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SURVEY OF CURRENT BUSINESS



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the BUSINESS SITUATION

In October, man-hours, personal income, and industrial production indicated some further slowdown in the rate of economic advance, but price pressures continued strong. The fragmentary evidence now available suggests that the expansion in GNP will slacken in the current quarter.

THE scattered evidence now available for the opening month of the fourth quarter appears to confirm some further weakening in the economy's forward momentum, even though price pressures continue to be severe. In October, the labor market continued to show signs of softening as employment recorded only a moderate increase, and weekly hours of work and overtime hours in manufacturing declined; unemployment remained virtually unchanged following its sharp rise in September. Personal income showed a very small increase and industrial production declined for the third consecutive month. According to advance reports, which have been subject to considerable revision, retail sales increased only moderately in October, partly because of some letup in sales of new cars.

The evidence now available is too fragmentary to permit definite conclusions about changes in business activity in the fourth quarter. However, with man-hours, personal income, and industrial production signaling less strength, and with important strikes exerting a dampening impact on economic activity, it is likely that the expansion in GNP will be less in the current quarter than in the third.

In the assessment of the outlook for final sales, consumer spending, which has behaved erratically over the past

year, is a notable uncertainty. Personal income and retail sales have started off at a rate only a little above the third quarter average. Auto demand is exhibiting less buoyancy, and reports on consumer buying intentions indicate some weakening in spending for the months ahead. These factors do not

suggest an acceleration in the rate of increase of consumption expenditures.

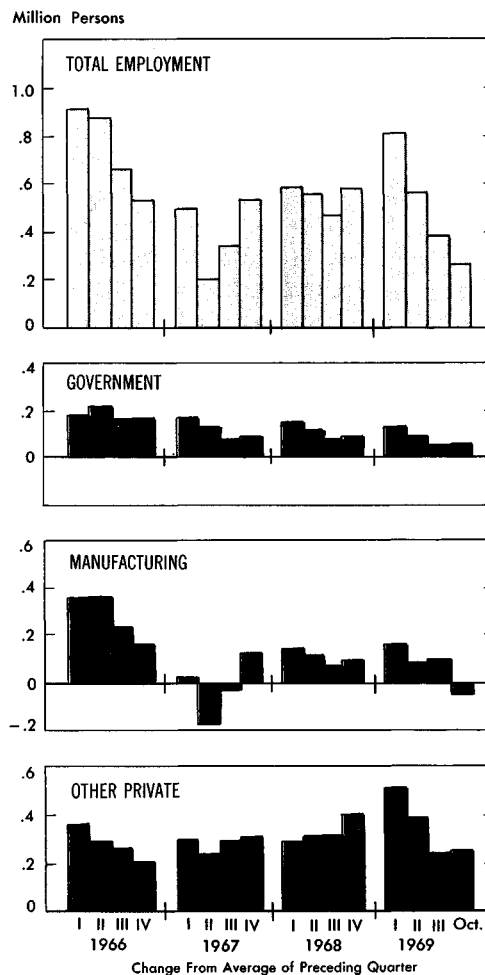
Fixed business investment may add less to final sales in the fourth than in the third quarter. According to the OBE-SEC survey conducted last August, capital outlays by business are not scheduled to increase. However, a new survey will appear next month. With stringent money and credit conditions continuing, residential investment is likely to decline further. Government purchases should add less to the fourth quarter than to the third quarter advance in GNP; the latter included the \$3 billion pay raise for Government employees. A quarterly interpolation of the Federal budget estimates suggests that a decline in defense expenditures will more than offset an increase in nondefense outlays. Data are not yet available to project State and local purchases or net exports, but the changes here are not likely to have an unusual impact on the overall rise in final sales. In contrast, inventory change, for which data are also lacking, may greatly affect the final outcome of fourth quarter GNP. Although inventories are always difficult to assess, from the present vantage point it seems more likely than not that inventories will contribute less to the increase in GNP in the current quarter than they did in the third.

Revised third quarter GNP

Revised estimates of GNP put the third quarter advance at a seasonally adjusted annual rate of \$18 billion, a slight upward revision from the preliminary figure published last month. Although the total was not altered significantly, there were some changes in its composition. Last month's prelim-

CHART 1 Nonfarm Employment

So far this year, the slower growth in nonfarm employment has been widespread



U.S. Department of Commerce, Office of Business Economics

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inary estimates placed the third quarter increase in final sales at \$15 billion and the increase in the rate of inventory accumulation at $2\frac{1}{2}$ billion. According to the revised estimates, the rise in final sales has been lowered to about \$14 $\frac{1}{4}$ billion and the change in inventory investment increased to \$3 $\frac{3}{4}$ billion.

The third quarter increase in inventory accumulation compares with virtu-

ally no change in the second quarter and a decline of nearly \$4 billion in the first quarter of the year. Nearly all of the third quarter change in inventory accumulation was in durable goods, particularly at the retail level. As pointed out last month, the rise appears to be related to the current tapering in consumer durable goods spending.

The revision raised the increase in current dollar GNP fractionally, to an annual rate of 7 $\frac{1}{4}$ percent. As measured by the implicit deflator, prices rose 5 $\frac{1}{2}$ percent, and physical volume 2 $\frac{1}{4}$ percent—the latter a little more than the 2 percent rise indicated last month.

Easing in labor demand

Some letup in labor market pressures was confirmed last month as the unemployment rate, at 3.9 percent, remained essentially unchanged, following its sharp rise from 3.5 percent in August to 4.0 percent in September. Jobless rates remained at about their September levels for both Negroes and whites and for most major groups of workers, i.e., married men, adult men and women, and teenagers.

Growth in nonfarm employment continued to show signs of slowing in October (chart 1). Measured from the average employment level of the summer quarter, nonfarm industries added 260,000 workers to their payrolls. This compares with increases averaging 810,000 in the first, 570,000 in the second, and 375,000 in the third quarter of this year. Nearly all of the October employment advance centered in service industries and in wholesale and retail trade.

Average weekly hours of work for production and nonsupervisory workers, which had held steady at 37.8 hours from March through September, dropped to 37.5 hours last month. All the major industry groups except finance, insurance, and real estate recorded declines. In manufacturing industries, the average workweek fell from 40.8 to 40.5 hours, while overtime hours declined from 3.6 to 3.4 hours. Overtime in manufacturing also declined one-tenth of an hour in September.

Personal income rise slows

After recording gains averaging more than \$5 billion during the first 8 months of this year, the expansion in personal income slowed to \$3 $\frac{1}{4}$ billion in September (revised) and to \$2 $\frac{1}{2}$ billion in October. The slower expansion in personal income has centered in wage and salary disbursements, which rose only \$1 $\frac{1}{2}$ billion last month. Government payrolls advanced \$ $\frac{1}{2}$ billion, but private payrolls were up only \$1 billion.

Within the private sector, a good-sized gain of \$1 $\frac{1}{4}$ billion was recorded in the service industries. In the nonmanufacturing commodity-producing industries, wage and salary disbursements were up slightly, but this was offset in manufacturing industries where, as the result of a small decline in employment and a shorter workweek, payrolls recorded their first dip in 18 months. The distributive industries recorded their first decline this year. Wages and salaries fell by about \$ $\frac{1}{4}$ billion, as the employment gain was more than offset by reduced weekly hours of work.

Industrial output slips further

Industrial output declined for the third consecutive month in October. The Federal Reserve Index of industrial production fell to 173.3 (1957-59=100), down three-fourths of 1 percent from its July peak. Reductions in output were recorded in durable and nondurable goods manufacturing and in mining; these more than offset an increase in output by the utilities. In manufacturing, most of the decline was attributable to durables, where output was lower for motor vehicles, electrical machinery, instruments, and stone, clay, and glass products.

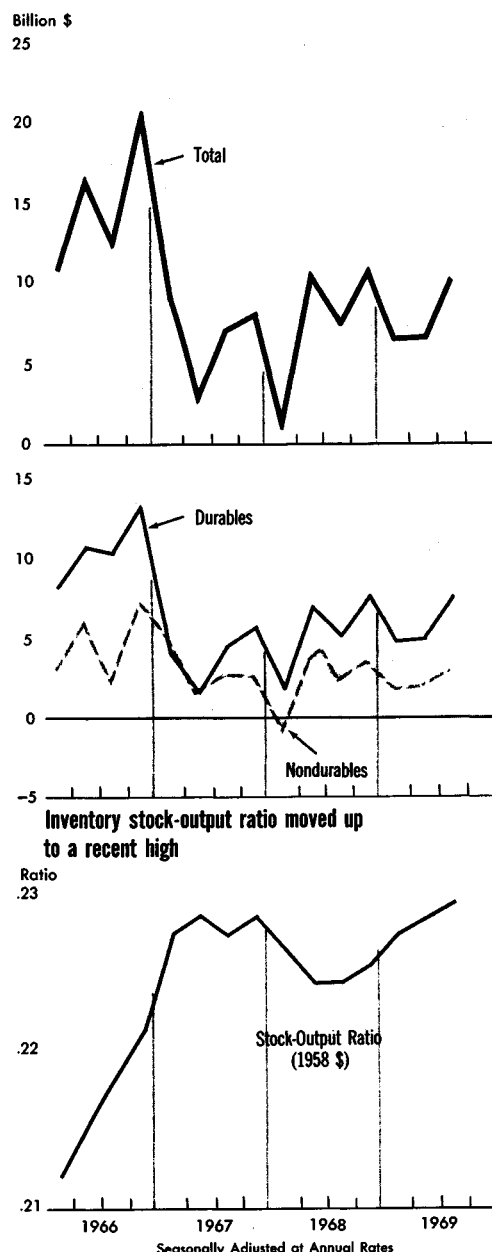
Recent changes in auto demand

Retail sales of new cars have shown considerable variation over the past 12 months. Having exceeded a seasonally adjusted annual rate of 10 million cars (both domestic and imports) for the first time in the third quarter of 1968, sales fell in each of the next two quarters to a rate of 9.4 million. They

CHART 2

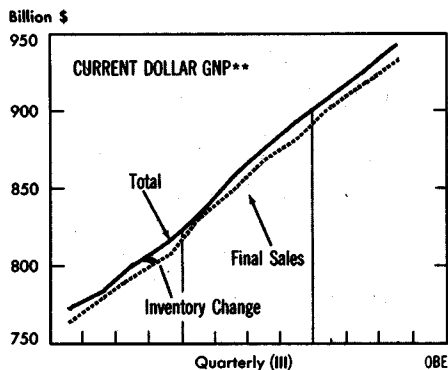
Change in Nonfarm Business Inventories (GNP Basis)

Inventory accumulation increased in the third quarter with the rise mostly in durable goods

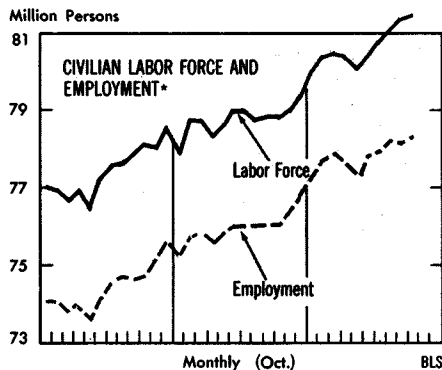


- Revised third quarter gain in GNP \$18 billion
- Nonfarm payroll employment rose moderately in October—weekly hours declined—unemployment rate virtually unchanged
- Wholesale prices up 0.4 percent in October—consumer prices scored another large increase in September

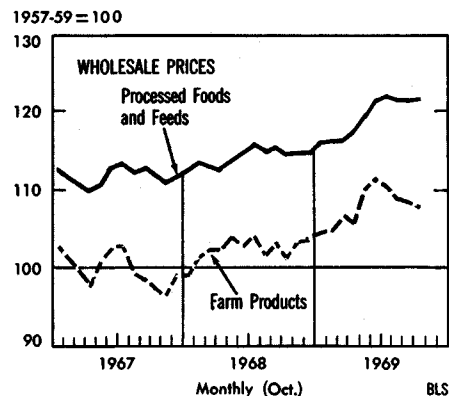
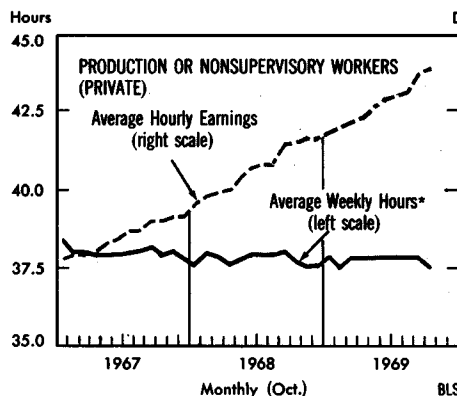
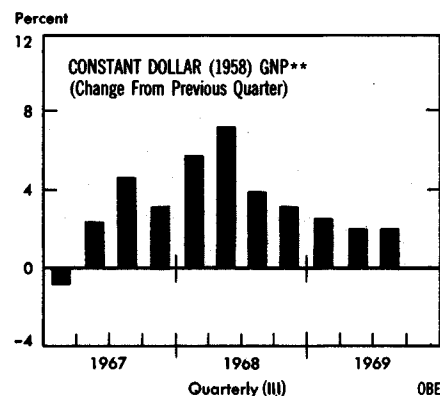
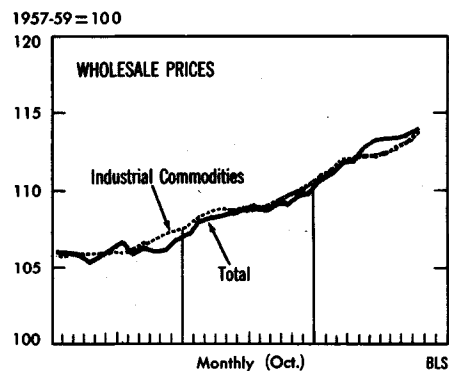
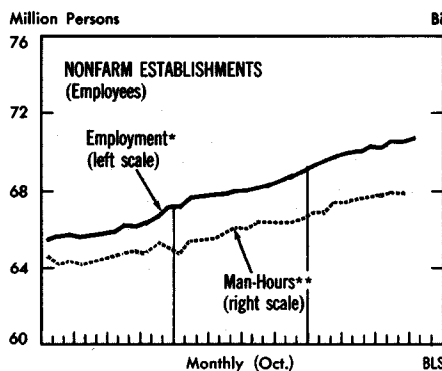
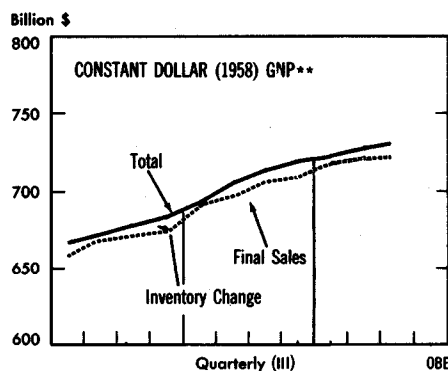
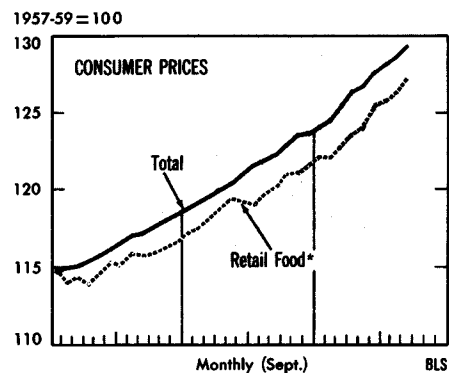
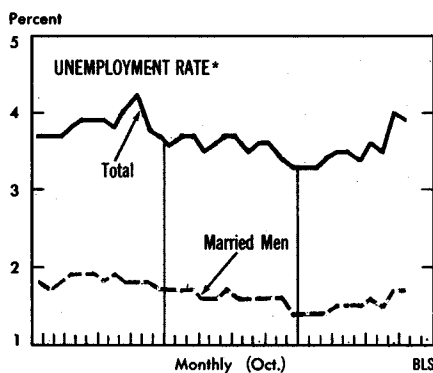
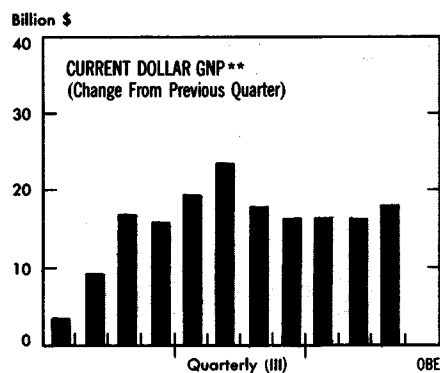
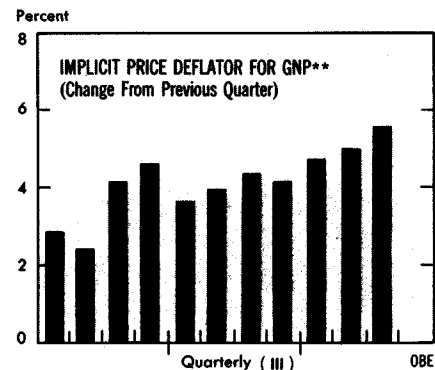
TOTAL PRODUCTION



