.48	103.97	103.86	104.16	104.14	104.41	103.34	
Spendable earnings (worker with 3 dependents):															
Current dollars, seasonally adjusted.....do	176.81	173.27	174.93	177.52	179.83	179.26	180.33	181.68	181.78	182.86	184.64	185.55	187.06	188.71	
1967 dollars, seasonally adjusted.....do	95.06	92.36	92.65	93.33	93.76	92.69	92.48	92.60	92.13	91.94	92.04	91.95	92.06	91.96	
Current dollars, not seasonally adjusted:															
Private nonfarm, total.....dollars	189.16	188.64	195.48	192.00	193.80	197.62	200.12	200.63	204.53	206.55	206.70	209.52	210.37	210.15	212.99
Mining.....do	302.97	301.20	299.08	299.53	297.90	301.69	302.23	301.58	306.05	307.82	308.09	305.39	308.29	351.35	351.45
Contract construction.....do	295.87	295.29	299.27	275.22	287.87	304.92	310.43	312.68	324.42	329.67	330.49	332.63	336.55	323.60	330.04
Manufacturing.....do	226.89	228.50	243.31	234.02	236.81	242.40	243.61	245.23	249.29	248.65	248.86	255.60	256.59	260.53	267.86
Durable goods.....do	245.81	248.46	265.86	252.73	256.71	263.04	265.33	265.27	270.58	268.71	268.71	277.79	279.19	283.30	290.07
Nondurable goods.....do	199.76	200.94	211.47	205.52	204.80	212.37	213.55	218.79	217.56	220.02	220.18	223.68	222.78	226.46	229.43
Transportation, comm., elec., gas.....do	142.52	142.19	146.29	146.19	146.64	149.11	150.42	150.75	153.38	157.04	156.45	155.47	156.31	156.45	158.55
Wholesale and retail trade.....do	215.90	209.13	218.79	217.73	217.34	220.20	224.26	223.60	226.59	230.49	230.88	234.78	236.34	236.51	239.68
Wholesale trade.....do	121.41	120.11	123.70	120.08	122.36	122.88	127.26	123.57	127.40	134.08	133.24	131.33	131.58	133.42	133.42
Retail trade.....do	168.36	165.26	169.99	173.26	173.26	172.79	177.14	176.06	178.49	180.93	179.71	180.91	183.73	182.59	182.95
Finance, insurance, and real estate.....do	157.31	153.45	158.40	160.39	160.56	161.05	162.36	161.37	162.69	164.84	164.01	165.46	167.42	167.24	168.22
Services.....do	157.31	153.45	158.40	160.39	160.56	161.05	162.36	161.37	162.69	164.84	164.01	165.46	167.42	167.24	168.22
HELP-WANTED ADVERTISING															
Seasonally adjusted index.....1967=100	95	118	140	138	139	141	146	144	147	150	151	152	161	161	165
LABOR TURNOVER															
Manufacturing establishments:															
Unadjusted for seasonal variation:															
Accession rate, total.....do	3.9	4.0	2.3	3.7	3.2	3.7	4.0	4.7	4.8	4.4	5.3	4.8	4.3	3.3	2.4
New hires.....mo. rate per 100 employees.....do	2.6	2.8	1.5	2.4	2.2	2.6	2.9	3.6	3.8	3.2	4.1	3.9	3.5	2.6	1.7
Separation rate, total.....do	3.8	3.8	3.3	3.5	3.1	3.5	3.5	3.6	3.8	4.1	5.2	4.8	4.0	3.5	3.3
Quit.....do	1.7	1.9	1.2	1.5	1.4	1.8	2.0	2.1	2.2</						

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	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
FINANCE—Continued																
BANKING—Continued																
Commercial bank credit (last Wed. of mo., except for June 30 and Dec. 31 call dates), seas adj.†																
Total loans and investments⊙	784.4	865.4	865.4	874.3	881.9	888.8	904.8	917.9	922.4	935.2	939.2	947.1	955.4	966.3	967.3	-----
Loans⊙	538.9	612.9	612.9	622.4	625.4	633.5	645.0	657.9	661.2	672.0	677.2	684.4	693.7	706.7	709.0	-----
U.S. Government securities	97.3	93.5	93.5	92.5	97.5	96.5	98.4	97.1	98.4	99.7	97.0	96.3	94.3	90.3	88.4	-----
Other securities	148.2	159.0	159.0	159.4	159.0	158.8	161.4	162.9	162.8	163.5	165.0	166.4	167.4	169.3	169.9	-----
Money and interest rates:§																
Bank rates on short-term business loans:																
In 35 centers..... percent per annum	7.52	(*)														
New York City..... do	7.12															
7 other northeast centers..... do	7.88															
8 north central centers..... do	7.48															
7 southeast centers..... do	7.74															
8 southwest centers..... do	7.54															
4 west coast centers..... do	7.80															
Discount rate (N.Y.F.R. Bank), end of year or month..... percent	5.25	6.00	6.00	6.37	6.50	6.50	6.50	6.84	7.00	7.23	7.43	7.83	8.26	9.50	9.50	9.50
Federal intermediate credit bank loans..... do	17.35	16.93	7.26	7.34	7.48	7.64	7.76	7.86	7.94	8.05	8.18	8.27	8.38	8.50	8.70	-----
Home mortgage rates (conventional 1st mortgages):‡																
New home purchase (U.S. avg.)..... percent	18.76	18.80	8.87	8.93	8.96	9.03	9.07	9.14	9.23	9.34	9.45	9.50	9.60	9.63	9.76	9.93
Existing home purchase (U.S. avg.)..... do	18.92	18.83	8.93	8.95	8.99	9.04	9.14	9.17	9.27	9.41	9.55	9.62	9.68	9.68	9.85	10.07
Open market rates, New York City:																
Bankers' acceptances (prime, 90 days)..... do	5.19	5.59	6.60	6.86	6.82	6.79	6.92	7.32	7.75	8.02	7.98	8.54	9.32	10.53	10.55	10.29
Commercial paper (prime, 4-6 months)..... do	5.35	5.60	6.64	6.79	6.80	6.80	6.86	7.11	7.63	7.91	7.90	8.44	9.03	10.23	10.43	10.32
Finance co. paper placed directly, 3-6 mo..... do	5.22	5.49	6.52	6.69	6.74	6.73	6.74	6.98	7.41	7.66	7.65	8.18	8.78	9.82	10.06	10.10
Yield on U.S. Government securities (taxable):																
3-month bills (rate on new issue)..... percent	4.989	5.265	6.063	6.448	6.457	6.319	6.306	6.430	6.707	7.074	7.086	7.836	8.132	8.787	9.122	9.351
3-5 year issues..... do	6.94	6.85	7.40	7.71	7.76	7.76	7.90	8.10	8.31	8.54	8.31	8.38	8.61	8.97	9.23	9.36
CONSUMER INSTALLMENT CREDIT †																
Total extended and liquidated:																
Unadjusted:																
Extended..... mil.\$	211,028	254,071	24,534	18,725	18,959	24,611	23,985	26,898	28,244	25,266	28,313	24,859	25,397	25,946	27,398	-----
Liquidated..... do	189,381	218,793	18,910	19,426	18,538	21,318	19,970	21,383	21,750	21,234	22,596	21,086	23,187	22,079	21,283	-----
Seasonally adjusted:																
Extended, total ♀..... do			22,832	21,983	22,758	23,925	24,682	25,104	25,565	25,022	25,669	25,537	25,758	26,214	26,413	-----
By major holder:																
Commercial banks..... do			10,907	10,529	10,792	11,382	12,102	12,067	12,382	12,187	12,255	12,123	12,182	12,476	12,454	-----
Finance companies..... do			3,719	3,573	3,698	3,857	4,158	4,179	4,223	4,261	4,348	4,372	4,605	4,512	4,659	-----
Credit unions..... do			3,035	2,919	3,086	3,282	3,257	3,484	3,445	3,271	3,379	3,360	3,401	3,530	3,526	-----
Retailers..... do			3,465	3,219	3,232	3,438	3,337	3,408	3,552	3,477	3,725	3,718	3,518	3,571	3,612	-----
By major credit type:																
Automobile..... do			6,889	6,541	6,730	7,043	7,434	7,592	7,595	7,652	7,744	7,542	7,501	7,787	7,734	-----
Revolving..... do			7,985	7,960	8,147	8,398	8,523	8,563	9,062	8,700	9,028	9,006	8,846	9,176	9,424	-----
Mobile home..... do			457	447	405	493	529	527	510	509	531	494	604	486	534	-----
Liquidated, total ♀..... do			19,252	19,546	19,896	19,849	20,576	20,824	21,358	21,556	22,037	21,857	22,384	22,115	22,100	-----
By major holder:																
Commercial banks..... do			8,946	9,002	9,149	9,169	9,655	9,807	9,995	10,087	10,470	10,409	10,565	10,551	10,441	-----
Finance companies..... do			3,029	3,051	3,147	3,178	3,279	3,318	3,599	3,590	3,612	3,525	3,742	3,494	3,581	-----
Credit unions..... do			2,432	2,405	2,457*	2,517	2,587	2,635	2,648	2,758	2,766	2,721	2,757	2,751	2,753	-----
Retailers..... do			3,145	3,418	3,427	3,228	3,279	3,273	3,318	3,333	3,383	3,390	3,403	3,385	3,416	-----
By type of credit:																
Automobile..... do			5,252	5,215	5,397	5,409	5,622	5,715	5,953	5,941	6,140	6,010	6,126	6,032	6,053	-----
Revolving..... do			7,226	7,545	7,698	7,566	7,840	7,919	8,107	8,100	8,291	8,384	8,500	8,511	8,555	-----
Mobile home..... do			398	398	389	398	417	426	440	426	452	422	579	411	431	-----
Total outstanding, end of year or month:..... do	193,977	230,829	230,829	230,126	230,547	233,842	237,855	243,371	249,865	253,897	259,614	263,387	265,576	269,445	274,994	-----
By major holder: ♀																
Commercial banks..... do	93,728	112,373	112,373	112,778	113,205	115,050	117,654	120,440	124,080	126,619	129,622	131,408	132,457	133,909	137,413	-----
Finance companies..... do	38,919	44,868	44,868	44,877	45,099	45,608	46,463	47,580	48,637	49,502	50,558	51,280	51,984	53,099	54,309	-----
Credit unions..... do	31,189	37,605	37,605	37,402	37,758	38,724	39,236	40,481	41,936	42,355	43,499	44,325	44,635	45,305	45,939	-----
Retailers..... do	19,260	23,490	23,490	22,526	21,869	21,639	21,570	21,744	21,813	21,828	22,093	22,302	22,464	23,006	23,006	-----
By type of credit: ♀																
Automobile..... do	67,707	82,911	82,911	83,075	83,826	85,757	87,747	90,359	93,361	95,289	97,687	99,062	100,159	101,565	102,385	-----
Revolving..... do	17,189	39,274	39,274	38,795	38,143	38,034	38,426	38,967	40,001	40,553	41,629	42,420	42,579	43,523	45,300	-----
Mobile home..... do	14,573	15,141	15,141	15,092	15,070	15,149	15,287	15,396	15,532	15,663	15,799	15,910	15,925	16,017	17,349	-----

* Revised. † Preliminary. ‡ Average for year. § Daily average. ¶ Data no longer available. ⊙ Adjusted to exclude interbank loans. § For bond yields, see p. S-21. † Beginning Jan. 1959, monthly data have been revised to reflect new seasonal factors and adjustment to benchmark for the latest call date (Dec. 31, 1975). Revisions are available from the Federal Reserve Board, Washington, D.C. 20551. † Beginning Jan. 1979 SURVEY, the consumer credit group has been

completely restructured. Comparable data prior to Nov. 1977 are available from the Federal Reserve Board, Washington, D.C. 20551. † Beginning Jan. 1973, data have been revised; revisions for Jan. 1973-April 1975 will be shown later. ♀ Includes data for items not shown separately. † Corrected.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

FINANCE—Continued

FEDERAL GOVERNMENT FINANCE																
Budget receipts and outlays:																
Receipts (net)..... mil. \$	1 299,197	1 357,762	32,794	33,201	26,795	24,879	42,343	34,961	47,657	29,194	35,040	42,591	28,745	33,227		
Outlays (net)..... do	1 365,648	1 402,802	37,646	36,918	33,787	40,004	35,724	36,670	38,602	36,426	39,572	38,935	42,691	39,134		
Budget surplus or deficit (-)..... do	-1 66,451	-45,040	-4,852	-3,717	-6,992	-15,125	6,618	-1,709	9,055	-7,232	-4,532	3,655	-13,946	-5,907		
Budget financing, total..... do																
Borrowing from the public..... do	1 66,451	45,040	4,852	3,717	6,992	15,125	-6,618	1,708	-9,055	7,232	4,532	-3,655	13,946	5,907		
Reduction in cash balances..... do	1 82,913	1 53,516	9,971	6,027	5,108	9,656	-2,263	-555	5,401	3,195	9,039	2,821	6,484	5,236		
Gross amount of debt outstanding..... do	631,866	1 709,138	729,164	731,821	739,650	747,844	746,431	751,412	758,804	760,203	773,340	780,425	785,267	791,563		
Held by the public..... do	480,300	1 551,843	572,519	578,546	583,654	593,310	591,048	590,493	595,894	599,089	608,128	610,948	617,433	622,669		
Budget receipts by source and outlays by agency:																
Receipts (net), total..... mil. \$	1 299,197	1 357,762	32,794	33,201	26,795	24,879	42,343	34,961	47,657	29,194	35,040	42,591	28,745	33,227		
Individual income taxes (net)..... do	1 130,795	1 157,626	13,941	20,217	10,620	5,258	18,883	14,293	20,301	14,590	14,784	20,883	15,922	16,609		
Corporation income taxes (net)..... do	1 41,409	1 54,892	9,212	1,991	1,013	8,023	8,850	1,183	14,655	1,785	1,122	9,753	1,684	1,048		
Social insurance taxes and contributions (net)..... do	1 92,714	1 108,688	6,647	7,998	12,427	8,560	11,828	16,092	9,287	9,518	15,587	8,515	7,805	11,923		
Other..... mil. \$	1 34,281	1 36,556	2,995	2,996	2,736	3,087	2,831	3,395	3,414	3,300	3,547	3,439	3,335	3,647		
Outlays, total..... do	1 365,648	1 402,802	37,646	36,917	33,787	40,004	35,724	36,670	38,602	36,426	39,572	38,935	42,691	39,134		
Agriculture Department..... do	1 12,796	1 16,738	3,018	2,689	939	1,879	781	1,229	819	1,336	1,200	1,865	1,696	2,654		
Defense Department, military..... do	1 88,036	1 95,650	8,206	8,123	8,226	9,168	8,315	8,870	8,854	8,285	9,552	8,811	9,164	9,224		
Health, Education, and Welfare Department..... do	1 128,785	1 147,455	13,179	13,125	13,378	14,387	12,756	13,826	14,142	13,122	14,417	14,402	14,103	14,512		
Treasury Department..... do	1 43,527	1 50,461	6,344	5,082	3,601	3,386	5,647	3,657	6,837	5,180	3,727	3,585	5,714	3,990		
National Aeronautics and Space Adm..... do	1 3,670	1 3,944	320	315	342	370	316	361	320	324	320	344	300	350		
Veterans Administration..... do	1 18,415	1 18,019	2,604	684	1,514	2,676	556	1,751	2,432	608	1,528	1,440	1,645	1,665		
Receipts and expenditures (national income and product accounts basis), qtrly. totals seas. adj. at annual rates: [†]																
Federal Government receipts, total..... bil. \$	331.4	374.4	385.5			396.2			424.7			441.7			463.8	
Personal tax and nontax receipts..... do	146.8	169.4	174.8			176.8			186.7			199.7			209.6	
Corporate profit tax accruals..... do	54.8	61.3	62.9			59.6			72.6			73.6			81.4	
Indirect business tax and nontax accruals..... do	23.4	25.0	25.6			26.5			27.9			28.2			28.9	
Contributions for social insurance..... do	106.4	118.7	122.2			133.3			137.6			140.1			143.9	
Federal Government expenditures, total..... do	385.2	422.6	444.1			448.8			448.3			464.5			483.5	
Purchases of goods and services..... do	129.9	145.1	152.2			151.5			147.2			154.0			162.3	
National defense..... do	86.8	94.3	97.1			97.9			98.6			99.6			102.1	
Transfer payments..... do	161.6	172.7	178.3			180.2			180.7			188.8			191.7	
Grants-in-aid to State and local govts..... do	61.1	67.4	71.1			73.9			75.9			77.5			80.3	
Net interest paid..... do	26.8	29.1	30.7			33.2			34.6			36.3			38.1	
Subsidies less current surplus of government enterprises..... bil. \$	5.8	8.3	11.8			10.0			10.0			8.0			11.1	
Less: Wage accruals less disbursements..... do	.0	.0	.0			.0			.0			.2			.0	
Surplus or deficit (-)..... do	-53.8	-48.1	-58.6			-52.6			-23.6			-22.8			-19.7	
LIFE INSURANCE																
Institute of Life Insurance:																
Assets, total, all U.S. life insurance cos..... bil. \$	321.55	351.72	351.72	354.02	356.27	359.11	363.27	366.94	369.88	374.42	378.12	381.05	382.45	385.56		
Government securities..... do	20.26	23.56	23.56	23.88	24.09	24.03	23.88	24.27	24.20	24.38	24.71	25.18	25.66	26.01		
Corporate securities..... do	154.93	171.65	171.65	173.70	175.15	176.98	180.37	182.34	183.70	187.18	189.47	190.61	189.98	191.32		
Mortgage loans, total..... do	91.55	96.85	96.85	97.15	97.48	98.02	98.58	99.19	100.04	100.60	101.60	102.36	103.16	104.11		
Nonfarm..... do	84.13	88.01	88.01	88.26	88.47	88.82	89.21	89.67	90.34	90.78	91.65	92.26	92.90	93.75		
Real estate..... do	10.48	11.06	11.06	11.14	11.22	11.21	11.27	11.54	11.54	11.56	11.54	11.58	11.69	11.71		
Policy loans and premium notes..... do	25.83	27.56	27.56	27.69	27.84	28.02	28.25	28.43	28.65	28.84	29.07	29.29	29.52	29.82		
Cash..... do	2.00	2.13	2.13	1.64	1.46	1.57	1.48	1.54	1.48	1.42	1.45	1.42	1.42	1.46		
Other assets..... do	16.50	18.92	18.92	18.82	19.03	19.27	19.44	19.62	20.27	20.44	20.28	20.60	21.01	21.14		
Life Insurance Agency Management Association:																
Insurance written (new paid-for insurance):..... mil. \$	324,849	367,335	44,049	26,063	26,603	35,877	31,562	33,589	37,057	28,579	32,529	34,364	34,039	34,537	48,849	
Value, estimated total..... do	213,784	242,842	25,282	17,755	18,893	23,952	22,359	24,147	24,034	20,691	23,610	22,138	24,699	23,903	27,951	
Ordinary (incl. mass-marketed ord.)..... do	104,683	117,960	18,281	7,862	7,264	11,351	8,634	8,876	12,475	7,399	8,399	11,737	8,682	10,094	20,453	
Group..... do	6,382	6,533	485	445	446	574	569	566	548	490	520	488	658	540	445	
Industrial..... do																
MONETARY STATISTICS																
Gold and silver:																
Gold:																
Monetary stock, U.S. (end of period)..... mil. \$	11,598	11,719	11,719	11,718	11,718	11,718	11,718	11,718	11,706	11,693	11,679	11,668	11,655	11,642	11,671	
Net release from earmark \$..... do	331	426	-116	262	-9	8	41	19	47	26	22	19	5	23		
Exports..... thous. \$	347,516	1,042,625	78,272	195,119	26,092	36,552	188,866	32,674	23,118	40,906	29,538	269,917	45,804	207,133	18,078	
Imports..... do	331,017	674,026	59,317	75,585	32,347	138,032	90,620	49,529	82,745	32,994	71,754	58,454	121,231	74,477	75,253	
Production: [‡]																
South Africa..... mil. \$	962.4	2 951.6	73.0	76.0	76.4	80.6	82.8	80.2	78.5	81.1	82.8	83.6	79.8	79.4	74.3	
Canada..... do	65.2	2 73.7	6.2	5.8	5.5	6.4	6.2	5.8	6.0	5.9	5.8					
Silver:																
Exports..... thous. \$	61,434	84,645	14,666	8,798	10,735	7,936	13,665	5,758	6,194	6,079	12,468	18,345	12,472	8,444	5,539	
Imports..... do	2 325,252	354,818	25,587	136,446	82,384	210,902	164,590	29,915	33,206	32,209	33,105	30,572	35,716	29,985	30,556	
Price at New York..... dol. per fine oz.	4.353	4.623	4.706	4.409	4.936	5.273	5.118	5.121	5.316	5.331	5.495	5.575	5.918	5.866	5.928	
Production: [‡]																
United States..... thous. fine oz.	26,708	27,519	4,286	1,219	1,893	2,536	1,634	1,911	1,802	1,526	1,434	2,456	2,045	1,645	3,870	

[†] Revised. [‡] Preliminary. ¹ Data shown in 1976 and 1977 annual columns are for fiscal years ending June 30 and Sept. 30 respectively; they include revisions not distributed to months. ² Reported annual total; revisions not distributed to the months. ³ Includes data for items not shown separately.

[†]Data have been revised back to 1946 (see table 3.2 in the Jan. 1976 and July 1978 SURVEYS for earlier data).
[‡]Or increase in earmarked gold (-). [¶]Valued at \$38 per fine ounce from Jan. 1972-Sept. 1973; at \$42.22 thereafter.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

FINANCE—Continued

MONETARY STATISTICS—Continued																
Currency in circulation (end of period).....bil. \$..	93.7	103.8	103.8	100.8	101.4	102.4	103.1	105.4	106.3	106.6	107.6	107.7	109.3	112.1	114.6	-----
Money supply and related data (avg. of daily fig.): ⊕																
Unadjusted for seasonal variation:																
Total money supply.....bil. \$..	305.1	327.4	348.2	347.5	335.9	338.2	350.9	*345.5	*351.8	*356.3	*354.4	*359.0	*361.4	*363.0	*371.6	365.7
Currency outside banks.....do.	77.8	84.8	90.1	88.7	89.0	89.9	91.0	91.9	92.8	93.9	94.2	94.9	95.6	97.2	99.1	97.4
Demand deposits.....do.	227.4	242.6	258.1	258.8	247.0	248.2	259.9	*253.6	*259.0	*262.4	*260.2	*264.1	*265.8	*265.7	*272.5	268.3
Time deposits adjusted ¹.....do.	467.8	517.1	542.6	549.5	554.9	563.2	*567.4	*574.1	*578.5	*582.4	*587.5	*593.1	*597.6	*605.0	*609.9	615.5
U.S. Government demand deposits ².....do.	4.1	4.2	5.1	4.3	4.3	4.8	5.0	4.0	6.2	4.5	3.6	6.2	4.3	8.0	10.2	12.0
Adjusted for seasonal variation:																
Total money supply.....do.	-----	-----	*338.7	*341.9	*342.4	*343.2	*347.9	*350.7	*352.5	*354.5	*357.0	*361.1	*361.6	*361.0	*361.5	359.9
Currency outside banks.....do.	-----	-----	88.6	89.4	*90.2	90.7	*91.3	*92.0	*92.5	*93.2	*93.9	95.2	*95.8	*96.6	97.5	98.2
Demand deposits.....do.	-----	-----	*250.1	*252.5	*252.3	*252.5	*256.6	*258.8	*260.0	*261.3	*263.0	*265.9	*265.8	*264.4	*264.1	261.7
Time deposits adjusted ¹.....do.	-----	-----	*544.4	*550.0	*555.9	*560.8	*565.9	*572.2	*576.8	*582.2	*587.5	*593.7	*597.9	*608.8	*611.4	616.0
Turnover of demand deposits except interbank and U.S. Govt., annual rates, seas. adjusted:																
Total (233 SMSA's)⊙.....ratio of debits to deposits.	143.9	(?)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
New York SMSA.....do.	391.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total 232 SMSA's (except N.Y.).....do.	90.7	(?)	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
6 other leading SMSA's⊙.....do.	129.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
226 other SMSA's.....do.	75.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PROFITS AND DIVIDENDS (QTRLY.)																
Manufacturing corps. (Fed. Trade Comm.):																
Net profit after taxes, all industries.....mil. \$..	64,519	70,366	18,390	-----	-----	16,064	-----	-----	22,189	-----	20,436	-----	-----	-----	-----	-----
Food and kindred products.....do.	5,826	5,575	1,455	-----	-----	1,236	-----	-----	1,707	-----	1,531	-----	-----	-----	-----	-----
Textile mill products.....do.	809	828	268	-----	-----	225	-----	-----	343	-----	311	-----	-----	-----	-----	-----
Paper and allied products.....do.	2,270	2,367	580	-----	-----	563	-----	-----	719	-----	629	-----	-----	-----	-----	-----
Chemicals and allied products.....do.	7,610	8,060	1,900	-----	-----	2,020	-----	-----	2,392	-----	2,251	-----	-----	-----	-----	-----
Petroleum and coal products.....do.	11,725	12,179	2,072	-----	-----	2,549	-----	-----	3,152	-----	3,423	-----	-----	-----	-----	-----
Stone, clay, and glass products.....do.	1,447	1,686	455	-----	-----	246	-----	-----	655	-----	759	-----	-----	-----	-----	-----
Primary nonferrous metal.....do.	913	873	140	-----	-----	191	-----	-----	376	-----	303	-----	-----	-----	-----	-----
Primary iron and steel.....do.	2,085	864	365	-----	-----	161	-----	-----	791	-----	642	-----	-----	-----	-----	-----
Fabricated metal products (except ordnance, machinery, and transport. equip.).....mil. \$..	3,196	3,458	862	-----	-----	720	-----	-----	1,167	-----	1,030	-----	-----	-----	-----	-----
Machinery (except electrical).....do.	7,889	9,131	2,510	-----	-----	2,067	-----	-----	3,029	-----	2,471	-----	-----	-----	-----	-----
Elec. machinery, equip., and supplies.....do.	4,073	5,383	1,562	-----	-----	1,387	-----	-----	1,710	-----	1,757	-----	-----	-----	-----	-----
Transportation equipment (except motor vehicles, etc.).....mil. \$..	1,687	1,989	468	-----	-----	498	-----	-----	506	-----	675	-----	-----	-----	-----	-----
Motor vehicles and equipment.....do.	5,099	6,133	1,525	-----	-----	1,471	-----	-----	2,014	-----	1,020	-----	-----	-----	-----	-----
All other manufacturing industries.....do.	9,890	11,840	3,328	-----	-----	2,730	-----	-----	3,628	-----	3,634	-----	-----	-----	-----	-----
Dividends paid (cash), all industries.....do.	22,763	26,585	7,844	-----	-----	6,392	-----	-----	6,957	-----	7,056	-----	-----	-----	-----	-----
SECURITIES ISSUED																
Securities and Exchange Commission:‡																
Estimated gross proceeds, total.....mil. \$..	57,801	53,618	6,385	3,074	2,409	5,642	3,458	4,889	5,274	4,056	3,260	4,133	-----	-----	-----	-----
By type of security:																
Bonds and notes, corporate.....do.	41,182	37,532	4,850	2,314	1,821	3,872	2,434	3,157	3,598	3,446	2,353	2,871	-----	-----	-----	-----
Common stock.....do.	8,304	8,034	596	462	388	674	239	649	819	451	625	800	-----	-----	-----	-----
Preferred stock.....do.	2,803	3,393	445	171	138	148	235	390	586	57	157	127	-----	-----	-----	-----
By type of issuer:																
Corporate, total ⊙.....mil. \$..	52,290	48,958	5,891	2,947	2,347	4,694	2,908	4,196	5,003	3,954	3,135	3,798	-----	-----	-----	-----
Manufacturing.....do.	15,493	12,225	1,994	273	716	1,229	549	878	1,471	842	721	971	-----	-----	-----	-----
Extractive (mining).....do.	1,762	2,589	167	328	99	187	142	100	334	370	277	168	-----	-----	-----	-----
Public utility.....do.	14,415	13,199	1,030	644	465	1,258	618	1,885	1,244	799	875	1,338	-----	-----	-----	-----
Transportation.....do.	3,626	1,641	253	70	41	113	252	216	209	261	87	123	-----	-----	-----	-----
Communication.....do.	3,562	4,353	232	519	34	291	35	0	349	353	552	215	-----	-----	-----	-----
Financial and real estate.....do.	10,283	11,565	1,570	1,023	912	1,311	931	811	1,017	1,115	375	561	-----	-----	-----	-----
State and municipal issues (Bond Buyer):																
Long-term.....do.	33,845	45,060	3,506	3,224	2,662	4,430	3,489	5,146	4,122	3,685	6,020	2,289	3,272	4,026	3,556	-----
Short-term.....do.	21,905	21,349	1,049	1,171	1,521	1,556	4,915	985	1,870	1,598	1,760	1,937	1,273	978	2,062	-----
SECURITY MARKETS																
Stock Market Customer Financing																
Margin credit at brokers and banks, end of month or year, total.....mil. \$..	9,011	10,866	10,866	10,690	10,901	11,027	11,424	(?)	11,332	11,438	11,984	12,626	12,307	-----	-----	-----
At brokers.....do.	8,166	9,993	9,993	9,839	10,024	10,172	10,510	10,910	11,332	11,438	11,984	12,626	12,307	-----	-----	-----
At banks.....do.	845	873	873	851	877	855	914	(?)	-----	-----	-----	-----	-----	-----	-----	-----
Free credit balances at brokers:																
Margin accounts.....do.	585	640	640	660	635	630	715	755	700	710	795	825	885	-----	-----	-----
Cash accounts.....do.	1,855	2,060	2,060	1,925	1,875	1,795	2,170	2,395	2,300	2,295	2,555	2,655	2,464	-----	-----	-----

† Revised. ‡ Preliminary. § Beginning Jan. 1973, does not include noncorporate bonds and notes formerly included. ¶ Data no longer available. ⊕ Effective February 1976 SURVEY, data revised to reflect: Annual review of seasonal factors; regular benchmark adjustment; effect of changes in check collection procedures (Regulation J); and adjustments to include new figures from internationally oriented banking institutions. Monthly revisions back to 1970 are in the Feb. 1976 Federal Reserve Bulletin.