THE LABOR MARKET



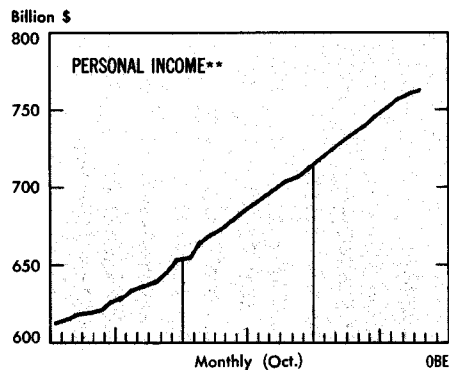
PRICES



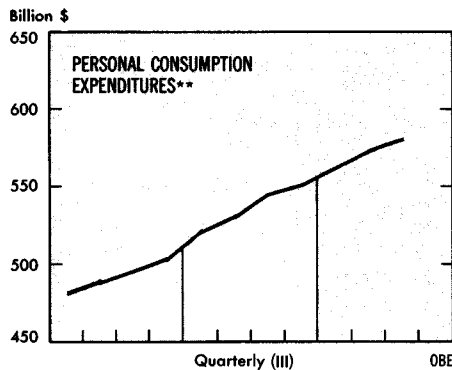
* Seasonally Adjusted ** Seasonally Adjusted at Annual Rates
U.S. Department of Commerce, Office of Business Economics

- Personal income advanced \$2.4 billion in October, below third quarter gain
- Retail sales up a little in October—new car sales slipped below high September rate
- Private nonfarm housing starts increased to a rate of 1.5 million units in September

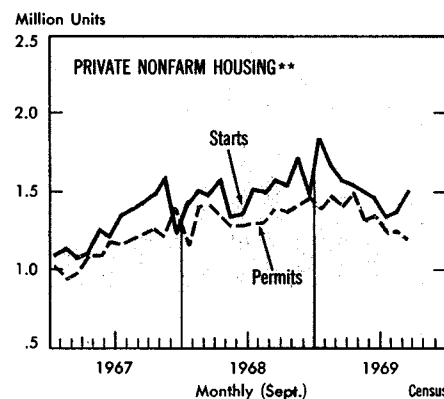
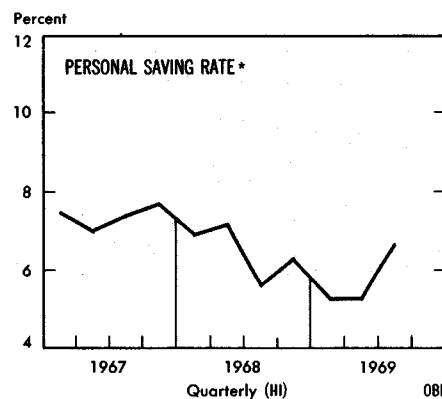
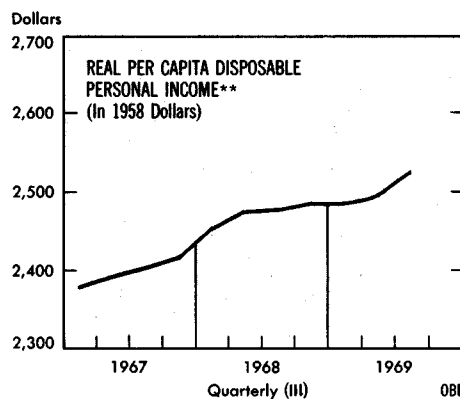
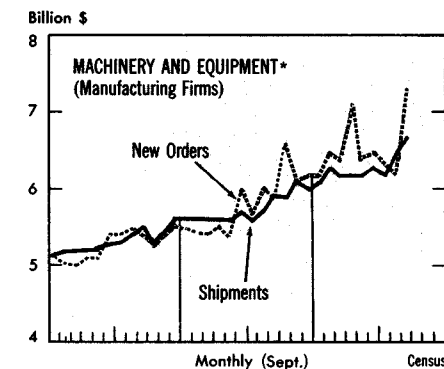
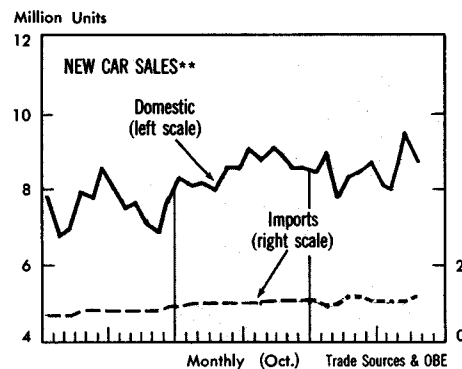
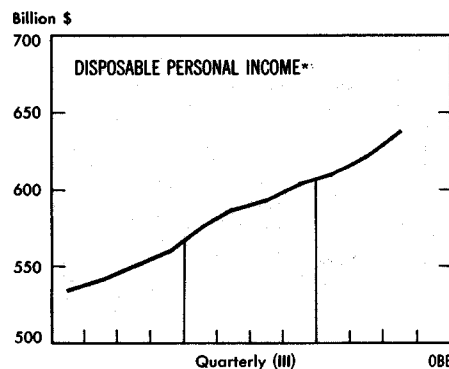
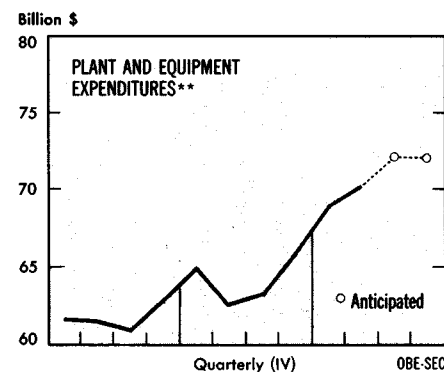
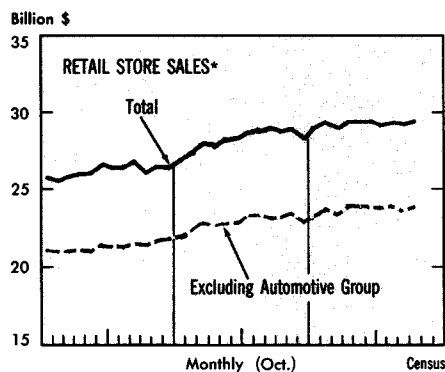
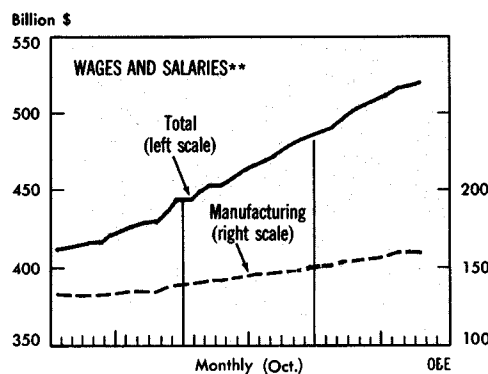
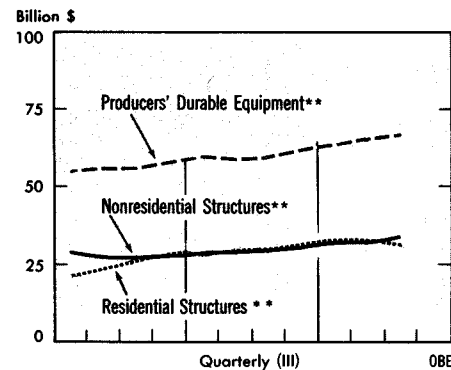
INCOME OF PERSONS



CONSUMPTION AND SAVING



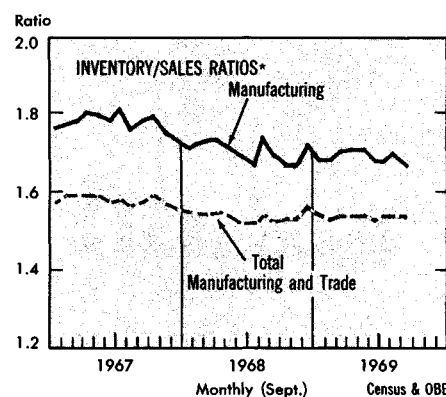
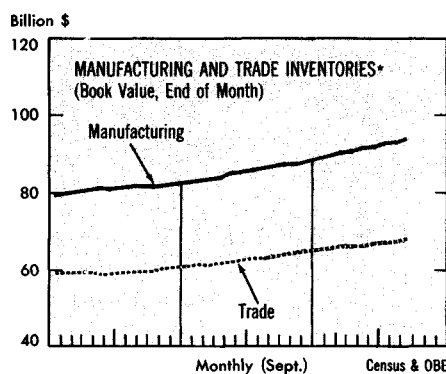
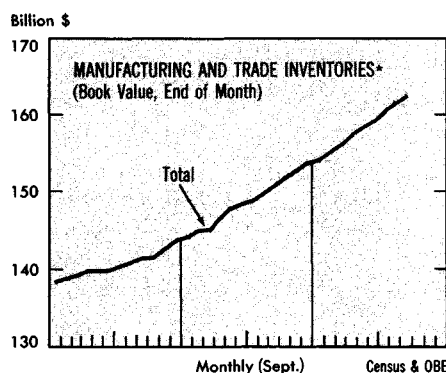
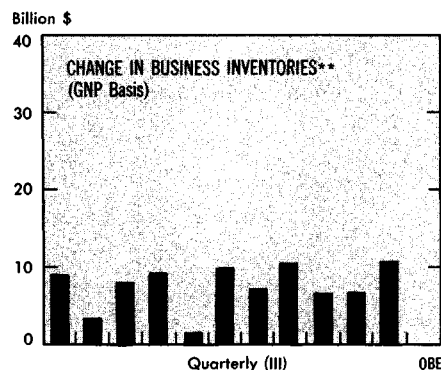
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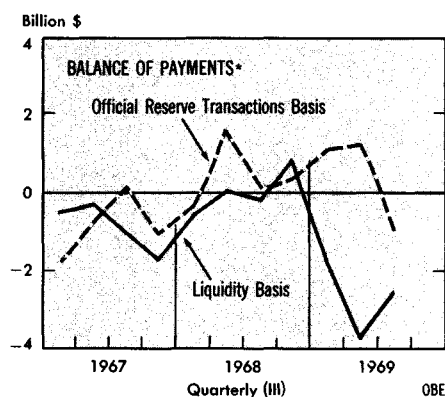
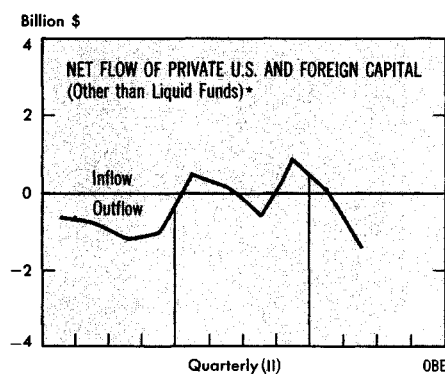
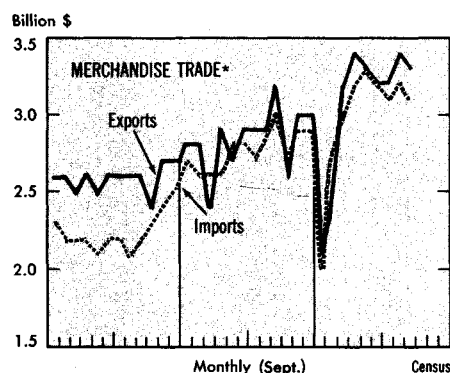
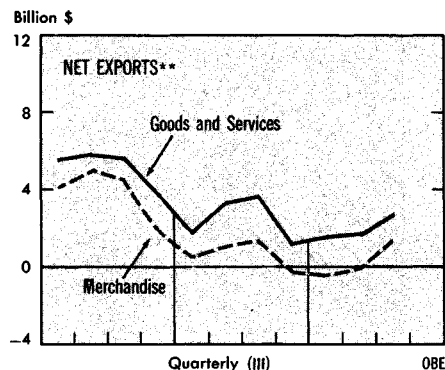
* Seasonally Adjusted ** Seasonally Adjusted at Annual Rates
U.S. Department of Commerce, Office of Business Economics

- Manufacturing and trade inventories rose \$1 billion in September, the same as in August
- Merchandise trade balance of \$270 million in September was largest this year
- Third quarter balance of payments deficit (liquidity basis) \$2 ½ billion—an improvement from second quarter

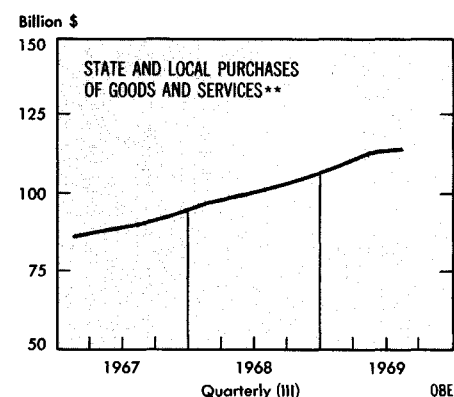
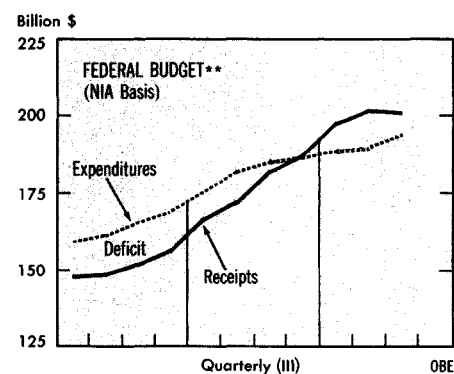
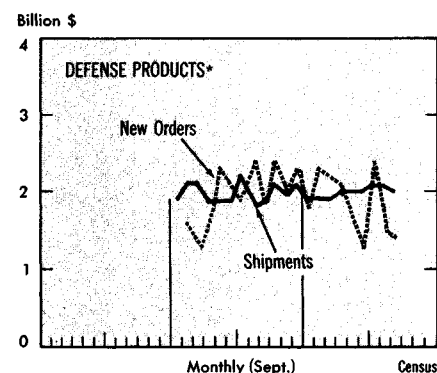
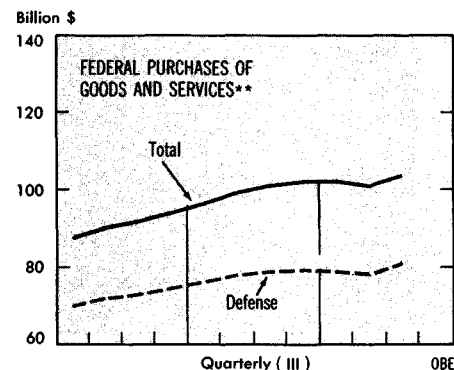
INVENTORIES



FOREIGN TRANSACTIONS



GOVERNMENT

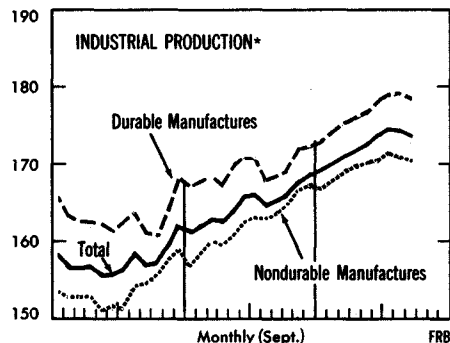


* Seasonally Adjusted ** Seasonally Adjusted at Annual Rates
U.S. Department of Commerce, Office of Business Economics

- Manufacturing capacity rate down slightly in third quarter
- Treasury bills little changed in October—yields on long-term corporate issues reached new highs
- Corporate profits (before tax and including IVA) dipped slightly in third quarter