⊙ At all commercial banks.

⊙ Total SMSA's include some cities and counties not designated as SMSA's.

⊙ Includes Boston, Philadelphia, Chicago, Detroit, San Francisco-Oakland, and Los Angeles-Long Beach. ‡ Data revised back to 1973; no monthly revisions for 1973-75 are available.

¶ Includes data not shown separately.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

FINANCE—Continued

SECURITY MARKETS—Continued																
Bonds																
Prices:																
Standard & Poor's Corporation:																
High grade corporate:																
Composite ^o.....dol. per \$100 bond...	58.0	59.6	58.4	57.2	56.9	57.0	56.3	55.5	55.2	54.5	56.1	56.1	54.7	54.3	53.3	52.8
Domestic municipal (15 bonds).....do....	72.5	81.3	81.7	80.9	81.8	82.0	79.8	77.2	75.7	75.2	77.0	77.6	77.4	76.6	73.8	74.6
U.S. Treasury bonds, taxable [¶]do....	58.96	56.89	55.02	53.74	53.09	52.90	52.15	51.34	50.91	49.97	51.32	51.67	50.11	49.54	48.38	47.97
Sales:																
Total, excl. U.S. Government bonds (SEC):																
All registered exchanges:																
Market value.....mil. \$.....	(1)															
Face value.....do.....																
New York Stock Exchange:																
Market value.....do.....																
Face value.....do.....																
New York Stock Exchange, exclusive of some stopped sales, face value, total.....mil. \$...	5,262.11	4,646.35	400.87	372.15	283.80	378.68	408.75	451.17	410.47	348.52	459.78	393.73	392.14	334.59	320.23	329.73
Yields:																
Domestic corporate (Moody's) [§]percent...																
By rating:																
Aaa.....do.....	8.43	8.02	8.19	8.41	8.47	8.47	8.56	8.69	8.76	8.88	8.69	8.69	8.89	9.03	9.16	9.25
Aa.....do.....	8.75	8.24	8.40	8.59	8.65	8.66	8.73	8.84	8.95	9.07	8.96	8.92	9.07	9.24	9.33	9.48
A.....do.....	9.09	8.49	8.57	8.76	8.79	8.83	8.93	9.05	9.18	9.33	9.18	9.11	9.26	9.48	9.53	9.72
Baa.....do.....	9.75	8.97	8.99	9.17	9.20	9.22	9.32	9.49	9.60	9.60	9.48	9.42	9.59	9.83	9.94	10.13
By group:																
Industrials.....do.....	8.84	8.28	8.42	8.60	8.65	8.66	8.72	8.84	8.92	9.05	8.95	8.90	9.03	9.21	9.31	9.44
Public utilities.....do.....	9.17	8.58	8.65	8.87	8.90	8.93	9.05	9.19	9.33	9.38	9.21	9.17	9.37	9.58	9.67	9.85
Railroads.....do.....	8.85	8.13	8.10	8.20	8.32	8.41	8.49	8.60	8.68	8.70	8.72	8.68	8.74	9.01	9.15	9.21
Domestic municipal:																
Bond Buyer (20 bonds).....do.....	6.56	5.67	5.66	5.63	5.63	5.69	5.89	6.19	6.29	6.12	6.16	6.09	6.22	6.29	6.61	6.25
Standard & Poor's Corp. (15 bonds).....do....	6.49	5.56	5.48	5.60	5.51	5.49	5.71	5.97	6.13	6.18	5.98	5.93	5.95	6.03	6.33	6.25
U.S. Treasury bonds, taxable ^o.....do.....	6.78	7.06	7.23	7.50	7.60	7.63	7.74	7.87	7.94	8.09	7.87	7.82	8.07	8.16	8.36	8.43
Stocks																
Dividend rates, prices, yields, and earnings, common stocks (Moody's):																
Dividends per share, annual rate, composite																
dollars.....	(1)															
Industrials.....do.....																
Public utilities.....do.....																
Railroads.....do.....																
N.Y. banks.....do.....																
Property and casualty insurance cos.....do....																
Price per share, end of mo., composite.....do....																
Industrials.....do.....	(1)															
Public utilities.....do.....																
Railroads.....do.....																
Yields, composite.....percent.....																
Industrials.....do.....	(1)															
Public utilities.....do.....																
Railroads.....do.....																
N.Y. banks.....do.....																
Property and casualty insurance cos.....do....																
Earnings per share (indust., qtrly. at ann. rate; pub. util. and RR., for 12 mo. ending each qtr.):																
dollars.....	(1)															
Industrials.....do.....																
Public utilities.....do.....																
Railroads.....do.....																
Dividend yields, preferred stocks, 10 high-grade (Standard & Poor's Corp.).....percent.....																
	7.98	7.61	7.85	7.92	7.99	8.07	8.06	8.11	8.31	8.42	8.26	8.24	8.29	8.43	8.84	8.79
Prices:																
Dow-Jones averages (65 stocks).....																
Industrial (30 stocks).....	303.91	301.70	283.84	273.04	267.80	265.75	276.65	288.45	288.53	287.85	306.73	305.26	294.58	261.61	274.87	283.85
Public utility (15 stocks).....	974.92	894.62	818.80	781.09	763.57	756.24	794.66	838.56	840.26	831.71	887.93	878.64	857.69	767.73	807.94	837.39
Transportation (20 stocks).....	92.28	110.96	111.45	106.97	104.32	105.48	105.85	104.85	105.48	105.54	108.51	106.67	103.88	93.93	99.38	102.24
	214.03	225.16	214.02	209.90	208.14	204.50	214.50	225.96	224.33	227.06	248.96	250.25	234.64	202.30	211.12	216.85
Standard & Poor's Corporation: ^o																
Combined index (500 Stocks).....1941-43=10...																
Industrial, total (400 Stocks) [¶]do....	102.01	98.20	93.82	90.25	88.98	88.82	92.71	97.41	97.66	97.19	103.92	103.86	100.58	94.71	96.11	99.71
Capital goods (111 Stocks).....do.....	114.35	108.44	103.13	99.34	97.95	97.65	102.07	107.70	107.96	107.39	114.99	115.11	111.56	105.23	106.92	111.15
Consumer goods (189 Stocks).....do.....	115.52	106.79	101.36	99.43	96.25	93.12	97.86	104.69	106.36	105.16	115.19	113.94	111.37	103.38	105.82	112.08
Utilities (40 Stocks).....do.....	92.73	85.27	82.89	80.14	79.11	78.68	82.69	86.84	87.51	86.68	92.45	91.30	88.00	81.71	82.53	84.42
Transportation (20 Stocks)*.....1970=10...	48.16	54.23	54.54	52.40	51.60	51.72	52.16	51.71	52.25	52.32	53.35	52.54	51.28	49.04	49.32	50.33
Railroads (10 Stocks)*.....1941-43=10...	14.17	14.06	13.34	13.13	12.91	12.70	13.30	14.01	13.88	14.00	15.41	15.46	14.62	13.17	13.10	13.46
Financial (40 Stocks)*.....1970=10...	45.87	49.94	46.46	46.13	44.69	43.61	44.77	46.05	44.92	43.97	47.26	48.19	47.63	43.56	43.37	44.45
New York City banks (6 Stocks).....1941-43=10...	11.46	11.63	11.15	10.46	10.33	10.50	11.20	11.87	11.87	11.75	12.85	12.76	12.23	11.21	11.36	11.68
Banks outside N.Y.C. (10 Stocks).....do....	52.14	47.34	41.63	40.32	38.74	38.66	42.04	45.20	44.85	43.62	48.02	48.01	48.13	43.61	43.19	44.12
Property-Casualty Insurance (6 Stocks).....do....	97.96	98.23	93.73	90.14	89.56	90.36	97.09	102.28	101.70	100.76	113.19	114.25	111.80	99.93	100.78	102.32
	105.01	112.42	108.45	101.86	99.37	101.01	107.52	107.88	108.43	106.90	117.48	115.64	110.98	101.35	105.07	108.73

* Revised. ¹ No longer available. [§] Revised yields by rating for Jan. 1974-Nov. 1975 will be shown later. ^o Number of issues represents number currently used; the change in number does not affect continuity of the series. [¶] Prices are derived from average yields on basis of an assumed 3 percent 20-year bond. [¶] For bonds due or callable in 10 years or more. [¶] Includes data not shown separately. * New series.

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FINANCE—Continued

SECURITY MARKETS—Continued																
Stocks—Continued																
Prices—Continued																
New York Stock Exchange common stock indexes:																
Composite 12/31/65=50																
Industrial.....do.....	54.46	53.69	51.83	49.89	49.41	49.50	51.75	54.49	54.83	54.61	58.53	58.58	56.40	52.74	53.69	55.77
Transportation.....do.....	60.44	57.86	55.55	53.45	52.80	52.77	55.48	59.14	59.63	59.35	64.07	64.23	61.60	57.50	58.72	61.31
Utility.....do.....	39.57	41.08	39.75	39.15	38.90	38.95	41.19	44.21	44.19	44.74	49.45	50.19	46.70	41.80	42.49	43.69
Finance.....do.....	36.97	40.92	40.36	39.09	39.02	39.26	39.09	39.47	39.41	39.28	40.20	39.82	39.44	37.88	38.09	38.79
.....do.....	52.94	55.25	53.85	50.91	50.60	51.44	55.04	57.96	58.31	57.97	63.28	63.22	60.42	54.95	55.68	57.59
Sales:																
Total on all registered exchanges (SEC):																
Market value.....mil. \$	194,969	187,203	15,953	14,442	11,889	15,794	20,335	27,367	24,391	18,318	30,452	27,342	22,016			
Shares sold.....millions	17,036	7,023	637	568	482	639	802	1,041	923	669	1,099	1,016	801			
On New York Stock Exchange:																
Market value.....mil. \$	164,545	157,250	13,376	12,334	9,990	13,289	17,316	23,486	20,557	15,229	26,123	22,302	18,476			
Shares sold (cleared or settled).....millions	15,649	6,613	504	462	387	510	650	848	744	534	895	790	639			
New York Stock Exchange:																
Exclusive of odd-lot and stopped stock sales (sales effected).....millions	5,360	5,274	451	428	369	498	696	776	671	541	865	672	682	515	493	616
Shares listed, N.Y. Stock Exchange, end of period:																
Market value, all listed shares.....bil. \$	858.30	796.64	796.64	750.45	737.55	760.31	820.76	829.63	818.95	864.13	890.57	883.85	792.03	811.60	822.74	858.65
Number of shares listed.....millions	24,500	26,093	26,093	26,153	26,276	26,388	26,411	26,588	26,736	26,940	27,012	27,152	27,243	27,401	27,573	27,626

FOREIGN TRADE OF THE UNITED STATES

VALUE OF EXPORTS																
Exports (mdse.), incl. reexports, total ¹.....mil. \$	115,339.9	121,212.3	11,399.9	9,366.9	9,518.5	12,079.4	12,069.7	12,494.6	12,487.3	10,944.7	11,621.8	12,714.4	13,157.4	13,672.3	13,532.9	12,561.3
Excl. Dept. of Defense shipments.....do.....	115,149.8	121,150.4	11,396.1	9,364.4	9,514.6	12,074.2	12,064.2	12,478.9	12,477.3	10,934.0	11,613.9	12,713.1	13,153.6	13,655.4	13,531.0	12,558.1
Seasonally adjusted ².....do.....			11,115.6	9,363.7	9,945.0	11,146.5	11,630.4	11,736.0	12,268.0	11,661.5	12,293.7	13,274.2	12,901.1	13,450.6	13,282.5	13,133.3
By geographic regions:																
Africa.....do.....	5,205.6	5,545.6	518.9	372.1	415.8	529.3	582.7	510.5	567.1	544.4	435.2	486.6	510.2	427.3	504.3	
Asia.....do.....	29,728.5	31,428.9	3,277.8	2,463.4	2,578.5	3,366.1	3,174.2	3,297.0	3,390.2	3,209.4	3,346.8	3,589.0	3,583.3	3,720.0	3,910.3	
Australia and Oceania.....do.....	2,689.9	2,876.5	289.7	224.4	203.0	253.2	233.2	293.6	289.7	256.8	260.6	355.8	354.7	433.2	303.9	
Europe.....do.....	35,900.6	36,296.0	3,557.5	3,010.1	2,996.0	3,723.9	3,846.8	2,726.0	3,690.2	3,076.2	3,467.7	3,829.2	3,786.4	4,308.4	4,154.0	
Northern North America.....do.....	24,111.0	25,752.1	1,995.9	1,858.1	1,945.5	2,412.0	2,451.8	2,654.7	2,612.6	1,995.5	2,143.8	2,397.0	2,806.0	2,583.7	2,512.3	
Southern North America.....do.....	8,368.0	8,660.5	851.8	691.7	729.7	898.4	867.7	926.4	922.7	868.9	969.9	956.6	1,033.1	1,109.6	1,051.6	
South America.....do.....	8,595.4	9,274.8	891.6	747.1	649.5	896.0	840.0	970.8	932.2	927.9	901.6	1,047.4	981.2	1,023.5	1,072.6	
By leading countries:																
Africa:																
Egypt.....do.....	810.0	982.4	86.2	55.3	82.6	111.4	129.6	75.2	118.9	110.7	80.8	86.7	86.6	80.6	115.6	
Republic of South Africa.....do.....	1,347.6	1,054.4	81.1	67.0	75.6	81.5	91.5	94.5	89.5	76.1	90.7	92.2	118.0	90.6	112.3	
Asia; Australia and Oceania:																
Australia, including New Guinea.....do.....	2,199.2	2,375.6	244.2	191.2	172.8	209.8	193.0	249.7	243.2	219.4	216.4	312.5	296.6	382.7	254.7	
India.....do.....	1,135.8	778.6	92.4	72.7	90.1	75.9	75.8	65.8	128.8	84.7	70.1	86.7	49.0	63.6	84.7	
Pakistan.....do.....	394.3	292.7	9.3	17.2	47.0	72.9	46.8	35.5	30.2	16.3	40.0	54.8	48.9	21.1	64.9	
Malaysia.....do.....	535.6	560.7	53.6	49.6	52.4	59.7	54.8	56.6	58.4	72.6	59.4	70.9	69.5	58.0	66.4	
Indonesia.....do.....	1,084.6	763.2	62.3	79.3	70.5	69.1	57.6	55.2	89.3	59.2	53.8	56.2	60.0	48.1	53.1	
Philippines.....do.....	818.2	875.9	85.5	57.4	84.7	79.4	76.6	90.0	91.8	88.2	87.3	88.8	87.1	109.3	99.6	
Japan.....do.....	10,144.7	10,522.1	1,068.1	743.2	869.4	1,015.9	969.9	1,009.3	1,046.1	1,046.7	1,092.3	1,193.5	1,248.9	1,369.1	1,280.8	
Europe:																
France.....do.....	3,446.3	3,508.2	318.3	271.2	294.1	325.3	340.8	325.1	338.6	280.1	415.2	395.5	373.9	431.4	375.2	
German Democratic Republic (formerly E. Germany).....mil. \$	64.9	36.1	1.6	13.9	9.5	5.6	2.2	18.8	21.5	.3	11.5	15.4	17.2	30.6	23.7	
Federal Republic of Germany (formerly W. Germany).....mil. \$	5,730.8	5,982.0	590.2	447.1	462.5	625.4	544.3	493.2	518.3	472.7	542.2	802.6	668.4	694.7	685.4	
Italy.....do.....	3,071.1	2,787.5	252.4	211.7	217.3	280.6	299.2	291.8	342.5	258.0	222.6	275.1	302.0	286.5	373.0	
Union of Soviet Socialist Republics.....do.....	2,309.6	1,627.5	173.4	155.2	197.3	241.7	308.3	356.5	265.4	170.9	163.0	97.0	96.5	79.4	121.2	
United Kingdom.....do.....	4,801.2	5,380.1	556.0	550.5	488.4	635.1	791.2	533.7	574.2	460.6	534.0	575.9	593.1	761.5	620.6	
North and South America:																
Canada.....do.....	24,106.4	25,748.8	1,995.8	1,858.0	1,945.1	2,411.9	2,451.8	2,654.6	2,612.5	1,995.4	2,143.8	2,396.9	2,805.9	2,583.6	2,512.1	
Latin American Republics, total ³.....do.....	15,487.4	16,346.5	1,593.3	1,304.4	1,263.3	1,631.6	1,562.6	1,729.2	1,708.2	1,662.7	1,720.5	1,843.7	1,853.9	1,952.3	1,950.5	
Argentina.....do.....	543.7	731.1	73.3	56.0	46.5	53.0	60.5	70.0	55.1	73.3	67.5	76.2	83.1	79.3	121.3	
Brazil.....do.....	2,808.8	2,482.3	211.6	234.8	165.0	237.8	224.1	266.0	275.7	251.8	278.6	239.1	289.2	253.8		
Chile.....do.....	507.7	520.2	49.7	32.6	35.4	38.5	42.5	56.2	64.4	76.3	69.5	77.2	70.7	71.1	90.3	
Colombia.....do.....	702.7	782.0	79.8	65.2	59.9	81.7	87.4	73.3	78.4	73.3	81.0	96.1	122.7	111.1	116.1	
Mexico.....do.....	4,990.0	4,806.1	490.5	379.3	425.4	515.2	505.0	535.2	547.9	543.3	597.9	598.8	663.2	705.3	663.9	
Venezuela.....do.....	2,627.8	3,170.5	316.7	256.9	214.7	336.0	301.5	357.0	338.6	289.6	292.3	375.9	316.3	327.6	320.4	
Exports of U.S. merchandise, total ⁴.....do.....	113,666.0	119,005.5	11,201.5	9,216.6	9,341.7	11,835.8	11,859.6	12,250.0	12,271.7	10,780.0	11,429.3	12,505.7	12,926.4	13,433.5	13,303.9	12,352.5
Excluding military grant-aid.....do.....	113,475.9	118,943.7	11,197.7	9,214.1	9,337.8	11,830.5	11,854.1	12,234.3	12,261.7	10,769.4	11,421.4	12,504.4	12,922.6	13,416.5	13,302.1	12,349.4
Agricultural products, total.....do.....	22,997.6	23,671.0	2,323.9	1,943.5	2,068.1	2,519.4	2,508.0	2,729.3	2,639.8	2,133.8	2,391.1	2,268.0	2,665.8	2,806.7	2,738.3	
Nonagricultural products, total.....do.....	90,320.9	94,291.8	8,807.6	7,273.1	7,273.6	9,316.4	9,351.6	9,520.7	9,631.9	8,646.2	9,038.2	10,237.7	10,260.6	10,626.8	10,565.6	
By commodity groups and principal commodities:																
Food and live animals ⁵.....mil. \$	15,710.1	14,115.7	1,348.2	1,132.7	1,271.5	1,465.7	1,472.8	1,684.2	1,737.1	1,540.6	1,716.2	1,645.7	1,597.9	1,513.7	1,555.2	1,313.3
Meats and preparations (incl. poultry).....do.....	798.0	796.9	77.5	63.8	62.2	75.3	78.1	77.6	74.1	64.8	90.7	93.2	94.4	95.0	88.6	
Grains and cereal preparations.....do.....	10,910.9	8,754.8	856.9	657.1	819.8	920.1	942.7	1,168.0	1,193.0	1,008.5	1,107.2	1,049.2	937.8	885.2	945.4	
Beverages and tobacco.....do.....	1,523.5	1,846.8	282.6	138.0	168.0	213.6	144.3	143.6	141.5	161.6	213.3	176.9	251.3	281.1	259.7	135.4
Crude materials, inedible, exc. fuels ⁶.....do.....	10,890.7	13,086.3	1,179.6	1,049.8	1,063.4	1,337.5	1,388.6	1,466.5	1,353.9	992.5	1,083.4	1,111.9	1,470.4	1,678.4	1,556.5	1,550.4
Cotton, raw, excl. linters and waste.....do.....	1,048.7	1,529.5	156.6	157.6	145.6	203.8	182.8	143.8	154.2	132.2	153.7	114.4	84.7	112.5	154.3	
Soybeans, exc. canned or prepared.....do.....	3,315.4	4,393.2	355.3	323.0	334.2	431.5	513.3	583.4	468.2	2						

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FOREIGN TRADE OF THE UNITED STATES—Continued

VALUE OF EXPORTS—Continued																
Exports of U.S. merchandise—Continued																
By commodity groups and principal commodities—Continued																
Mineral fuels, lubricants, etc. ♀	4,225.8	4,163.6	315.3	1,188.9	141.0	165.2	284.5	363.6	424.0	321.7	335.4	348.0	422.1	465.9	417.9	350.2
Coal and related products	2,988.2	2,730.4	181.0	52.8	37.1	24.5	184.7	235.1	289.8	180.2	181.7	176.7	256.1	317.8	236.3	
Petroleum and products	997.6	1,275.6	118.0	115.8	86.4	119.4	137.6	112.9	121.1	118.9	139.1	156.8	152.7	137.3	163.3	
Oils and fats, animal and vegetable	978.1	1,308.7	116.0	96.0	97.2	141.5	145.4	119.3	132.1	130.7	120.9	156.3	113.9	121.0	147.0	145.8
Chemicals	9,958.7	10,812.3	1,037.4	1,830.2	883.2	1,031.1	971.3	1,018.7	1,063.4	1,077.2	1,149.1	1,197.9	1,085.0	1,174.4	1,137.0	1,235.6
Manufactured goods ♀ †	11,206.1	10,857.0	977.1	1,829.9	848.4	1,067.7	988.7	1,100.4	1,092.5	939.5	1,024.7	1,132.5	1,120.8	1,134.3	1,186.7	1,121.5
Textiles	1,970.9	1,958.9	185.5	142.7	140.6	173.4	171.1	192.9	189.7	164.2	180.9	202.5	212.6	230.9	224.0	
Iron and steel	1,906.8	1,660.5	136.7	113.0	120.2	136.0	129.0	146.6	152.8	129.4	149.3	149.7	164.3	149.0	174.7	
Nonferrous base metals	1,088.4	1,058.4	103.3	59.5	72.5	84.6	73.3	86.2	88.6	80.7	86.1	119.1	88.2	104.4	104.7	
Machinery and transport equipment, total mil. \$	49,501.2	50,247.6	4,768.7	3,852.0	3,041.9	5,144.4	5,098.2	5,132.2	5,075.2	4,486.8	4,599.8	5,142.1	5,586.4	5,497.3	5,714.2	5,040.4
Machinery, total ♀	31,290.8	32,516.6	3,064.7	2,465.2	2,546.5	3,289.7	3,127.9	3,239.3	3,088.0	2,912.3	2,933.3	3,211.4	3,358.1	3,296.7	3,553.8	
Agricultural	2,107.7	1,871.1	159.3	132.8	174.4	222.9	224.5	221.2	196.3	166.3	146.0	148.4	158.4	167.3	193.0	
Metalworking	949.2	730.3	73.8	86.3	82.7	113.1	112.4	85.2	102.4	92.5	102.8	89.0	100.0	100.4	121.5	
Construction, excav. and mining	4,945.3	4,405.5	404.7	61.1	58.7	66.5	59.8	62.7	56.4	51.2	47.5	49.0	50.7	52.3	66.0	
Electrical	9,278.5	10,285.3	971.2	467.0	483.8	597.4	587.7	616.2	591.1	549.1	581.8	624.4	628.4	603.5	636.3	
Transport equipment, total	18,210.4	18,520.0	1,787.3	1,386.8	1,395.4	1,854.7	1,970.3	1,892.9	1,987.1	1,574.5	1,666.4	1,930.7	2,228.3	2,200.6	2,160.3	
Motor vehicles and parts	10,954.2	11,796.5	995.8	903.3	948.2	1,181.6	1,203.7	1,247.3	1,201.9	873.2	878.5	1,124.4	1,330.3	1,207.2	1,135.4	
Miscellaneous manufactured articles	6,574.9	8,233.9	741.8	1,665.6	689.6	878.5	854.6	908.8	857.2	777.9	855.9	891.3	953.6	936.0	921.9	873.2
Commodities not classified	2,749.4	4,313.6	434.8	1,433.6	237.5	390.4	511.1	312.8	395.0	351.6	330.6	703.0	325.1	631.3	407.9	586.8
VALUE OF IMPORTS																
General imports, total	121,008.6	147,685.0	13,372.0	12,717.7	13,286.4	14,547.3	14,486.0	14,199.2	14,514.5	14,703.9	14,024.0	14,416.9	15,118.3	15,054.9	14,956.3	15,846.3
Seasonally adjusted Ⓞ			13,334.6	13,102.6	14,259.5	14,004.1	14,491.5	14,008.5	13,970.3	14,544.7	14,132.6	14,819.7	14,851.6	14,824.7	15,031.8	16,231.1
By geographic regions:																
Africa	12,644.0	17,023.9	1,476.6	1,388.2	1,325.3	1,409.8	1,407.2	1,310.5	1,261.2	1,355.6	1,430.7	1,465.4	1,425.0	1,637.7	1,481.6	
Asia	39,366.8	49,421.7	4,503.6	4,234.1	4,565.8	4,702.6	4,924.2	4,640.3	5,015.7	5,148.7	5,153.2	5,089.6	5,092.3	4,863.0	4,872.8	
Australia and Oceania	1,671.2	1,719.6	215.0	121.5	178.0	174.9	209.6	192.4	201.7	198.4	176.8	176.8	209.9	252.9	200.6	
Europe	23,645.6	28,330.9	2,783.4	2,759.7	2,875.1	3,443.1	3,285.3	3,088.5	3,155.7	3,421.2	3,140.0	2,904.6	3,321.3	3,293.9	3,298.8	
Northern North America	26,246.8	29,375.4	2,573.5	2,260.3	2,562.9	2,806.2	2,780.3	3,049.8	2,991.2	2,665.3	2,376.2	2,759.4	3,116.9	3,030.4	3,051.5	
Southern North America	9,348.9	11,590.7	990.0	1,047.1	1,022.0	1,067.5	1,008.2	1,074.4	1,074.1	1,049.9	1,005.2	1,056.8	1,024.0	1,075.7	1,117.6	
South America	7,760.6	9,343.1	764.4	806.2	756.5	942.4	870.6	842.5	816.3	864.2	741.1	906.6	928.0	900.9	932.4	
By leading countries:																
Africa:																
Egypt	92.5	170.0	2.1	1.0	.6	15.6	2.0	10.5	3.4	8.9	1.7	15.3	4.8	14.1	27.2	
Republic of South Africa	924.8	1,268.8	155.7	126.5	154.4	186.4	141.7	189.4	146.3	148.6	169.1	228.1	208.0	349.8	210.7	
Asia; Australia and Oceania:																
Australia, including New Guinea	1,285.7	1,264.2	155.3	96.8	136.2	128.5	152.4	139.7	143.8	139.2	137.9	166.5	155.1	190.2	142.2	
India	708.3	781.1	66.1	63.6	73.1	110.5	90.8	88.0	78.3	81.6	91.7	83.6	85.6	75.8	56.9	
Pakistan	69.8	57.0	5.3	5.3	3.4	6.0	7.2	7.7	7.4	9.2	6.5	6.6	10.2	7.9	6.4	
Malaysia	939.6	1,321.6	130.8	86.4	96.6	141.6	121.6	120.1	154.9	119.4	149.8	143.5	120.3	125.9	138.8	
Indonesia	3,004.3	3,491.3	283.3	209.9	290.4	312.9	338.5	225.1	358.5	346.4	314.9	291.5	305.9	277.3	335.6	
Philippines	882.9	1,103.2	119.1	81.7	90.4	86.6	85.4	96.5	97.6	101.8	108.9	118.1	110.9	109.9	114.2	
Japan	15,504.2	18,622.7	1,807.1	1,784.4	1,842.4	2,103.7	2,181.9	2,010.1	2,048.9	2,217.2	2,065.5	2,064.8	2,120.4	2,024.6	1,993.9	
Europe:																
France	2,508.8	3,030.7	300.2	290.9	301.3	361.8	376.3	361.2	316.3	396.1	321.6	278.7	337.6	349.3	362.6	
German Democratic Republic (formerly E. Germany)	13.6	16.7	2.6	4.0	1.5	4.8	4.1	3.5	1.2	2.5	4.1	2.6	2.7	2.2	2.2	
Federal Republic of Germany (formerly W. Germany)	5,592.0	7,215.3	771.3	767.2	775.2	876.6	875.3	758.6	780.8	940.3	839.4	704.8	836.4	910.3	896.0	
Italy	2,529.8	3,037.5	279.0	274.0	243.6	360.6	344.6	335.4	357.7	376.2	391.0	326.6	343.2	375.5	374.2	
Union of Soviet Socialist Republics	220.2	234.4	12.5	25.4	20.8	98.2	57.1	13.6	46.1	21.6	54.6	23.1	110.5	37.5	31.9	
United Kingdom	4,254.3	5,067.9	472.0	457.4	506.1	566.4	553.8	568.1	597.6	553.0	537.7	529.8	576.8	533.8	532.8	
North and South America:																
Canada	26,237.1	29,355.7	2,572.4	2,360.2	2,562.6	2,802.4	2,777.6	3,047.4	2,988.4	2,664.7	2,372.8	2,757.9	3,115.5	3,028.7	3,051.1	
Latin American Republics, total ♀																
Argentina	13,228.3	16,335.3	1,445.8	1,485.8	1,396.8	1,592.8	1,509.3	1,546.8	1,507.8	1,538.7	1,378.2	1,571.9	1,639.0	1,643.9	1,749.1	
Brazil	307.9	383.3	43.2	30.0	41.7	49.7	49.7	54.5	47.3	52.6	43.1	56.6	49.8	47.5	49.0	
Chile	1,736.6	2,245.9	223.6	227.3	199.5	216.2	231.6	256.0	215.2	265.2	176.7	207.8	283.9	264.8	287.3	
Colombia	221.6	260.8	33.6	38.6	35.2	31.1	56.0	39.5	35.7	32.1	18.9	25.7	32.7	22.8	17.0	
Mexico	654.8	821.6	86.1	70.7	89.1	90.3	66.3	68.9	81.4	70.4	85.6	111.5	124.1	104.6	80.9	
Venezuela	3,598.1	4,684.8	451.0	498.1	446.6	451.0	460.9	511.8	480.5	471.5	495.4	521.6	531.2	583.0	641.1	
Other	3,574.4	4,071.9	252.7	295.8	249.4	411.0	343.7	268.4	286.2	260.6	248.3	329.6	271.4	272.5	308.2	
By commodity groups and principal commodities:																
Agricultural products, total	11,179.3	13,538.3	1,309.8	1,239.9	1,245.1	1,405.7	1,346.7	1,290.5	1,168.3	1,192.9	1,021.2	1,107.9	1,231.0	1,302.2	1,409.3	
Nonagricultural products, total	109,510.4	133,278.4	11,997.4	11,477.8	12,041.3	13,141.6	13,139.4	12,908.7	13,346.1	13,511.0	13,002.8	13,309.1	13,887.3	13,752.7	13,547.0	
Food and live animals ♀																
Cocoa beans	10,267.6	12,557.8	1,294.6	1,126.9	1,111.4	1,257.5	1,161.5	1,143.4	1,045.9	1,128.1	924.0	1,048.9	1,152.2	1,168.7	1,254.1	1,278.3
Coffee	357.9	485.5	23.0	68.9	67.0	92.2	53.3	54.8	38.8	46.8	43.5	23.0	40.4	63.7	74.5	
Meats and preparations	2,632.3	3,860.9	316.0	414.4	380.9	383.6	345.0	285.8	256.5	259.9	210.1	238.6	329.5	317.0	306.5	
Sugar	1,447.0	1,273.2	157.5	107.6	124.6	148.4	171.0	155.3	155.0	153.2	125.7	158.5	175.3	199.2	182.1	
Sugar	1,154.0	1,079.1	185.4	52.2	32.4	43.6	14.5	59.7	69.2	110.4	59.8	97.1	65.4	59.4	59.4	
Beverages and tobacco	1,623.7	1,669.4	159.8	138.1	162.4	174.7	201.5	189.2	212.7	177.4	170.2	168.2	211.5	209.6	205.9	204.8
Crude materials, inedible, exc. fuels ♀																

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
FOREIGN TRADE OF THE UNITED STATES—Continued																
VALUE OF IMPORTS—Continued																
General imports—Continued																
By commodity groups and principal commodities—Continued																
Machinery and transport equipment.....mil. \$	29,824.7	36,406.8	3,643.1	3,392.7	3,573.2	4,050.7	4,085.5	4,020.4	4,132.9	4,108.2	3,578.5	3,832.0	4,294.6	4,238.3	4,318.7	4,515.9
Machinery, total ¹.....do.....	15,184.5	17,663.8	1,668.8	1,619.9	1,751.8	1,979.7	2,003.1	2,011.6	2,073.3	2,217.6	2,046.5	2,077.1	2,277.2	2,162.8	2,183.3	-----
Metalworking.....do.....	362.1	433.5	46.7	69.3	67.8	75.2	73.8	80.5	69.5	86.4	91.0	82.1	76.8	80.8	93.5	-----
Electrical.....do.....	7,424.3	8,432.0	763.9	335.0	349.8	407.7	408.4	411.5	446.4	465.2	453.3	467.7	494.0	451.1	480.6	-----
Transport equipment.....do.....	14,640.2	17,829.9	1,766.3	1,772.7	1,821.4	2,071.0	2,082.3	2,008.8	2,059.6	1,890.6	1,532.0	1,754.9	2,017.4	2,075.5	2,135.4	-----
Automobiles and parts.....do.....	13,104.0	15,842.0	1,535.4	1,556.6	1,574.6	1,854.8	1,854.4	1,776.3	1,840.3	1,676.3	1,361.0	1,547.1	1,817.8	1,889.0	1,891.2	-----
Miscellaneous manufactured articles.....do.....	12,564.1	13,809.4	1,305.4	1,227.9	1,293.7	1,511.1	1,439.7	1,460.0	1,651.5	1,782.5	1,756.5	1,751.9	1,827.1	1,799.9	1,560.3	1,619.7
Commodities not classified.....do.....	2,537.7	3,335.7	327.2	328.4	253.5	369.2	334.8	316.0	335.2	327.0	323.6	304.2	383.3	321.4	384.4	309.4
Indexes																
Exports (U.S. mdse., excl. military grant-aid):																
Unit value.....1967=100.....do.....	202.1	211.8	215.4	219.9	219.6	219.4	223.0	224.0	232.2	231.3	234.2	238.8	237.3	248.1	250.7	-----
Quantity.....do.....	182.7	202.3	164.1	162.8	162.8	211.1	208.2	213.9	206.8	182.3	190.9	205.0	213.3	211.7	207.8	-----
Value.....do.....	369.1	384.7	435.7	360.8	357.5	463.3	464.2	479.0	408.1	421.7	447.2	489.6	506.1	525.3	520.9	-----
General imports:																
Unit value.....do.....	248.8	269.2	271.1	280.7	281.2	289.4	290.3	292.6	293.6	293.3	295.0	294.3	296.3	303.9	300.9	-----
Quantity.....do.....	182.1	204.2	220.6	203.6	212.8	226.4	224.5	218.4	222.3	225.1	213.4	220.5	228.7	222.8	222.9	-----
Value.....do.....	452.9	549.8	598.0	571.6	598.3	655.2	651.9	639.1	652.7	660.4	629.6	649.0	677.7	677.0	670.6	-----
Shipping Weight and Value																
Waterborne trade:																
Exports (incl. reexports):																
Shipping weight.....thous. sh. tons	283,070	274,413	24,594	18,144	18,930	21,712	24,142	28,057	29,487	24,969	26,001	26,260	26,536	-----	-----	-----
Value.....mil. \$	64,712	65,376	6,371	4,947	5,108	6,431	6,313	6,912	6,842	5,989	6,385	6,646	6,958	-----	-----	-----
General imports:																
Shipping weight.....thous. sh. tons	517,450	612,798	56,856	44,640	45,952	47,200	47,681	47,176	47,840	50,703	53,652	56,196	49,811	-----	-----	-----
Value.....mil. \$	81,171	103,037	10,620	8,680	9,132	9,680	9,838	9,400	9,657	10,143	9,880	9,780	9,850	-----	-----	-----

TRANSPORTATION AND COMMUNICATION

TRANSPORTATION																
Air Carriers (Scheduled Service)																
Certificated route carriers:																
Passenger-miles (revenue).....bil.	178.99	194.75	17.04	16.62	14.51	18.45	17.58	17.96	20.51	22.48	23.70	19.03	18.81	17.75	-----	-----
Passenger-load factor ¹.....percent	55.4	56.2	57.4	56.8	55.1	60.6	59.9	62.1	67.6	68.9	71.1	60.2	58.2	57.3	-----	-----
Ton-miles (revenue), total ².....mil.	24,121	26,100	2,315	2,143	1,948	1,460	2,344	2,363	2,630	2,811	2,972	2,515	2,536	2,414	-----	-----
Operating revenues (quarterly) ³.....mil. \$	17,503	19,925	5,169	-----	-----	5,115	-----	-----	5,708	-----	-----	6,308	-----	-----	-----	-----
Passenger revenues.....do.....	14,266	16,274	4,153	-----	-----	4,226	-----	-----	4,660	-----	-----	5,230	-----	-----	-----	-----
Cargo revenues.....do.....	1,497	1,719	494	-----	-----	432	-----	-----	492	-----	-----	520	-----	-----	-----	-----
Mail revenues.....do.....	326	390	154	-----	-----	89	-----	-----	90	-----	-----	86	-----	-----	-----	-----
Operating expenses (quarterly) ³.....do.....	16,781	19,017	4,957	-----	-----	5,011	-----	-----	5,258	-----	-----	5,603	-----	-----	-----	-----
Net income after taxes (quarterly) ³.....do.....	451	731	127	-----	-----	63	-----	-----	405	-----	-----	629	-----	-----	-----	-----
Domestic operations:																
Passenger-miles (revenue).....bil.	145.27	156.61	14.01	13.42	12.03	15.32	14.32	14.46	16.53	17.74	18.93	14.78	15.03	14.44	14.03	13.62
Cargo ton-miles.....mil.	2,909	3,125	271	236	251	309	293	293	300	281	316	308	323	309	-----	-----
Mail ton-miles.....do.....	719	751	87	62	60	74	68	68	64	59	65	65	66	67	-----	-----
Operating revenues (quarterly) ³.....mil. \$	13,899	15,821	4,145	-----	-----	4,151	-----	-----	4,556	-----	-----	4,902	-----	-----	-----	-----
Operating expenses (quarterly) ³.....do.....	13,324	15,165	3,979	-----	-----	4,053	-----	-----	4,205	-----	-----	4,406	-----	-----	-----	-----
Net income after taxes (quarterly) ³.....do.....	331	497	107	-----	-----	67	-----	-----	311	-----	-----	433	-----	-----	-----	-----
International operations:																
Passenger-mile (revenue).....bil.	33.72	36.61	3.04	3.20	2.49	3.12	3.25	3.50	3.98	4.73	4.78	4.25	3.78	3.13	-----	-----
Cargo ton-miles.....mil.	2,187	2,302	209	220	158	199	193	177	187	197	193	211	234	226	-----	-----
Mail ton-miles.....do.....	407	397	43	28	27	33	32	30	28	27	28	29	32	37	-----	-----
Operating revenues (quarterly) ³.....mil. \$	3,605	4,104	1,023	-----	-----	964	-----	-----	1,152	-----	-----	1,406	-----	-----	-----	-----
Operating expenses (quarterly) ³.....do.....	3,457	3,852	978	-----	-----	958	-----	-----	1,053	-----	-----	1,197	-----	-----	-----	-----
Net income after taxes (quarterly) ³.....do.....	120	234	20	-----	-----	-5	-----	-----	94	-----	-----	195	-----	-----	-----	-----
Urban Transit Systems																
Passengers carried (revenue).....mil.	5,600	5,979	492	615	610	691	616	670	654	571	619	646	684	652	-----	-----
Motor Carriers																
Carriers of property, large, class I, qtrly. ¹ :																
Number of reporting carriers.....	100	100	100	-----	-----	100	-----	-----	100	-----	-----	100	-----	-----	-----	-----
Operating revenues, total.....mil. \$	211,420	213,853	3,913	-----	-----	3,569	-----	-----	4,139	-----	-----	4,166	-----	-----	-----	-----
Net income, after extraordinary and prior period charges and credits.....mil. \$	2349	2452	126	-----	-----	46	-----	-----	153	-----	-----	154	-----	-----	-----	-----
Tonnage hauled (revenue), common and contract carrier service.....mil. tons	201	217	58	-----	-----	54	-----	-----	61	-----	-----	58	-----	-----	-----	-----
Freight carried—volume indexes, class I and II intercity truck tonnage (ATA):																
Common and contract carriers of property (qtrly.) ².....average same period, 1967=100	137	148	137	-----	-----	152	-----	-----	167	-----	-----	160	-----	-----	-----	-----
Common carriers of general freight, seas. adj. ³ 1967=100	152.3	166.2	172.9	162.6	175.9	177.3	192.5	182.8	178.5	177.6	177.6	184.3	188.5	-----	-----	-----
Class I Railroads ⁴																
Financial operations, qtrly. (AAR), excl. Amtrak:																
Operating revenues, total ⁵.....mil. \$	18,574	20,116	5,110	-----	-----	4,750	-----	-----	5,720	-----	-----	5,394	-----	-----	-----	-----
Freight.....do.....	17,433	18,916	4,798	-----	-----	4,440	-----	-----	5,368	-----	-----	5,015	-----	-----	-----	-----
Passenger, excl. Amtrak.....do.....	330	337	88	-----	-----	85	-----	-----	89	-----	-----	91	-----	-----	-----	-----
Operating expenses ⁶.....do.....	14,954	16,392	4,184	-----	-----	4,905	-----	-----	5,375	-----	-----	5,268	-----	-----	-----	-----
Tax accruals and rents.....do.....	3,152	3,377	828	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Net railway operating income.....do.....	468	347	98	-----	-----	-156	-----	-----	235	-----	-----	53	-----	-----	-----	-----
Net income (after taxes) ⁷.....do.....	1,273	284	199	-----	-----	-274	-----	-----	203	-----	-----	28	-----	-----	-----	-----

¹ Revised. ² Preliminary. ³ Before extraordinary and prior period items. ⁴ Annual total; quarterly revisions not available. ⁵ Beginning Jan. 1978, data are for total unlinked passenger trips; revenue passenger data no longer available. ⁶ Includes data not shown separately. ⁷ Applies to passengers, baggage, cargo, and mail carried. ⁸ Passenger-miles as a percent of available seat-miles in revenue service reflects proportion of seating capacity actually sold and utilized. ⁹ Total revenues, expenses, and income for all groups of carriers also reflect nonscheduled service. ¹⁰ New Series. Source: ICC (no comparable data prior to 1972).

¹¹ Indexes are comparable for the identical quarter of each year (and from year to year). ¹² Effective 1976, defined as those with annual revenues of \$50 million or more; restated 1977 data reflect changes. ¹³ Natl. Railroad Pass. Corp. (Amtrak) operations (not included in AAR data above), 1975 and 1976 (mil. \$): Oper. revenues, 235; 287; net loss, 353; 469 (ICC). ¹⁴ Domestic trunk operations only (domestic trunks average about 90% of total domestic operations). ¹⁵ See note 2 for p. S-22. ¹⁶ Effective Mar. 1977 SURVEY, revised back to 1957 to new trading day and seas. adj. factors.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

TRANSPORTATION AND COMMUNICATION—Continued

TRANSPORTATION—Continued																
Class I Railroads—Continued																
Traffic:																
Ton-miles of freight (net), total, qtrly.....bil.	822.5	862.6	219.2				192.7			235.8						
Revenue ton-miles, qtrly. (AAR).....do.	794.1	826.2	208.6				188.5			203.4			210.5			237.9
Revenue per ton-mile.....cents.	2.196	2.289	2.294													
Price index for railroad freight.....1969=100.	186.6	199.1	207.7	207.6	207.6	207.7	207.8	207.9	208.2	215.2	215.7	215.8	215.8	216.3	231.0	
Passengers (revenue) carried 1 mile.....mil.	10,634	10,295	5,258													
Travel																
Hotels and motor-hotels:																
Restaurant sales index.....same month 1967=100.	127	139	143	124	139	157	155	164	169	174	163	160	167			
Hotels: Average room sale.....dollars.	31.32	34.96	35.54	38.43	38.32	38.09	39.37	39.83	39.14	36.77	38.39	38.20	42.06			
Rooms occupied.....% of total.	63	65	50	60	68	67	74	73	72	66	69	70	77			
Motor-hotels: Average room sale.....dollars.	22.48	24.65	24.66	26.11	26.80	27.42	27.07	28.55	28.91	29.28	29.67	29.00	28.99			
Rooms occupied.....% of total.	67	70	53	63	69	73	74	75	78	78	82	75	76			
Foreign travel:																
U.S. citizens: Arrivals.....thous.	7,700	8,201	511	633	570	711	706	718	785	1,024	1,077	742	740	612		
Departures.....do.	7,755	8,198	619	592	586	721	662	804	917	858	901	910	624	593		
Aliens: Arrivals.....do.	6,264	6,492	535	550	405	567	550	603	686	925	948	741	640	581		
Departures.....do.	5,382	5,364	446	450	325	420	420	496	522	545	844	698	539	517		
Passports issued.....do.	2,817	3,107	162	217	239	379	351	371	380	308	290	196	178	168	156	221
National parks, visits.....do.	60,521	69,980	2,050	1,679	2,520	2,757	3,439	4,986	8,232	12,047	11,037	6,375	5,264	2,732	1,921	
COMMUNICATION																
Telephone carriers:																
Operating revenues.....mil. \$.	36,602	40,754	3,573	3,640	3,585	3,788	3,715	3,820	3,828	3,783	3,924	3,942				
Station revenues.....do.	16,621	18,667	1,622	1,642	1,645	1,683	1,688	1,692	1,694	1,680	1,725	1,765				
Tolls, message.....do.	14,618	16,312	1,435	1,487	1,406	1,570	1,469	1,574	1,560	1,526	1,636	1,573				
Operating expenses (excluding taxes).....do.	23,321	26,120	2,373	2,302	2,248	2,447	2,335	2,470	2,424	2,356	2,532	2,527				
Net operating income (after taxes).....do.	6,679	7,298	603	661	654	660	685	673	702	712	703	718				
Phones in service, end of period.....mil.	138.5	149.9	149.9	145.6	145.5	146.1	146.4	146.9	147.2	147.5	146.6	148.9				
Telegraph carriers:																
Domestic:																
Operating revenues.....mil. \$.	527.7	554.8	46.8	44.5	44.8	47.9	46.6	49.1	48.1	46.8	50.4	47.9	51.1			
Operating expenses.....do.	423.0	439.6	39.0	36.5	35.3	35.9	36.6	37.5	37.5	37.0	39.1	37.9	53.9			
Net operating revenues (before taxes).....do.	75.4	86.9	7.0	5.4	6.8	9.2	7.3	9.0	8.5	7.2	8.8	7.5	5.9			
Overseas, total:⊕																
Operating revenues.....do.	349.5	396.9	34.9	35.4	34.2	38.7	36.5	38.0	39.2	36.7	39.3	38.0	39.9			
Operating expenses.....do.	256.3	279.4	24.5	23.8	23.5	25.3	24.4	25.0	25.4	24.8	26.0	25.3	31.7			
Net operating revenues (before taxes).....do.	71.9	108.4	8.8	9.2	9.0	11.8	10.4	10.3	11.0	9.6	11.6	11.0	12.1			

CHEMICALS AND ALLIED PRODUCTS

CHEMICALS																
Inorganic Chemicals																
Production:																
Aluminum sulfate, commercial (17% Al ₂ O ₃).....thous. sh. tons.	1,230	1,162	103	97	93	102	95	107	98	98	115	92	101	96		
Chlorine gas (100% Cl ₂).....do.	10,378	10,664	868	816	825	813	890	875	884	951	925	919	950	968		
Hydrochloric acid (100% HCl).....do.	2,496	2,568	224	215	212	230	253	224	221	237	210	226	232	238		
Phosphorus, elemental.....do.	437	431	36	33	33	36	38	37	39	39	33	36	39	39		
Sodium carbonate (soda ash), synthetic (58% Na ₂ O).....thous. sh. tons.	2,344	1,812	140	107	(⁶)	(^{6})	(^{6})	(^{6})	(^{6})	(^{6})	(^{6})	(^{6})	(^{6})	(^{6})		
Sodium hydroxide (100% NaOH).....do.	10,516	10,481	842	818	798	823	867	861	864	941	906	885	918	931		
Sodium silicate, anhydrous.....do.	747	781	66	67	65	66	64	68	67	62	64	63	73	72		
Sodium sulfate, anhydrous.....do.	1,232	1,241	102	99	104	104	115	114	104	97	102	97	107	100		
Sodium tripolyphosphate (100% Na ₃ P ₃ O ₁₀).....do.	724	709	59	59	57	61	63	58	59	58	63	60	66	66		
Titanium dioxide (composite and pure).....do.	713	679	49	47	54	60	67	66	63	63	60	63	60	59		
Sulfur, native (Frasch) and recovered:																
Production.....thous. lg. tons.	1,940	1,939	801	792	735	809	780	826	811	810	795	776	786	790		
Stocks (producers') end of period.....do.	5,563	5,469	5,469	5,478	5,441	5,389	5,352	5,368	5,437	5,519	5,498	5,472	5,386	5,245		
Inorganic Fertilizer Materials																
Production:																
Ammonia, synthetic anhydrous.....thous. sh. tons.	16,716	17,398	1,460	1,391	1,208	1,435	1,558	1,553	1,424	1,374	1,329	1,296	1,425	1,437		
Ammonium nitrate, original solution.....do.	7,186	7,454	564	612	530	701	689	640	563	512	537	523	649	599		
Ammonium sulfate.....do.	2,010	1,904	(⁶)	155	157	160	177	168	164	172	182	153	183			
Nitric acid (100% HNO ₃).....do.	7,892	7,877	629	643	595	767	736	719	625	604	627	603	733	682		
Nitrogen solutions (100% N).....do.	2,068	2,640	220	199	173	227	224	218	210	191	176	168	200	168		
Phosphoric acid (100% P ₂ O ₅).....do.	7,955	8,456	699	693	718	830	830	822	768	732	803	796	853	825		
Sulfuric acid (100% H ₂ SO ₄).....do.	33,300	35,821	2,991	3,041	3,031	3,365	3,319	3,410	3,250	3,107	3,350	3,337	3,476	3,453		
Superphosphate and other phosphatic fertilizers (100% P ₂ O ₅):																
Production.....thous. sh. tons.	5,824	6,699	541	556	562	673	627	639	569	573	614	619	651	600		
Stocks, end of period.....do.	469	573	573	600	571	506	400	471	494	461	395	379	359	442		
Potash, deliveries (K ₂ O).....do.	1,610	7,309	318	458	447	687	789	692	557	417	598	487	620	549	532	531
Exports, total.....do.	18,324	23,108	2,251	2,165	1,924	2,150	1,690	1,831	2,293	2,596	2,651	2,690	1,985	1,781	2,493	
Nitrogenous materials.....do.	1,239	1,169	132	168	153	192	73	129	148	364	406	354	290	170	176	
Phosphate materials.....do.	12,351	16,741	1,538	1,272	1,340	1,448	1,321	1,306	1,368	1,431	1,496	1,571	1,347	1,241	1,599	
Potash materials.....do.	1,670	1,650	112	154	80	162	58	119	205	210	237	169	122	70	242	
Imports:																
Ammonium nitrate.....do.	312	361	46	47	21	54	81	53	37	22	13	14	21	23	18	
Ammonium sulfate.....do.	566	327	21	48	27	31	59	26	37	3	11	11	18	34	21	
Potassium chloride.....do.	7,475	8,229	642	609	545	851	669	812	849	735	682	619	654	648	716	
Sodium nitrate.....do.	103	157	12	(⁶)	30	16	13	21	5	15	0	16	15	11	0	

⊕ Revised. ⊕ Preliminary. ⊕ Annual total; monthly revisions are not available. ⊕ For month shown. ⊕ Reported annual total; see note 6 for this page. ⊕ Because of an overall revision to the export commodity classification system effective Jan. 1, 1978, data may not be strictly comparable with those for earlier periods. ⊕ Less than 500 short tons. ⊕ Data are being withheld to avoid disclosing figures from individual companies. ⊕ See "⊕" note, this page. ⊕ Excludes data for byproduct (other than coke oven); withheld to avoid disclosure of figures from individual companies. ⊕ Represents solutions containing ammonia and ammonium nitrate/urea solutions; not comparable with data prior to Aug. 1978. ⊕ See "⊕" note, p. S-24. ⊕ Average daily rent per occupied room, not scheduled rates. ⊕ Includes data not shown separately. ⊕ Beginning Jan. 1977, data exclude potassium magnesium sulfate; not strictly comparable with those shown for earlier periods. ⊕ Effective 1976, data are compiled by U.S. Dept. of Transportation from INS records and refer to air travel; travel by sea is omitted (for 1973-75, average annual arrivals and departures by sea are as follows—units and order as above: 814; 784; 159; 129). ⊕ Effective Jan. 1976, data include visits to Voyageurs National Park (no count of visits for earlier periods is available); data for Mar.-July 1976 are restated to delete visits to Platt National Park which was reclassified as a national recreation area. ⊕ Includes data for Western Union Int. Cable & Wireless. ⊕ Monthly revisions back to 1971 are available upon request. ⊕ For July-Dec., 1977.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

CHEMICALS AND ALLIED PRODUCTS—Continued

CHEMICALS—Continued																
Industrial Gases ¹																
Production:																
Acetylene.....mil. cu. ft.	7,111	5,972	454	431	413	422	450	434	449	402	448	415	468	477		
Carbon dioxide, liquid, gas, and solid thous. sh. tons.....	2,064	2,256	182	147	158	189	190	200	204	205	210	205	r 206	180		
Hydrogen (high and low purity).....mil. cu. ft.	82,099	84,459	7,107	7,041	6,591	7,809	7,269	7,342	7,186	7,394	7,510	7,762	r 7,906	7,937		
Nitrogen (high and low purity).....do.	288,867	331,545	30,147	31,853	28,902	33,497	31,776	33,235	32,273	31,879	34,001	32,653	r 34,627	34,145		
Oxygen (high and low purity).....do.	388,446	392,984	32,606	32,012	30,001	34,409	33,694	37,805	36,298	36,295	37,554	36,904	r 38,016	37,607		
Organic Chemicals ²																
Production:																
Acetylsalicylic acid (aspirin).....mil. lb.	128.3	131.4	2.3	2.7	2.1	3.0	2.4	3.2	3.0	2.5	2.5	2.5	2.5	2.9	2.8	
Creosote oil.....mil. gal.	177.1	1161.2	14.2	8.4	8.3	13.6	13.1	11.9	13.9	10.1	11.6	12.9	11.8	12.8	12.5	
Ethyl acetate (85%).....mil. lb.	1215.6	1217.8	13.9	15.4	16.7	17.1	12.4	18.4	22.5	19.8	20.4	17.9	20.8	21.7	20.8	
Formaldehyde (37% HCHO).....do.	15,449.3	16,046.5	481.8	488.4	477.7	571.3	555.1	550.4	549.1	535.8	522.8	546.6	585.0	r 531.3	548.1	
Glycerin, refined, all grades.....do.	321.2	286.0	24.5	23.8	21.0	23.4	23.5	26.3	21.8	20.0	29.4	26.4	28.3	24.7	21.9	
Methanol, synthetic.....mil. gal.	1940.1	1971.8	88.0	65.3	62.5	57.7	87.3	78.0	77.3	83.3	79.8	87.9	73.2	60.9	90.0	
Phthalic anhydride.....mil. lb.	1902.4	1926.0	82.9	72.5	72.6	85.2	81.5	92.7	93.4	87.2	80.1	79.6	73.9	76.5	94.6	
ALCOHOL ³																
Ethyl alcohol and spirits:																
Production.....mil. tax gal.	499.6	498.3	39.7	35.8	41.1	50.4	42.2	31.3	48.7	42.5	45.4	50.5	40.3	38.0		
Used for denaturation.....do.	415.9	405.3	25.1	35.1	32.4	37.3	32.1	37.2	37.5	25.4	36.6	30.3	40.3	38.6		
Taxable withdrawals.....do.	78.4	81.0	7.5	6.9	5.8	7.5	7.3	7.2	7.5	5.9	7.7	7.4	8.2	7.4		
Stocks, end of period.....do.	85.3	71.4	71.4	68.3	75.2	78.9	80.8	74.6	76.2	85.8	88.4	96.8	76.8	64.6		
Denatured alcohol:																
Production.....mil. wine gal.	225.3	223.8	16.0	19.1	17.4	19.9	17.7	21.3	20.3	17.0	19.9	16.9	21.7	16.6		
Consumption (withdrawals).....do.	225.6	224.6	16.2	19.2	17.1	19.9	17.7	21.3	20.2	17.0	19.9	17.4	21.4	17.2		
Stocks, end of period.....do.	3.2	2.6	2.6	2.5	2.8	2.8	2.9	2.9	3.0	3.1	3.0	2.6	2.9	2.9		
PLASTICS AND RESIN MATERIALS																
Production:																
Phenolic resins.....mil. lb.	11,305.3	11,797.1	131.3	136.6	138.2	154.9	149.1	148.2	143.5	128.8	142.7	151.8	169.5	151.7	138.8	
Polyethylene and copolymers.....do.	18,774.7	110,100.1	808.8	845.1	739.4	916.7	905.2	915.4	900.8	937.1	960.4	962.2	967.0	937.5	961.2	
Polypropylene.....do.	2,551.0	12,705.8	227.6	235.7	210.8	253.0	226.8	232.3	232.2	232.0	260.5	257.3	246.8	268.2	244.3	
Polystyrene and copolymers.....do.	14,742.9	15,203.0	434.7	413.3	396.5	467.1	474.9	479.6	483.4	450.5	427.5	473.4	477.8	434.8	481.5	
Polyvinyl chloride and copolymers.....do.	14,544.8	15,267.3	392.3	430.2	413.8	477.2	481.0	501.6	480.6	458.1	469.8	459.1	500.3	479.7	493.5	
MISCELLANEOUS PRODUCTS																
Explosives (industrial), shipments, quarterly mil. lb.	2,543.0	2,675.1	647.4			445.6			809.5			786.7			790.4	
Paints, varnish, and lacquer, factory shipments:																
Total shipments.....mil. \$.	4,678.0	4,517.7	305.9	319.1	341.1	416.6	(3)									
Trade products.....do.	2,446.4	2,278.5	140.7	149.4	160.7	204.0	(3)									
Industrial finishes.....do.	2,231.7	2,239.2	165.2	169.8	180.3	212.5	(3)									