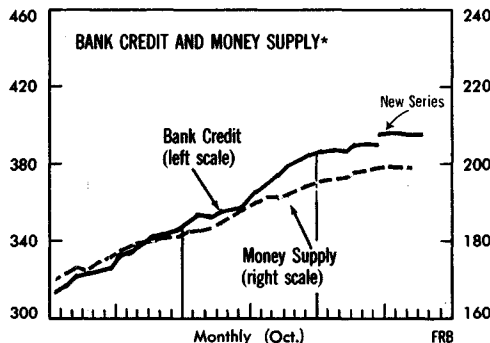
INDUSTRIAL PRODUCTION

Index, 1957-59 = 100



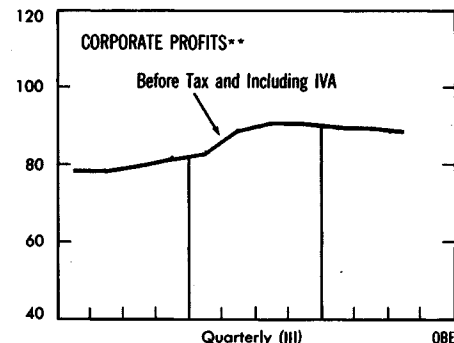
MONEY, CREDIT, AND SECURITIES MARKETS

Billion \$

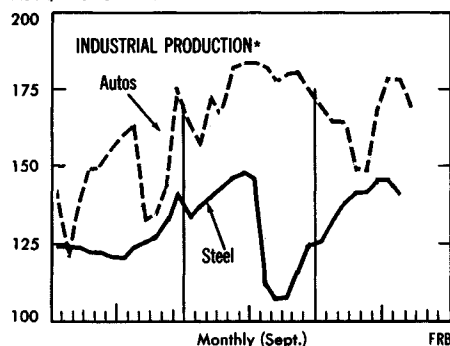


PROFITS AND COSTS

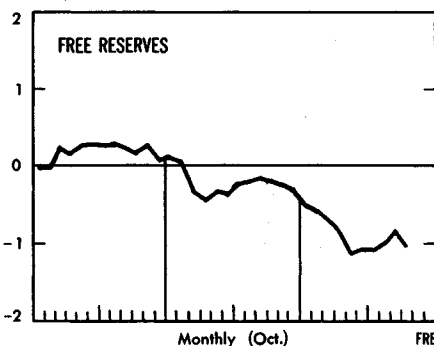
Billion \$



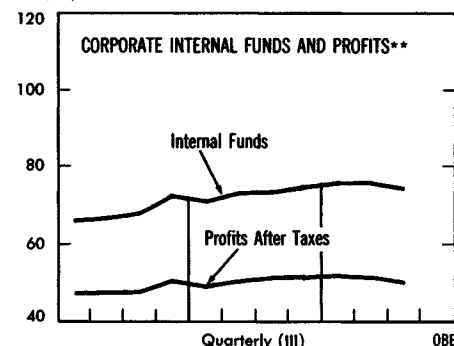
Index, 1957-59 = 100



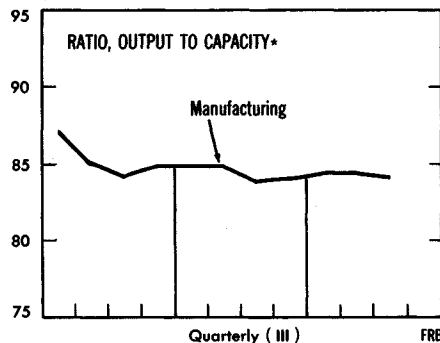
Billion \$



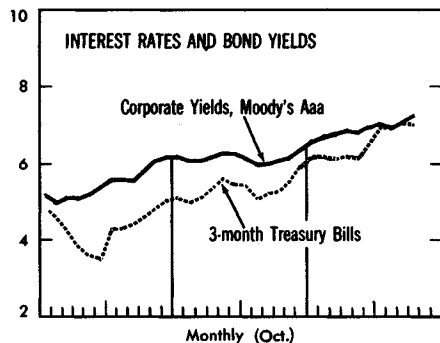
Billion \$



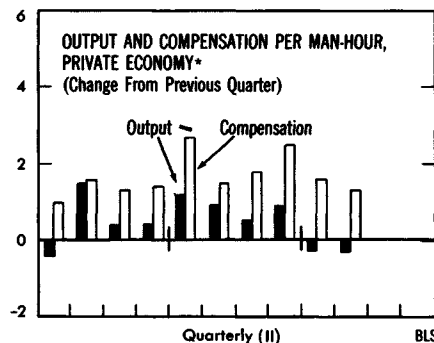
Percent



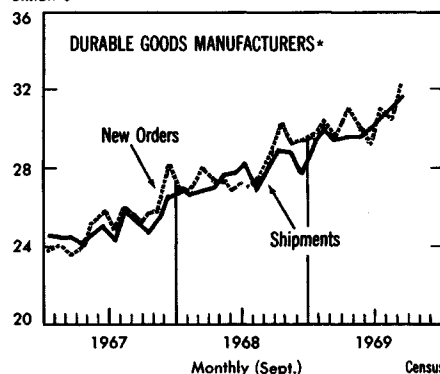
Percent



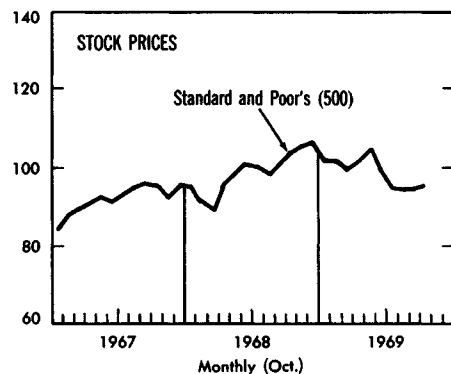
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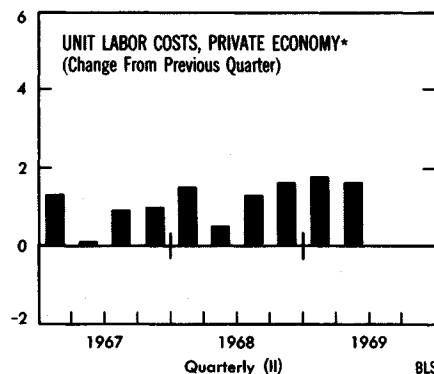
Billion \$



1941-43 = 10



Percent



* Seasonally Adjusted ** Seasonally Adjusted at Annual Rates
U.S. Department of Commerce, Office of Business Economics

69-114

NATIONAL INCOME AND PRODUCT TABLES

	1967	1968	1968			1969			1967	1968	1968			1969				
			II	III	IV	I	II	III			II	III	IV	I	II	III		
			Seasonally adjusted at annual rates								Seasonally adjusted at annual rates							
			Billions of current dollars								Billions of 1958 dollars							

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

Gross national product.....	793.5	865.7	858.7	876.4	892.5	908.7	924.8	942.8	674.6	707.6	705.8	712.8	718.5	723.1	726.7	730.6
Personal consumption expenditures.....	492.3	536.6	530.3	544.9	550.7	562.0	572.8	579.8	430.3	452.6	449.0	458.2	457.6	462.9	466.2	466.5
Durable goods.....	73.0	83.3	81.8	85.8	86.3	88.4	90.6	89.8	72.8	80.7	79.5	83.0	82.7	84.3	85.9	84.7
Nondurable goods.....	215.1	230.6	228.5	233.3	234.3	238.6	242.1	245.1	190.3	196.9	195.8	198.7	197.2	199.3	199.3	199.3
Services.....	204.2	222.8	220.0	225.8	230.1	235.0	240.1	244.9	167.2	175.0	173.7	176.5	177.7	179.3	181.0	182.5
Gross private domestic investment.....	116.0	126.3	126.6	125.2	133.9	135.2	137.4	143.3	100.8	105.7	106.6	104.1	110.9	109.9	110.8	114.3
Fixed investment.....	108.6	119.0	116.7	118.0	123.4	128.6	130.5	132.5	93.9	99.1	97.6	97.7	101.4	104.0	104.8	105.0
Nonresidential.....	83.7	88.8	86.4	88.1	91.5	95.3	97.8	101.1	73.6	75.8	74.0	75.0	77.3	79.4	81.0	82.4
Structures.....	27.9	29.3	28.3	29.0	30.1	32.3	32.1	34.7	22.6	22.7	22.0	22.2	22.9	23.9	23.3	24.6
Producers' durable equipment.....	55.7	59.5	58.1	59.1	61.4	63.0	65.7	66.4	51.0	53.2	52.0	52.7	54.4	55.5	57.7	57.8
Residential structures.....	25.0	30.2	30.3	29.9	31.9	33.3	32.7	31.4	20.3	23.3	23.5	22.7	24.1	24.6	23.8	22.6
Nonfarm.....	24.4	29.6	29.7	29.4	31.4	32.8	32.2	30.9	19.8	22.8	23.1	22.3	23.7	24.2	23.4	22.2
Farm.....	.6	.5	.6	.5	.5	.5	.5	.5	.5	.4	.4	.4	.4	.4	.4	.4
Change in business inventories.....	7.4	7.3	9.9	7.2	10.5	6.6	6.9	10.7	6.9	6.6	9.0	6.4	9.6	5.9	6.0	9.3
Nonfarm.....	6.8	7.4	10.3	7.5	10.7	6.6	6.7	10.3	6.3	6.7	9.4	6.7	9.8	5.9	5.8	8.9
Farm.....	.6	-.1	-.4	-.3	-.2	.0	.2	.4	.6	-.1	-.3	-.3	-.2	.0	.2	.4
Net exports of goods and services.....	5.2	2.5	3.4	3.6	1.2	1.5	1.6	2.7	3.6	.9	1.3	1.7	-.2	-.3	-.5	.4
Exports.....	46.2	50.6	50.7	53.4	50.6	47.6	57.1	57.8	42.1	45.6	45.2	48.0	45.5	41.9	50.4	50.2
Imports.....	41.0	48.1	47.3	49.7	49.4	46.1	55.5	55.2	38.5	44.7	43.9	46.3	45.7	42.2	50.8	49.8
Government purchases of goods and services.....	180.1	200.3	198.4	202.5	206.7	210.0	212.9	217.0	140.0	148.4	148.9	148.8	150.2	150.6	150.2	149.4
Federal.....	90.7	99.5	99.0	100.9	101.9	101.6	100.6	103.2	74.8	78.9	79.6	79.2	79.4	78.3	76.3	75.5
National defense.....	72.4	78.0	77.9	78.8	79.3	79.0	78.5	80.3	.....	.....	.....	.....	.....	.....	.....	.....
Other.....	18.4	21.5	21.1	22.1	22.5	22.6	22.1	22.9	.....	.....	.....	.....	.....	.....	.....	.....
State and local.....	89.3	100.7	99.4	101.7	104.8	108.5	112.3	113.8	65.2	69.5	69.3	69.6	70.8	72.3	73.9	73.9

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

Gross national product.....	793.5	865.7	858.7	876.4	892.5	908.7	924.8	942.8	674.6	707.6	705.8	712.8	718.5	723.1	726.7	730.6
Final sales.....	786.2	858.4	848.8	869.2	882.0	902.1	917.9	932.0	667.7	701.0	696.8	706.3	709.0	717.2	720.7	721.3
Change in business inventories.....	7.4	7.3	9.9	7.2	10.5	6.6	6.9	10.7	6.9	6.6	9.0	6.4	9.6	5.9	6.0	9.3
Goods output.....	398.4	431.1	429.2	437.0	443.5	447.9	456.5	465.9	362.7	381.3	380.8	385.5	388.2	389.1	391.6	395.9
Final sales.....	391.0	423.7	419.3	429.9	433.0	441.3	449.6	455.2	355.7	374.7	371.7	379.1	378.7	383.2	385.7	386.6
Change in business inventories.....	7.4	7.3	9.9	7.2	10.5	6.6	6.9	10.7	6.9	6.6	9.0	6.4	9.6	5.9	6.0	9.3
Durable goods.....	160.9	176.7	175.7	178.8	184.0	186.4	190.3	195.4	152.0	162.8	162.3	164.5	167.8	169.0	171.4	174.7
Final sales.....	157.0	171.4	168.9	173.7	176.6	181.6	185.5	187.8	148.5	158.0	156.2	159.9	161.2	164.8	167.3	168.1
Change in business inventories.....	3.9	5.3	6.8	5.1	7.4	4.8	4.9	7.6	3.5	4.7	6.1	4.5	6.5	4.2	4.1	6.6
Nondurable goods.....	237.5	254.4	253.5	258.3	259.5	261.5	266.2	270.5	210.7	218.6	218.4	221.1	220.5	220.2	220.2	221.2
Final sales.....	234.1	252.3	250.4	256.1	256.4	259.7	264.1	267.4	207.3	216.7	215.5	219.2	217.5	218.4	218.4	218.5
Change in business inventories.....	3.5	2.0	3.1	2.1	3.1	1.8	2.1	3.1	3.4	1.9	2.9	1.9	3.0	1.7	1.9	2.7
Services.....	316.7	347.5	343.4	353.2	358.5	365.8	373.4	381.6	249.1	259.9	258.9	262.4	262.7	264.6	267.0	267.6
Structures.....	78.4	87.1	86.0	86.1	90.6	94.9	94.8	95.3	62.9	66.4	66.2	64.8	67.5	69.3	68.0	67.1

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

Gross national product.....	793.5	865.7	858.7	876.4	892.5	908.7	924.8	942.8	674.6	707.6	705.8	712.8	718.5	723.1	726.7	730.6
Private.....	708.2	770.5	764.9	779.2	794.0	808.5	822.7	836.5	617.0	647.9	646.1	652.6	658.3	662.6	665.8	669.4
Business.....	681.0	740.6	734.6	749.3	763.1	776.7	790.5	804.0	597.3	627.5	625.3	632.1	637.5	641.5	644.8	648.6
Nonfarm.....	656.6	715.7	709.8	724.1	738.4	751.1	763.0	776.4	573.5	604.2	602.3	608.8	614.6	617.8	621.1	624.5
Farm.....	24.4	24.9	24.8	25.2	24.7	25.7	27.6	27.7	23.7	23.3	23.0	23.4	22.9	23.7	23.7	24.1
Households and institutions.....	22.7	25.2	25.4	25.0	26.0	27.2	28.3	28.9	15.4	15.9	16.1	15.7	16.2	16.8	17.2	17.4
Rest of the world.....	4.5	4.7	4.9	4.9	4.9	4.5	3.9	3.6	4.3	4.5	4.7	4.7	4.6	4.3	3.7	3.5
General government.....	85.3	95.2	93.8	97.1	98.5	100.2	102.1	106.2	57.6	59.7	59.8	60.2	60.2	60.5	60.9	61.1

	1967	1968	1968			1969		
			II	III	IV	I	II	III*
Seasonally adjusted at annual rates								
Billions of dollars								

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

Gross national product.....	793.5	865.7	858.7	876.4	892.5	908.7	924.8	942.8
Less: Capital consumption allowances.....	68.6	73.3	73.0	73.7	74.6	75.9	77.2	78.6
Equals: Net national product.....	725.0	792.4	785.6	802.6	817.9	832.8	847.6	864.2
Less: Indirect business tax and nontax liability.....	70.1	77.9	77.0	79.4	81.4	83.3	85.7	88.0
Business transfer payments.....	3.2	3.4	3.4	3.4	3.5	3.5	3.6	3.6
Statistical discrepancy.....	-1.0	-2.5	-1.6	-3.3	-3.4	-4.2	-6.5	-6.7
Plus: Subsidies less current surplus of government enterprises.....	1.4	.8	.7	1.1	.9	1.1	.9	1.1
Equals: National income.....	654.0	714.4	707.4	724.1	737.3	751.3	765.7	780.5
Less: Corporate profits and inventory valuation adjustment.....	79.2	87.9	88.2	90.6	90.3	89.5	89.2	88.7
Contributions for social insurance.....	42.4	47.0	46.5	47.6	48.6	52.7	53.8	55.1
Wage accruals less disbursements.....	.0	.0	.0	.0	.0	.0	.0	.0
Plus: Government transfer payments to persons.....	48.8	55.8	55.3	56.7	58.1	60.1	61.3	62.5
Interest paid by government (net) and by consumers.....	23.6	26.1	25.7	26.4	27.4	27.9	28.5	28.9
Dividends.....	21.5	23.1	22.9	23.6	23.8	23.8	24.3	24.9
Business transfer payments.....	3.2	3.4	3.4	3.4	3.5	3.5	3.6	3.6
Equals: Personal income.....	629.4	687.9	680.1	696.1	711.2	724.4	740.5	756.5