ELECTRIC POWER AND GAS

ELECTRIC POWER																
Production (utility and industrial), total mil. kw.-hr.																
Electric utilities, total.....do.	2,097,654	2,124,078	184,205	197,271	173,676	173,157	159,749	175,184	187,408	202,595	205,637	185,597				
By fuels.....do.	1,753,948	1,903,643	161,449	172,488	151,260	148,496	134,406	146,409	162,166	178,037	183,505	164,338				
By waterpower.....do.	283,706	220,435	22,756	24,783	22,416	24,661	25,343	28,775	25,242	24,558	22,132	21,259				
Industrial establishments, total.....do.																
By fuels.....do.																
By waterpower.....do.																
Sales to ultimate customers, total (Edison Electric Institute).....mil. kw.-hr.	1,849,625	1,950,791	162,654	174,427	169,924	164,064	153,146	153,813	165,403	176,403	181,386	108,454	167,770			
Commercial and industrial:																
Small light and power\$.....do.	440,625	469,227	38,306	39,922	39,498	38,467	36,001	36,252	40,365	44,071	44,918	44,206	40,144			
Large light and power\$.....do.	725,169	757,168	62,479	63,348	59,724	60,150	61,706	65,057	67,449	65,894	67,819	68,998	68,723			
Railways and railroads.....do.	4,337	4,212	371	415	421	377	336	316	353	335	344	342	343			
Residential or domestic.....do.	613,072	652,345	55,611	64,624	64,283	59,283	49,722	46,764	51,533	60,266	62,366	60,883	52,656			
Street and highway lighting.....do.	14,413	14,418	1,359	1,396	1,258	1,227	1,170	1,119	1,101	1,129	1,168	1,218	1,285			
Other public authorities.....do.	45,625	46,242	3,916	4,135	4,172	3,978	3,643	3,719	4,005	4,103	4,173	4,201	4,009			
Interdepartmental.....do.	6,383	7,179	612	587	567	583	568	586	597	606	598	605	609			
Revenue from sales to ultimate customers (Edison Electric Institute).....mil. \$.	53,462.9	62,610.0	5,259.7	5,674.5	5,626.9	5,646.4	5,277.1	5,278.2	5,802.3	6,318.6	6,510.8	6,420.2	5,918.6			
GAS																
Total utility gas, quarterly (American Gas Association):																
Customers, end of period, total.....thous.	45,128	45,725	45,725			46,172			45,580			45,355				
Residential.....do.	41,519	42,108	42,108			42,445			41,984			41,816				
Commercial.....do.	3,377	3,400	3,400			3,490			3,373			3,332				
Industrial.....do.	2 179	2 175	175			183			172			169				
Other.....do.	2 53	2 42	42			54			51			38				
Sales to customers, total.....tril. Btu.	14,814	14,341	3,680			5,312			3,180			2,551				
Residential.....do.	5,014	4,946	1,270			2,439			960			429				
Commercial.....do.	2,423	2,409	626			1,066			492			306				
Industrial.....do.	2 7,107	2 6,711	1,717			1,692			1,662			1,758				
Other.....do.	2 270	2 275	67			115			66			59				
Revenue from sales to customers, total.....mil. \$.	23,701	28,303	7,524			11,166			6,861			5,503				
Residential.....do.	9,941	11,541	3,045			5,685			2,517			1,332				
Commercial.....do.	4,075	4,980	1,340			2,330			1,118			713				
Industrial.....do.	2 9,374	2 11,385	3,035			3,019			3,128			3,374				
Other.....do.	2 311	2 397	104			182			97			85				

¹ Revised. ² Preliminary. ³ Reported annual total; revisions are not distributed to the monthly data. ⁴ Beginning 1976, Industrial includes electric generation, prior to 1976, electric generation was included with other. ⁵ Series being restructured; data not available at this time. ⁶ Data are not wholly comparable on a year to year basis because of changes

from one classification to another. ⁷ Data are reported on the basis of 100 percent content of the specified material unless otherwise indicated. ⁸ Monthly revisions back to 1973 are available upon request.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

FOOD AND KINDRED PRODUCTS; TOBACCO

ALCOHOLIC BEVERAGES																
Beer:																
Production.....mil. bbl.	163.66	170.51	12.01	12.87	12.71	15.86	15.63	16.56	16.88	16.74	17.61	14.62	14.01	12.72		
Taxable withdrawals.....do.	150.39	156.92	11.51	10.69	11.01	14.18	13.60	15.00	15.82	15.29	16.28	13.72	12.99	12.04		
Stocks, end of period.....do.	12.91	12.42	12.42	13.92	12.02	14.56	15.01	14.97	14.57	19.81	14.33	14.01	13.71	13.50		
Distilled spirits (total):																
Production.....mil. tax gal.	160.42	159.29	12.21	11.88	11.29	11.84	13.69	15.15	14.95	7.63	13.20	14.61	18.78	18.09		
Consumption, apparent, for beverage purposes.....mil. wine gal.	1425.89	1432.56	54.63	30.55	30.16	38.42	33.82	34.36	38.75	32.06	35.77	34.23				
Taxable withdrawals.....mil. tax gal.	216.40	220.74	19.24	18.28	16.87	21.12	20.15	17.44	20.61	15.63	21.30	20.18	25.42	22.42		
Stocks, end of period.....do.	752.85	706.86	706.86	701.16	691.79	690.80	686.68	685.96	683.36	678.12	672.34	669.16	665.18	663.28		
Imports.....mil. proof gal.	112.71	112.94	11.53	8.29	8.65	9.74	11.52	9.29	10.94	9.08	9.80	10.94	14.83	14.13	11.28	
Whisky:																
Production.....mil. tax gal.	79.12	80.60	5.11	5.25	5.40	5.45	6.39	7.77	6.80	3.09	6.06	7.36	8.39	9.21		
Taxable withdrawals.....do.	126.67	128.27	10.89	10.11	9.70	12.08	11.58	9.52	11.37	8.68	11.39	12.00	15.12	12.99		
Stocks, end of period.....do.	692.34	649.00	649.00	643.65	638.82	633.43	629.07	627.72	624.89	619.70	614.91	610.95	605.23	601.20		
Imports.....mil. proof gal.	92.07	91.15	9.29	6.59	6.76	7.63	9.04	7.12	8.70	6.99	7.98	8.46	12.14	11.55	8.83	
Rectified spirits and wines, production, total																
Whisky.....mil. proof gal.	107.71	110.46	10.63	9.95	8.00	10.00	8.68	9.36	9.79	7.46	10.25	9.77	10.49	9.60		
Wines and distilling materials.....do.	41.85	41.48	4.12	3.95	2.70	3.42	2.81	3.10	3.36	3.03	3.48	3.40	4.49	3.42		
Effervescent wines:																
Production.....mil. wine gal.	20.59	22.86	2.19	1.72	1.51	1.84	1.41	1.94	1.24	1.92	2.55	2.06	2.73	2.59		
Taxable withdrawals.....do.	19.22	21.35	2.71	1.04	.97	1.25	2.98	1.71	.83	1.13	1.76	1.90	3.27	3.25		
Stocks, end of period.....do.	8.74	8.56	8.56	9.06	9.59	9.84	10.19	10.67	10.22	10.97	11.58	11.43	8.51	12.56		
Imports.....do.	2.56	2.93	.32	.21	.18	.29	.30	.40	.40	.28	.30	.40	.44	.47		
Still wines:																
Production.....do.	405.78	409.75	25.99	6.22	3.99	4.79	5.70	4.81	4.51	2.53	32.67	140.20	151.16	41.16		
Taxable withdrawals.....do.	298.25	310.41	28.00	25.20	21.23	31.63	25.65	25.62	26.34	23.32	25.43	26.29	29.10	31.17		
Stocks, end of period.....do.	473.72	505.36	505.36	478.44	461.30	434.92	411.29	348.02	355.00	320.44	332.30	431.50	553.44	555.80		
Imports.....do.	56.36	65.79	5.34	5.61	5.39	6.62	7.26	7.98	8.64	8.18	8.06	7.68	8.05	8.38	7.90	
Distilling materials produced at wineries.....do.	344.77	276.55	7.55	4.81	5.49	2.45	1.57	1.90	3.56	1.46	32.17	97.78	67.42	16.13		
DAIRY PRODUCTS																
Butter, creamery:																
Production (factory).....mil. lb.	978.6	1,085.6	89.5	108.3	95.7	97.7	98.5	96.7	84.7	73.7	64.2	64.5	71.1	66.7	77.2	
Stocks, cold storage, end of period.....do.	47.1	184.9	184.9	195.7	215.9	235.6	245.6	264.6	280.9	312.7	282.4	266.6	251.8	228.8	206.9	207.4
Price, wholesale, 62-score (N.Y.).....\$ per lb.	.944	1.015	1.060	1.047	1.035	1.059	1.084	1.088	1.093	1.117	1.207	1.220	1.219	1.260	1.258	1.150
Cheese:																
Production (factory) total.....mil. lb.	3,320.2	3,357.9	281.6	274.0	260.6	311.8	306.2	328.7	332.9	297.0	284.6	264.9	279.4	276.3	300.1	
American, whole milk.....do.	2,048.8	2,042.4	160.1	163.6	154.3	182.9	190.8	208.2	209.3	183.4	167.5	149.2	159.0	153.5	171.8	
Stocks, cold storage, end of period.....do.	478.4	468.6	468.6	460.2	442.6	431.0	448.2	462.3	501.1	501.6	491.1	475.8	455.0	431.1	436.4	426.7
American, whole milk.....do.	411.3	404.7	404.7	394.4	378.1	365.3	379.8	392.1	424.3	425.5	418.0	396.4	378.9	357.1	357.9	350.8
Imports.....do.	206.8	209.4	43.5	14.5	14.1	16.7	13.6	13.8	13.0	16.4	22.7	19.3	22.0	30.7	45.6	
Price, wholesale, American, single daisies (Chicago).....\$ per lb.	1.161	1.187	1.224	1.229	1.241	1.246	1.259	1.259	1.259	1.260	1.321	1.340	1.394	1.400	1.410	1.410
Condensed and evaporated milk:																
Production, case goods.....mil. lb.	932.1	818.9	58.8	56.2	52.1	67.3	68.9	82.4	78.8	73.8	69.0	58.2	58.9	52.3	59.3	
Stocks, manufacturers', case goods, end of month or year.....mil. lb.	70.6	75.2	75.2	59.7	52.9	52.1	57.4	79.4	101.4	120.2	134.4	136.0	113.8	84.4	70.3	
Exports:																
Condensed (sweetened).....do.	4.4	4.1	.3	5.4	3.9	2.6	3.6	3.5	3.2	2.3	2.1	2.4	4.2	2.7	2.4	
Evaporated (unsweetened).....do.	44.5	28.8	3.0	(9)												
Fluid milk:																
Production on farms.....do.	120,269	122,698	9,787	9,994	9,287	10,523	10,631	11,178	10,851	10,534	10,213	9,733	9,832	9,364	9,788	10,035
Utilization in mfd. dairy products.....do.	63,630	65,879	4,994	5,398	5,093	5,871	5,903	6,299	6,295	5,687	5,328	4,854	4,887	4,517	4,883	
Price, wholesale, U.S. average.....\$ per 100 lb.	9.66	9.72	10.20	10.20	10.20	10.20	10.10	10.00	10.00	10.10	10.50	10.90	11.30	11.60	11.80	11.80
Dry milk:																
Production:																
Dry whole milk.....mil. lb.	78.1	69.4	4.9	6.8	4.5	7.1	7.4	8.0	6.9	5.9	5.5	5.0	4.9	5.0	5.8	
Nonfat dry milk (human food).....do.	926.2	1,106.0	78.0	79.7	70.6	84.4	96.4	103.0	113.5	98.2	78.6	59.1	49.0	41.9	54.4	
Stocks, manufacturers', end of period:																
Dry whole milk.....do.	9.1	6.0	6.0	6.0	5.4	6.1	7.3	8.4	9.5	9.4	9.3	7.4	5.3	3.7	4.4	
Nonfat dry milk (human food).....do.	98.8	60.7	60.7	61.4	55.2	49.8	79.1	96.8	94.7	95.0	74.9	64.1	51.9	36.3	39.8	
Exports:																
Dry whole milk.....do.	31.6	23.8	1.1	6.8	6.4	4.3	5.8	6.0	12.9	31.5	15.1	11.4	8.7	10.0	4.0	
Nonfat dry milk (human food).....do.	10.3	38.8	4.2	(9)												
Price, manufacturers' average selling, nonfat dry milk (human food).....\$ per lb.	.634	.665	.681	.681	.680	.680	.705	.711	.710	.713	.715	.725	.732	.747	.765	
GRAIN AND GRAIN PRODUCTS																
Exports (barley, corn, oats, rye, wheat).....mil. bu.																
Barley:																
Production (crop estimate).....do.	372.5	420.2													447.0	
Stocks (domestic), end of period.....do.	271.2	329.2	329.2				238.0		172.1				468.3		386.6	
On farms.....do.	153.7	218.9	218.9				148.9		104.7				538.7		272.1	
Off farms.....do.	117.5	110.3	110.3				89.0		67.4				129.6		114.4	
Exports, including malt.....do.	52.1	72.8	4.0	1.6	.5	.3	2.3	3.3	4.4	5.2	5.0	4.8	3.2	1.0	.5	
Prices, wholesale (Minneapolis):																
No. 2, malting.....\$ per bu.	3.11	2.45	2.33	2.34	2.30	2.29	2.38	2.49	2.35	2.12	2.14	2.26	2.18	2.48	2.32	2.23
No. 3, straight.....do.	3.06	2.64	2.32	2.22	2.27	2.27	2.38	2.44	2.34	2.10	2.11	2.29	2.27	2.44	2.37	2.28
Corn:																
Production (crop estimate, grain only).....mil. bu.	6,266.4	6,425.5													7,081.8	
Stocks (domestic), end of period, total.....do.	4,889.7	5,503.0	5,503.0				3,877.2		2,837.4				1,104.0		6,197.2	
On farms.....do.	3,345.5	3,824.3	3,824.3				2,517.0		1,848.6				659.3		4,517.5	
Off farms.....do.	1,544.2	1,678.7	1,678.7				1,360.2		988.8				444.7		1,679.8	
Exports, including meal and flour.....do.	1,748.0	1,596.2	153.5	127.1	128.0	157.0	160.9	207.3	214.3	171.3	180.3	176.4	139.5	153.9	159.1	
Price, wholesale:																
Weighted avg., selected markets, all grades.....\$ per bu.	2.56	2.22	2.23	2.23	2.30	2.44	2.80	2.62	2.52	2.47	2.31	2.24	2.27	2.15	2.34	2.23
Oats:																
Production (crop estimate).....mil. bu.	546.3	750.9													601.5	
Stocks (domestic), end of period, total.....do.	412.5	565.0	565.0				418.7		310.6				665.7		562.9	
On farms.....do.	339.0	482.3	482.3				357.3									

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual	Annual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	

FOOD AND KINDRED PRODUCTS; TOBACCO—Continued

GRAIN AND GRAIN PRODUCTS—Con.																
Rice:																
Production (crop estimate) Δ.....mil. bags ♀	1 115.6	1 99.2														1 137.8
California mills:																
Receipts, domestic, rough.....mil. lb.	2,220	2,215	157	114	109	172	93	170	179	69	103	72	240	79	275	
Shipments from mills, milled rice.....do.	1,492	1,460	80	62	61	99	63	81	140	55	61	109	58	72	126	
Stocks, rough and cleaned (cleaned basis), end of period.....mil. lb.	158	214	214	217	228	237	226	165	239	229	237	185	277	253	304	
Southern States mills (Ark., La., Tenn., Tex.):																
Receipts, rough, from producers.....mil. lb.	9,563	9,557	630	344	282	266	131	101	109	110	1,005	3,062	1,708	884	822	
Shipments from mills, milled rice.....do.	5,481	6,217	443	433	505	520	463	455	434	385	500	599	654	620	562	
Stocks, domestic, rough and cleaned (cleaned basis), end of period.....mil. lb.	2,682	2,629	2,629	2,474	2,231	1,933	1,638	1,287	952	684	842	2,184	2,604	2,496	2,488	
Exports.....do.	4,640	4,995	464	204	427	294	339	364	694	347	325	545	467	371	596	
Price, wholesale, No. 2, medium grain (Southwest Louisiana).....\$ per bu.	.140	.152	.215	.215		.215	.205	.190		.185	.175	.145	.145	.145	.148	.163
Rye:																
Production (crop estimate) Δ.....mil. bu.	1 15.0	1 17.3														1 26.2
Stocks (domestic), end of period.....do.	8.9	9.3	9.3			6.1	4.1					24.0			18.2	
Price, wholesale, No. 2 (Minneapolis).....\$ per bu.	2.92	2.39	2.55	2.67	2.57	2.95	3.02	3.23	2.96	2.39	2.19	2.37	2.32	2.48	2.52	2.38
Wheat:																
Production (crop estimate), total Δ.....mil. bu.	12,142	12,036														1 1,799
Spring wheat Δ.....do.	1,582	1,499														1 550
Winter wheat Δ.....do.	11,560	11,537														1 1,248
Distribution, quarterly ♂.....do.	1,748	1,827	407			466				351		839				507
Stocks (domestic), end of period, total.....do.	1,781.8	1,993.8	1,993.8			1,527.7		1,176.7				2,137.0				1,690.7
On farms.....do.	665.4	831.3	831.3			639.9		492.9				1,082.9				815.4
Off farms.....do.	1,116.4	1,162.5	1,162.5			887.8		683.8				1,054.2				875.3
Exports, total, including flour.....do.	1,001.3	905.8	89.6	66.3	94.9	107.4	107.8	124.2	115.1	110.0	136.9	122.8	116.5	93.0	91.2	3.32
Wheat only.....do.	968.9	863.9	86.7	64.6	94.5	103.3	101.8	118.8	108.8	106.1	131.9	118.3	113.0	92.3	90.0	3.41
Prices, wholesale:																
No. 1, dark northern spring (Minneapolis)																
\$ per bu.	4.10	2.80	2.94	3.04	3.07	3.13	3.32	3.35	3.27	3.18	3.18	3.30	3.39	3.52	3.16	3.32
No. 2, hd. and dk. hd. winter (Kans. City) do.	3.50	2.62	2.88	2.90	2.99	3.16	3.34	3.26	3.20	3.20	3.12	3.27	3.44	3.50	3.46	3.41
Weighted avg., selected markets, all grades \$ per bu.	3.87	2.88	3.05	3.12	3.14	3.27	3.37	3.40	3.34	3.22	3.31	3.34	3.51	3.55	3.40	3.30
Wheat flour:																
Production:																
Flour.....thous. sacks (100 lb.)	275,077	275,784	23,363	21,787	21,783	24,330	22,554	24,078	23,051	22,335	25,053	22,456	24,843	23,803		
Offal.....thous. sh. tons	4,643	4,593	381	381	385	430	385	417	402	384	439	400	436	416		
Grindings of wheat.....thous. bu.	618,284	618,125	52,106	48,430	48,910	54,821	50,478	53,601	51,544	49,749	56,062	50,531	55,348	52,932		
Stocks held by mills, end of period.....thous. sacks (100 lb.)	4,334	4,160	4,160			4,096		2,554	2,297	3,459		3,342				
Exports.....do.	13,907	17,994	1,237	723	147	1,774		2,694		1,674	2,145	1,963	1,505	306	486	
Prices, wholesale:																
Spring, standard patent (Minneapolis)																
\$ per 100 lb.	9.509	7.160	7.200	7.588	7.325	7.650	8.638	8.388	8.100	8.250	7.938	7.825	7.900	8.400	8.138	7.813
Winter, hard, 95% patent (Kans. City) do.	8.303	6.246	6.488	6.988	6.675	6.963	8.250	7.463	7.225	7.600	7.575	7.550	7.600	7.925	7.788	7.550
LIVESTOCK																
Cattle and calves:																
Slaughter (federally inspected):																
Calves.....thous. animals	4,438	4,696	387	368	336	386	304	288	271	261	304	275	287	274	267	
Cattle.....do.	38,992	38,717	3,200	3,238	3,046	3,243	2,969	3,215	3,052	2,869	3,247	3,027	3,180	3,029	2,834	
Prices, wholesale:																
Beef steers (Omaha).....\$ per 100 lb.																
39.11	40.38	43.13	43.62	45.02	48.66	52.52	57.28	55.38	54.59	52.40	54.26	54.93	53.82	55.54	60.35	
Steers, stocker and feeder (Kans. City) do.	37.65	38.74	39.71	42.85	46.89	51.39	53.81	59.85	57.42	58.22	60.23	62.06	60.75	64.19	69.95	
Calves, vealers (So. St. Paul) do.	45.18	48.19	40.50	40.50	43.75	47.60	69.45	77.26	73.28	75.72	81.66	83.25	81.82	78.60	78.00	90.73
Hogs:																
Slaughter (federally inspected).....thous. animals																
70,454	74,018	6,186	5,969	5,840	6,794	6,213	6,298	5,778	5,402	6,227	6,203	6,576	6,737	6,105		
Prices:																
Wholesale, average, all weights (Sioux City) ⊕.....\$ per 100 lb.																
43.19	41.12	44.13	46.08	49.26	47.77	46.22	49.25	48.19	46.94	48.83	50.34	52.58	48.68	49.73	52.11	
Hog-corn price ratio (bu. of corn equal in value to 100 lb. live hog).....do.																
17.5	19.9	21.2	22.0	23.6	21.8	20.0	20.9	20.9	20.9	24.0	24.0	25.9	23.1	23.0	24.1	
Sheep and lambs:																
Slaughter (federally inspected).....thous. animals																
6,474	6,133	441	425	390	487	430	451	441	406	438	435	457	413	396		
Price, wholesale, lambs, average (Omaha).....\$ per 100 lb.																
47.84	53.38	58.50	64.00	67.50	69.38	62.75	71.00	59.50	60.00	59.25	62.50	60.00	59.50	64.00	73.75	
MEATS																
Total meats (excluding lard):																
Production, total.....mil. lb.	39,060	39,172	3,241	3,214	3,044	3,341	3,079	3,268	3,078	2,882	3,272	3,138	3,353	3,343	3,092	
Stocks, cold storage, end of period ○.....do.	733	567	567	560	574	660	748	761	721	642	582	598	641	716	726	
Exports (meat and meat preparations).....do.	1,305	1,315	124	109	101	115	108	108	99	93	119	131	124	119	111	
Imports (meat and meat preparations).....do.	1,868	1,741	212	138	155	183	202	181	167	161	137	182	184	200	180	
Beef and veal:																
Production, total.....do.	26,480	25,780	2,108	2,140	2,009	2,133	1,960	2,118	2,007	1,897	2,146	2,018	2,150	2,083	1,941	
Stocks, cold storage, end of period ○.....do.	464	327	327	327	331	370	385	400	385	344	325	342	358	396	411	
Exports.....do.	82	93	10	30	35	27	32	30	32	28	35	42	31	32	33	
Imports.....do.	1,467	1,377	171	103	118	141	161	147	133	123	107	151	141	165	145	
Price, wholesale, beef, fresh, steer carcasses, choice (600-700 lbs.) (East Coast).....\$ per lb.	.644	.662	.715	.723	.747	.782	.846	.922	.897	.878	.840	.854	.859	.845	.884	.974
Lamb and mutton:																
Production, total.....mil. lb.	361	341	25	25	23	28	25	26	25	23	25	25	27	25	24	
Stocks, cold storage, end of period.....do.	15	10	10	9	9	8	9	10	10	12	11	11	12	12	12	

⊖ Revised. ⊕ Crop estimate for the year. ⊙ See "○" note, this page. ⊚ Stocks as of June 1. ⊛ Previous year's crop; new crop not reported until June (beginning of new crop year). ⊜ See "○" note, this page. ⊝ Average for 11 months (Jan.-June, Aug.-Dec.). ⊞ Reflects revisions not available by months. ⊟ See note 6 for p. S-29. ⊠ Crop estimate for 1978. ⊡ Bags of 100 lbs. ⊢ Data are quarterly except that beginning 1975, June figures cover Apr., and May; Sept. covers June-Sept.

⊣ Effective April 1977 SURVEY, data beginning Feb. 1976 are restated to exclude cooler meats; comparable earlier data will be shown later. ⊤ See corresponding note, p. S-29. ⊥ Effective July 1977 SURVEY, monthly prices are restated through May 1977 to coincide with published annual averages which are for "all weights, excluding sows"; comparable monthly data prior to May 1976 will be shown later. ⊟ Revised crop estimates for 1971-1974 are available.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

FOOD AND KINDRED PRODUCTS; TOBACCO—Continued

MEATS—Continued																
Pork (excluding lard):																
Production, total†..... mil. lb.	12,219	13,051	1,108	1,051	1,013	1,179	1,093	1,125	1,046	962	1,101	1,095	1,176	1,236	1,128	
Stocks, cold storage, end of periodΔ..... do	212	186	186	174	174	217	281	281	258	218	178	176	207	245	243	
Exports..... do	311	289	25	32	26	26	25	31	25	23	31	32	35	36	26	
Imports..... do	4318	298	34	29	25	35	32	28	26	29	23	23	36	29	29	
Prices, wholesale:																
Hams, smoked composite..... \$ per lb.	.855	1.865	1.013	.857	.932	.822	.759	.820	.806	.803	.887	.905	1.038	1.086	1.078	.885
Fresh loins, 8-14 lb. average (New York)..... do	.977	.952	1.029	1.038	1.066	1.022	1.001	1.091	1.129	1.102	1.067	1.147	1.212	1.124	1.097	1.254
POULTRY AND EGGS																
Poultry:																
Slaughter (commercial production)..... mil. lb.	11,739	11,916	969	932	831	981	901	1,088	1,127	1,052	1,234	1,119	1,229	1,081	978	
Stocks, cold storage (frozen), end of period, total..... mil. lb.	363	310	310	304	263	233	210	213	257	326	413	486	543	346	280	278
Turkeys..... do	203	168	168	168	137	113	101	104	152	213	298	370	430	236	175	170
Price, in Georgia producing area, live broilers \$ per lb.	.240	.237	.205	.230	.240	.240	.280	.265	.300	.330	.265	.270	.245	.245	.250	.265
Eggs:																
Production on farms†..... mil. cases○	179.2	179.5	16.1	15.9	14.2	15.8	15.4	15.9	15.2	15.4	15.4	15.2	15.9	15.8	16.5	
Stocks, cold storage, end of period:																
Shell..... thous. cases○	28	39	39	50	41	37	36	30	30	29	55	42	23	36	38	19
Frozen..... mil. lb.	26	30	30	28	26	23	23	22	27	28	29	29	28	26	25	25
Price, wholesale, large (delivered; Chicago) \$ per doz.	.678	.624	.615	.552	.628	.620	.570	.520	.493	.612	.618	.632	.608	.672	.716	.713
MISCELLANEOUS FOOD PRODUCTS																
Cocoa (cacao) beans:																
Imports (incl. shells)..... thous. lg. tons.	235.4	172.1	5.5	19.4	20.3	27.9	20.5	16.5	12.4	16.1	14.7	7.3	35.6	18.6	20.2	
Price, wholesale, Accra (New York)..... \$ per lb.	1.092	2.144	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Coffee (green):																
Inventories (roasters', importers', dealers'), end of period..... thous. bags○	2,806	1,684	1,684			2,161			2,202			2,131			2,331	
Roastings (green weight)..... do	19,063	14,233	3,878			4,467			3,554			3,781			4,497	
Imports, total..... do	19,788	14,808	1,347	1,682	1,575	1,707	1,557	1,345	1,249	1,316	1,124	1,337	1,901	1,689	1,651	
From Brazil..... do	3,092	2,453	108	209	129	115	319	329	206	337	56	57	334	308	280	
Price, wholesale, Santos, No. 4 (N.Y.)..... \$ per lb.	1.228	1.228										1.540	1.540	1.530	1.460	1.460
Confectionery, manufacturers' sales..... mil. \$	2,912	3,059	275	252	291	271	207	211	193	174	314	306	312	282		
Fish:																
Stocks, cold storage, end of period†..... mil. lb.	371	420	420	384	330	336	319	324	342	364	408	425	427	426	425	
Sugar (United States):																
Deliveries and supply (raw basis):\$																
Production and receipts:																
Production..... thous. sh. tons.	5,748	5,053	997	602	374	280	130	189	135	48	35	115	658	1,046		
Deliveries, total..... do	10,924	11,245	836	766	775	930	864	891	1,033	905	1,122	1,020	894	853		
For domestic consumption..... do	10,856	11,210	832	764	772	927	861	888	1,029	901	1,109	1,014	888	849		
Stocks, raw and ref., end of period..... do	3,341	4,349	4,349	4,352	4,104	3,850	3,451	3,326	3,059	2,729	2,264	2,054	2,232	3,084	3,711	
Exports, raw and refined..... sh. tons.	69,735	20,335	1,376	4,312	881	970	802	682	613	841	747	1,019	1,020	1,077	1,174	
Imports:																
Raw sugar, total..... thous. sh. tons.	4,331	5,130	562	7,277	189	447	67	300	330	607	335	550	400	327	348	
From the Philippines..... do	900	1,136	48	7,118	49	53	28	63	56	16	54	131	114	66	134	
Refined sugar, total..... do	214	656	469	(*)												
Prices (New York):																
Raw, wholesale..... \$ per lb.	.135	.109	.114	.114	.114	.114	.114	.114	.114	.114	.135	.144	.150	.142	.145	.138
Refined:																
Retail (incl. N.E. New Jersey)..... \$ per 5 lb.	1.262	1.118	1.045	1.155	1.174	1.212	1.270	1.268	1.189	(*)						
Wholesale (excl. excise tax)..... \$ per lb.	.190	.169	.185	.187	.201	.193	.201	.200	.198	.191	.205	.213	.223	.214	.220	.223
Tea, imports..... thous. lb.	181,304	203,012	10,924	9,023	12,791	18,648	15,450	17,523	8,286	13,141	13,788	9,390	12,502	8,877	12,332	
FATS, OILS, AND RELATED PRODUCTS																
Baking or frying fats (incl. shortening):																
Production†..... mil. lb.	3,913.4	3,841.1	342.1	312.4	305.1	368.2	328.0	335.5	302.2	293.0	360.4	356.0	381.5	370.1	336.6	
Stocks, end of period⊕..... do	127.7	113.0	113.0	138.8	125.2	112.1	128.4	141.1	126.1	124.2	107.2	106.9	107.9	110.0	107.3	
Salad or cooking oils:																
Production†..... do	4,343.0	4,352.9	436.8	391.1	378.1	459.0	435.0	413.1	406.8	368.8	410.6	389.2	407.1	401.3	389.4	
Stocks, end of period⊕..... do	104.0	105.4	105.4	127.7	118.3	112.7	133.8	128.1	123.7	130.8	132.9	121.6	106.8	120.4	122.8	
Margarine:																
Production..... do	2,629.7	2,535.0	244.7	219.8	224.6	243.0	186.8	183.7	194.6	166.0	200.6	207.6	222.2	220.6	250.1	
Stocks, end of period⊕..... do	67.2	79.9	79.9	61.8	70.3	59.3	72.3	63.4	68.8	67.8	60.3	66.0	68.9	58.9	67.8	
Price, wholesale (colored; mfr. to wholesaler or large retailer; delivered)..... \$ per lb.	.443	.507	.500	.500	.500	.514	.552	.552	.552	.552	.525	.522	.521	.533	.528	.523
Animal and fish fats:																
Tallow, edible:																
Production (quantities rendered)..... mil. lb.	535.5	769.4	68.9	64.0	60.8	74.1	60.8	70.0	65.5	61.7	70.3	68.8	70.3	78.8	81.6	
Consumption in end products..... do	660.5	787.9	68.6	65.6	67.0	82.8	74.8	71.4	63.7	62.0	70.6	74.8	77.3	72.1	65.2	
Stocks, end of period†..... do	47.5	42.4	42.4	48.7	49.1	40.6	38.3	38.8	45.4	45.1	46.3	41.8	44.4	45.0	55.2	
Tallow and grease (except wool), inedible:																
Production (quantities rendered)†..... do	5,674.6	6,106.4	509.9	483.2	464.2	537.4	463.3	500.1	464.9	442.5	491.8	474.1	505.9	501.8	491.3	
Consumption in end products†..... do	3,367.2	3,180.5	257.8	254.8	261.9	294.4	281.7	296.3	263.1	242.5	273.6	250.3	286.0	270.1	243.6	
Stocks, end of period†..... do	354.8	347.2	347.2	352.0	349.0	352.3	289.2	292.7	289.3	309.6	346.1	394.0	304.2	348.8	350.2	

* Revised. † Preliminary. ‡ Average for July-Dec.; beginning July 1977, prices represent Midwest and Los Angeles and are not comparable with those for earlier periods. § Average for 2 mos. (May and Sept.). ¶ See "Δ" note, this page. †† Reflects revisions not distributed to the months. ‡‡ Beginning Aug. 1978, prices are estimated; not strictly comparable with those for earlier periods. ††† Because of an overall revision to the export commodity classification system effective Jan. 1, 1978, data may not be strictly comparable with those for earlier periods. †††† Beginning Jan. 1978, data are for both raw and refined sugar and are not comparable with those for earlier periods. ††††† Beginning Jan. 1978, data are no longer available; see note 7, this page. †††††† Beginning July 1978, data no longer available.

⊕ Cases of 30 dozen. ⊖ Bags of 132.276 lb. \$ Monthly data reflect cumulative revisions for prior periods. ⊗ Producers' and warehouse stocks. † Factory and warehouse stocks. ‡ Monthly revisions back to 1974 are available. Δ Effective April 1977 SURVEY data beginning Feb. 1976 are restated to exclude cooler pork; comparable earlier data will be shown later. † Revised series. Beginning May 1977 SURVEY, data represent total commercial slaughter (excluding rendered pork fat and lard), whereas the price for calves (p. S-28), represents a different market. Comparable data prior to Mar. 1976 will be shown later.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

FOOD AND KINDRED PRODUCTS; TOBACCO—Continued

FATS, OILS, AND RELATED PRODUCTS—Continued																
Vegetable oils and related products:																
Coconut oil:																
Production, refined..... mil. lb.	849.2	729.4	55.1	58.1	56.8	73.0	70.4	68.1	69.0	65.3	70.3	61.3	69.6	59.7	46.9	
Consumption in end products..... do.	990.3	878.7	65.0	69.3	71.0	81.5	88.9	87.6	76.1	73.6	79.0	72.4	84.0	75.4	55.6	
Stocks, refined, end of period ¶..... do.	40.1	39.9	39.9	36.6	35.9	46.0	48.2	41.2	40.7	38.7	39.0	43.0	40.6	40.3	44.4	
Imports..... do.	1,206.9	994.3	94.5	65.5	127.1	102.9	72.4	98.3	79.9	104.5	83.7	47.0	80.4	100.7	60.1	
Corn oil:																
Production: Crude..... do.	692.4	671.9	50.1	54.9	51.6	58.7	57.1	68.0	64.7	60.5	59.7	63.8	65.4	59.8	54.7	
Refined..... do.	562.2	577.0	49.0	47.6	43.2	51.1	44.4	53.3	48.1	41.4	55.1	52.7	54.4	46.3	43.5	
Consumption in end products..... do.	517.0	537.6	50.6	44.7	43.2	48.7	37.5	41.2	44.9	37.7	47.3	50.9	50.8	43.7	47.3	
Stocks, crude and ref., end of period ¶..... do.	42.1	33.4	33.4	26.7	31.9	33.4	41.2	52.3	62.9	69.3	71.0	72.6	70.1	74.6	70.4	
Cottonseed oil:																
Production: Crude..... do.	964.3	1,254.6	140.2	141.6	129.5	141.8	122.1	109.2	113.9	107.8	103.5	82.0	108.8	134.0	122.7	
Refined..... do.	819.8	1,188.8	134.6	132.4	117.0	136.6	122.5	109.9	114.1	110.0	117.5	84.7	108.8	116.0	100.7	
Consumption in end products..... do.	578.8	625.3	58.5	50.0	52.3	55.6	55.7	63.4	65.9	62.3	60.0	57.3	55.6	64.6	54.8	
Stocks, crude and ref., end of period ¶..... do.	191.6	142.3	142.3	162.3	167.0	188.4	193.4	165.4	139.7	114.3	102.3	84.8	101.4	123.0	127.1	
Exports (crude and refined)..... do.	520.9	731.2	67.2	50.6	68.2	84.9	61.6	59.8	63.5	70.2	50.0	82.3	25.9	29.2	82.5	
Price, wholesale (N.Y.)..... \$ per lb.	.297	.299	.300	.295	.288	.315	.315	.335	.333	.340	.355	.405	.340	.328	.330	.335
Soybean oil:																
Production: Crude..... mil. lb.	9,639.6	8,836.5	931.5	911.9	809.5	943.3	866.9	908.2	795.1	777.9	815.8	783.3	984.3	974.8	1,049.3	
Refined..... do.	7,185.4	7,789.5	745.0	719.2	665.9	816.9	752.3	746.3	662.5	649.2	725.3	679.9	782.8	747.7	785.9	
Consumption in end products..... do.	7,576.6	7,451.1	721.9	664.1	648.8	771.7	686.5	662.4	640.5	596.2	699.8	672.5	715.9	709.3	708.6	
Stocks, crude and ref., end of period ¶..... do.	1,488.1	864.0	864.0	918.8	861.2	808.3	826.9	833.8	839.3	825.6	777.5	728.6	813.4	837.1	969.8	
Exports (crude and refined)..... do.	1,088.4	1,666.9	175.3	113.1	141.8	252.6	218.9	176.4	147.2	165.5	108.8	193.4	96.8	154.8	175.4	
Price, wholesale (refined; N.Y.)..... \$ per lb.	.244	.289	.285	.265	.265	.320	.319	.336	.315	.320	.316	.330	.329	.293	.305	.309
TOBACCO																
Leaf:																
Production (crop estimate)..... mil. lb.	12,136	11,912														2,016
Stocks, dealers' and manufacturers', end of period..... mil. lb.	4,978	5,070	5,070			4,811			4,453		4,635					
Exports, incl. scrap and stems..... thous. lb.	577,997	628,564	102,364	52,539	55,604	73,157	40,904	32,316	29,178	42,661	52,266	41,319	85,785	95,786	86,258	
Imports, incl. scrap and stems..... do.	310,393	316,236	23,716	25,925	26,973	27,773	29,161	31,446	29,661	35,184	28,032	26,755	32,049	21,474	21,548	
Manufactured:																
Consumption (withdrawals):																
Cigarettes (small):																
Tax-exempt..... millions	72,126	78,133	6,734	5,399	6,769	7,362	6,973	6,981	7,971	5,925	9,141	8,002	7,634	7,522		
Taxable..... do.	617,892	592,006	42,886	48,436	49,326	55,317	50,268	54,390	58,267	44,397	54,308	50,321	53,367	53,689		
Cigars (large), taxable..... do.	4,041	3,776	284	280	271	329	282	319	345	235	298	322	346	323		
Exports, cigarettes..... do.	61,370	66,835	7,341	3,716	6,151	6,580	5,361	6,050	6,616	5,523	7,205	7,823	6,328	6,846	6,160	

LEATHER AND PRODUCTS

HIDES AND SKINS																
Exports:																
Value, total..... thous. \$.	552,276	582,906	52,871	45,523	47,562	58,535	61,207	55,370	55,846	47,511	58,797	54,396	60,090	58,503	91,186	
Calf and kid skins..... thous. skins.	2,162	2,508	336	211	160	288	265	194	199	222	189	339	181	177	241	
Cattle hides..... thous. hides.	25,270	24,488	2,235	1,893	2,021	2,270	2,375	2,122	2,078	1,725	2,176	1,779	1,922	1,754	2,676	
Imports:																
Value, total..... thous. \$.	89,100	96,600	8,100	6,700	10,200	10,800	12,200	11,400	8,800	8,300	7,800	7,600	7,700	7,100		
Sheep and lamb skins..... thous. pieces.	16,603	15,468	1,288	841	1,850	2,080	2,541	2,245	1,577	1,848	1,323	1,093	920	935	739	
Goat and kid skins..... do.	1,255	1,137	80	116	227	143	275	128	45	190	75	117	112	175	188	
Prices, wholesale, f.o.b. shipping point:																
Calfskins, packer, heavy, 9 1/2 lb..... \$ per lb.	3.755	4.914	.800	.900	.900	1.000	1.100	1.100	1.100	1.200	1.850	1.850	1.850	1.650	1.650	1.800
Hides, steer, heavy, native, over 53 lb..... do.	.338	.370	.380	.388	.378	.373	.413	.418	.458	.478	.530	.590	.573	.548	.518	.603
LEATHER																
Production:																
Calf and whole kip..... thous. skins.	(9)															
Cattle hide and side kip..... thous. hides and kips.	(9)															
Goat and kid..... thous. skins.	(9)															
Sheep and lamb..... do.	(9)															
Exports:																
Upper and lining leather..... thous. sq. ft.	2,033,707	2,206,276	18,240	17,364	15,309	16,408	16,720	18,899	21,427	14,160	19,726	16,224	17,438	17,947	17,176	
Prices, wholesale, f.o.b. tannery:																
Sole, bends, light..... index, 1967=100.	197.9	205.8	201.3	210.0	212.8	208.5	207.1	210.0		227.2	241.6	270.4	261.7	270.4	306.6	326.6
Upper, chrome calf, B and C grades..... index, 1967=100.	(9)															
LEATHER MANUFACTURES																
Footwear:																
Production, total..... thous. pairs.	422,507	391,121	31,172	32,395	32,572	37,271	36,173	36,761	34,221	24,481	34,445	31,629	33,530	31,262		
Shoes, sandals, and play shoes, except athletic..... thous. pairs.	345,433	309,770	25,605	26,955	26,498	29,895	27,870	28,871	26,516	19,987	26,827	24,116	25,103	24,139		
Slippers..... do.	64,880	65,961	4,371	4,204	4,698	5,520	6,010	5,991	5,830	3,248	5,857	5,799	6,501	5,402		
Athletic..... do.	10,064	12,642	929	978	1,020	1,479	1,568	1,578	1,474	947	1,362	1,384	1,501	1,306		
Other footwear..... do.	2,130	2,748	267	258	356	377	725	321	401	299	399	380	425	415		
Exports..... do.	6,023	5,411	453	395	378	585	495	448	514	454	605	467	546	612	679	
Prices, wholesale f.o.b. factory:																
Men's and boys' oxfords, dress, elk or side upper, Goodyear welt..... index, 1967=100.	179.1	193.3	197.9	200.8	206.8	206.8	211.4	211.4	211.4	211.4	213.8	218.6	221.0			
Women's oxfords, elk side upper, Goodyear welt..... index, 1967=100.	163.8	171.8	173.3	176.9	176.9	176.9	181.7	182.9	182.9	182.9	182.9	187.7	197.3	197.3	197.3	
Women's pumps, low-medium quality..... do.	143.4	144.9	146.8	146.8	146.8	146.8	157.4	161.3	161.3	161.3	161.3	161.3	170.9			

9 Revised. 1 Crop estimate for the year. 2 Annual total reflects revisions not distributed to the monthly data. 3 Average for Jan., Feb., and Apr.-Dec. 4 Average for Jan.-Sept., Nov. and Dec. 5 Average for Jan.-Nov. 6 Average for Feb.-Dec. 7 Because of an overall revision to the export commodity classification system effective Jan. 1, 1978, data may not be strictly comparable with those for earlier periods. 8 Crop estimate for 1978. 9 Data no longer available. 10 Includes data for items not shown separately. 11 Factory and warehouse stocks. 12 Monthly revisions back to Jan. 1977 are available.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

LUMBER AND PRODUCTS

LUMBER—ALL TYPES [?]																
National Forest Products Association:																
Production, total.....mil. bd. ft.	136,472	137,235	2,944	2,843	2,904	3,222	3,127	3,203	3,333	2,988	3,263	3,285	3,333	3,102		
Hardwoods.....do	6,442	6,185	456	442	430	497	571	546	574	597	591	580	629	618		
Softwoods.....do	30,030	31,050	2,488	2,401	2,474	2,725	2,556	2,657	2,759	2,391	2,672	2,705	2,704	2,484		
Shipments, total.....do	136,328	137,521	2,983	2,699	2,741	3,158	3,133	3,355	3,548	3,156	3,357	3,250	3,262	3,116		
Hardwoods.....do	6,426	6,297	455	426	456	511	574	583	600	574	567	577	601	600		
Softwoods.....do	29,902	31,224	2,528	2,273	2,285	2,647	2,559	2,772	2,948	2,582	2,790	2,673	2,661	2,516		
Stocks (gross), mill, end of period, total.....do	5,111	4,862	4,862	4,963	5,128	5,201	5,190	5,088	4,877	4,705	4,632	4,669	4,740	4,731		
Hardwoods.....do	891	780	780	787	763	749	752	715	687	706	732	737	765	783		
Softwoods.....do	4,220	4,082	4,082	4,176	4,365	4,452	4,438	4,373	4,190	3,999	3,900	3,932	3,975	3,948		
Exports, total sawmill products.....do	1,909	1,670	142	72	94	110	125	212	118	93	88	94	96	96		
Imports, total sawmill products.....do	8,178	10,698	911	865	840	939	915	1,173	1,117	1,194	1,119	1,014	1,091	979	100	954
SOFTWOODS																
Douglas fir:																
Orders, new.....mil. bd. ft.	8,377	8,712	816	738	712	846	757	807	833	705	634	779	742	632	718	
Orders, unfilled, end of period.....do	634	565	565	607	586	649	679	706	614	597	548	610	612	526	553	
Production.....do	8,322	8,796	770	769	810	812	745	745	816	619	672	738	790	707	689	
Shipments.....do	8,293	8,781	764	696	733	783	727	780	925	722	717	717	740	718	691	
Stocks (gross), mill, end of period.....do	949	964	964	1,037	1,114	1,143	1,161	1,126	1,017	914	886	907	957	946	944	
Exports, total sawmill products.....do	602	488	51	28	39	52	37	52	50	47	30	35	39	34	35	
Sawed timber.....do	180	129	7	5	9	17	10	16	19	4	7	11	8	7	7	
Boards, planks, scantlings, etc.....do	422	359	44	23	29	36	27	36	31	44	23	24	31	27	28	
Price, producer: Dimension, construction, dried, 2' x 4', R. L. \$ per M bd. ft.	191.24	230.38	227.70	238.08	241.81	246.28	238.48	238.43	245.28	245.00	272.06	274.74	266.66	271.51	262.40	258.77
Southern pine:																
Orders, new.....mil. bd. ft.	17,467	18,317	637	624	591	790	767	761	696	668	769	671	738	626		
Orders, unfilled, end of period.....do	443	470	470	500	495	552	563	588	552	544	561	541	542	510		
Production.....do	17,575	18,224	621	608	622	728	730	735	728	669	733	688	737	663		
Shipments.....do	17,477	18,290	633	594	596	733	756	736	732	676	752	691	737	658		
Stocks (gross), mill and concentration yards, end of period.....mil. bd. ft.	1,232	1,166	1,166	1,180	1,206	1,210	1,175	1,174	1,170	1,163	1,144	1,141	1,141	1,146		
Exports, total sawmill products.....M bd. ft.	140,386	157,806	9,005	14,712	9,784	14,492	14,920	12,506	15,495	8,991	10,324	12,161	10,467	15,751	12,518	
Prices, producer (indexes): Boards, No. 2 and better, 1' x 6", R. L. 1967=100.....	207.5	271.0	294.3	299.7	305.5	313.6	321.5	329.7	331.5	333.6	337.7	343.4	346.4	347.1	347.8	348.6
Flooring, C and better, F. G., 1' x 4", S. L. 1967=100.....	233.6	250.2	264.6	267.9	269.0	272.4	271.2	274.4	274.4	276.6	280.6	282.1	283.8	284.3	285.4	285.4
Western pine:																
Orders, new.....mil. bd. ft.	9,760	10,331	865	696	752	850	739	877	874	854	889	980	908	714	774	
Orders, unfilled, end of period.....do	554	590	590	567	618	636	596	546	526	544	506	545	545	462	469	
Production.....do	9,789	10,309	821	744	759	871	790	865	843	786	901	927	897	776	751	
Shipments.....do	9,744	10,295	832	719	701	832	779	927	894	836	927	941	908	797	767	
Stocks (gross), mill, end of period.....do	1,315	1,329	1,329	1,354	1,412	1,451	1,462	1,400	1,349	1,299	1,273	1,259	1,248	1,227	1,211	
Price, producer, Ponderosa, boards, No. 3, 1' x 12', R. L. (6' and over).....\$ per M bd. ft.	184.31	231.53	226.17	247.58	263.85	264.90	267.57	240.07	251.25	232.33	236.92	254.23	267.17	([†])	317.01	304.49
HARDWOOD FLOORING																
Oak:																
Orders, new.....mil. bd. ft.	114.5	112.8	8.1	9.8	8.6	10.8	9.5	9.3	9.3	8.5	10.5	7.9	9.8	8.3		
Orders, unfilled, end of period.....do	4.2	7.9	7.9	8.9	9.1	10.4	10.7	11.6	10.2	11.4	11.4	10.6	11.0	9.6		
Production.....do	104.5	109.8	9.1	7.9	8.0	9.9	9.0	8.8	9.1	7.2	9.9	8.7	8.9	9.4		
Shipments.....do	109.3	110.0	7.3	8.8	8.5	9.4	9.2	8.5	10.1	7.4	10.4	8.7	9.4	8.7		
Stocks (gross), mill, end of period.....do	8.9	6.2	6.2	5.3	4.8	5.4	5.2	5.4	4.0	3.7	3.1	3.2	2.7	3.4		

METALS AND MANUFACTURES

IRON AND STEEL																
Exports:																
Steel mill products.....thous. sh. tons	2,654	2,003	149	160	208	191	205	255	271	174	208	174	218	194	248	
Scrap.....do	8,120	6,175	475	642	444	628	695	821	786	756	777	834	977	973	944	
Pig iron.....do	57	51	1	1	1	5	(³)	1	1	5	7	1	11	8	11	
Imports:																
Steel mill products.....do	14,285	19,307	2,087	1,538	2,220	1,988	2,175	1,511	1,360	1,785	1,870	1,584	1,715	2,016	1,372	
Scrap.....do	507	625	50	53	46	71	45	127	55	77	71	70	51	67	60	
Pig iron.....do	415	373	53	44	7	61	35	38	99	42	78	88	41	75	48	
Iron and Steel Scrap [†]																
Production.....thous. sh. tons	150,035	149,523	3,968	3,824	3,714	4,730	4,477	4,581	4,605	4,070	4,565	4,426	4,699	4,464		
Receipts, net.....do	141,144	147,873	3,729	3,679	3,868	4,396	4,265	4,851	4,509	4,144	4,426	4,186	4,443	4,393		
Consumption.....do	189,914	192,090	7,368	7,541	7,374	8,347	8,488	8,938	8,579	7,659	8,279	8,338	8,918	8,506		
Stocks, end of period.....do	19,988	19,360	9,360	8,923	8,797	9,017	8,779	8,738	8,747	8,865	9,018	8,808	8,536	8,448		
Prices, steel scrap, No. 1 heavy melting: Composite (5 markets).....\$ per lg. ton	73.62	255.99	56.34	66.04	68.94	71.90	75.42	71.46	71.38	76.00	75.40	72.81	71.67	79.05		
Pittsburgh district.....do	79.10	80.35	61.50	73.00	74.50	77.00	80.50	75.50	75.00	82.50	78.50	75.50	75.50	83.50	88.50	93.50

[†] Revised. [‡] Preliminary. ¹ Annual data; monthly revisions are not available.
² Effective with Feb. 1977, composite reflects substitution of Los Angeles for San Francisco;
effective July 1977, it reflects addition of Detroit and Houston. Avg. for 1977 is for July-Dec.
³ Less than 500 short tons. ⁴ Data not available. ⁵ Totals include data for types of

lumber not shown separately. [†] Effective Aug. 1976 SURVEY, scrap excludes imports of
rerolling rails and pig iron excludes sponge iron imports previously included. [‡] Effective
with 1974 annual and Jan. 1975 figures, data reflect expanded sample and exclusion of direct-
reduced (prereduced) iron, previously included in scrap series.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