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

	Billions of current dollars							
	1967	1968	1968	1968	1968	1968	1968	1968
Gross auto product ¹	28.6	35.9	36.3	36.0	37.5	37.5	34.5	38.0
Personal consumption expenditures.....	24.9	30.2	29.2	31.7	31.4	30.9	31.4	32.1
Producers' durable equipment.....	4.4	5.3	5.1	5.6	5.5	5.4	5.5	5.6
Change in dealers' auto inventories.....	-5	1.0	2.4	-6	1.5	1.1	-1.4	1.2
Net exports.....	-5	-8	-7	-1.0	-1.2	-2	-1.4	-1.4
Exports.....	1.2	2.0	2.0	2.0	2.0	2.3	2.3	2.4
Imports.....	1.7	2.8	2.7	3.0	3.2	2.5	3.7	3.8
Addenda:								
New cars, domestic ²	25.5	32.4	32.9	32.6	33.9	33.4	30.7	34.2
New cars, foreign.....	2.9	4.3	4.2	4.3	4.7	4.6	5.4	5.5
	Billions of 1958 dollars							
	1967	1968	1968	1968	1968	1968	1968	1968
Gross auto product ¹	28.7	35.1	35.6	35.2	36.2	36.2	33.0	36.4
Personal consumption expenditures.....	25.0	29.4	28.6	30.9	30.2	29.7	30.1	30.7
Producers' durable equipment.....	4.5	5.2	5.1	5.5	5.4	5.3	5.4	5.5
Change in dealers' auto inventories.....	-5	1.0	2.4	-6	1.5	1.1	-1.3	1.2
Net exports.....	-5	-8	-7	-1.0	-1.2	-2	-1.4	-1.4
Exports.....	1.3	2.0	2.0	2.0	1.9	2.3	2.3	2.4
Imports.....	1.7	2.8	2.8	3.0	3.2	2.5	3.7	3.8
Addenda:								
New cars, domestic ²	26.0	32.1	32.7	32.4	33.3	32.7	30.0	33.4
New cars, foreign.....	3.0	4.3	4.2	4.3	4.6	4.5	5.3	5.3

1. The gross auto product total includes Government purchases.

2. Differs from the gross auto product total by the markup on both used cars and foreign cars.

*Third quarter 1969 corporate profits (and related components and totals) are preliminary and subject to revision next month.

		1968			1969		
1967	1968	II	III	IV	I	II	III*
		Seasonally adjusted at annual rates					
		Billions of dollars					

Table 6.—National Income by Type of Income (1.10)

National income.....	654.0	714.4	707.4	724.1	737.3	751.3	765.7	780.5
Compensation of employees.....	467.4	513.6	507.0	519.8	532.3	546.0	558.2	571.9
Wages and salaries.....	423.5	465.0	459.0	470.7	482.1	493.3	504.3	516.9
Private.....	337.3	369.0	364.5	372.7	382.8	392.5	402.0	410.2
Military.....	16.2	18.0	17.6	18.7	18.3	18.2	18.4	20.1
Government civilian.....	70.0	78.0	76.8	79.3	80.9	82.5	84.0	86.6
Supplements to wages and salaries.....	43.9	48.6	48.0	49.1	50.2	52.7	53.8	55.0
Employer contributions for social insurance.....	21.8	24.4	24.1	24.7	25.3	27.3	27.9	28.6
Other labor income.....	22.1	24.2	23.9	24.5	25.0	25.5	26.0	26.4
Employer contributions to private pension and welfare funds.....	18.4	20.1	19.8	20.1	20.1	20.1	20.1	20.1
Other.....	3.7	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Proprietors' income.....	61.9	63.8	63.6	64.1	64.1	64.6	66.5	67.3
Business and professional.....	47.2	49.2	49.2	49.3	49.7	49.7	50.1	50.5
Income of unincorporated enterprises.....	47.5	49.9	49.9	49.9	49.9	49.9	49.9	49.9
Inventory valuation adjustment.....	-3	-7	-7	-7	-7	-7	-7	-7
Farm.....	14.7	14.6	14.3	14.8	14.4	14.9	16.4	16.8
Rental income of persons.....	20.8	21.2	21.2	21.2	21.4	21.5	21.6	21.7
Corporate profits and inventory valuation adjustment.....	79.2	87.9	88.2	90.6	90.3	89.5	89.2	88.7
Profits before tax.....	80.3	91.1	90.7	91.5	94.5	95.5	95.4	92.4
Profits tax liability.....	33.0	41.3	41.1	41.4	42.9	43.4	43.6	42.4
Profits after tax.....	47.3	49.8	49.7	50.0	51.6	52.2	51.8	50.0
Dividends.....	21.5	23.1	22.9	23.6	23.8	23.8	24.3	24.9
Undistributed profits.....	25.9	26.7	26.7	26.5	27.8	28.4	27.5	25.1
Inventory valuation adjustment.....	-1.1	-3.2	-2.6	-9	-4.2	-6.1	-6.2	-3.7
Net interest.....	24.7	28.0	27.5	28.4	29.3	29.8	30.3	30.9

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

All industries, total.....	654.0	714.4	707.4	724.1	737.3	751.3	765.7	780.5
Agriculture, forestry, and fisheries.....	21.5	21.9	21.6	22.2	21.9	22.6	24.2	24.2
Mining and construction.....	39.4	42.9	42.6	43.1	44.4	45.9	47.8	47.8
Manufacturing.....	195.6	215.4	213.9	218.2	222.7	225.3	228.9	228.9
Nondurable goods.....	75.7	82.9	82.0	84.2	85.4	86.1	88.3	88.3
Durable goods.....	119.9	132.5	131.9	134.1	137.3	139.1	140.5	140.5
Transportation.....	25.1	27.2	27.0	27.5	27.8	28.2	28.9	28.9
Communication.....	13.1	14.2	13.8	14.4	14.9	15.3	15.6	15.6
Electric, gas, and sanitary services.....	12.6	13.7	13.4	14.2	13.9	14.2	14.2	14.2
Wholesale and retail trade.....	97.5	105.2	104.5	106.6	107.8	109.5	111.7	111.7
Finance, insurance, and real estate.....	72.3	78.2	77.1	79.3	80.9	82.9	84.4	84.4
Services.....	78.3	86.1	85.2	86.5	89.3	92.1	93.6	93.6
Government and government enterprises.....	94.1	105.0	103.3	107.1	108.7	110.6	112.5	112.5
Rest of the world.....	4.5	4.7	4.9	4.9	4.9	4.5	3.9	3.9

Table 8.—Corporate Profits (Before Tax) and Inventory Valuation Adjustment by Broad Industry Groups (6.12)

All industries, total.....	79.2	87.9	88.2	90.6	90.3	89.5	89.2	88.7
Financial institutions.....	10.5	11.5	11.2	12.1	11.9	12.3	12.7	13.1
Mutual.....	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Stock.....	8.5	9.4	9.1	10.0	9.8	10.2	10.6	11.0
Nonfinancial corporations.....	68.8	76.4	76.9	78.5	78.5	77.2	76.5	75.6
Manufacturing.....	39.0	44.4	44.9	45.4	46.2	45.1	44.9	44.9
Nondurable goods.....	18.1	19.9	19.8	20.4	20.4	20.3	21.0	21.0
Durable goods.....	20.9	24.5	25.1	25.0	25.8	24.7	23.9	23.9
Transportation, communication, and public utilities.....	10.8	11.6	11.5	12.0	11.6	11.8	11.7	11.7
All other industries.....	19.0	20.4	20.6	21.0	20.7	20.3	19.9	19.9

	1967	1968	1968			1969		
			II	III	IV	I	II	III *
			Seasonally adjusted at annual rates					
			Billions of dollars					

Table 9.—Gross Corporate Product¹ (1.14)

Gross corporate product.....	450.9	494.2	489.9	501.6	510.7	519.9	530.1	539.5
Capital consumption allowances.....	42.6	45.9	45.8	46.2	46.7	47.7	48.6	49.6
Indirect business taxes plus transfer payments less subsidies.....	40.8	44.8	44.4	45.8	46.6	47.3	48.5	49.8
Income originating in corporate business.....	367.5	403.5	399.7	409.6	417.4	425.0	433.0	440.2
Compensation of employees.....	291.7	318.4	314.5	321.9	329.8	338.2	346.0	353.4
Wages and salaries.....	260.6	284.3	280.8	287.4	294.7	301.3	308.5	315.1
Supplements.....	31.1	34.1	33.8	34.5	35.1	36.9	37.6	38.3
Net interest.....	.2	1.2	1.1	1.3	1.4	1.5	1.6	1.7
Corporate profits and inventory valuation adjustment.....	75.6	83.9	84.1	86.4	86.2	85.2	85.3	85.1
Profits before tax.....	76.7	87.2	86.6	87.3	90.4	91.3	91.6	88.8
Profits tax liability.....	33.0	41.3	41.1	41.4	42.9	43.4	43.6	42.4
Profits after tax.....	43.7	45.8	45.6	45.9	47.5	47.9	48.0	46.4
Dividends.....	20.0	21.5	21.2	21.9	22.2	22.1	22.8	23.4
Undistributed profits.....	23.8	24.3	24.3	24.0	25.3	25.8	25.2	23.0
Inventory valuation adjustment.....	-1.1	-3.2	-2.6	-.9	-4.2	-6.1	-6.2	-3.7
Cash flow, gross of dividends.....	86.4	91.7	91.4	92.1	94.2	95.6	96.6	96.0
Cash flow, net of dividends.....	66.4	70.2	70.1	70.2	72.1	73.5	73.8	72.5
Gross product originating in financial institutions.....	20.4	22.8	22.3	23.6	23.9	24.9	25.6	26.3
Gross product originating in nonfinancial corporations.....	430.6	471.4	467.7	478.0	486.8	495.0	504.5	513.3
Capital consumption allowances.....	41.4	44.6	44.5	44.9	45.4	46.4	47.3	48.2
Indirect business taxes plus transfer payments less subsidies.....	39.1	43.0	42.5	43.9	44.7	45.3	46.5	47.8
Income originating in nonfinancial corporations.....	350.1	383.8	380.6	389.2	396.7	403.3	410.7	417.3
Compensation of employees.....	275.8	300.6	297.0	303.7	311.0	318.7	326.2	333.2
Wages and salaries.....	246.6	268.6	265.4	271.5	278.2	284.2	291.1	297.3
Supplements.....	29.2	31.9	31.6	32.2	32.8	34.5	35.1	35.8
Net interest.....	9.1	10.9	10.7	11.1	11.4	11.7	11.9	12.2
Corporate profits and inventory valuation adjustment.....	65.2	72.4	72.9	74.3	74.3	72.9	72.6	72.0
Profits before tax.....	66.3	75.6	75.4	75.2	78.5	79.0	78.8	75.7
Profits tax liability.....	28.2	35.6	35.5	35.5	37.0	37.2	37.2	35.8
Profits after tax.....	38.1	40.0	39.9	39.7	41.5	41.8	41.6	39.9
Dividends.....	19.1	20.4	20.1	20.7	20.9	20.9	21.5	22.1
Undistributed profits.....	19.0	19.6	19.8	19.0	20.6	20.9	20.1	17.8
Inventory valuation adjustment.....	-1.1	-3.2	-2.6	-.9	-4.2	-6.1	-6.2	-3.7
Cash flow, gross of dividends.....	79.5	84.6	84.4	84.7	86.9	88.1	88.9	88.1
Cash flow, net of dividends.....	60.4	64.2	64.3	63.9	66.0	67.2	67.4	66.0

Billions of 1958 dollars

Gross product originating in nonfinancial corporations.....	390.5	415.9	413.9	420.8	425.1	427.7	431.9	434.7
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Dollars

Current dollar cost per unit of 1958 dollar gross product originating in nonfinancial corporations ²	1.103	1.133	1.130	1.136	1.145	1.157	1.168	1.181
Capital consumption allowances.....	.106	.107	.108	.107	.107	.108	.109	.111
Indirect business taxes plus transfer payments less subsidies.....	.100	.103	.103	.104	.105	.106	.108	.110
Compensation of employees.....	.706	.723	.718	.722	.732	.745	.755	.766
Net interest.....	.023	.026	.026	.026	.027	.027	.028	.028
Corporate profits and inventory valuation adjustment.....	.167	.174	.176	.177	.175	.170	.168	.166
Profits tax liability.....	.072	.086	.086	.084	.087	.087	.086	.082
Profits after tax plus inventory valuation adjustment.....	.095	.088	.090	.092	.088	.083	.082	.083

1. Excludes gross product originating in the rest of the world.

2. This is equal to the deflator for gross product of nonfinancial corporations, with the decimal point shifted two places to the left.

3. Personal saving as a percentage of disposable personal income.

*Third quarter 1969 corporate profits (and related components and totals) are preliminary and subject to revision next month.

	1967	1968	1968			1969		
			II	III	IV	I	II	III
Seasonally adjusted at annual rates								
Billions of dollars								

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

Personal income.....	629.4	687.9	680.1	696.1	711.2	724.4	740.5	756.5
Wage and salary disbursements.....	423.5	465.0	459.0	470.7	482.1	493.3	504.3	516.9
Commodity-producing industries.....	166.5	181.5	179.3	183.0	187.8	191.5	196.5	200.5
Manufacturing.....	134.2	145.9	144.2	147.4	150.7	153.3	156.6	159.9
Distributive industries.....	100.3	109.2	107.9	110.8	113.1	115.5	118.3	121.1
Service industries.....	70.5	78.3	77.3	78.9	82.0	85.4	87.1	88.7
Government.....	86.2	96.0	94.5	97.9	99.2	100.8	102.4	106.6
Other labor income.....	22.1	24.2	23.9	24.5	25.0	25.5	26.0	26.4
Proprietors' income.....	61.9	63.8	63.6	64.1	64.1	64.6	66.5	67.3
Business and professional.....	47.2	49.2	49.2	49.3	49.7	49.7	50.1	50.5
Farm.....	14.7	14.6	14.3	14.8	14.4	14.9	16.4	16.8
Rental income of persons.....	20.8	21.2	21.2	21.2	21.4	21.5	21.6	21.7
Dividends.....	21.5	23.1	22.9	23.6	23.8	23.8	24.3	24.9
Personal interest income.....	48.3	54.1	53.2	54.8	56.7	57.6	58.8	59.8
Transfer payments.....	52.0	59.2	58.7	60.1	61.6	63.6	64.9	66.1
Old-age, survivors, disability, and health insurance benefits.....	25.7	30.3	30.3	30.9	31.8	32.4	32.9	33.3
State unemployment insurance benefits.....	2.1	2.1	1.9	2.1	2.0	2.2	1.9	2.2
Veterans benefits.....	6.6	7.2	7.2	7.1	7.3	7.8	8.2	8.4
Other.....	17.6	19.7	19.4	20.0	20.5	21.3	21.9	22.2
Less: Personal contributions for social insurance.....	20.6	22.6	22.4	22.9	23.3	25.4	25.9	26.6
Less: Personal tax and nontax payments.....	82.9	97.9	92.7	102.6	107.0	114.2	118.5	117.5
Equals: Disposable personal income.....	546.5	590.0	587.4	593.4	604.3	610.2	622.0	639.0
Less: Personal outlays.....	506.2	551.6	545.1	560.2	566.2	577.7	588.8	596.0
Personal consumption expenditures.....	492.3	536.6	530.3	544.9	550.7	562.0	572.8	579.8
Interest paid by consumers.....	13.1	14.2	14.0	14.4	14.7	15.0	15.2	15.4
Personal transfer payments to foreigners.....	.8	.8	.7	.8	.7	.7	.7	.8
Equals: Personal saving.....	40.4	38.4	42.3	33.2	38.0	32.5	33.3	43.1
Addenda:								
Disposable personal income:								
Total, billions of 1958 dollars.....	477.7	497.6	497.4	498.9	502.1	502.6	506.2	514.1
Per capita, current dollars.....	2,745	2,933	2,924	2,946	2,991	3,014	3,065	3,140
Per capita, 1958 dollars.....	2,399	2,474	2,476	2,477	2,485	2,482	2,494	2,526
Personal saving rate, ³ percent.....	7.4	6.5	7.2	5.6	6.3	5.3	5.3	6.7

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

Personal consumption expenditures.....	492.3	536.6	530.3	544.9	550.7	562.0	572.8	579.8
Durable goods.....	73.0	83.3	81.8	85.8	86.3	88.4	90.6	89.8
Automobiles and parts.....	30.5	37.0	35.6	38.6	39.0	39.4	40.0	40.8
Furniture and household equipment.....	31.3	34.2	33.8	35.0	34.6	35.5	36.8	35.8
Other.....	11.2	12.1	12.4	12.1	12.8	13.6	13.8	13.2
Nondurable goods.....	215.1	230.6	228.5	233.3	234.3	238.6	242.1	245.1
Food and beverages.....	108.1	115.0	114.8	116.1	116.4	118.4	119.1	119.9
Clothing and shoes.....	42.5	46.3	45.6	47.4	47.3	48.1	50.0	50.8
Gasoline and oil.....	17.7	19.1	18.8	19.5	19.5	20.4	21.0	21.8
Other.....	46.8	50.1	49.4	50.3	51.1	51.8	52.0	52.7
Services.....	204.2	222.8	220.0	225.8	230.1	235.0	240.1	244.9
Housing.....	71.8	77.4	76.7	77.9	79.8	81.3	82.8	84.4
Household operation.....	29.1	31.2	30.7	31.6	31.9	32.7	33.1	33.9
Transportation.....	14.7	16.1	15.9	16.3	16.5	17.1	17.3	17.7
Other.....	88.6	98.1	96.7	100.0	101.8	103.9	106.9	108.8

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

Receipts from foreigners.....	46.2	50.6	50.7	53.4	50.6	47.6	57.1	57.8
Exports of goods and services.....	46.2	50.6	50.7	53.4	50.6	47.6	57.1	57.8
Payments to foreigners.....	46.2	50.6	50.7	53.4	50.6	47.6	57.1	57.8
Imports of goods and services.....	41.0	48.1	47.3	49.7	49.4	46.1	55.5	55.2
Transfers to foreigners.....	3.0	2.9	2.8	3.1	3.1	2.4	2.8	2.6
Personal.....	.8	.8	.7	.8	.7	.7	.7	.8
Government.....	2.2	2.1	2.0	2.3	2.4	1.7	2.1	1.8
Net foreign investment.....	2.2	-.3	.6	.6	-1.9	-1.0	-1.2	.0

	1967	1968	1968			1969		
			II	III	IV	I	II	III *
			Seasonally adjusted at annual rates					
			Billions of dollars					

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

Federal Government receipts.....	151.1	176.3	170.8	181.4	187.3	198.1	202.3	200.9
Personal tax and nontax receipts.....	67.5	79.5	74.7	83.7	87.4	93.8	96.9	95.0
Corporate profits tax accruals.....	30.6	38.3	38.1	38.4	39.8	40.2	40.5	39.4
Indirect business tax and nontax accruals.....	16.3	18.0	17.9	18.3	18.5	18.5	18.6	19.1
Contributions for social insurance.....	36.7	40.5	40.1	40.9	41.7	45.6	46.4	47.5
Federal Government expenditures.....	163.8	181.5	180.3	184.2	187.4	188.5	189.3	193.6
Purchases of goods and services.....	90.7	99.5	99.0	100.9	101.9	101.6	100.6	103.2
National defense.....	72.4	78.0	77.9	78.8	79.3	79.0	78.5	80.3
Other.....	18.4	21.5	21.1	22.1	22.5	22.6	22.1	22.9
Transfer payments.....	42.2	47.8	47.6	48.7	50.0	50.8	52.1	52.7
To persons.....	40.0	45.7	45.5	46.5	47.6	49.1	50.0	50.9
To foreigners (net).....	2.2	2.1	2.0	2.3	2.4	1.7	2.1	1.8
Grants-in-aid to State and local governments.....	15.9	18.3	18.2	18.4	19.0	19.0	19.3	19.8
Net interest paid.....	10.3	11.6	11.4	11.7	12.2	12.5	12.9	13.1
Subsidies less current surplus of government enterprises.....	4.7	4.3	4.1	4.6	4.4	4.6	4.4	4.6
Surplus or deficit (—), national income and product accounts.....	-12.7	-5.2	-9.5	-2.8	-1	9.6	13.0	7.3

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

State and local government receipts.....	93.2	106.2	104.7	108.0	111.4	114.5	118.5	121.9
Personal tax and nontax receipts.....	15.4	18.4	18.0	18.9	19.5	20.5	21.5	22.5
Corporate profits tax accruals.....	2.4	3.0	3.0	3.0	3.1	3.1	3.1	3.0
Indirect business tax and nontax accruals.....	53.8	59.9	59.2	61.1	62.9	64.8	67.1	68.9
Contributions for social insurance.....	5.7	6.5	6.4	6.6	6.9	7.1	7.4	7.7
Federal grants-in-aid.....	15.9	18.3	18.2	18.4	19.0	19.0	19.3	19.8
State and local government expenditures.....	95.0	107.6	106.0	108.7	112.2	116.3	120.5	122.2
Purchases of goods and services.....	89.3	100.7	99.4	101.7	104.8	108.5	112.3	113.8
Transfer payments to persons.....	8.8	10.0	9.8	10.2	10.5	11.0	11.3	11.6
Net interest paid.....	.2	.3	.3	.3	.4	.4	.4	.4
Less: Current surplus of government enterprises.....	3.3	3.4	3.4	3.5	3.5	3.5	3.5	3.6
Surplus or deficit (—), national income and product accounts.....	-1.8	-1.5	-1.3	-7	-8	-1.8	-2.1	-3

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

Gross private saving.....	133.7	135.1	139.6	132.6	136.3	130.7	131.8	143.0
Personal saving.....	40.4	38.4	42.3	33.2	38.0	32.5	33.3	43.1
Undistributed corporate profits.....	25.9	26.7	26.7	26.5	27.8	28.4	27.5	25.1
Corporate inventory valuation adjustment.....	-1.1	-3.2	-2.6	-9	-4.2	-6.1	-6.2	-3.7
Corporate capital consumption allowances.....	42.6	45.9	45.8	46.2	46.7	47.7	48.6	49.6
Noncorporate capital consumption allowances.....	26.0	27.4	27.2	27.5	27.9	28.2	28.6	29.0
Wage accruals less disbursements.....	.0	.0	.0	.0	.0	.0	.0	.0
Government surplus or deficit (—), national income and product accounts.....	-14.5	-6.7	-10.8	-3.5	-9	7.8	10.9	7.0
Federal.....	-12.7	-5.2	-9.5	-2.8	-1	9.6	13.0	7.3
State and local.....	-1.8	-1.5	-1.3	-7	-8	-1.8	-2.1	-3
Gross investment.....	118.2	125.9	127.2	125.8	132.0	134.2	136.2	143.3
Gross private domestic investment.....	116.0	126.3	126.6	125.2	133.9	135.2	137.4	143.3
Net foreign investment.....	2.2	-3	.6	.6	-1.9	-1.0	-1.2	.0
Statistical discrepancy.....	-1.0	-2.5	-1.6	-3.3	-3.4	-4.2	-6.5	-6.7

*Third quarter 1969 corporate profits (and related components and totals) are preliminary and subject to revision next month.

		1968			1969		
1967	1968	II	III	IV	I	II	III
		Seasonally adjusted					
		Index numbers, 1958=100					

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

Gross national product.....	117.6	122.3	121.7	122.9	124.2	125.7	127.3	129.0
Personal consumption expenditures.....	114.4	118.6	118.1	118.9	120.4	121.4	122.9	124.3
Durable goods.....	100.3	103.3	102.9	103.4	104.5	104.9	105.5	106.0
Nondurable goods.....	113.0	117.1	116.7	117.5	118.8	119.8	121.5	123.0
Services.....	122.1	127.3	126.6	127.9	129.5	131.0	132.7	134.2
Gross private domestic investment.....								
Fixed investment.....	115.7	120.0	119.6	120.8	121.7	123.7	124.5	126.2
Nonresidential.....	113.7	117.1	116.7	117.6	118.4	120.1	120.8	122.7
Structures.....	123.6	129.3	128.7	130.6	131.4	135.3	137.8	141.0
Producers' durable equipment.....	109.2	111.9	111.6	112.1	113.0	113.5	113.9	114.9
Residential structures.....	123.1	129.7	128.7	131.5	132.4	135.3	137.1	138.8
Nonfarm.....	123.1	129.8	128.7	131.6	132.5	135.4	137.2	138.9
Farm.....	122.8	126.9	126.1	126.2	126.1	127.5	130.4	132.3
Change in business inventories.....								
Net exports of goods and services.....								
Exports.....	109.7	110.9	112.1	111.3	111.3	113.5	113.4	115.2
Imports.....	106.5	107.6	107.8	107.5	108.2	109.2	109.2	110.8
Government purchases of goods and services.....	128.7	135.0	133.3	136.2	137.6	139.5	141.8	145.3
Federal.....	121.3	126.2	124.5	127.4	128.3	129.8	131.9	136.8
State and local.....	137.1	145.0	143.4	146.2	148.1	150.1	151.9	153.9

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

Gross national product.....	117.6	122.3	121.7	122.9	124.2	125.7	127.3	129.0
Goods output.....	109.9	113.0	112.7	113.4	114.2	115.1	116.6	117.7
Durable goods.....	105.9	108.5	108.2	108.7	109.7	110.3	111.1	111.9
Nondurable goods.....	112.7	116.4	116.1	116.8	117.7	118.8	120.9	122.3
Services.....	127.2	133.7	132.7	134.6	136.4	138.2	139.8	142.6
Structures.....	124.6	131.1	130.0	132.9	134.1	137.0	139.4	142.0
Addendum:								
Gross auto product.....	99.7	102.5	101.9	102.3	103.6	103.7	104.4	104.4

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

Gross national product.....	117.6	122.3	121.7	122.9	124.2	125.7	127.3	129.0
Private.....	114.8	118.9	118.4	119.4	120.6	122.0	123.6	125.0
Business.....	114.0	118.0	117.5	118.5	119.7	121.1	122.6	124.0
Nonfarm.....	114.5	118.5	117.8	118.9	120.1	121.6	122.8	124.3
Farm.....	102.9	106.8	106.0	107.8	107.9	108.5	116.3	115.0
Households and institutions.....	147.2	158.6						
General government.....	148.1	159.4	156.9	161.3	163.6	165.6	167.5	173.7

HISTORICAL DATA

Historical national income and product data are available from the following sources:

1965-68: July 1969 SURVEY OF CURRENT BUSINESS.

1964: July 1968 SURVEY OF CURRENT BUSINESS.

1929-63: *The National Income and Product Accounts of the United States, 1929-65, Statistical Tables* (available from any U.S. Department of Commerce Field Office or from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, price \$1.00 per copy).

then rose to 9.7 million in the second quarter and held at this rate in the third. Although sales of domestic and imported cars fell relatively the same amount in the 6 months ending last March, imports rose faster than domestics in the 6-month period ending in September. Imports accounted for over 11 percent of total sales in the recent June–September period, as compared with 10 percent a year earlier.

Sales of new domestic cars moved up sharply during the third quarter of this year, to reach a seasonally adjusted annual rate of almost 9½ million in September—the highest monthly figure in over 3 years. Although this rate was not sustained during October—partly due to strike-induced shortages of certain models—sales continued high and registered an annual rate of 8¼ million cars.

Producers started the 1970 model year at a high level of output. During the summer, assemblies were at a seasonally adjusted annual rate of 9 million units, as compared with 8 million in the second quarter. However, in the latter part of the third quarter and in October, strikes at several plants reduced production by about 100,000 units.

Price pressures continue strong

Inflationary pressures continued strong last month and the Wholesale Price Index recorded its sharpest rise since last June. After increasing 0.1 percent in July and August, and 0.2 percent in September, wholesale prices rose 0.4 percent in October. All of last month's increase centered in industrial commodities. Prices for farm products declined—for the fourth consecutive month—but this was offset by prices for processed foods and feeds, which were higher after declining in both August and September. Increases were widespread among the industrial commodities. An unusually sharp rise of 2.3 percent was recorded in transportation equipment prices, most of which occurred in the motor vehicle component.

Consumer prices rose about 0.5 percent in September (the latest month for which data are available); this was a little more than the rise in

August, but about the same as the average advance during the first 8 months of this year. Services and nondurable commodities accounted for all of the September increase. Most of the rise in nondurable commodities occurred in apparel, while the rise in food prices slowed noticeably.

Credit restraint severe

During October, the monetary authorities maintained very stringent conditions in money and credit markets. Continuing the pattern that has been evident since last July, most broad measures of monetary policy registered little change. Total member bank reserves, seasonally adjusted, dipped slightly last month, member bank borrowing increased, excess reserves declined, and net borrowed reserves averaged \$1 billion, up from \$830 million in September. The money stock (currency and private demand deposits)

rose slightly, and time deposits, reflecting the continued contraction in certificate of deposit funds, declined.

Commercial bank credit, seasonally adjusted, was unchanged in October. Bank loans, notably security loans, advanced at a more rapid pace than that which had prevailed since midyear, but larger declines were recorded in bank investments in U.S. Government and other securities.

After rising sharply in September, interest rates and bond yields responded favorably to renewed peace rumors and to expectations that a slowing in the pace of economic activity would permit some near-term letup in credit restraints. Interest rates declined during the first 3 weeks of October, but as optimism concerning lower rates faded, they turned about and moved upward during late October and early November. By mid-November, most interest rates and bond yields were very close to their levels at the end of September.

Corporate Profits, Internal Funds, and Investment

Preliminary figures for the third quarter show a sharp drop in corporate book profits from the second quarter, and a continuation of the decline in profits as measured for national income purposes. The latter decline, which started last fall, was reflected in a moderate reduction in internal sources of funds of non-financial corporations. Investment outlays of these corporations moved up in 1969, and the excess of fixed investment over internal funds has been high by historical standards.

CORPORATE profits as measured for national income purposes dipped \$½ billion from the second quarter to a total of \$88¼ billion at seasonally adjusted annual rates in the third. This profits measure—which is before-

tax and excludes inventory profits and losses—has declined steadily since the fourth quarter of 1968, and is now down \$2 billion, or 2 percent, from the peak attained in the summer quarter of 1968.

In the third quarter, the drop was confined to nonfinancial corporations, whose profits fell \$1 billion to a total of \$75½ billion; financial institutions' profits continued to rise and reached a total of over \$13 billion. Profits fell most in nondurable goods manufacturing, and were also off in the "all other industries" group. They were higher in durable goods manufacturing and in the transportation, communications, and public utility group.

This broad pattern of decline in nonfinancial corporation profits and strength in financial institution profits

was also evident earlier this year. However, in the first half of 1969, profits of durable goods manufacturers had declined and nondurable goods profits had advanced.

The decline shown by corporate profits (including the inventory valuation adjustment) over the past year was in marked contrast with the behavior of "book" profits, which continued to rise last fall and winter, were essentially unchanged in the second quarter, and then dropped sharply in the third. The different movement in the two profit measures reflected the fact that earlier this year book profits were inflated by an understatement of cost of goods sold. This stems from the use of first-in-first-out accounting in an environment of accelerating increases in prices of goods included in inventories, particularly raw materials. When the rate of advance in raw materials prices slowed in the third quarter, the understatement of costs was much reduced, and book profits

declined towards the level of corporate profits as measured for national income purposes.

The fall in book profits in the third quarter amounted to \$3 billion and brought the total down to \$92½ billion. Approximately \$1¼ billion of the third quarter drop in book profits was absorbed by lower income tax liabilities. With dividends rising about \$½ billion, book undistributed profits fell \$2½ billion.

Costs up sharply

The decline in the profits of nonfinancial corporations over the past year occurred despite an increase in sales. The reduction was entirely due to a narrowing of profit margins as unit labor and nonlabor costs rose faster than selling prices (chart 8). Since the third quarter 1968 peak in profits, prices per unit of constant-dollar gross corporate product increased 4 percent, unit labor costs rose more than 6 percent, and unit nonlabor costs were up 5 percent. In consequence, profits per unit of gross corporate output fell 6 percent over this period.