METALS AND MANUFACTURES—Continued

IRON AND STEEL—Continued																
Ore																
Iron ore (operations in all U.S. districts):																
Mine production.....thous. lg. tons..	79,200	55,750	3,843	5,104	4,820	6,425	6,034	7,751	7,988	7,559	7,593	7,314	7,032	6,546		
Shipments from mines.....do.....	77,216	54,053	4,051	3,871	2,475	2,489	5,299	8,558	8,754	9,757	9,779	8,707	8,088	7,667		
Imports.....do.....	40,967	37,905	3,145	0	1,316	1,643	1,291	2,102	2,182	3,686	4,488	4,534	1,610	4,015		
U.S. and foreign ores and ore agglomerates:																
Receipts at iron and steel plants.....do.....	117,697	94,044	7,697	4,408	4,185	4,639	6,363	10,907	11,448	11,787	14,658	12,291	12,285	11,524	9,732	
Consumption at iron and steel plants.....do.....	114,324	108,462	8,469	8,735	8,321	9,048	9,379	10,114	10,216	9,940	10,137	9,797	10,323	9,954	10,341	
Exports.....do.....	2,913	2,143	111	87	2	2	390	393	403	143	348	520	317	733		
Stocks, total, end of period.....do.....	75,035	59,390	59,390	56,342	54,092	53,084	50,360	49,862	51,887	51,561	53,791	54,681	55,500	56,432		
At mines.....do.....	14,026	14,140	14,140	15,358	17,702	21,687	22,411	21,598	20,968	18,772	16,461	15,165	14,104	12,982		
At furnace yards.....do.....	56,246	42,271	42,271	37,915	33,701	29,195	26,199	26,903	28,127	29,939	34,349	36,798	38,585	40,049	39,301	
At U.S. docks.....do.....	4,763	2,979	2,979	3,069	2,689	2,202	1,750	1,361	22,792	2,850	2,981	2,778	2,811	3,401	3,569	
Manganese (mn. content), general imports.....do.....	1,053	834	64	94	50	113	49	71	55	82	42	97	62	64		
Pig Iron and Iron Products																
Pig iron:																
Production (excluding production of ferroalloys).....thous. sh. tons..	86,870	81,328	6,419	6,390	5,971	6,894	7,189	7,936	7,754	7,637	7,518	7,391	7,809	7,533	7,688	7,064
Consumption.....do.....	86,929	82,017	6,498	6,452	6,061	7,013	7,316	7,969	7,770	7,611	7,527	7,463	7,887	7,594	7,721	
Stocks, end of period.....do.....	1,513	1,309	1,309	1,271	1,200	1,108	1,916	997	1,014	1,068	1,080	1,047	983	965	883	
Price, basic furnace.....\$ per sh. ton..	\$ 182.33	\$ 183.11	191.00	191.00	191.00	191.00	191.00	191.00	191.00	191.00	203.00	203.00	203.00	203.00	203.00	203.00
Castings, gray and ductile iron:																
Orders, unfilled, for sale, end of period.....thous. sh. tons..	832	935	935	949	990	1,009	1,969	976	984	946	1,000	963	917	906		
Shipments, total.....do.....	14,168	15,618	1,102	1,090	1,161	1,327	1,301	1,423	1,406	1,148	1,330	1,279	1,444	1,310		
For sale.....do.....	6,859	7,496	553	543	596	646	663	737	734	587	711	673	729	663		
Castings, malleable iron:																
Orders, unfilled, for sale, end of period.....thous. sh. tons..	56	65	65	71	60	63	64	66	63	62	64	64	65	65		
Shipments, total.....do.....	848	829	60	59	65	75	70	74	74	56	68	68	75	71		
For sale.....do.....	491	458	31	32	35	42	39	41	41	29	37	35	41	39		
Steel, Raw and Semifinished																
Steel (raw):																
Production.....thous. sh. tons..	128,000	125,333	10,031	10,301	9,643	11,083	11,528	12,320	11,861	11,388	11,550	11,467	12,105	11,654	11,812	11,105
Rate of capability utilization*.....percent..	80.9	78.4	74.7	77.2	80.1	83.1	88.5	91.5	91.1	85.1	86.3	88.6	89.8	89.4	87.7	83.5
Steel castings:																
Orders, unfilled, for sale, end of period.....thous. sh. tons..	431	451	451	494	461	502	512	492	501	592	634	668	711	733		
Shipments, total.....do.....	1,804	1,718	132	152	141	158	153	168	162	124	156	159	173	162		
For sale, total.....do.....	1,513	1,488	116	135	124	138	133	145	140	108	134	139	153	142		
Steel Mill Products																
Steel products, net shipments:																
Total (all grades).....thous. sh. tons..	189,447	91,147	7,020	7,323	7,539	8,718	8,055	8,610	8,787	7,608	8,293	8,252	8,599	7,813	8,196	
By product:																
Semifinished products.....do.....	4,384	13,991	311	352	344	425	434	491	467	393	457	491	463	423	461	
Structural shapes (heavy), steel piling.....do.....	4,187	4,382	380	376	354	421	413	460	444	393	426	419	422	424	424	
Plates.....do.....	7,160	7,529	636	649	596	738	714	767	772	694	697	683	701	690	746	
Rails and accessories.....do.....	2,017	1,863	140	136	132	157	146	155	141	111	123	140	156	145	154	
Bars and tool steel, total.....do.....	14,234	15,420	1,239	1,221	1,236	1,438	1,423	1,509	1,524	1,272	1,463	1,465	1,531	1,370	1,430	
Bars: Hot rolled (incl. light shapes).....do.....	8,664	9,362	731	769	754	854	827	884	904	661	845	877	916	796	856	
Reinforcing.....do.....	3,876	4,179	371	284	307	384	412	437	430	359	436	407	422	411	408	
Cold finished.....do.....	1,618	1,794	130	161	169	191	177	180	182	149	174	173	185	155	159	
Pipe and tubing.....do.....	6,265	7,490	672	636	708	804	737	779	737	643	698	683	699	652	619	
Wire and wire products.....do.....	2,461	2,400	165	192	198	235	231	228	235	175	211	204	219	199	184	
Tin mill products.....do.....	6,436	6,382	431	461	645	566	449	502	549	472	498	536	487	410	524	
Sheets and strip (incl. electrical), total.....do.....	42,303	41,687	3,046	3,300	3,326	3,933	3,509	3,719	3,918	3,455	3,720	3,630	3,921	3,499	3,653	
Sheets: Hot rolled.....do.....	15,090	14,558	1,103	1,127	1,190	1,406	1,207	1,297	1,349	1,176	1,316	1,288	1,391	1,292	1,384	
Cold rolled.....do.....	18,265	17,684	1,201	1,382	1,373	1,644	1,445	1,527	1,629	1,430	1,512	1,473	1,588	1,398	1,420	
By market (quarterly shipments):																
Service centers and distributors⊕.....do.....	14,615	15,346	3,746			4,179			4,709			4,159			4,320	
Construction, incl. maintenance⊕.....do.....	7,508	7,553	1,769			2,079			2,497			2,432			2,463	
Contractors' products.....do.....	4,502	4,500	1,051			939			926			934			922	
Automotive.....do.....	21,351	21,490	4,996			5,117			5,257			5,365			5,526	
Rail transportation.....do.....	3,056	3,238	775			820			856			864			1,015	
Machinery, industrial equip., tools.....do.....	5,180	5,566	1,428			1,477			1,577			1,497			1,486	
Containers, packaging, ship. materials.....do.....	6,914	6,714	1,296			1,790			1,652			1,615			1,544	
Other⊕.....do.....	26,371	26,740	6,519			7,179			7,977			7,287			7,330	
Steel mill shapes and forms, inventories, end of period—total for the specified sectors:																
Producing mills, inventory, end of period.....mil. sh. tons..	36.4	34.1	34.1	34.1	33.1	32.6	32.5	33.7	33.7	34.9	35.1	35.1				
Steel in process.....do.....	12.2	10.1	10.1	10.0	9.4	9.1	9.2	9.5	9.7	10.6	10.6	10.7	10.9			
Finished steel.....do.....	7.5	7.6	7.6	7.8	7.4	6.8	7.0	7.3	7.0	7.1	7.2	7.3	7.4			
Service centers (warehouses), inventory, end of period.....mil. sh. tons..	6.5	6.6	6.6	6.4	6.4	6.7	6.6	7.1	7.1	7.1	7.1	7.1				
Consumers (manufacturers only):																
Inventory, end of period.....do.....	10.2	9.8	9.8	9.9	9.9	10.0	9.7	9.8	9.8	10.1	10.2	10.0	10.0			
Receipts during period.....do.....	62.6	63.4	4.6	5.1	5.2	5.9	5.7	6.2	6.1	5.0	5.8	5.4	6.0			
Consumption during period.....do.....	62.9	63.9	4.7	5.0	5.2	5.8	6.0	6.1	6.1	4.7	5.7	5.6	6.0			

* Revised. † Preliminary. ‡ Annual data; monthly or quarterly revisions are not available. § For month shown. ¶ Avg. for 8 months; price not available for July-Oct. 1976. †† See note "⊕" for this page. ††† Avg. for 11 months; Feb. price not available. †††† New series. Source: American Iron and Steel Institute. The production rate of capability utilization is based on tonnage capability to produce raw steel for a full order book

based on the current availability of raw materials, fuels and supplies, and of the industry's coke, iron, steelmaking, rolling and finishing facilities. Data prior to 1975 are not available. ⊕ Beginning Jan. 1976, data are not comparable with those for earlier periods since oil & gas supply houses and pipelines, which were formerly shown in "Service centers and distributors" and "Construction, incl. maintenance," respectively, are now included in "Other."

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1978												1979
	Annual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

METALS AND MANUFACTURES—Continued

NONFERROUS METALS AND PRODUCTS														
Aluminum:														
Production, primary (dom. and foreign ores) thous. sh. tons	4,251	4,539	395	400	366	395	387	405	395	408	410	399	416	403
Recovery from scrap (aluminum content) do	1,346	1,367	106	110	104	117	114	114	118	107	125	122	127	132
Imports (general):														
Metal and alloys, crude do	568.7	673.3	57.5	30.0	36.0	46.1	29.5	37.7	41.2	30.8	27.8	17.8	44.7	23.2
Plates, sheets, bars, etc do	87.1	73.8	7.1	1.5	2.8	3.1	2.4	2.4	2.1	4.8	5.2	2.2	2.4	2.8
Exports:														
Metal and alloys, crude do	152.4	97.8	7.2	3.7	5.7	6.1	4.2	7.0	9.3	8.5	11.0	15.9	17.7	23.1
Plates, sheets, bars, etc do	222.1	207.9	22.8	13.0	19.6	19.0	14.8	19.5	17.3	15.1	14.5	19.5	13.8	15.4
Price, primary ingot, 99.5% minimum \$ per lb.	.4449	.5132	.5300	.5300	.5300	.5300	.5300	.5300	.5300	.5300	.5300	.5300	.5300	.5390
Aluminum products:														
Shipments:														
Ingot and mill prod. (net ship.) mil. lb.	12,568	13,199	1,146	932	1,026	1,267	1,081	1,228	1,258	1,107	1,197	1,175	1,344	1,181
Mill products, total do	9,716	10,420	818	852	889	986	933	988	995	878	1,008	936	980	
Sheet and plate do	5,584	6,041	496	476	504	552	528	565	556	509	562	535	552	
Castings do	1,845	2,009	155	158	171	184	164	172	171	126	165	165	184	175
Inventories, total (ingot, mill products, and scrap), end of period mil. lb.	5,631	5,685	5,685	5,811	5,802	5,732	5,751	5,697	5,666	5,705	5,588	5,612	5,579	
Copper:														
Production:														
Mine, recoverable copper thous. sh. tons	11,605.6	1,518.0	124.6	125.4	122.5	133.5	129.3	133.7	128.0	97.8	125.1	123.2	130.4	127.6
Refinery, primary do	11,539.3	1,496.2	120.2	116.3	116.0	134.6	119.8	129.6	128.4	104.8	133.6	123.4	136.4	147.4
From domestic ores do	11,422.7	1,411.0	112.7	108.7	99.8	124.4	113.7	119.3	121.4	96.9	126.9	117.4	128.5	136.1
From foreign ores do	116.6	85.2	7.5	7.6	16.2	10.2	6.1	10.3	7.0	8.9	6.7	6.0	7.9	11.3
Secondary, recovered as refined do	353.0	364.0	28.0	29.0	31.0	41.0	41.0	41.0	44.0	30.0	36.0	37.0		
Imports (general):														
Refined, unrefined, scrap (copper cont.) do	547.4	528.1	71.3	64.0	55.5	69.3	94.5	62.6	63.8	46.5	38.6	28.4	34.5	24.8
Refined do	384.1	394.0	55.8	47.4	45.9	58.2	77.9	47.8	53.4	39.2	28.7	17.6	27.7	12.3
Exports:														
Refined and scrap do	250.0	220.3	22.8	17.1	19.1	24.2	20.4	28.1	26.5	23.3	31.6	41.2	20.8	34.4
Refined do	113.1	52.7	6.9	4.7	4.9	11.9	7.3	11.4	10.1	7.2	10.2	22.2	5.3	5.3
Consumption, refined (by mills, etc.) do	1,995	2,202	526			566			635			621	216	207
Stocks, refined, end of period do	651	649	649	658	647	620	648	637	642	595	578	560	550	
Fabricators do	177	178	178	184	151	144	162	163	156	144	135	130	154	133
Price, electrolytic (wirebars), dom., delivered \$ per lb.	.6956	.6677	.6194	.6362	.6359	.6241	.6462	.6477	.6657	.6408	.6723	.6763	.7050	.7119
Copper-base mill and foundry products, shipments (quarterly total):														
Brass mill products mil. lb.	2,517	2,668	582			649								
Copper wire mill products (copper cont.) do	2,383	2,667	683			679								
Brass and bronze foundry products do	547	583	137			145								
Lead:														
Production:														
Mine, recoverable lead thous. sh. tons	1,609.5	1,589.2	51.1	49.8	45.0	57.1	49.4	54.3	40.1	35.5	47.6	49.5	55.5	50.0
Recovered from scrap (lead cont.) do	682.5	734.4	61.2	54.7	56.4	63.7	57.8	64.3	62.1	54.1	62.6	68.5	71.2	
Imports (general), ore (lead cont.), metal do	224.6	204.3	12.0	5.4	3.4	13.2	7.7	5.5	4.8	11.0	11.0	4.5	7.4	5.2
Consumption, total do	1,429.1	1,582.3	121.8	122.5	115.0	125.2	122.5	117.4	121.6	99.5	125.2	124.9	140.0	
Stocks, end of period:														
Producers', ore, base bullion, and in process (lead content), ABMS thous. sh. tons	180.7	184.6	184.6	182.1	176.4	184.4	189.8	198.6	198.5	199.2				
Refiners' (primary), refined and antimonial (lead content) thous. sh. tons	43.7	15.4	15.4	15.4	15.8	20.0	31.4	31.4	32.1	30.1	24.2	19.6	17.5	
Consumers' (lead content) do	110.1	109.3	109.3	106.0	111.7	119.4	111.9	119.7	115.9	113.8	109.6	115.6	113.4	
Scrap (lead-base, purchased), all smelters (gross weight) thous. sh. tons	96.0	91.3	91.3	97.6	94.2	83.7	82.8	73.8	64.4	61.1	63.8	63.7	68.7	
Price, common grade, delivered \$ per lb.	.2310	.3070	.3852	.3300	.3300	.3300	.3300	.3100	.3100	.3100	.3217	.3406	.3661	.3800
Tin:														
Imports (for consumption):														
Ore (tin content) metric tons	5,733	6,724	1,089	169	273	664	439	635	40	62	355	273	52	193
Metal, unwrought, unalloyed do	45,055	48,338	3,000	2,911	4,727	5,070	4,369	3,438	5,413	3,144	3,382	3,861	3,410	4,518
Recovery from scrap, total (tin cont.) do	16,446	15,380	1,165	1,160	1,255	1,505	1,485	1,555	1,630	1,215	1,410	1,285	1,955	
As metal do	1,467	1,790	120	175	145	125	135	160	155	155	150	150	175	
Consumption, total do	62,928	68,000	5,100	5,400	5,000	5,500	5,200	5,700	5,400	4,600	5,200	5,200	5,300	5,400
Primary do	53,850	55,500	4,300	4,500	3,700	4,100	3,900	4,200	4,000	3,500	3,700	3,700	4,000	4,000
Exports, incl. reexports (metal) do	2,337	5,462	430	324	380	579	617	405	384	274	508	298	269	280
Stocks, pig (industrial), end of period do	7,282	8,441	8,441	7,626	6,628	6,291	7,785	8,139	7,846	7,817	7,260	5,774	4,975	5,666
Price, Straits quality (delivered)* \$ per lb.	\$3.7982	\$5.3460	6.1518	5.9230	5.9336	5.5757	5.3962	5.7027	6.0092	6.0700	6.3925	6.7484	7.3918	7.4502
Zinc:														
Imports (general):														
Ores (zinc content) do	97.1	121.9	12.5	3.8	10.9	13.7	17.9	13.0	19.0	6.0	25.6	9.2	25.3	29.2
Metal (slab, blocks) do	714.5	575.5	60.6	64.9	43.4	35.1	65.1	78.8	58.1	49.9	47.4	49.2	54.0	53.4
Consumption (recoverable zinc content):														
Ores do	96.6	100.8	8.2	7.0	7.8	8.4	8.8	9.9	8.6	8.8	8.1	7.4	6.8	
Scrap, all types do	202.3	238.2	27.2	27.2	27.2	28.6	28.4	16.4	15.9	15.6	15.6	23.0	23.1	
Slab zinc: \$														
Production (primary smelter), from domestic and foreign ores:														
Secondary (redistilled) production do	498.9	392.6	38.0	36.6	30.0	27.0	30.1	32.0	31.3	31.7	34.5	33.5		
Consumption, fabricators do	63.6	41.4	2.9	2.6	2.9	3.4	3.4	3.7	3.2	2.7	3.1	3.9	2.9	
Exports do	1,134.1	1,103.1	79.6	85.9	84.0	96.0	93.0	99.0	99.9	84.3	100.0	96.4		
Stocks, end of period:	3.5	2	(2)	(2)	.1	.1	(2)	(2)	.1	(2)	.4	(2)	.1	.1
Producers', at smelter (ABMS) do	88.8	65.8	65.8	64.3	62.8	56.9	50.0	40.9	32.5	31.8	27.4	30.1	26.9	32.9
Consumers' do	111.8	86.8	86.8	76.7	81.0	83.6	86.4	82.5	88.1	93.2	92.3	96.8	89.0	39.4
Price, Prime Western \$ per lb.	.3701	.3439	.3050	.3050	.3006	.2900	.2900	.2900	.2901	.2980	.3116	.3237	.3283	.3442

* Revised. † Annual data; monthly revisions are not available. ‡ Less than 50 tons.
 § See "****" note for this page. ¶ For month shown.
 ♂ 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. ○ Revised Dec. 31 stocks for 1970-73 (thous. tons): 124.2; 48.6; 30.1, 25.0. Producers' stocks elsewhere, end of Jan. 1979, 20,225 tons.

* New series effective with data for Jan. 1976. Source: Metals Week. MW Composite monthly price (Straits quality, delivered) is based on average of daily prices at two markets (Penang, Malaysia—settlement, and LME 3-month—High grade), and includes fixed charges plus dealer's and consumer's 70-day financing costs; no comparable earlier prices are available.
 † Effective with the Apr. 1977 SURVEY, data are expressed in metric tons (to convert U.S. long tons to metric tons, multiply by factor, 1.01605).

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

METALS AND MANUFACTURES—Continued

MACHINERY AND EQUIPMENT																
Heating, combustion, atmosphere equipment, new orders (domestic), net, qtrly. ¹ mil. \$	184.3	1 240.8	65.7													
Electric processing heating equip. do.	35.8	1 68.0	16.0													
Fuel-fired processing heating equip. do.	77.3	1 92.5	30.3													
Material handling equipment (industrial): Orders (new), index, seas. adj. 1967=100	167.5	232.3	278.5	286.5	246.2	298.6	334.0	362.1	351.0	318.2	433.5	308.0	353.0			
Industrial trucks (electric), shipments: Hand (motorized) number	15,786	18,000	1,652	1,363	1,775	1,897	1,539	2,043	1,815	1,297	1,699	1,882	1,986	1,842		
Rider-type do.	16,152	21,409	1,867	1,614	1,912	2,441	2,173	2,241	2,128	1,609	2,190	2,214	2,275	2,191		
Industrial trucks and tractors (internal combustion engines), shipments number	33,930	43,289	2,893	3,219	4,378	4,675	4,312	3,839	5,200	3,106	4,645	4,972	5,054	4,486		
Industrial supplies, machinery and equipment: New orders index, seas. adjusted 1967-69=100	165.4	199.2	211.4	213.8	215.4	218.6	222.8	226.2	228.3	227.5	225.4	232.7	251.3	258.0	231.1	
Industrial suppliers distribution: Sales index, seas. adjusted 1967=100	183.8	207.4	208.8	208.9	208.7	224.0	233.6	233.9	242.2	238.6	243.3	253.7	250.6	253.3	247.2	
Price index, not seas. adj. (tools, material handling equip., valves, fittings, abrasives, fasteners, metal products, etc.) 1967=100	178.4	191.4	196.8	198.6	199.8	200.6	201.5	202.3	203.7	205.6	206.9	207.8	210.1	212.5	213.8	
Machine tools: Metal cutting type tools: Orders, new (net), total mil. \$	1,662.15	2,202.05	250.40	230.55	234.40	258.90	302.20	267.40	316.95	249.30	274.65	253.00	334.05	352.90	246.15	
Domestic do.	1,476.60	1,980.70	222.45	205.45	210.00	230.80	273.70	235.30	280.55	231.20	255.10	234.40	312.00	335.95	204.35	
Shipments, total do.	1,482.10	1,650.80	204.15	146.25	151.60	206.00	178.70	189.45	216.05	137.75	161.70	193.60	195.05	188.85	189.05	
Domestic do.	1,269.85	1,469.85	175.20	130.95	140.35	188.35	158.65	175.25	193.05	123.55	142.90	172.40	173.10	164.60	170.25	
Order backlog, end of period do.	1,242.4	1,793.6	1,793.6	1,877.9	1,960.7	2,013.6	2,137.1	2,215.7	2,315.9	2,427.5	2,540.5	2,594.9	2,733.8	2,897.9	2,955.0	
Metal forming type tools: Orders, new (net), total do.	568.05	794.85	68.30	83.80	76.95	65.40	76.70	87.45	75.80	72.25	100.15	81.70	79.95	88.15	78.75	
Domestic do.	508.95	730.70	62.25	76.35	71.30	62.60	70.80	80.20	69.60	66.95	93.95	75.35	74.55	81.45	72.25	
Shipments, total do.	577.55	629.95	55.90	63.00	50.00	66.35	64.25	66.25	76.90	70.65	53.70	65.15	71.75	85.55	91.35	
Domestic do.	473.50	560.35	50.70	55.55	44.30	61.40	55.45	61.20	68.95	64.40	49.00	57.55	65.45	70.85	74.10	
Order backlog, end of period do.	209.2	384.1	384.1	394.9	421.9	420.9	433.4	454.6	453.5	455.1	501.5	518.0	526.3	528.9	516.3	
Tractors used in construction, shipments, qtrly: Tracklaying, total units	19,533	19,942	5,051			5,820					4,752		2,064			
mil. \$	1,025.7	1,127.8	303.8			350.1					361.0		124.6			
Wheel (contractors' off-highway) units	3,772	5,271	1,284			1,537					1,546		1,464			
mil. \$	238.3	330.1	86.3			107.7					119.1		105.7			
Tractor shovel loaders (integral units only), wheel and tracklaying types units	34,543	42,730	10,134			11,825					13,076		12,031			
mil. \$	975.7	1,328.2	319.3			394.7					464.9		400.9			
Tractors, wheel, farm, nonfarm (ex. garden and construction types), ship., qtrly units	207,036	207,239	47,863			45,912					47,931		37,911		16,565	
mil. \$	2,451.5	2,758.7	668.5			693.5					706.6		552.8		286.6	
ELECTRICAL EQUIPMENT																
Batteries (auto.-type replacement), ship. thous.	49,203	54,601	5,878	4,711	4,209	3,975	3,287	3,456	3,695	3,703	5,247	5,972	6,442	5,692	5,056	
Radio sets, production, total market thous.	44,102	52,926	6,231	2,700	2,907	5,422	3,272	3,883	5,585	4,328	4,313	4,831	3,937	3,246	3,610	3,552
Television sets (incl. combination models), production, total market thous.	14,131	15,432	1,359	1,103	1,197	1,674	1,368	1,288	1,678	1,225	1,279	2,044	1,538	1,345	1,666	1,224
Household major appliances (electrical), factory shipments (domestic and export) ² thous.	25,800	30,957	2,159	2,195	2,422	3,343	3,100	3,205	3,247	2,616	2,789	2,720	2,855	2,554	2,225	
Air conditioners (room) do.	12,962	3,270	184	233	270	569	703	639	591	307	111	101	130	162	240	
Dishwashers do.	3,140	3,356	258	230	266	345	307	330	320	211	301	288	342	342	276	
Disposers (food waste) do.	2,515	2,941	220	234	273	291	280	277	280	255	278	287	335	293	231	
Ranges do.	2,462	3,011	251	216	230	305	293	307	296	249	234	274	298	259	221	
Refrigerators do.	4,817	5,707	350	360	388	569	480	536	604	548	586	528	518	431	346	
Freezers do.	1,548	1,598	76	100	114	150	118	153	191	163	168	115	103	81	67	
Washers do.	4,492	4,933	340	348	410	513	416	446	435	376	469	468	463	372	325	
Dryers (incl. gas) do.	3,173	3,553	273	263	287	375	296	288	271	246	327	340	347	324	256	
Vacuum cleaners (qtrly) do.	9,285	9,392	4,411			1,747			3,084			2,162				
GAS EQUIPMENT (RESIDENTIAL)																
Furnaces, gravity and forced-air, shipments thous.	1,554	1,508	140	121	124	133	130	118	127	126	137	155				
Ranges, total, sales do.	1,824	1,746	158	110	141	157	154	161	168	124	146	168				
Water heaters (storage), automatic, sales do.	3,112	4,070	245	230	242	270	286	275	217	217	230	217				

PETROLEUM, COAL, AND PRODUCTS

COAL																
Anthracite: Production ¹ thous. sh. tons	6,228	6,175	405	430	340	610	575	650	595	570	680	575	535	575	550	
Exports do.	615	625	11	24	33	52	19	62	31	43	66	116	142	100	179	
Price, wholesale, chestnut, f.o.b. car at mine \$ per sh. ton	46.428	46.579	46.579	46.579	46.579	46.579	46.579		47.192	47.192	47.498	47.542	47.537	47.530	47.675	47.677
Bituminous: Production ¹ thous. sh. tons	678,685	688,575	30,930	23,115	23,520	38,765	59,530	62,220	65,565	53,640	64,395	57,775	69,660	69,245	59,630	

¹ Revised. ² Preliminary. ³ Annual data; monthly or quarterly revisions not avail. ⁴ Data cover 5 weeks; other periods, 4 weeks. ⁵ For month shown. ⁶ Beginning July 1977, data include shipments to mobile home and travel trailer manufacturers (formerly excluded); they are not directly comparable with those for earlier periods.

⁷ Includes data not shown separately. ⁸ Monthly revisions back to 1973 are available upon request. ⁹ Effective 1976, data reflect additional reporting firms.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

PETROLEUM, COAL, AND PRODUCTS—Continued

COAL—Continued																
Bituminous—Continued †																
Industrial consumption and retail deliveries, total ‡	2 598,750	4 619,681	53,687	54,405	46,014	43,810	45,504	48,753	51,827	55,428	57,215	53,921	51,981			
Electric power utilities.....	2 447,021	4 474,867	41,071	42,594	35,737	33,923	34,545	37,125	40,593	44,035	45,952	42,556	39,487			
Mfg. and mining industries, total.....	144,817	137,785	11,691	10,916	9,386	9,237	10,418	11,132	10,758	10,942	10,820	10,839	11,723			
Coke plants (oven and beehive).....	84,324	77,396	6,016	5,399	4,155	3,988	5,501	6,406	6,382	6,530	6,436	6,391	6,680			
Retail deliveries to other consumers.....	6,900	7,020	925	895	891	650	540	495	475	450	442	525	776			
Stocks, industrial and retail dealers' end of period, total.....	133,555	152,317	152,317	118,121	93,130	83,942	96,462	110,886	121,588	119,791	122,607	125,568	133,683			
Electric power utilities.....	116,436	130,951	130,951	102,792	82,437	75,081	85,772	98,472	107,498	107,443	110,006	112,797	119,478			
Mfg. and mining industries, total.....	16,879	21,146	21,146	15,147	10,574	8,747	10,555	12,239	13,780	12,058	12,246	12,407	13,848			
Oven-coke plants.....	9,804	12,721	12,721	8,130	5,067	3,750	5,602	7,129	8,237	6,604	6,276	6,202	7,272			
Retail dealers.....	240	220	220	182	119	114	135	175	310	290	355	364	357			
Exports.....	59,406	53,687	3,910	199	109	16	940	1,548	1,730	1,223	1,251	3,338	1,837	1,911	1,415	
Price, wholesale..... Index, 1967=100..	367.5	388.6	401.6	403.2	404.6	406.5	426.4	432.4	434.5	437.2	442.6	442.9	444.1	442.9	442.8	444.8
COKE																
Production:																
Beehive.....	605	2 414	32	29	29	29	29	33	29	29	25	29	30	31		
Oven (byproduct).....	57,728	2 53,060	4,077	3,603	2,741	2,661	3,753	4,398	4,362	4,455	4,379	4,346	4,512	4,383		
Petroleum coke §.....	26,029	26,769	2,236	2,177	2,014	2,321	2,137	2,286	2,220	2,252	2,388	2,188				
Stocks, end of period:																
Oven-coke plants, total.....	6,487	6,442	6,442	5,937	5,209	3,461	3,189	2,993	2,938	2,846	2,954	3,008	3,428	3,241		
At furnace plants.....	6,173	6,306	6,306	5,772	5,059	3,373	3,107	2,910	2,848	2,731	2,827	2,896	3,029	3,141		
At merchant plants.....	314	136	136	164	150	87	81	83	90	114	127	112	99	100		
Petroleum coke.....	2,127	2,050	2,050	2,095	2,146	2,270	2,321	2,380	2,376	2,489	2,397	2,287				
Exports.....	1,315	1,241	66	62	81	42	56	103	74	53	46	125	68	103	78	
PETROLEUM AND PRODUCTS																
Crude petroleum:																
Oil wells completed.....	17,059	18,886	1,875	1,184	1,486	1,499	1,369	1,209	1,812	1,503	1,516	1,619	1,406	1,294	1,861	
Price, wholesale..... Index, 1967=100..	253.6	274.2	283.1	288.8	289.7	293.4	294.3	295.5	298.9	301.9	302.7	305.7	307.5	310.5	312.2	316.4
Gross input to crude oil distillation units..... mil. bbl.	5,081.4	5,468.4	468.5	449.8	401.2	447.9	426.3	472.2	451.2	470.3	483.2	461.9				
Refinery operating ratio..... % of capacity	89	90	88	85	84	85	83	89	88	88	91	90				
All oils, supply, demand, and stocks:																
New supply, total †..... mil. bbl.	6,253.6	6,785.8	571.3	561.6	503.6	585.4	537.4	549.6	553.6	573.5	575.1	579.5				
Production:																
Crude petroleum ‡.....	2,976.2	2,985.4	261.1	258.8	234.4	237.0	261.2	272.8	264.7	271.2	272.4	263.6				
Natural-gas plant liquids.....	601.0	608.8	52.5	50.1	45.3	50.9	49.9	48.9	49.0	50.1	50.0	48.0				
Imports:																
Crude and unfinished oils †.....	1,946.7	2,408.7	191.3	189.2	159.2	190.3	163.5	173.1	192.1	192.8	197.0	209.1				
Refined products ‡.....	729.7	782.9	66.4	63.5	64.7	71.2	62.7	54.6	47.8	59.5	55.7	58.8				
Change in stocks, all oils (decrease, -).....	-21.1	199.4	-34.5	-43.9	-76.1	-23.5	6.5	3.4	7.6	37.1	-1.1	41.9				
Demand, total †.....	6,472.3	6,811.2	629.9	618.4	590.3	616.8	541.5	571.8	560.1	556.8	589.4	551.1				
Exports:																
Crude petroleum.....	2.9	18.3	2.1	3.0	.2	1.9	2.8	3.8	5.9	4.3	5.4	6.3				
Refined products.....	78.7	70.3	6.4	4.9	5.6	6.5	7.4	5.9	6.1	5.9	7.1	6.8				
Domestic product demand, total †.....	6,390.8	6,722.6	621.4	610.4	584.5	608.4	531.4	562.1	548.1	546.5	576.9	538.0				
Gasoline.....	2,567.2	2,633.3	229.4	207.6	193.6	226.2	217.3	241.0	238.8	236.3	245.6	223.5				
Kerosene.....	61.9	63.3	8.5	9.6	8.8	6.0	3.2	3.8	2.7	3.0	3.4	5.2				
Distillate fuel oil †.....	1,146.7	1,223.3	130.3	137.6	135.3	126.8	92.8	94.4	85.1	77.9	86.2	79.6				
Residual fuel oil ‡.....	1,025.1	1,116.6	104.3	108.4	111.0	109.6	89.7	82.7	78.5	86.2	91.1	81.4				
Jet fuel.....	361.4	379.7	33.7	30.4	31.0	34.5	30.4	30.8	31.6	31.4	35.0	32.3				
Lubricants †.....	55.7	58.3	4.3	4.3	4.4	4.8	5.3	5.5	5.8	5.1	5.8	5.1				
Asphalt.....	146.8	156.0	7.0	4.6	4.6	7.7	10.4	15.2	20.8	21.1	24.1	19.8				
Liquefied gases.....	514.0	519.6	54.4	57.6	50.4	44.2	34.7	36.2	33.6	34.7	33.7	40.1				
Stocks, end of period, total.....	1,111.8	1,311.2	1,311.2	1,267.4	1,191.2	1,167.7	1,174.2	1,177.6	1,185.2	1,222.3	1,221.2	1,263.1				
Crude petroleum.....	285.5	347.6	347.6	351.2	350.1	363.8	365.0	354.6	363.4	367.9	357.7	368.3				
Unfinished oils, natural gasoline, etc.....	118.6	121.8	121.8	118.3	121.6	123.4	123.0	124.0	121.0	121.5	119.1	115.0				
Refined products.....	707.7	841.8	841.8	797.8	719.6	680.6	686.1	699.0	700.8	732.8	744.5	779.8				
Refined petroleum products:																
Gasoline (incl. aviation):																
Production.....	2,517.0	2,582.0	222.6	215.8	186.4	210.1	201.2	220.1	217.8	226.6	232.7	223.4				
Exports.....	1.3	.7	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)				
Stocks, end of period.....	234.3	260.7	260.7	275.3	274.0	262.3	251.6	236.1	222.2	219.1	211.8	219.3				
Prices (excl. aviation):																
Wholesale, regular..... Index, 2/73=100..	233.6	253.3	255.8	255.1	252.9	252.0	253.0	255.5	260.5	266.4	271.1	274.6	277.9	277.3	282.8	286.9
Retail (regular grade, excl. taxes), 55 cities (mid-month)..... \$ per gal.	.474	.507	.511	.512	.511	.510	.512	.517	.524	.533	.542	.545	.547	.554	.564	.684
Aviation gasoline:																
Production..... mil. bbl.	13.3	14.2	1.0	.9	.7	.8	1.1	1.3	1.4	1.4	1.6	1.4				
Exports.....	.2	.1	(1)	0	0	0	0	0	0	0	0	0				
Stocks, end of period.....	2.8	3.0	3.0	3.0	2.9	2.4	2.4	2.4	2.5	2.6	2.5	2.6				
Kerosene:																
Production.....	55.7	62.0	5.7	5.5	5.3	5.9	4.0	4.2	3.9	3.8	4.1	3.8				
Stocks, end of period.....	12.5	18.0	18.0	14.3	11.5	11.9	12.9	13.6	14.8	15.9	16.7	16.1				
Price, wholesale (light distillate)..... Index, 1967=100..	312.3	358.1	381.2	383.0	388.2	388.4	387.9	390.7	391.4	393.1	393.9	395.5	397.1	398.6	402.5	407.0

† Revised. ‡ Less than 50 thousand barrels. § Reflects revisions not available by months. ¶ Beginning Jan. 1979, price includes taxes formerly excluded. ¶ Includes data not shown separately. § Includes nonmarketable catalyst coke. ¶ Includes small amounts of "other hydrocarbons and hydrogen refinery input," not shown separately. ¶ Monthly revisions back to 1973 for bituminous coal and back to 1974 for petroleum and products are available upon request.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

PETROLEUM, COAL, AND PRODUCTS—Continued

PETROLEUM AND PRODUCTS—Continued																
PETROLEUM AND PRODUCTS—Continued																
Refined petroleum products—Continued																
Distillate fuel oil:																
Production..... mll. bbl.	1,070.2	1,197.1	103.0	94.7	82.2	93.0	88.2	99.4	93.2	96.4	101.6	95.2				
Imports..... do.	53.5	90.5	7.0	6.0	5.8	5.8	3.0	3.7	4.4	4.6	4.4	4.9				
Exports..... do.	517.4	517.5	1.1	(?)	5.4	(?)	2.2	(?)	(?)	1.1	1.1	1.1				
Stocks, end of period..... do.	186.0	250.3	250.3	213.4	165.9	137.9	136.3	145.1	157.5	180.5	200.4	220.8				
Price, wholesale (middle distillate) Index, 1967=100.....	337.0	383.8	394.2	396.6	398.6	394.8	393.3	393.3	393.3	393.2	393.4	394.1	399.9	408.5	417.8	425.5
Residual fuel oil:																
Production..... mll. bbl.	504.0	639.0	57.0	58.0	50.4	54.5	46.6	51.0	47.5	49.4	50.7	49.4				
Imports..... do.	517.3	492.6	41.8	42.1	43.8	52.7	46.9	37.9	30.4	40.2	39.2	39.4				
Exports..... do.	4.2	2.3	4.4	4.4	3.3	7.7	2.2	5.5	1.1	3.3	3.4	4.4				
Stocks, end of period..... do.	72.3	89.7	89.7	81.4	64.9	62.2	66.2	72.4	71.9	75.3	73.7	81.2				
Price, wholesale..... Index, 1967=100.....	452.9	520.3	510.5	514.8	502.7	491.6	494.6	505.9	509.3	494.5	479.4	480.2	484.0	500.9	502.2	517.9
Jet fuel:																
Production..... mll. bbl.	335.8	355.7	30.3	28.6	27.8	30.1	29.5	31.4	28.8	28.8	30.1	29.7				
Stocks, end of period..... do.	32.1	34.6	34.6	34.6	33.3	32.0	34.6	38.5	37.4	38.0	35.7	35.3				
Lubricants:																
Production..... do.	61.8	64.5	5.2	5.1	4.6	5.8	5.7	5.9	5.8	6.3	6.1	6.0				
Exports..... do.	9.5	9.6	.8	.8	.7	.8	1.1	.7	.8	.7	.9	1.0				
Stocks, end of period..... do.	12.3	12.1	12.1	12.3	12.1	12.4	12.0	11.9	11.3	11.9	11.6	11.8				
Asphalt:																
Production..... do.	139.7	154.1	10.3	8.6	6.7	9.8	12.2	15.9	16.4	17.7	18.9	19.1				
Stocks, end of period..... do.	19.4	18.7	18.7	22.6	24.7	26.8	28.6	29.2	25.0	21.8	16.8	16.2				
Liquefied gases (incl. ethane and ethylene):																
Production, total..... do.	561.9	571.8	49.8	47.2	43.1	49.5	47.1	47.7	46.0	46.4	46.3	46.1				
At gas processing plants (L.P.G.)..... do.	437.4	443.0	39.1	37.1	33.6	38.3	36.7	36.5	34.9	35.6	35.4	34.7	35.8			
At refineries (L.R.G.)..... do.	124.6	128.9	10.7	10.1	9.5	11.2	10.5	11.2	11.0	10.8	10.9	11.4				
Stocks (at plants and refineries)..... do.	116.3	135.9	135.9	121.7	111.5	112.6	121.5	129.4	138.5	147.3	155.1	156.7				

PULP, PAPER, AND PAPER PRODUCTS

PULPWOOD AND WASTE PAPER																
PULPWOOD AND WASTE PAPER																
Pulpwood:																
Receipts..... thous. cords (128 cu. ft.)	72,265	72,875	5,745	5,534	6,129	6,998	6,538	6,463	6,949	6,203	6,349	6,251	6,894			
Consumption..... do.	72,011	73,971	5,545	6,406	6,251	6,780	6,776	6,751	6,884	6,090	6,231	6,275	6,508			
Stocks, end of period..... do.	6,417	5,761	5,761	5,421	5,210	5,382	5,151	4,844	5,020	5,141	5,323	5,363	5,895			
Waste paper:																
Consumption..... thous. sh. tons.	11,874	12,185	790	953	910	1,030	1,005	1,059	976	863	987	889	1,001			
Stocks, end of period..... do.	779	728	728	640	633	706	744	745	753	732	732	744	749			
WOODPULP																
Production:																
Total, all grades ¹ thous. sh. tons.	147,721	149,033	3,489	3,944	3,642	4,149	4,101	4,100	4,109	3,672	3,848	3,878	4,061			
Dissolving and special alpha..... do.	1,443	1,401	108	131	135	142	113	136	130	114	117	84	118			
Sulfate..... do.	32,777	34,005	2,592	2,983	2,701	3,149	3,150	3,064	3,085	2,823	2,983	2,960	3,099			
Sulfite..... do.	2,034	2,000	155	172	168	166	165	173	178	129	116	127	120			
Groundwood..... do.	4,649	4,753	354	342	326	352	342	387	389	304	302	362	375			
Semichemical..... do.	3,577	3,569	280	316	312	340	330	341	325	301	329	345	350			
Stocks, end of period:																
Total, all mills..... do.	4,372	4,356	1,356	1,051	1,062	1,090	1,074	1,069	898	1,014	1,048	993	992			
Pulp mills..... do.	4,684	4,684	684	613	618	613	613	611	428	516	545	473	486			
Paper and board mills..... do.	623	669	609	379	391	415	397	395	407	432	436	454	438			
Nonpaper mills..... do.	65	62	62	59	53	62	64	63	66	66	67	66	69			
Exports, all grades, total:																
Dissolving and special alpha..... do.	1,251	1,240	240	185	185	233	210	227	266	230	174	269	207	204	210	
All other..... do.	730	796	72	61	62	83	46	71	80	69	54	73	60	52	47	
All other..... do.	1,787	1,844	167	124	123	150	163	156	186	161	120	196	147	152	163	
Imports, all grades, total:																
Dissolving and special alpha..... do.	1,377	1,364	317	326	319	327	300	402	303	327	325	316	351	367	362	
All other..... do.	188	179	17	10	23	20	8	16	7	20	5	20	8	33	7	
All other..... do.	1,539	1,536	299	316	297	307	292	386	296	307	320	297	343	333	355	
PAPER AND PAPER PRODUCTS																
Paper and board:																
Production (Bu. of the Census):																
All grades, total, unadjusted..... thous. sh. tons.	59,898	61,869	4,720	5,003	4,950	5,547	5,242	5,602	5,463	4,793	5,233	4,963	5,337			
Paper..... do.	26,612	27,491	2,177	2,350	2,297	2,553	2,379	2,533	2,444	2,075	2,201	2,134	2,321			
Paperboard..... do.	27,840	28,727	2,127	2,230	2,211	2,494	2,368	2,559	2,541	2,278	2,513	2,374	2,572			
Wet-machine board..... do.	130	128	10	8	8	10	10	10	11	6	10	9	9			
Construction paper and board..... do.	5,316	5,523	406	416	439	489	484	499	467	435	509	446	436			
Producer price indexes:																
Book paper, A grade..... 1967=100	190.4	176.4	171.1	170.7	172.1	174.5	177.3	178.0	178.6	179.5	179.4	184.2	185.5	186.3	186.8	188.5
Paperboard..... do.	138.7	157.0	170.4	175.0	180.1	186.6	188.7	190.8	192.0	192.9	189.8	187.0	189.5	188.7	187.6	185.5

¹ Revised. ² Preliminary.

³ Reported annual total; revisions not allocated to the months. ⁴ Less than 50 thousand barrels. ⁵ Beginning with January 1975, data for soda (formerly combined with semichemical) is now combined with sulphate; not comparable with data for earlier periods.

⁶ Data exclude small amounts of pulp because reporting would disclose the operations of individual firms.

⁷ Monthly revisions back to 1974 are available upon request. ⁸ Includes data for items not shown separately.

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	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

PULP, PAPER, AND PAPER PRODUCTS—Continued

PAPER AND PAPER PRODUCTS—Con.															
Selected types of paper (API):															
Groundwood paper, uncoated:															
Orders, new.....thous. sh. tons.	1,296	1,312	120	121	98	118	111	124	132	72	84	124	100	89	103
Orders, unfilled, end of period.....do.	151	134	134	151	149	155	133	130	144	138	143	173	160	137	131
Shipments.....do.	1,278	1,307	102	105	101	116	111	124	106	83	81	95	110	110	104
Coated paper:															
Orders, new.....do.	3,954	4,277	384	356	363	419	337	385	376	333	382	342	360	363	346
Orders, unfilled, end of period.....do.	337	398	398	348	382	403	391	390	397	405	408	405	366	385	373
Shipments.....do.	3,981	4,261	354	370	351	402	359	394	370	326	381	353	390	379	325
Uncoated free sheet papers:															
Orders, new.....do.	6,392	6,881	595	577	602	702	658	709	666	572	636	592	598	574	511
Shipments.....do.	6,830	7,170	585	591	591	691	644	661	648	575	659	597	648	631	550
Unbleached kraft packaging and industrial converting papers:															
Orders, new.....thous. sh. tons.															
Orders, unfilled, end of period.....do.															
Shipments.....do.	3,839	3,815	291	326	307	347	345	348	320	301	293	301	310	295	287
Tissue paper, production.....do.	4,186	4,286	337	368	340	373	364	388	369	317	338	327	359	347	335
Newsprint:															
Canada:															
Production.....do.	8,915	8,988	701	811	767	826	834	843	807	838	823	759	855	782	768
Shipments from mills.....do.	8,712	9,005	835	721	688	927	798	895	853	833	813	770	868	792	834
Stocks at mills, end of period.....do.	299	282	282	372	452	350	386	333	287	293	303	292	279	269	203
United States:															
Production.....do.	3,736	3,870	307	324	307	352	328	336	339	258	279	319	331	322	311
Shipments from mills.....do.	3,728	3,866	324	315	309	360	323	340	342	255	284	316	337	323	312
Stocks at mills, end of period.....do.	29	34	34	43	41	34	38	34	30	33	28	30	25	24	22
Consumption by publishers ¹.....do.	6,534	6,772	597	548	521	600	620	631	586	560	558	566	624	657	636
Stocks at and in transit to publishers, end of period.....thous. sh. tons.	921	796	796	774	784	818	818	835	876	898	868	829	840	761	728
Imports.....do.	6,569	6,559	624	593	530	611	604	639	747	649	680	580	672	648	532
Price, rolls, contract, f.o.b. mill, freight allowed or delivered.....Index, 1967=100.	198.2	215.4	216.7	216.7	216.7	216.7	228.2	228.2	228.2	228.2	230.5	230.5	230.5	230.5	230.5
Paperboard (American Paper Institute):															
Orders, new (weekly avg.).....thous. sh. tons.	552	558	479	573	592	610	622	634	622	560	598	584	605	566	546
Orders, unfilled.....do.	1,035	1,037	1,037	1,139	1,166	1,306	1,385	1,546	1,556	1,560	1,600	1,470	1,479	1,412	1,367
Production, total (weekly avg.).....do.	547	557	478	518	577	593	598	612	612	542	586	573	597	600	555
Paper products:															
Shipping containers, corrugated and solid fiber shipments.....mil. sq. ft. surf. area.	216,371	226,088	17,898	17,880	18,669	21,555	19,970	21,759	22,116	17,583	22,311	20,548	22,654	20,407	18,675
Folding paper boxes, shipments.....thous. sh. tons.	2,592.0	2,639.0	235.0	205.2	210.9	240.2	215.7	236.0	229.9	* 200.5	* 244.2	* 232.1	* 247.4	* 231.1	237.7
.....mil. \$.	1,979.0	2,105.0	188.1	164.7	171.7	194.3	176.8	193.4	191.7	166.5	* 206.1	* 193.9	* 209.4	* 192.2	200.5

RUBBER AND RUBBER PRODUCTS

RUBBER															
Natural rubber:															
Consumption.....thous. metric tons.	730.73	780.13	62.53	59.19	61.06	63.79	61.23	67.98	61.88	51.68	69.13	65.55	69.47	70.89	
Stocks, end of period.....do.	125.33	127.65	127.65	123.29	116.40	117.10	115.60	122.76	123.39	125.41	126.06	127.65	133.48	123.95	
Imports, incl. latex and guayule.....thous. lg. tons.	712.90	792.41	81.99	46.71	45.68	71.77	83.44	75.96	54.36	47.79	71.02	77.07	54.90	46.05	
Price, wholesale, smoked sheets (N.Y.)...\$ per lb.	.395	.416	.429	.430	.446	.455	.439	.450	.490	.494	.520	.544	.543	.581	.544
Synthetic rubber:															
Production.....thous. metric tons.	2,303.75	2,417.53	196.58	198.20	192.71	210.31	214.92	211.17	194.36	195.95	205.67	207.37	212.33	212.10	
Consumption.....do.	2,175.26	2,464.09	203.35	193.23	191.00	200.61	195.68	211.42	194.19	169.96	212.29	211.28	219.86	211.85	
Stocks, end of period.....do.	458.12	426.83	426.83	430.97	427.88	434.49	446.93	411.41	433.09	456.46	445.08	437.67	425.32	419.91	
Exports (Bu. of Census).....thous. lg. tons.	267.99	239.98	17.13	16.94	18.86	22.55	19.48	24.90	22.28	19.35	20.04	20.77	22.22	23.81	23.77
Reclaimed rubber:															
Production.....thous. metric tons.	78.46	85.37	6.91	9.45	9.62	9.61	10.05	9.85	9.88	9.53	10.79	5.00	* 10.40	10.15	
Consumption.....do.	81.89	111.34	8.23	9.79	9.12	9.39	10.11	10.28	10.26	8.75	9.60	10.01	11.28	9.58	
Stocks, end of period.....do.	16.81	16.26	16.26	14.76	14.73	14.52	13.45	13.70	13.56	13.67	15.14	15.51	14.84	15.25	
TIRES AND TUBES															
Pneumatic casings, automotive:															
Production.....thous.	185,950	* 231,638	17,425	18,290	18,319	18,987	18,828	19,148	18,946	15,108	19,245	19,155	20,497	18,299	18,869
Shipments, total.....do.	208,539	* 226,583	16,025	15,170	15,755	22,198	21,738	20,597	22,599	17,584	20,516	22,214	22,727	18,872	16,946
Original equipment.....do.	58,573	* 65,998	4,716	5,238	4,840	6,386	6,161	6,300	6,121	4,077	4,680	5,933	6,408	5,911	5,065
Replacement equipment.....do.	145,282	* 155,195	10,798	9,564	10,573	15,373	15,224	13,888	16,008	13,265	15,464	15,888	15,871	12,597	11,486
Exports.....do.	4,684	* 5,390	511	368	341	439	352	409	440	242	372	392	447	365	396
Stocks, end of period.....do.	34,768	* 47,181	47,181	51,523	54,621	51,986	50,006	49,276	46,293	44,280	44,057	41,796	40,135	40,394	43,472
Exports (Bu. of Census).....do.	4,784	6,023	436	384	389	474	406	458	483	314	462	414	0	483	541
Inner tubes, automotive:															
Production.....do.	27,548	(3)													
Shipments.....do.	33,304	(3)													
Stocks, end of period.....do.	5,106	(3)													
Exports (Bu. of Census).....do.	3,167	2,298	164	251	323	240	198	268	188	143	223	223	0	274	343

* Revised. ¹ Beginning Jan. 1977, producers' stocks are included; comparable data for earlier periods will be shown later. ² Beginning Jan. 1977, data cover passenger car and truck and bus tires; motorcycle tires and tires for mobile homes are excluded. ³ Beginning Jan. 1977, data no longer available.

⁴ As reported by publishers accounting for about 75 percent of total newsprint consumption. ⁵ Monthly data are averages for the 4-week period ending on Saturday nearest the end of the month; annual data are as of Dec. 31.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

STONE, CLAY, AND GLASS PRODUCTS

PORTLAND CEMENT																
Shipments, finished cement.....thous. bbl.	387,410	418,862	26,133	15,330	18,516	31,452	37,239	44,904	49,782	43,755	50,340	44,617	48,468	37,851	28,952	
CLAY CONSTRUCTION PRODUCTS																
Shipments: [†]																
Brick, unglazed (common and face)																
Structural tile, except facing.....mil. standard brick.....thous. sh. tons.	7,218.0	8,300.5	632.7	461.2	476.9	713.6	788.8	893.6	914.6	807.1	911.6	784.9	875.4	770.6		
Sewer pipe and fittings, vitrified.....do.....	71.0	45.0	3.6	3.8	7.7	7.4	10.5	6.6	6.3	5.4	5.1	6.9	5.7	6.0		
Facing tile (hollow), glazed and unglazed.....do.....	1,097.8	1,106.8	65.6	43.9	38.6	70.9	82.1	95.6	101.0	94.8	106.4	91.3	94.5	72.5		
Floor and wall tile and accessories, glazed and unglazed.....mil. brick equivalent.....																
	64.8	61.8	4.7	2.9	3.1	4.6	4.9	5.8	5.7	4.9	5.6	5.4	5.6	4.6		
Price index, brick (common), f.o.b. plant or N.Y. dock.....1967=100.....	177.0	208.7	215.7	224.0	224.4	228.0	230.1	230.6	230.7	231.9	234.1	242.2	24.3	244.6	247.9	253.2
GLASS AND GLASS PRODUCTS																
Flat glass, mfrs.' shipments.....thous. \$.	644,751	739,919	198,829			202,552				210,640			202,475			
Sheet (window) glass, shipments.....do.....	101,739	(6)														
Plate and other flat glass, shipments.....do.....	543,012	(6)														
Glass containers:																
Production: [†]thous. gross.....																
	302,500	303,452	21,640	25,982	25,375	28,884	28,767	29,150	28,759	26,930	29,428	26,175	30,031	25,710	21,500	
Shipments, domestic, total.....do.....																
	292,345	304,785	25,683	21,086	22,020	27,383	26,528	33,988	27,233	24,514	29,484	27,674	27,359	25,547	22,523	
Narrow-neck containers:																
Food.....do.....	25,727	25,069	1,958	1,876	1,914	2,317	2,234	2,705	2,184	1,758	2,432	3,357	2,242	1,967	1,641	
Beverage.....do.....	65,093	67,466	5,604	3,705	4,014	5,438	5,202	6,940	6,010	5,317	5,683	4,914	4,761	4,473	4,092	
Beer.....do.....	81,938	92,757	7,652	6,249	6,889	8,679	8,948	10,569	9,755	9,501	10,519	9,304	9,253	8,512	8,048	
Liquor and wine.....do.....	22,674	24,352	2,405	1,841	1,852	2,321	2,132	2,770	1,897	1,573	2,134	2,060	2,390	2,214	1,886	
Wide-mouth containers:																
Food (incl. packer's tumblers, jelly glasses, and fruit jars).....thous. gross.....	61,504	61,330	5,299	4,937	4,807	5,806	5,226	7,194	4,717	4,187	6,018	5,567	5,967	5,640	4,997	
Narrow-neck and Wide-mouth containers:																
Medicinal and toilet.....do.....	30,798	30,091	2,469	2,074	2,265	2,515	2,474	3,349	2,375	1,906	2,371	2,147	2,415	2,440	1,633	
Chemical, household and industrial.....do.....	4,611	3,720	296	404	279	307	312	461	295	272	327	325	331	301	226	
Stocks, end of period.....do.....	42,800	36,912	36,912	39,337	42,408	43,764	45,739	41,461	43,398	45,902	43,947	43,233	46,515	46,371	44,349	
GYPSUM AND PRODUCTS																
Production:																
Crude gypsum (exc. byproduct).....thous. sh. tons.	11,980	13,390	1,034	1,110	1,027	1,222	1,333	1,277	1,208	1,195	1,302	1,251	1,212	1,136		
Calcined.....do.....	11,036	12,590	987	1,051	956	1,071	1,195	1,237	1,121	1,164	1,184	1,129	1,206	1,091		
Imports, crude gypsum.....do.....	6,231	7,074	435	593	417	493	529	767	684	825	788	811	700	658		
Sales of gypsum products:																
Uncalcined.....do.....																
	5,030	5,759	452	295	302	370	423	458	565	505	568	552	494	462		
Calcined:																
Industrial plasters:																
Building plasters:																
Regular basecoat.....do.....	162	136	9	9	11	11	10	14	9	10	9	11	9			
All other (incl. Keene's cement).....do.....	329	312	22	20	21	25	26	27	29	25	29	26	31	25		
Board products, total.....mil. sq. ft.	113,156	15,369	1,467	1,254	1,194	1,399	1,364	1,399	1,388	1,351	1,502	1,326	1,479	1,317		
Lath.....do.....	184	165	12	11	14	15	12	13	11	12	13	10	11	8		
Veneer base.....do.....	362	418	38	35	32	40	36	42	40	40	43	36	43	35		
Gypsum sheathing.....do.....	1,272	289	18	21	16	22	22	22	21	21	21	17	17	17		
Regular gypsum board.....do.....	110,117	11,840	1,138	967	921	1,071	1,049	1,070	1,058	1,037	1,147	1,014	1,136	1,001		
Type X gypsum board.....do.....	2,029	2,425	243	204	196	232	227	232	236	221	257	228	250	237		
Predecorated wallboard.....do.....	191	232	18	17	16	20	18	20	20	20	21	20	22	18		

TEXTILE PRODUCTS

FABRIC (GRAY)																
Knit fabric production off knitting machines (own use, for sale, on commission), qtrly*.....mil. lb.	1,790.9	1,688.6	399.2			412.1					439.7					
Knitting machines active last working day*.....thous.	43.5	34.3	34.3			34.5					34.3					
Woven fabric (gray goods), weaving mills:																
Production, total.....mil. linear yd.																
Cotton.....do.....	10,448	10,237	2,964	827	814	2,983	784	786	2,970	621	774	2,964	863	1,015		
Manmade fiber.....do.....	4,450	4,237	2,378	341	323	2,382	303	305	2,368	234	298	2,375	349	392		
Stocks, total, end of period.....do.....	5,913	5,915	2,577	478	481	2,588	471	471	2,589	380	468	2,579	505	613		
Cotton.....do.....	1,203	986	986	932	927	915	866	860	884	871	871	851	858	876		
Manmade fiber.....do.....	431	340	340	314	311	306	307	307	298	294	300	294	295	297		
Orders, unfilled, total, end of period.....do.....	767	640	640	611	609	602	553	547	579	570	565	551	558	574		
Cotton.....do.....	1,797	2,004	2,004	2,037	2,050	2,148	2,388	2,522	2,580	2,811	2,772	2,752	2,923	3,054		
Manmade fiber.....do.....	789	858	858	819	755	806	803	797	821	1,082	1,008	1,043	1,166	1,127		
Manmade fiber.....do.....	1,008	1,146	1,146	1,218	1,295	1,342	1,585	1,724	1,759	1,728	1,765	1,709	1,758	1,927		
COTTON																
Cotton (excluding linters):																
Production:																
Ginnings.....thous. running bales.....	10,347	14,018	13,513	13,859		14,018				144	672	1,492	4,667	6,678	9,321	
Crop estimate.....thous. net weight bales.....	10,581	14,389				14,389								10,694		
Consumption.....thous. running bales.....	6,833	6,393	2,562	493	506	2,620	484	484	575	383	459	569	482	591		
Stocks in the United States, total, end of period.....thous. running bales.....																
	9,610	12,890	12,890	11,935	10,836	9,525	8,395	7,391	6,285	5,326	15,130	13,976	12,932	12,127	11,189	
Domestic cotton, total.....do.....	9,581	12,883	12,883	11,928	10,828	9,518	8,388	7,385	6,281	5,321	15,126	13,971	12,929	12,124	11,185	
On farms and in transit.....do.....	1,247	1,665	1,665	1,360	1,162	1,110	976	977	765	700	1,606	950	6,603	4,893	2,222	
Public storage and compresses.....do.....	7,377	10,268	10,268	9,634	8,714	7,398	6,375	5,312	4,411	3,803	3,457	3,431	5,312	6,230	7,917	
Consuming establishments.....do.....	957	950	950	934	952	1,010	1,037	1,096	1,105	1,118	1,063	1,030	1,014	1,001	1,041	

* Revised. † Preliminary. ‡ Annual total; revisions not allocated to the months. § Data cover 5 weeks; other months, 4 weeks. ¶ Crop for the year 1977. †† Crop for the year 1976. ††† Beginning 1st Qtr 1977, data no longer available. †††† Dec. 1 estimate of 1978 crop. ††††† Beginning 1st Qtr 1977, data exclude garment lengths, trimming, and collars; not comparable with earlier data. †††††† Bales of 480 lbs. ††††††† Includes data for "dairy products." †††††††† New series. Source: Bu.Census. Data cover warp and weft knit yard goods and knit garment lengths, trimmings, and collars; no quarterly data prior to 1974 are available. ††††††††† Monthly revisions back to 1975 for shipments of clay construction products and for Jan.-Mar. 1975 for glass containers will be shown later. ††††††††† Includes data not shown separately. †††††††††† Stocks (owned by weaving mills and billed and held for others) exclude bedsheeting, toweling, and blanketing, and billed and held stocks of denim. ††††††††††† Unfilled orders cover wool apparel (including polyester-wool) finished fabrics; production and stocks exclude figures for such finished fabrics. Orders also exclude bedsheeting, toweling, and blanketing. †††††††††††† Cumulative ginnings to end of month indicated.