The narrowing of profit margins of nonfinancial corporations over the past year marked an intensification of the trend which began at the end of 1965 (chart 9). From the fourth quarter of that year to the third quarter of 1968, unit prices rose at an average annual rate of 2¼ percent, while unit labor costs were up 3½ percent and unit nonlabor costs rose 3¼ percent. The decline in unit profits during this period averaged 1¼ percent a year.

Before-tax profit margins, expressed as a percent of gross corporate product, fell from a peak of 17.3 percent in the fourth quarter of 1965 to 15.5 percent by the third quarter of 1968 and to 14 percent in the third quarter of this year.

The pressure on after-tax profit margins has been even more pronounced. The third quarter 1969 after-tax unit profit of 8.3 cents was 20 percent below the peak attained in late 1965, while before-tax unit profits were off only about 9 percent. The greater tax burden in 1969 as compared with 1965 reflected mainly the imposition of the surtax in 1968.

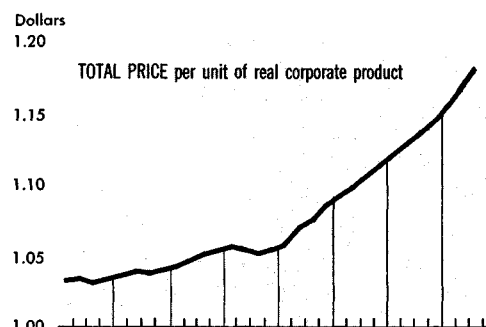
Investment exceeds internal funds

The internal funds of nonfinancial corporations fell almost \$1 billion over the past year, as a \$4 billion reduction in undistributed profits (including IVA) more than offset a \$3¼ billion increase in capital consumption allowances. Over the same period, corporate plant and equipment outlays moved up sharply,

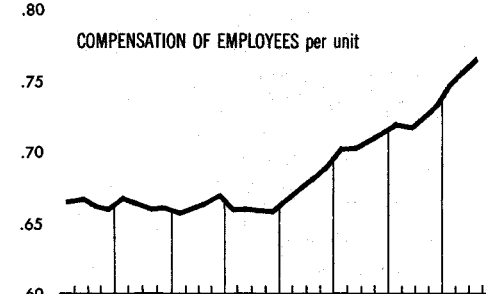
CHART 8

Prices, Costs, and Profits Per Unit of Real Corporate Product

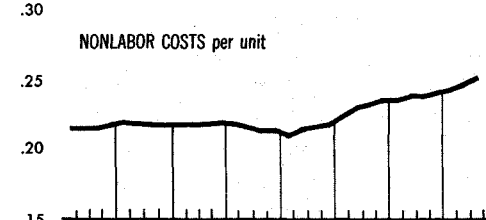
Prices rose sharply again in the third quarter . . .



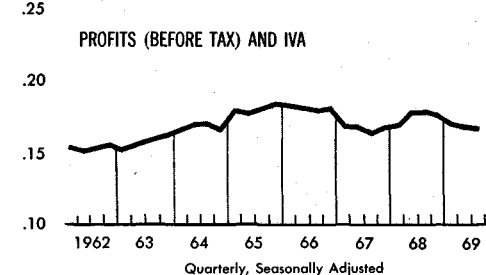
as unit labor costs . . .



and nonlabor costs advanced



Unit profits declined



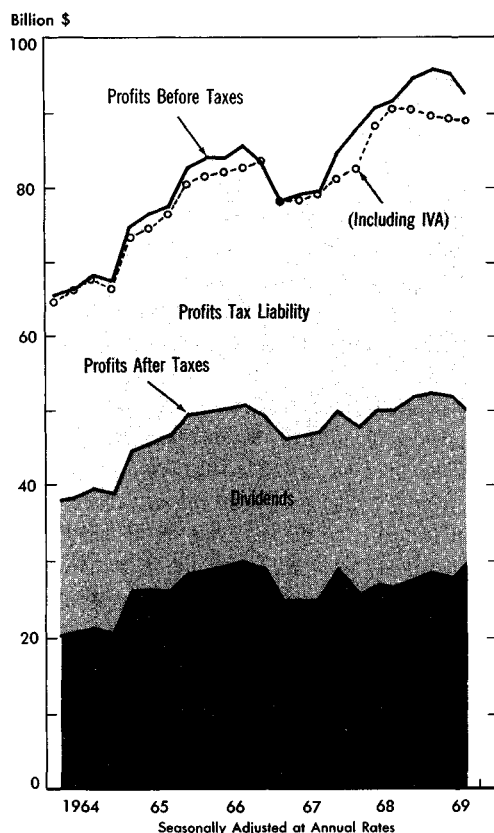
Note.—Nonfinancial corporations only.

U.S. Department of Commerce, Office of Business Economics

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CHART 7

Corporate Profits



U.S. Department of Commerce, Office of Business Economics

69-11-7

and, by the third quarter of 1969, such outlays were \$11 billion above the year earlier total. Reflecting these divergent movements, the ratio of internal sources to fixed investment outlays declined from 96½ percent in the third quarter of 1968 to 82 percent in the third quarter of this year. Most of this drop occurred in the first quarter.

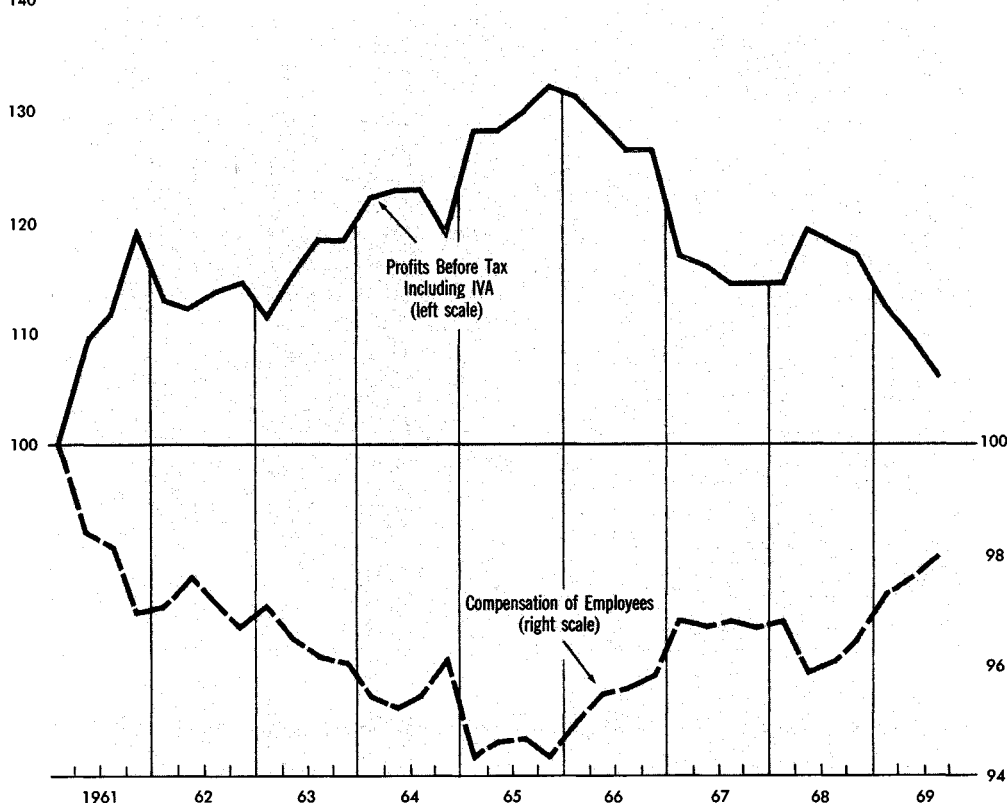
Inventory and other working capital needs also moved up sharply over the past year. The conjunction of a rapid increase in investment and working capital needs and a modest decline in internal sources led corporations to increase their borrowing during the first half of 1969, and to reduce the rate at which they acquired liquid assets. The step-up in borrowing was centered in the shorter term categories: borrowing from banks and commercial paper. Bond flotations were up only moderately and mortgage borrowing declined.

The slowdown in total liquid asset acquisitions was accompanied by a large shift in the composition of liquid asset portfolios. There occurred a heavy liquidation of time deposits and a shift to open-market paper and short-term municipal obligations. These changes were made in large part in order to maximize yields.

Shares of Profits and Employee Compensation in Corporate Gross Product

- Since late 1965, profits have been declining relative to output while employee compensation has been increasing

Index, 1961 1st Quarter Distribution = 100
140



U.S. Department of Commerce, Office of Business Economics

69-11-9

Note on Revisions in the Sources and Uses of Funds, Nonfarm Nonfinancial Corporations

Revised statistics for the sources and uses of funds of nonfarm nonfinancial corporations may be found on pages 14 and 15; annual figures are shown from 1946 through 1968 and quarterly figures at seasonally adjusted annual rates from the first quarter of 1952 through the second quarter of 1969. These statistics reflect the comprehensive revisions in the sectoral allocation of investment and in the financial flow estimates introduced by the Board of Governors of the Federal Reserve System in the November 1969 *Federal Reserve Bulletin*. The revision also brings the estimates of purchases of physical assets and internal sources into line with the revised national income and product account data published in the July 1969 *SURVEY OF CURRENT BUSINESS*.

Table 1.—Sources and Uses of Funds, Nonfarm Nonfinancial Corporate Business, Seasonally Adjusted Quarterly Totals at Annual Rates, 1952-57

(Billions of dollars)

1952				1953				1954				1955				1956				1957				Line No.
I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	
34.3	22.8	34.4	36.5	36.0	36.4	28.6	20.3	23.2	25.3	30.5	38.1	51.3	50.7	52.8	62.1	43.9	46.0	47.7	52.2	49.2	45.1	44.8	34.2	
21.9	20.3	20.1	22.3	22.7	21.4	21.2	19.3	21.3	22.9	23.5	25.6	28.5	29.4	29.1	29.7	28.8	28.5	29.5	29.0	30.6	30.9	31.0	29.8	2
9.9	8.1	8.1	9.8	11.1	10.4	10.0	5.5	7.4	8.6	9.4	10.7	13.5	13.7	13.9	14.6	13.4	13.8	12.2	13.3	13.7	12.4	11.6	9.5	3
1.3	1.2	.7	.8	-4	-1.6	-2.0	.0	.0	.0	-7	-5	-1.1	-9	-2.2	-2.8	-2.9	-3.6	-1.2	-3.0	-2.4	-1.5	-1.3	-9	4
10.8	11.1	11.3	11.7	12.0	12.6	13.1	13.7	13.9	14.3	14.8	15.4	16.1	16.7	17.4	17.8	18.3	18.4	18.4	18.7	19.3	20.0	20.6	21.2	5
12.4	2.5	14.3	14.2	13.4	15.0	7.4	1.0	1.9	2.4	7.0	12.6	22.8	21.2	23.7	32.4	15.1	17.5	18.3	23.2	18.6	14.2	13.8	4.4	6
2.2	2.6	1.6	2.8	2.1	2.3	1.2	1.6	3.0	2.0	.5	.8	2.5	.9	1.3	3.2	2.1	1.0	2.3	3.7	3.0	3.7	1.2	1.9	7
4.9	5.4	4.7	3.7	3.5	3.4	2.2	4.3	3.6	3.2	5.2	1.8	2.4	2.3	1.8	4.9	2.3	3.7	4.5	4.0	6.8	5.8	6.4	6.3	8
1.0	.7	.9	.9	1.0	.9	.6	1.0	1.0	1.6	1.8	2.0	2.2	2.0	1.8	1.2	1.6	2.1	1.5	1.2	1.4	1.0	1.8	2.2	9
2.9	-7	2.3	4.0	1.1	.3	.5	-3.4	-1.3	-1.0	-9	.4	1.9	2.7	5.5	5.8	7.3	6.2	3.5	4.4	2.7	4.6	-2	-2.1	10
-5	-9	-6	-2	-1	.3	.8	-4	.1	-2	.4	-1	1	-1	-4	.4	-2	-1	.4	.1	.3	.5	.8	.5	11
-2.0	-2.6	6.1	3.7	3.4	.5	-9	-1.7	-9	-4	1.2	6.5	7.4	4.8	8.9	10.4	3.3	6.7	4.6	4.3	4.7	1.3	.5	-3.9	12
-2.3	-4.4	-3.8	-2.8	.6	3.4	.9	-2.5	-5.3	-2.5	-3.3	-2.1	4.2	5.3	2.7	4.2	-3.8	-3.9	-1.8	1.6	-1.7	-3.9	-3	-2.6	13
2.2	2.4	3.1	2.1	1.8	4.0	2.1	2.0	1.7	-3	2.1	3.2	2.3	3.3	2.2	2.4	2.3	1.9	3.4	3.9	1.5	1.4	3.8	2.1	14
33.4	22.7	32.8	33.4	33.0	33.9	25.8	15.8	21.0	24.5	27.2	37.2	48.7	46.8	48.4	56.3	38.2	39.9	42.3	48.5	47.6	41.5	40.5	33.1	15
26.9	21.4	23.6	25.8	26.3	27.6	25.4	19.2	20.4	21.0	21.1	24.0	27.0	27.7	33.0	38.4	35.0	36.7	36.1	35.9	35.2	36.1	36.8	30.6	16
21.7	22.6	20.2	22.0	23.2	23.3	23.6	23.0	22.5	22.2	22.5	22.8	23.0	24.7	27.0	28.4	28.9	30.1	31.6	32.1	33.1	33.2	34.3	33.1	17
.5	.7	3.0	.7	.6	.6	.3	.5	.7	1.2	1.2	1.2	1.6	.9	.5	.1	.2	.7	.2	.3	.5	.7	.7	.9	18
4.7	-1.9	4.0	3.1	2.4	3.6	1.5	-4.3	-2.8	-2.3	-2.6	.1	2.4	2.0	5.4	9.9	5.9	5.9	4.3	3.5	1.6	2.2	1.9	-3.3	19
6.5	1.2	9.3	7.6	6.6	6.3	.4	-3.4	.6	3.4	6.1	13.1	21.7	19.1	15.4	18.0	3.2	3.2	6.2	12.6	12.4	5.4	3.7	2.5	20
2.4	3	-1.1	-9	2.3	3.7	2.8	-3	-1.4	-2.1	3.6	.5	8.8	7.9	.9	4.1	-5.9	-7.4	-3.6	.5	2.7	-2.8	.0	-4	21
4.6	-2.2	1.0	.3	-2.3	3.5	8	2	-1.4	3.3	3.0	3.2	5.0	-8	-3	.1	-4	-2.2	.9	3.2	1.1	-2.0	.9	-1	22
0	0	0	0	0	0	0	0	.2	.2	.2	.3	.2	.2	0	0	.1	.1	.2	.1	.2	.1	.2	.1	23
-7	1.9	-2.3	-1.2	4.6	5	2.6	-1.4	-7	-5.6	1	-3.0	4.2	7.9	1.0	3.7	-5.6	-5.6	-4.1	-2.6	1.5	-3	-1.5	-1.4	24
-1.6	4	2	-1	0	-3	.8	7	3	-1	.2	-1	-3	7	-1	0	2	4	.3	-3	-1	-5	.2	.7	25
.1	1	0	.0	.0	.1	1	.1	.1	.1	.0	.1	.2	.3	.3	.2	.2	.1	.1	.1	.1	.1	.1	.3	26
0	1.3	.8	.9	.1	.4	.2	.3	.3	.2	.2	.4	.7	.6	.6	.7	.5	.2	.8	.5	.8	.1	.3	.0	27
4.0	-1.2	9.2	5.3	3.6	2	-3.1	-3.9	1.7	3.4	2.9	10.5	11.6	9.8	12.8	11.4	6.0	9.0	7.7	7.2	7.0	2.7	1.3	2	28
.1	.9	.4	2.3	.7	2.0	.5	.5	.0	1.9	-6	1.7	.6	.8	1.1	1.7	2.5	1.3	1.3	4.3	2.0	5.4	2.0	2.8	29
-9	-1	-1.6	-3.1	-3.0	-2.5	-2.8	-4.5	-2.2	-8	-3.3	-1.0	-2.5	-3.9	-4.4	-5.8	-5.7	-6.1	-5.4	-3.7	-1.7	-3.6	-4.2	-1.2	30

Table 1.—Sources and Uses of Funds, Nonfarm Nonfinancial Corporate Business, Seasonally Adjusted Quarterly Totals at Annual Rates, 1963-69

(Billions of dollars)