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.

TEXTILE PRODUCTS—Continued

COTTON AND MANUFACTURES—Con.																
Cotton (excluding linters)—Continued																
Exports.....thous. running bales	3,431	4,448	496	*521	502	704	640	510	528	456	524	398	283	355		
Imports.....thous. net-weight (bales)	96	25	(10)	0	(10)	(10)	0	(10)	1	(10)	0	(10)	(10)	0		
Price (farm), American upland.....cents per lb.	64.7	51.8	47.9	48.0	50.3	51.3	51.7	53.7	54.8	56.5	56.6	55.9	59.6	61.1	*58.1	*56.9
Price, Strict Low Middling, Grade 41, staple 34 (1 1/4"), average 10 markets.....cents per lb.	170.9	750.8	48.4	51.0	52.9	55.0	54.7	57.6	57.4	57.0	59.8	*60.0	64.1	65.6	64.4	
Spindle activity (cotton system spindles):																
Active spindles, last working day, total.....mil.	16.8	16.6	16.6	16.7	16.5	16.5	16.6	16.4	16.3	16.3	16.3	16.3	16.4	16.4	16.5	
Consuming 100 percent cotton.....do.	7.5	6.7	6.7	6.6	6.6	6.5	6.6	6.4	6.3	6.4	6.3	6.3	6.3	6.3	6.4	
Spindle hours operated, all fibers, total.....bil.	105.6	103.6	*9.3	8.2	8.3	*10.1	8.2	8.2	*10.0	6.5	7.9	*9.6	8.1	*10.0	7.4	
Average per working day.....do.	.406	.398	.371	.412	.416	.403	.413	.408	.402	.327	.395	*.385	.406	.399	.371	
Consuming 100 percent cotton.....do.	48.1	43.4	*3.7	3.3	3.4	*4.0	3.4	3.3	*4.1	2.7	3.2	*3.9	3.3	*4.0	3.0	
Cotton cloth:																
Cotton broadwoven goods over 12" in width:																
Production (qtrly.).....mil. lin. yd.	4,718	4,356	1,023			1,046				1,010			899			
Orders, unfilled, end of period, as compared with avg. weekly production.....No. weeks' prod.	*13.2	*11.7	13.5	13.0	12.3	14.4	14.0	13.7	13.9	22.7	17.7	17.2	16.6	17.0	21.1	
Inventories, end of period, as compared with avg. weekly production.....No. weeks' prod.	*4.7	*4.7	4.6	4.4	4.5	4.8	4.9	4.8	4.8	5.9	5.2	4.7	5.7	4.3	4.6	
Ratio of stocks to unfilled orders (at cotton mills), end of period.....do.	*.36	*.40	.34	.34	.37	.33	.35	.35	.35	.26	.29	.28	.25	.25	.22	
Exports, raw cotton equiv. thous. net-weight (bales)	556.0	460.1	46.3	32.4	35.4	37.9	35.3	34.7	33.1	31.8	35.9	37.9	44.8	50.1	50.4	
Imports, raw cotton equivalent.....do.	718.3	525.2	53.1	70.0	44.8	56.7	68.7	53.9	60.6	60.8	51.3	52.1	62.2	51.1	44.1	
MANMADE FIBERS AND MANUFACTURES																
Fiber production, qtrly:																
Filament yarn (acetate).....mil. lb.	286.9	282.0	65.6			71.5				76.3			76.9			
Staple, incl. tow (rayon).....do.	475.4	527.0	121.9			129.3				131.7			133.8			
Noncellulosic, except textile glass:																
Yarn and monofilaments.....do.	3,292.9	3,659.9	873.4			909.4				951.0			956.7			
Staple, incl. tow.....do.	3,320.2	3,653.8	931.4			1,002.1				996.8			952.1			
Textile glass fiber.....do.	676.0	786.7	222.2			225.2				229.1			233.7			
Fiber stocks, producers', end of period:																
Filament yarn (acetate).....do.	18.1	16.7	16.7			13.1				11.7			12.6			
Staple, incl. tow (rayon).....do.	30.0	49.8	49.8			48.8				46.1			37.4			
Noncellulosic fiber, except textile glass:																
Yarn and monofilaments.....do.	*299.8	353.0	350.3			353.6				336.5			334.3			
Staple, incl. tow.....do.	289.0	290.7	299.7			306.3				347.6			328.1			
Textile glass fiber.....do.	79.4	67.9	67.9			84.5				89.4			89.3			
Manmade fiber and silk broadwoven fabrics:																
Production (qtrly.).....mil. lin. yd.	6,092.4	6,223.6	1,644.5			1,648.5				1,690.3						
Filament yarn (100%) fabrics.....do.	1,984.4	2,014.1	539.0			555.3				566.8						
Chiefly rayon and/or acetate fabrics.....do.	378.2	371.5	94.9			98.6				104.0						
Chiefly nylon fabrics.....do.	356.8	356.9	80.3			78.4				95.1						
Spun yarn (100%) fab., exc. blanketing.....do.	*3,500.4	3,583.2	940.3			931.8				957.2						
Rayon and/or acetate fabrics, blends.....do.	184.8	286.2	84.1			84.7				83.3						
Polyester blends with cotton.....do.	2,713.2	2,677.1	693.1			660.8				673.5						
Filament and spun yarn fabrics.....do.	320.5	359.5	96.3			97.5				97.9						
Manmade fiber gray goods, owned by weaving mills:																
Ratio, stocks to unfilled orders, end of period.....do.	*.30	*.42	.34	.31	.31	.30	.34	.22	.21	.21	.20	.19	*.17	.17		
Prices, manufacturer to mfr., f.o.b. mill:																
50/50 polyester/carded cotton printcloth, gray, 48", 3.90 yds./lb., 78x54-56.....\$ per yd.	*4.16	.405	.438	.451	.456	.475	.495	.515	.493	.496	.496	.516	.514	*.496	.495	
65% poly./35% comb. cot. broadcl., 3.0 oz/sp yd., 45", 128x72, gray-basis, wh. perm-presfin.....\$ per yd.	.725	.901	.727	.729	.725	.729	.751	.763	.780	.778	.776	.794	.824			
Manmade fiber knit fabric prices, f.o.b. mill:*																
65% acetate/35% nylon tricot, gray, 32 gauge, 54", 3.2 oz./linear yd.....\$ per yd.	.412	.501	.435		.443	.451	.456	.467	.472							
100% textured polyester DK jacquard, 11 oz./linear yd., 60", yarn dyed, finished.....\$ per yd.	*1.846	*1.708	1.674	1.655	1.665	1.658	1.658	1.651	1.655							
Manmade fiber manufactures:																
Exports, manmade fiber equivalent.....mil. lbs.	352.17	367.08	34.35	*27.84	*29.24	*36.83	*35.57	*39.06	*36.63	*32.06	*35.38	*38.12	43.68	44.41	42.88	
Yarn, tops, thread, cloth.....do.	201.92	206.34	19.75	17.14	17.24	22.86	21.50	23.30	20.85	18.62	20.99	23.29	27.52	27.15	26.82	
Cloth, woven.....do.	139.17	131.35	14.00	10.85	10.65	13.07	12.77	13.24	13.82	11.11	12.48	15.12	16.95	17.93	17.72	
Manufactured prods., apparel, furnishings.....do.	150.25	160.74	14.60	*10.70	*12.01	*13.96	*14.07	*15.77	*15.79	*13.43	*14.39	*14.82	16.16	17.26	16.06	
Imports, manmade fiber equivalent.....do.	479.32	531.13	41.83	45.54	46.68	46.34	53.87	59.74	67.70	70.41	*64.90	58.31	50.47	41.08	37.54	
Yarn, tops, thread, cloth.....do.	64.41	67.70	10.06	14.91	11.95	13.29	16.11	13.74	12.36	14.13	12.29	11.79	10.24	8.68	8.06	
Cloth, woven.....do.	83.82	83.82	6.90	7.98	5.90	7.27	7.85	8.05	7.94	8.61	8.51	7.85	6.86	6.00	4.93	
Manufactured prods., apparel, furnishings.....do.	64.41	421.02	31.77	*28.18	*32.37	*30.37	*34.82	*43.07	*52.43	*52.94	*49.70	*43.50	37.42	30.34	27.15	
Apparel, total.....do.	343.25	365.24	26.26	24.80	29.50	27.48	31.08	40.00	48.88	49.66	*47.10	40.24	34.38	27.49	24.58	
Knit apparel.....do.	209.80	218.68	13.94	12.33	17.10	15.78	18.46	25.09	30.40	29.34	28.89	22.92	18.53	13.53	12.02	
WOOL AND MANUFACTURES																
Wool consumption, mill (clean basis):																
Apparel class.....mil. lb.	106.7	95.5	*7.9	7.7	8.2	10.5	8.8	9.2	10.3	7.0	8.4	9.4	*8.1	8.1		
Carpet class.....do.	15.1	12.5	*1.0	1.0	.8	1.2	1.1	1.0	1.5	.8	1.0	1.4	1.2	1.1		
Wool imports, clean yield.....do.	58.0	53.0	3.0	3.7	3.2	4.1	4.9	4.0	3.8	4.7	5.4	3.4	4.0	4.8	4.0	
Duty-free (carpet class).....do.	18.9	18.8	2.0	2.2	1.9	1.4	2.2	1.5	2.0	2.3	2.5	1.9	1.8	1.5	2.0	
Wool prices, raw, shorn, clean basis, delivered to U.S. mills:*																
Domestic—Graded territory, 64's, staple 2 1/4" and up.....\$ per lb.	1.82	1.83	1.82	1.82	1.78	1.78	1.81	1.84	1.92	1.92	1.92	1.95	1.97	2.02	2.02	
Australian, 64's, Type 62, duty-paid.....do.	*2.18	2.27	2.26	2.28	2.30	2.31	2.32	2.33	2.36	2.36	2.36	2.36	2.36	2.37	2.37	
Wool broadwoven goods, exc. felts:																
Production (qtrly.).....mil. lin. yd.	97.3	101.7	25.4			28.2				31.7						
FLOOR COVERINGS																
Carpet, rugs, carpeting (woven, tufted, other), shipments, quarterly.....mil. sq. yds.	*920.9	1,024.6	271.1			242.6				281.3			271.1			
APPAREL																
Women's, misses', juniors' apparel cuttings:*																
Coats.....thous. units	20,689	17,624	1,105	1,037	984	1,173	1,408	1,748	1,967	1,531	2,193	2,060	1,854			
Dresses.....do.	170,744	166,385	10,531	12,152	13,006	15,504	15,048	14,600	14,115	11,246	14,133	14,001	13,811			
Suits (incl. pant suits, jumpsuits).....do.	34,050	34,575	1,951	2,307	2,595	2,815	2,343	2,189	2,026	1,761	2,264	2,037	1,757			
Blouses.....thous. dozen	19,735	19,540	1,473	1,719	1,864	2,174	1,778	1,960	1,945	1,551	2,217	2,042	2,136			
Skirts.....do.	4,929	5,445	435	443	532	641	537	638	574	495	604	554	603			

* Revised. * Preliminary. † Season average. ‡ For 5 weeks, other months, 4 weeks. § Monthly average. ¶ Effective Sept. 1976 SURVEY, data omit production and stocks of saran and spandex yarn. ** Effective 1976, production of blanketing is included in 100% spun yarn fabric (prior to 1976, in "all other group," not shown separately). †† Avg. for May-Dec. ‡‡ Avg. for sales prior to Apr. 1, 1977. ††† Avg. for Feb.-Dec. †††† Effective Jan. 1, 1978, includes reexports, formerly excluded. ††††† Less than 500 bales. †††††† Based on 480-lb. bales, ††††††† price reflects sales as of the 15th; restated ††††††† price reflects total quantity purchased and dollars paid for entire month (††††††† price includes discounts and premiums). †††††††† Includes data not shown separately. ††††††††

Unless otherwise stated in footnotes below, data through 1974 and descriptive notes are as shown in the 1975 edition of BUSINESS STATISTICS	1976	1977	1977	1978												1979
	Annual	Annual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	

TEXTILE PRODUCTS—Continued

APPAREL—Con.																
Men's apparel cuttings:																
Suits.....thous. units	* 16,224	* 16,065	1,193	1,335	1,261	1,496	1,381	1,432	1,438	843	1,334	1,302				
Coats (separate), dress and sport.....do	* 12,874	* 13,652	1,099	1,031	960	1,378	1,193	1,376	1,291	786	1,311	1,483				
Trousers (separate), dress and sport.....do	132,163	125,827	7,408	8,499	9,472	10,505	9,241	9,368	8,889	5,711						
Slacks (jean cut), casual.....thous. doz.	11,732	15,537	1,301	1,190	1,283	1,295	1,239	1,193	1,272	785						
Shirts, dress, sport, inc. knit outerwear.....do	36,797	32,523	2,332	2,318	2,298	2,784	2,609	2,691	2,869	1,990	2,810	2,985				
Hosiery, shipments.....thous. doz. pairs	240,918	248,144	18,336	18,384	19,418	21,859	21,183	22,541	24,987	22,044	24,569	23,664	24,589	24,062	20,383	

TRANSPORTATION EQUIPMENT

AEROSPACE VEHICLES																
Orders, new (net), qtrly, total.....mil. \$	35,992	38,922	13,946			10,807					11,632				10,978	
U.S. Government.....do	21,056	22,682	8,792			5,567					7,566				5,503	
Prime contract.....do	32,364	35,478	13,046			10,084					10,774				9,879	
Sales (net), receipts, or billings, qtrly, total.....do	31,328	33,315	8,921			8,511					9,331				9,366	
U.S. Government.....do	19,083	20,704	5,513			5,093					5,622				5,431	
Backlog of orders, end of period.....do	39,702	45,309	45,309			46,796					49,906				51,518	
U.S. Government.....do	24,141	26,119	26,119			25,843					28,537				28,609	
Aircraft (complete) and parts.....do	17,321	19,709	19,709			20,330					23,193				24,001	
Engines (aircraft) and parts.....do	3,558	5,354	5,354			5,192					5,425				5,214	
Missiles, space vehicle systems, engines, propulsion units, and parts.....mil. \$	6,286	6,743	6,743			6,163					6,917				7,268	
Other related operations (conversions, modifications), products, services.....mil. \$	5,542	6,208	6,208			6,936					6,561				7,246	
Aircraft (complete):																
Shipments.....do	4,646.8	4,700.9	525.3	294.5	363.0	478.5	436.2	434.8	662.2	469.1	564.1	679.1	572.3			
Airframe weight.....thous. lb.	49,094	47,647	4,481	2,624	3,604	4,287	3,902	5,113	6,293	4,959	5,844	6,071	5,431			
Exports, commercial.....mil. \$	3,207	2,605	284	* 80	203	172	210	165	275	248	379	356	423	504		
MOTOR VEHICLES (NEW)																
Passenger cars:																
Factory sales (from U.S. plants), total.....thous.	8,498	9,199	686	657	675	909	869	919	886	589	528	738	894	842	* 632	* 786
Domestic.....do	7,838	8,511	635	616	623	842	806	850	821	553	492	676	828	784		* 783
Retail sales, total, not seasonally adj.....do	10,110	11,185	795	687	777	1,078	1,043	1,159	1,137	930	958	828	1,034	909		769
Domestics.....do	8,611	9,109	646	545	628	883	863	963	950	762	753	662	884	700		646
Imports.....do	1,498	2,075	149	142	149	195	180	196	187	168	205	166	150	139		123
Total, seas. adjusted at annual rate.....mil.			11.2	10.1	10.5	11.8	12.3	12.1	11.8	11.0	11.9	10.8	11.1	11.0		11.2
Domestics.....do			9.3	8.0	8.5	9.8	10.2	10.0	9.7	9.1	9.9	8.9	9.2	9.0		9.4
Imports.....do			2.1	2.1	2.0	2.1	2.1	2.1	2.0	1.9	2.0	1.9	1.9	2.0		1.8
Retail inventories, end of mo., domestics.....do																
Not seasonally adjusted.....thous.	1,465	1,731	1,731	1,887	1,952	1,991	2,008	1,970	1,911	1,729	1,510	1,606	1,629	1,718	1,729	1,885
Seasonally adjusted.....do	1,519	1,784	1,784	1,824	1,848	1,866	1,877	1,818	1,721	1,694	1,655	1,678	1,737	1,767	1,780	1,819
Inventory-retail sales ratio, domestics.....do	1.9	2.3	2.3	2.8	2.6	2.3	2.2	2.2	2.1	2.2	2.0	2.3	2.3	2.4	2.3	2.4
Exports (BuCensus), assembled cars.....thous.	680.46	697.20	46.84	* 47.09	53.72	62.84	70.48	69.32	70.63	45.83	36.11	61.60	66.74	58.73		
To Canada.....do	573.47	591.51	37.00	* 38.50	41.81	49.56	57.21	57.92	58.20	33.75	25.95	46.61	50.06	43.19		
Imports (BuCensus), complete units.....do	2,536.7	2,791.3	257.0	* 116.2	253.6	299.1	310.1	266.5	281.4	236.8	198.3	212.3	232.8	230.5		
From Canada, total.....do	825.6	849.2	61.8	* 55.5	61.1	78.9	78.1	73.5	86.8	47.6	41.1	78.3	77.2	80.2		
Registrations, total new vehicles.....do	* 9,752	* 10,826	* 946	* 703	* 767	* 870	* 916	* 987	* 1,053	* 1,062	* 1,061	* 887	* 866	* 826		
Imports, incl. domestically sponsored.....do	* 1,447	* 1,977	* 170	* 127	* 152	* 163	* 162	* 162	* 166	* 183	* 198	* 185	* 149	* 140		
Trucks and buses:																
Factory sales (from U.S. plants), total.....thous.	2,979	3,440	256	240	268	341	319	338	355	272	281	305	366	330	* 277	* 342
Domestic.....do	2,734	3,178	235	223	247	311	291	309	324	254	266	281	337	305		
Retail sales, seasonally adjusted*:																
Light-duty, up to 14,000 lbs. GVW.....do	2,762.8	3,145.0	297.5	257.3	276.6	308.4	305.9	296.7	316.9	281.7	321.8	250.9	313.1	316.8	300.1	
Medium-duty, 14,001-26,000 lbs. GVW.....do	161.7	171.5	14.6	13.2	13.3	16.3	14.7	14.0	14.7	14.0	11.2	12.0	13.2	13.7	15.5	
Heavy-duty, 26,001 lbs. and over GVW.....do	119.6	169.1	14.4	14.2	14.7	18.3	16.5	17.1	17.6	18.6	16.8	17.0	17.2	16.2	17.6	
Retail inventories, end of period, seasonally adjusted*.....thous.	546.4	716.1	736.0	717.4	713.4	715.1	717.0	696.0	675.2	658.2	643.2	653.3	698.5	741.9	785.1	
Exports (BuCensus), assembled units.....do	199.63	202.55	14.88	* 13.60	18.58	21.72	22.86	22.74	24.24	18.05	16.58	22.18	24.90	21.73		
Imports (BuCensus), including separate chassis and bodies.....thous.	812.83	822.43	81.31	* 86.15	84.67	103.13	96.87	92.12	97.00	85.88	63.80	76.23	83.21	90.77		
Registrations, new vehicles, excluding buses not produced on truck chassis.....thous.	* 3,058	3,509	* 336	* 255	* 287	* 306	* 320	* 342	* 357	* 386	* 396	* 335	* 305	* 314		
Truck trailers and chassis, complete (excludes detachables), shipments.....number	105,437	159,297	13,012	12,500	14,052	17,543	15,540	17,589	16,872	13,758	16,979	15,558	17,691	17,492	17,584	
Vans.....do	61,726	98,687	8,169	7,817	8,637	11,653	9,930	11,150	10,967	8,853	11,585	10,324	11,961	12,344	12,367	
Trailer bodies (detachable), sold separately.....do	7,316	7,193	519	483	408	578	352	622	540	462	670	320	* 463	585	583	
Trailer chassis (detachable), sold separately.....do	5,678	20,662	2,115	2,265	2,429	3,341	2,643	2,531	2,421	2,192	3,170	1,718	* 1,795	1,993	1,934	
RAILROAD EQUIPMENT																
Freight cars (new), for domestic use; all railroads and private car lines (excludes rebuilt cars and cars for export):																
Shipments.....number	52,548	* 51,729	4,652	3,762	3,795	4,874	4,702	5,843	6,893	4,753	6,697	5,942	6,465	6,733	6,827	
Equipment manufacturers.....do	45,618	* 46,664	4,314	3,522	3,483	4,489	4,351	5,644	6,113	4,351	6,198	5,533	6,174	6,461	6,524	
New orders.....do	36,148	* 66,750	10,550	6,344	6,352	4,346	10,258	16,907	14,815	11,599	13,586	10,561	9,010	8,802	12,727	
Equipment manufacturers.....do	30,546	* 59,577	7,032	6,144	6,352	4,346	10,008	16,907	14,815	11,265	13,086	8,911	9,010	8,302	11,827	
Unfilled orders, end of period.....do	23,415	* 35,910	35,910	38,195	40,602	45,387	50,943	61,802	69,298	75,461	82,733	87,200	87,605	91,773	96,255	
Equipment manufacturers.....do	18,733	29,490	29,490	31,315	34,034	39,204	44,861	55,919	64,195	70,426	78,197	81,423	82,119	86,059	89,944	
Freight cars (revenue), class 1 railroads (AAR):																
Number owned, end of period.....thous.	1,332	1,267	1,267	1,263	1,253	1,247	1,247	1,245	1,242	1,239	1,239	1,232	1,231	1,228	1,225	
Held for repairs, % of total owned.....do	8.8	8.9	8.9	9.1	9.3	9.5	9.5	9.3	9.3	9.0	8.9	8.8	8.4	8.1	7.9	
Capacity (carrying), total, end of mo.....mil. tons	97.71	95.64	95.64	95.44	94.84	94.47	94.45	94.38	94.30	94.20	94.38	94.05	94.18	94.04		
Average per car.....tons	73.37	75.50	75.50	75.58	75.66	75.74	75.73	75.83	75.94	76.04	76.20	76.31	76.50	76.61		

* Revised. * Preliminary. 1 Annual total includes revisions not distributed by months. 2 Production, not factory sales. 3 Excludes 2 States. 4 Excludes 1 State. 5 Excludes 3 States. 6 Beginning 1978, data may not be strictly comparable with those for earlier years because of the revised export schedule. 7 Annual figures, "Apparel 1975," MA-23A(75)-1. Survey expanded and classification changed; not comparable with data prior to 1974. 8 Total includes backlog for nonrelated products and services and basic research. 9 Seas. adj. data (1971-74) in the Mar. 1976 SURVEY, p. 5, do not reflect end-digit revisions to imports and total sales introduced in the Feb. 1977 SURVEY. 10 Domestics include U.S.-type cars produced in the United States and Canada; imports cover foreign-type cars and captive imports, and exclude domestics produced in Canada. 11 Courtesy of R. L. Polk & Co.; republication prohibited. 12 Excludes railroad-owned private refrigerator cars and private line cars. 13 New series.

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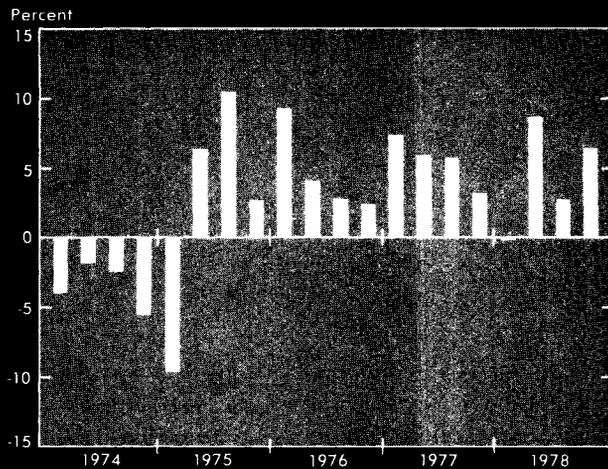
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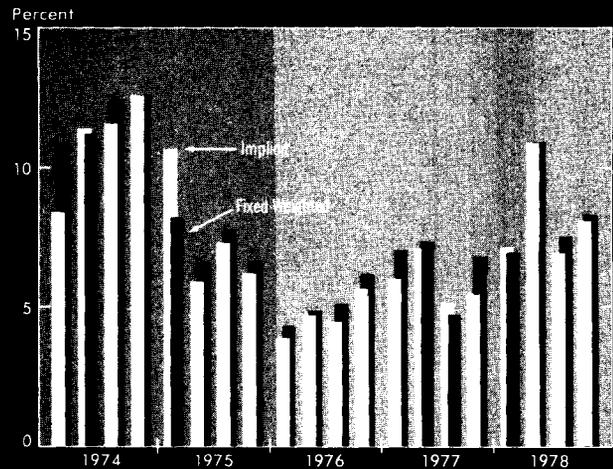
In the fourth quarter

- Real GNP increased 6 1/2 percent
- GNP fixed-weighted price index Increased 8 1/2 percent
- Real disposable personal income increased 5 1/2 percent

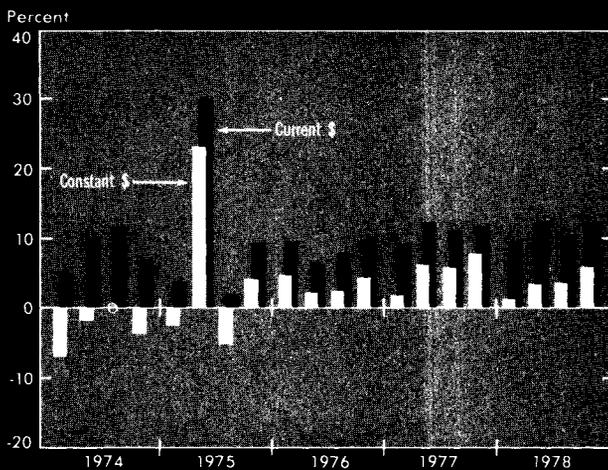
Real GNP



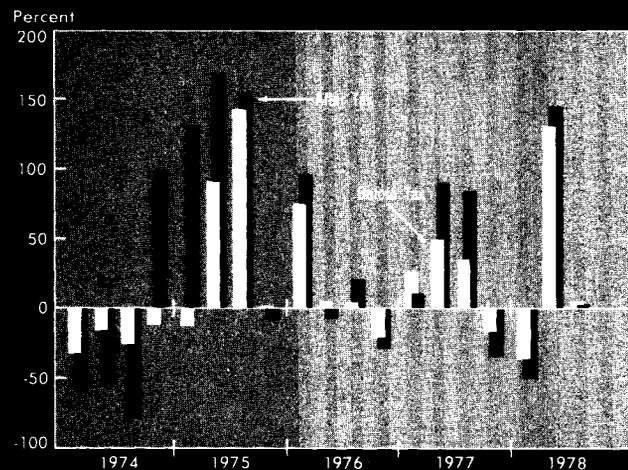
GNP Prices



Disposable Personal Income



Corporate Profits With IVA and CCAj



Percent change from preceding quarter - seasonally adjusted at annual rates.