1963				1964				1965				1966				1967				1968				1969		Line No.
I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	
70.9	69.2	61.5	66.6	59.7	73.2	78.7	75.7	92.1	85.9	92.7	101.5	105.7	104.7	95.6	96.3	93.9	77.6	96.4	108.8	109.9	101.4	110.5	118.9	118.6	114.5	1
42.2	43.2	45.0	45.1	49.5	50.6	51.5	50.5	55.3	55.7	57.1	58.3	59.4	60.5	60.8	63.9	60.4	60.1	61.4	62.8	59.1	63.9	65.3	64.1	63.4	63.2	2
12.0	13.4	13.9	14.9	18.0	18.1	18.9	18.2	22.7	22.9	22.5	24.2	24.5	24.7	25.4	24.3	20.4	20.2	20.2	23.8	21.2	22.2	21.6	23.1	23.5	22.5	3
2	-9	2	-1.3	-6	-1	-4	-1.0	-1.4	-2.1	-1.1	-2.3	-2.4	-2.2	-3.0	5	-1	-7	-4	-3.3	-5.3	-2.6	-9	-4.2	-6.1	-6.2	4
30.0	30.7	30.9	31.5	32.1	32.5	33.0	33.4	34.0	34.8	35.7	36.4	37.3	38.0	38.5	39.0	40.1	40.7	41.6	42.3	43.2	44.2	44.6	45.1	46.0	46.9	5
28.8	26.0	16.5	21.5	10.3	22.6	27.2	25.2	36.8	30.2	35.7	43.2	46.3	44.2	34.7	32.4	33.5	17.5	35.0	46.0	50.8	37.5	45.2	54.9	55.1	51.3	6
0	0	3	-1.5	2.6	3.3	1.1	-1.5	0	1.6	-5	-1.0	-5	5.9	9	-1.5	9	1.9	2.8	3.6	1.3	-6	-1.9	-2.2	1	2.4	7
4.8	3.4	3.3	4.2	3.5	4.1	3.4	5.0	4.5	5.5	6.9	4.6	12.7	9.5	9.3	9.3	13.6	13.7	17.4	14.0	11.5	13.4	12.1	14.6	14.9	12.4	8
4.4	5.1	4.9	5.1	2.7	2.9	4.1	4.6	3.9	3.7	4.0	3.9	5.9	5.4	3.4	2.2	3.4	4.3	5.0	5.3	4.9	4.9	5.9	7.6	5.2	3.7	9
3.1	2.6	3.2	6.1	-1.4	3.0	5.4	8.3	13.4	7.3	9.7	12.0	10.6	12.4	7.9	2.7	7.6	5.8	3.6	8.8	3.7	6.7	9.8	18.2	12.7	12.6	10
1	-4	3	8	8	6	1.3	9	-8	3	1.0	2.1	-2	4	1.3	3.9	2.0	1.1	1.4	1.2	4.4	2.2	5.1	2.6	5.9	12.5	11
11.2	5.4	2.2	2.3	6	1	7.7	5.9	11.8	6.0	9.7	9.0	11.3	9.1	4.8	3.9	6.3	-4	4.8	8.5	-5	7.9	5.4	3.8	8.3	12	
8	3.7	1.6	1.4	-8	2.8	2	-1	-3	3.0	1.5	4.5	-6	-1.6	2.8	3	-3	-16.7	-4	1.0	10.4	3.4	-1.9	2.9	4.6	-3.7	13
4.4	6.1	9	3.3	2.2	5.8	4.0	2.0	4.4	2.7	3.4	8.1	7.2	3.1	4.3	11.6	-1	7.9	5.7	7.2	6.2	7.9	8.1	5.8	8.0	3.1	14
64.4	64.7	59.1	64.7	55.3	65.0	70.0	69.2	84.5	81.8	84.7	92.3	94.1	97.8	87.9	90.3	83.7	70.7	88.5	101.1	102.7	93.3	104.8	112.4	111.7	107.3	15
43.3	45.0	45.4	48.5	48.4	51.6	52.0	56.3	60.3	60.7	63.6	66.4	71.4	76.8	76.8	83.2	73.7	68.8	71.9	75.5	70.7	76.9	76.2	83.7	84.7	85.8	16
36.9	37.8	39.2	40.5	41.7	43.4	45.1	46.3	49.7	51.4	53.9	56.4	59.0	60.7	63.4	63.3	63.1	63.0	63.9	65.3	67.9	65.5	67.6	70.9	75.1	75.9	17
3.0	3.1	2.1	2.1	2.5	2.3	1.6	1.9	2.3	1.8	1.9	2.0	1.9	1.1	8	6	1.3	2.3	2.5	2.7	1.7	2.2	2.1	3.4	3.4	2.5	18
3.4	4.0	4.1	5.9	4.2	5.9	5.2	8.1	8.3	7.6	7.7	8.0	10.6	15.0	12.7	19.2	9.2	3.6	5.5	7.5	1.1	9.2	6.5	9.4	6.2	7.4	19
21.1	19.7	13.7	16.2	6.9	13.4	18.0	13.0	24.1	21.1	21.1	25.9	22.7	21.0	11.1	7.1	10.1	1.8	16.5	25.6	32.0	16.4	28.6	28.7	27.0	21.5	20
4.8	6.2	8	6.9	-4	3.1	5.0	-2.7	-3.2	3.0	6.2	9	3.1	6.2	-3.0	1.5	-1.5	-8.8	5.2	7.6	13.7	8.4	13.5	4.5	8.0	1.8	21
7	-2	-3.9	2	-8.2	1.6	-6	-1.8	-3.9	-1	-1.3	-7	-1.1	3.8	1.1	-8	-4.2	-1.4	2.9	-5.9	7.0	3.5	-1.3	-4.3	5.9	-1.1	22
2.7	2.9	4.5	5.4	4.3	1.7	2.8	3.8	4.2	6.1	3.5	1.7	1.9	2.4	-3.4	-3.6	7.8	0	3.8	5.0	-1.8	-3					

Input-Output Structure of the U.S. Economy: 1963

The results of the 1963 input-output study by OBE are published in this report. The outstanding feature of this second full-scale study by OBE of U.S. interindustry relationships is the greatly expanded industrial detail in which the data have been prepared—almost 370 industries as compared with 86 industries for the 1958 table. Because of space limitations and to provide comparable data, the 1963 industry categories in this article have been aggregated to the categories provided for 1958. Instructions for obtaining the full detail for 1963 appear on this page.

THE results of the Office of Business Economics' study of input-output relationships for 1963 are presented in this article. This study was conducted as part of OBE's continuing program for the development of input-output tables integrated with the national economic accounts.

The 1963 data were developed as part of the second full-scale input-output study by OBE, the first having covered the year 1958.¹ This article shows the 1963 estimates in the industry classification used for the 1958 table. However, the underlying detail has been greatly expanded. For 1963, estimates were prepared for about 370 separate industries, more than four times as many as in the 1958 study. The expansion in industry detail was strongly urged by a broad cross section

1. The 1958 table was updated to 1961 in *Input-Output Transactions: 1961*, Staff Working Paper in Economics and Statistics, No. 16, OBE, U.S. Department of Commerce, 1968. The following articles on the 1958 input-output study have appeared in the *SURVEY OF CURRENT BUSINESS*: Morris R. Goldman, Martin L. Marimont, and Beatrice N. Vaccara, *The Interindustry Structure of the United States*, November 1964; Norman Frumkin, *Construction Activity in the 1958 Input-Output Study*, May 1965; *The Transactions Table of the 1958 Input-Output Study and Revised Direct and Total Requirements Data*, September 1965; Nancy W. Simon, *Personal Consumption Expenditures in the 1958 Input-Output Study*, October 1965; *Additional Industry Detail for the 1958 Input-Output Study*, April 1966.

of users who were interested in pinpointing the industrial markets and repercussions of changes in these markets to a greater degree than was possible with the 1958 data.

A list showing the industry classifications used in the more detailed table appears on pages 26-29. The input-output data for these industries are shown in *Input-Output Structure of the U.S. Economy: 1963*; Volume 1, *Transactions Data for Detailed Industries*; Volume 2, *Direct Requirements for Detailed Industries*; and Volume 3, *Total Requirements for Detailed Industries*. These volumes may be purchased from the U.S. Government Printing Office, Washington, D.C. 20402.

With the completion of the 1963 input-output study, information on the technical structure of the Nation's industries is now available for 1963 as well as for 1947 and 1958. The 1947 table was originally prepared by the Bureau of Labor Statistics of the U.S. Department of Labor and was subsequently made consistent with the OBE

tables. The adjusted 1947 table may be obtained from OBE. The availability of comparable tables for a substantial span of time will greatly facilitate the investigation of changes in the technical structure of the U.S. economy.

Input-output and the national income and product account

The input-output tables are prepared as an integral part of the U.S. national economic accounts. The three charts on pages 17-19 show how the input-output account is related to the basic national income and product account.

The national income and product account is presented in chart 10. The output of the Nation is shown both in terms of final product flows and in terms of the income types generated in its production. The final product flows appear in the right-hand column of the chart. They consist of sales to consumers (personal consumption expenditures), sales to business on capital account and the change in business inventories (gross private domestic in-

Acknowledgments

A project of this magnitude requires the efforts of many individuals and organizations. The input-output tables were prepared under the supervision of Martin L. Marimont, Chief of the National Economics Division of the Office of Business Economics. Staff members of that Division who made important contributions were, in alphabetical order, E. Louise Adams, William A. Allen, Jr., Claiborne M. Ball, Carolyn G. Bernhard, Alberta R. Bonner, Joseph S. Cangialosi, Marjorie S. Crenshaw, M. Paula Cullen, John N. Dickie, William M. Eisenberg, Barbara G. Euell, D. Anne Fisher, Margaret P. Gorman, Jack J. Gottsegen, Marguerite F. Gramza, William Gullickson, Vesta C. Jones, Leo C. Maley, Jr., Sally R. Reed, Elizabeth G. Rhodes, Janet B. Riddle, Eugene P. Roberts, E. Lawrence Salkin, Roy A. Seaton, 2d, Nancy W. Simon, Brenda R. Stanley, Irving Stern, Joanne S. Thompson, Albert J. Walderhaug, and Lucy J. Wayne. Members of OBE's National Income Division also contributed to the study. The Farm Income Branch of the Department of Agriculture's Economic Research Service prepared the estimates for the agricultural industries, and the Division of Mineral Economics of the Bureau of Mines prepared the estimates for the mining industries. The study was financed in part by the Arms Control and Disarmament Agency, Economic Development Administration of the Department of Commerce, Office of Civilian Defense of the Department of Defense, Office of Emergency Preparedness, and the Office of Systems Requirements, Plans and Information of the Office of the Secretary of the Department of Transportation.

vestment), sales to government (government purchases of goods and services), and net sales to foreigners (net exports). The sum of these final product flows equals the gross national product (GNP). This same total can also be derived by summing the income types (referred to in the article as value added) shown in the left-hand column. These consist of employee compensation, proprietors' income, rental income, corporate profits, net interest, business transfer payments, indirect business taxes, current surplus of government enterprises less subsidies, and capital consumption allowances.

Chart 11 displays the same components of GNP as shown in chart 10, but they are rearranged in an input-output format—a matrix or a table containing data arranged in rows and columns. The row labeled “producers,” shows the sales of these producers to the same final markets which appear in the right-hand column of the first chart. The column headed “producers,” enumerates the income types which make up the gross national product—which are now grouped as payments to employees, to owners of business and capital, and to government. The sum of this column, like the sum of the row, is equal to the GNP.

The black box, which represents sales by producers to other producers of the goods and services used in production, is blank in chart 11. These producer-to-producer sales are already included in the value of the final products that add up to the total GNP. Accordingly, they are omitted to avoid duplication in the measurement of national output.

For input-output analysis, however, these sales by producers to producers must be separately measured because this analysis focuses on the way the industries of the Nation interact in producing the gross national product. These sales are revealed in chart 12, which is an extension of chart 11. Again, the sales by producers to the final markets are shown as well as income payments by producers. However, the previously empty black box has been expanded into a large shaded area with many boxes to display separately the industries producing (as well as consuming) raw materials,

semi-finished products, and intermediate services.

These industry-to-industry flows depict the input-output structure of the economy. For example, the manufacturing row shows the sales by manufacturing industries to each of their industrial customers as well as to the final markets; the column for manufacturing shows the industrial sources of the goods and services purchased by manufacturers for use in production, and also the value added by manufacturers.

Because the interindustry account is conceptually and statistically integrated with the national income and product account, the value of total GNP as well as of the flows to each of the final markets (personal consumption, gross private domestic investment, government purchases, and net exports) is the same in the two sets of accounts.² However, the breakdown of the flows differs in the two accounts. In the interindustry ac-

2. The GNP as now published in the national income and product account differs from the GNP as shown in the 1963 input-output table because it has not yet been revised to conform to the input-output calculations. The forthcoming benchmark revisions of the national income and product accounts, which will incorporate these calculations, may in turn result in some modifications of the input-output information presented in this article.

count, the final demand columns are classified by industry. For the national income account, other types of breakdown are shown.

Value added is shown component by component in the national income and product account. In the input-output table presented in this article the components are combined into “value added” totals. Although the sum of value added for all industries is identical in the two accounts, the industrial distribution of value added differs from that of the national income and product account. The components of value added and an explanation and reconciliation of the industrial differences will be included in a subsequent article.

Uses of input-output

Input-output analysis has a variety of applications including such diverse uses as evaluating the sales potential of an individual firm and probing the implications of broad economic programs.

The major contribution of input-output analysis is that it permits measurement of the industrial repercussion of changes in demand. The measurement of these repercussions can be illustrated by the following

CHART 10

THE GROSS NATIONAL PRODUCT

National Income and Product Account

- | | |
|---|--|
| 1. Compensation of employees | 10. Personal consumption expenditures |
| 2. Proprietors' income | 11. Gross private domestic investment |
| 3. Rental income of persons | 12. Net export of goods and services |
| 4. Corporate profits and inventory valuation adjustment | 13. Government purchases of goods and services |
| 5. Net interest | |
| 6. Business transfer payments | |
| 7. Indirect business tax and nontax liability | |
| 8. Less: Subsidies less current surplus of government enterprises | |
| 9. Capital consumption allowances | |

GROSS NATIONAL PRODUCT

GROSS NATIONAL PRODUCT

example which deals with an increase in consumer demand for passenger cars. This increase in demand will lead in the first instance to an increase in the output of the automobile industry. However, there will be further impacts. The increase in the output of the automobile industry will result in more steel production, which in turn will require more chemicals, more iron ore, more limestone, and more coal. The automobile industry will also demand 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 reactions; for instance, the production of synthetic fibers and other chemicals will lead to the production of more electricity and containers.

These are only a few of the industrial repercussions resulting from the initial change in consumer demand for automobiles. Input-output analysis traces this intricate chain reaction throughout the entire industrial structure and measures the effects of all the demands, both direct and indirect, on the output of each of the industries.

The industry outputs derived in this way can be used for estimating related industry requirements. For example, with supplementary data, the estimated output of each industry can be translated into requirements for employment or for additional plant and equipment.

Supplemented by information on the geographic distribution of industries, input-output analysis can also shed light on the regional implications of changes in the Nation's GNP.

Input-output is also useful in cost/price analysis. The input-output relationships shown in the table provide information on the cost/price structure of each industry and permit the measurement of the direct and indirect impact on all industries of changes in the prices occurring in any given industry.

Recognizing input-output's unique ability to account completely for the complex interaction among industries, many businesses have been guided in their decision-making by this type of analysis. For example, input-output has been used to evaluate market prospects for established products, to identify potential markets for new products, to spot prospective shortages in supplies, to add new dimensions and greater depth to the analysis of the economic

CHART 11

THE GROSS NATIONAL PRODUCT In Input-Output Format

	PRODUCERS	PERSONS	INVESTORS	FOREIGNERS	GOVERNMENT	
PRODUCERS		Personal consumption expenditures item 10	Gross private domestic investment item 11	Net exports of goods and services item 12	Government purchases of goods and services item 13	Gross national product
EMPLOYEES	Employee compensation item 1					
OWNERS OF BUSINESS AND CAPITAL	Profit-type income and capital consumption allowances items 2, 3, 4, 5, 6, 9					
GOVERNMENT	Indirect business taxes and current surplus of govt. enterprises, etc. items 7 & 8					
	Gross national product					

environment in which the firms can expect to operate, and to evaluate investment prospects in various industries.

Input-output has also been employed in the decision-making processes of Government agencies at every level. A notable Federal application has been in the study of the long-term growth of the economy and its implications for manpower requirements. Input-output has also been used to calculate the impact of U.S. exports and imports on employment in the various industries and

regions of the Nation. A number of State and local governments have sponsored the construction of input-output tables for use in evaluating the effects of different paths of economic development. Others have used input-output to study the industrial impact of alternative tax programs. In one State, input-output is the central element in a large scale system for forecasting the demographic and economic variables, as an aid in planning land use, expenditure and revenue programs, industrial

development, and so on.

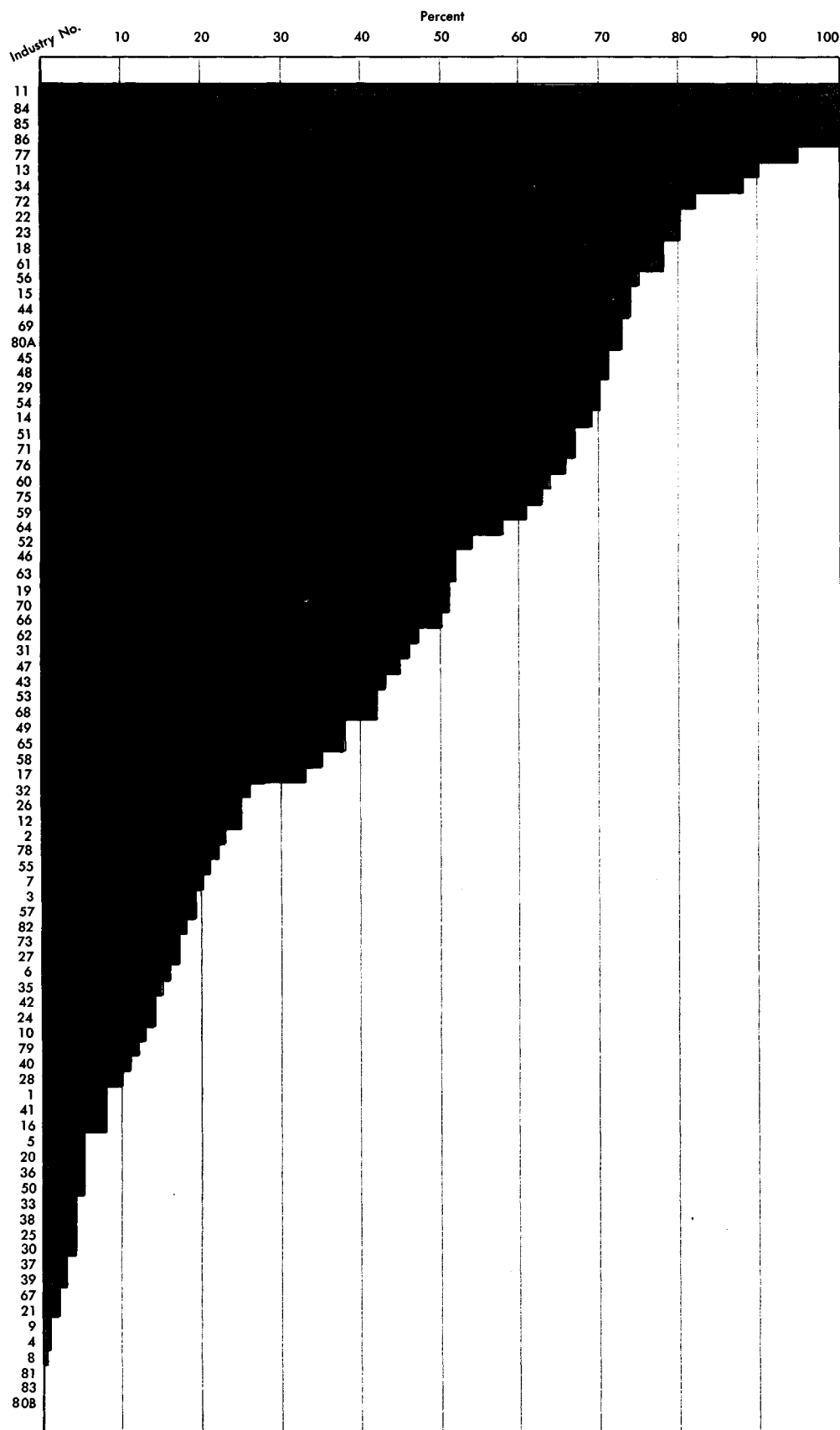
Many regions throughout the Nation have been increasingly concerned about the adequacy of water resources. Input-output is being used as part of a total system to measure the industrial requirements for water. It is particularly helpful in identifying those activities that generate important demands for water not only as direct users but because their suppliers of materials, power, and other inputs also require water.

CHART 12

INPUT-OUTPUT FLOW TABLE

		PRODUCERS								FINAL MARKETS			
		Agri- culture	Mining	Construc- tion	Manufac- turing	Trade	Transpor- tation	Services	Other	Persons	Investors	Foreign- ers	Govern- ment
PRODUCERS	Agriculture												
	Mining												
	Construction												
	Manufacturing												
	Trade												
	Transportation												
	Services												
	Other												
VALUE ADDED	Employees	Employee compensation								GROSS NATIONAL PRODUCT			
	Owners of Busi- ness and Capital	Profit-type income and capital consumption allowances											
	Government	Indirect business taxes and current surplus of govt. enterprises, etc.											

Producing Industries Ranked by Percent of Output Sold Directly to Final Demand, 1963



The use of statistical information in economic analysis generally requires reliance on quantitative relationships among economic variables. In the case of input-output, the most important of these relationships is the proportionality between total output of an industry and its input requirements. The use of proportional relationships is explained on pages 23-24 in connection with the discussion of tables 2 and 3.

Many of the users of input-output make the simplifying assumption that the proportions developed in the most recent table are applicable to other years and over a considerable range of output levels. While there are theoretical limitations to this assumption, it has generally yielded satisfactory results. However, where significant changes in the proportions do occur, they should be introduced. Information on the extent of the changes that have occurred—as shown by the input-output tables for 1947, 1958, and 1963—will be discussed in forthcoming OBE studies.

Description of the tables

The results of the 1963 input-output study are presented in three basic tables—the transactions or flow table, the direct requirements table, and the total requirements table. The discussion which follows provides a description of these tables and highlights some of the important interindustry relationships for 1963.³

The transactions (or flow) table (table 1). Table 1 shows the dollar value of the transactions among the various industries. Each row displays the distribution to each of the industries and final users of the output of goods and services of the industry. The columns show the value of each industry's consumption (input) of raw materials, semi-finished products and services, and its value added.

One interesting aspect of the sales pattern that is shown by table 1 is the wide variation in the proportion of output sold directly to the final markets by the various industries.

3. In the use of the information presented in these tables, it is important to keep in mind the definitions and conventions adopted for the 1963 input-output study. The most important of these are described briefly in the final section of this article.

Table B.—Sales of Specified Industries to Each Category of Final Demand, in

(Millions of dollars)

Line	Producing industry	Personal consumption expenditures				Gross private fixed capital formation				Net inventory change			
		Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices
1	Livestock and livestock products.....	1,762	77	503	2,342	0	0	0	0	374	(*)	(*)	374
2	Other agricultural products.....	2,868	565	2,853	6,286	0	0	0	0	584	46	34	664
3	Forestry and fishery products.....	420	51	206	677	0	0	0	0	44	0	0	44
5	Iron and ferroalloy ores mining.....	0	0	0	0	0	0	0	0	-55	0	0	-55
6	Nonferrous metal ores mining.....	0	0	0	0	0	0	0	0	-3	0	0	-3
7	Coal mining.....	165	79	135	378	0	0	0	0	(*)	(*)	(*)	(*)
8	Crude petroleum and natural gas.....	0	0	0	0	0	0	0	0	16	1	0	17
9	Stone and clay mining and quarrying.....	15	1	0	16	0	0	0	0	1	0	0	1
10	Chemical and fertilizer mineral mining.....	2	1	(*)	3	0	0	0	0	-1	(*)	(*)	-1
13	Ordinance and accessories.....	181	2	147	330	0	0	0	0	-26	(*)	0	-26
14	Food and kindred products.....	49,921	1,124	25,671	76,715	0	0	0	0	583	13	39	635
15	Tobacco manufactures.....	4,943	43	2,500	7,486	0	0	0	0	23	(*)	3	26
16	Broad and narrow fabrics, yarn and thread mills.....	630	9	722	1,361	0	0	0	0	33	2	1	35
17	Miscellaneous textile goods and floor coverings.....	1,011	29	825	1,864	63	1	8	72	83	1	4	88
18	Apparel.....	13,697	107	8,000	21,804	0	0	0	0	67	2	15	83
19	Miscellaneous fabricated textile products.....	1,482	23	1,076	2,582	0	0	0	0	40	1	3	43
20	Lumber and wood products, except containers.....	230	13	106	349	5	(*)	1	6	63	6	5	74
21	Wooden containers.....	0	0	0	0	0	0	0	0	1	(*)	(*)	1
22	Household furniture.....	3,025	98	2,008	5,130	124	4	6	134	73	2	3	78
23	Other furniture and fixtures.....	133	17	134	283	1,127	53	290	1,470	14	1	1	16
24	Paper and allied products, except containers.....	1,241	36	651	1,929	0	0	0	0	90	4	6	99
25	Paperboard containers and boxes.....	74	2	41	116	0	0	0	0	33	1	1	34
26	Printing and publishing.....	3,160	55	1,439	4,653	0	0	0	0	109	1	2	112
27	Chemicals and selected chemical products.....	394	34	238	666	0	0	0	0	88	4	5	97
28	Plastics and synthetic materials.....	12	(*)	4	17	0	0	0	0	25	(*)	1	27
29	Drugs, cleaning and toilet preparations.....	5,428	198	4,046	9,672	0	0	0	0	160	4	16	181
30	Paints and allied products.....	23	1	19	43	0	0	0	0	39	1	6	46
31	Petroleum refining and related industries.....	8,232	722	8,239	17,193	0	0	0	0	177	13	33	223
32	Rubber and miscellaneous plastics products.....	1,863	50	1,138	3,051	18	(*)	9	28	105	3	11	120
33	Leather tanning and industrial leather products.....	0	0	0	0	0	0	0	0	-8	(*)	(*)	-8
34	Footwear and other leather products.....	3,032	39	2,037	5,108	0	0	0	0	-48	(*)	(*)	-47
35	Glass and glass products.....	238	7	161	407	0	0	0	0	68	2	6	76
36	Stone and clay products.....	217	13	142	370	0	0	0	0	71	7	9	87
37	Primary iron and steel manufacturing.....	10	1	5	15	0	0	0	0	102	3	3	108
38	Primary nonferrous metal manufacturing.....	12	(*)	6	18	22	1	1	24	122	1	2	125
39	Metal containers.....	0	0	0	0	9	(*)	(*)	9	28	(*)	(*)	28
40	Heating, plumbing and structural metal products.....	88	3	19	111	536	7	25	568	86	1	4	91
41	Stampings, screw machine products and bolts.....	266	6	197	469	0	0	0	0	56	1	2	59
42	Other fabricated metal products.....	580	15	365	959	242	5	52	299	93	2	6	101
43	Engines and turbines.....	125	3	20	147	388	6	27	421	27	(*)	1	29
44	Farm machinery and equipment.....	10	(*)	4	15	1,902	59	678	2,639	46	1	2	49
45	Construction, mining and oil field machinery.....	0	0	0	0	1,760	51	204	2,015	52	2	5	58
46	Materials handling machinery and equipment.....	0	0	0	0	665	26	53	744	12	(*)	(*)	12
47	Metalworking machinery and equipment.....	77	1	20	98	1,670	10	88	1,768	56	(*)	1	56
48	Special industry machinery and equipment.....	21	(*)	11	32	2,025	28	126	2,179	25	(*)	(*)	25
49	General industrial machinery and equipment.....	0	0	0	0	1,386	25	133	1,543	43	(*)	1	44
50	Machine shop products.....	2	(*)	2	4	6	(*)	(*)	7	9	(*)	(*)	9
51	Office, computing and accounting machines.....	88	1	77	166	1,615	11	326	1,952	41	(*)	7	48
52	Service industry machines.....	336	8	163	507	1,112	28	201	1,341	52	1	4	56
53	Electric industrial equipment and apparatus.....	22	(*)	6	27	1,862	33	109	2,004	23	(*)	(*)	23
54	Household appliances.....	2,793	99	1,713	4,604	120	3	18	141	211	5	21	237
55	Electric lighting and wiring equipment.....	422	10	241	673	55	2	4	62	27	1	2	30
56	Radio, television and communication equipment.....	2,089	62	1,015	3,165	1,924	8	85	2,017	151	3	12	166
57	Electronic components and accessories.....	176	1	94	271	96	(*)	5	102	-9	(*)	1	-9
58	Miscellaneous electrical machinery, equipment and supplies.....	368	8	242	618	198	3	54	256	28	1	6	34
59	Motor vehicles and equipment.....	15,381	377	3,448	19,206	5,671	140	1,102	6,913	611	14	23	649
60	Aircraft and parts.....	49	(*)	4	53	446	0	33	490	342	(*)	(*)	342
61	Other transportation equipment.....	980	29	306	1,315	1,465	33	60	1,558	46	1	6	53
62	Scientific and controlling instruments.....	403	4	388	794	673	8	98	779	56	(*)	2	58
63	Optical, ophthalmic and photographic equipment.....	604	5	949	1,557	340	2	280	622	14	(*)	3	17
64	Miscellaneous manufacturing.....	3,327	61	2,620	6,009	497	11	209	717	49	1	7	57
80A	Directly allocated imports.....	6,004	309	3,057	19,381	166	12	59	1,238	21	0	0	21
82	Office supplies.....	0	0	0	0	0	0	0	0	0	0	0	0
83	Scrap, used and secondhand goods.....	-250	0	2,381	2,131	-972	0	513	-459	106	0	0	106

*Less than \$500,000.

1. Includes insurance charges of \$11 million on personal consumption expenditures and \$1 million on gross private fixed capital formation.

NOTE.—Excludes industries where the value of sales in producers' and purchasers' prices are equal because there are no trade margins or transportation costs on these sales. Detail may not add to total due to rounding.

Producers' and Purchasers' Prices, 1963

Gross exports				Federal Government purchases				State and local government purchases				Line
Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	Producers' prices	Transportation costs	Wholesale and retail trade margins	Purchasers' prices	
38	7	7	53	5	(*)	2	7	12	1	(*)	12	1
2,917	344	259	3,520	-92	6	5	-81	88	13	(*)	113	2
46	6	7	58	-172	0	0	-172	2	(*)	(*)	3	3
118	19	0	137	9	1	0	10	0	0	0	0	5
1	(*)	0	1	242	9	0	251	0	0	0	0	6
305	171	10	486	35	20	1	57	14	9	(*)	24	7
12	0	0	12	0	0	0	0	0	0	0	0	8
38	17	(*)	54	3	3	(*)	5	-30	0	0	-30	9
62	19	2	54	(*)	(*)	(*)	(*)	24	7	1	31	10
197	4	9	211	5,300	37	15	5,352	2	(*)	0	2	13
1,648	67	117	1,833	317	7	5	329	488	10	-227	271	14
508	2	12	522	(*)	0	-1	-1	1	(*)	-1	1	15
281	4	17	302	33	(*)	2	35	14	(*)	1	15	16
29	1	3	32	12	(*)	2	14	0	(*)	(*)	(*)	17
147	1	10	159	69	1	5	74	75	1	4	81	18
35	(*)	2	38	69	1	5	75	8	(*)	1	9	19
194	25	13	232	6	(*)	1	7	3	(*)	(*)	4	20
2	(*)	(*)	2	4	(*)	(*)	5	0	0	0	0	21
10	(*)	3	11	17	1	1	18	18	1	1	20	22
19	1	3	23	42	2	6	49	205	8	22	235	23
449	32	23	503	47	2	5	54	45	2	(*)	47	24
23	1	1	25	10	(*)	1	11	59	1	8	68	25
163	3	20	186	117	-3	-5	109	450	9	-32	427	26
1,160	64	88	1,313	1,036	20	27	1,083	206	12	16	234	27
553	18	38	609	42	(*)	(*)	42	(*)	(*)	(*)	(*)	28
335	10	27	372	73	3	6	82	355	13	28	396	29
31	1	6	38	3	(*)	(*)	3	3	(*)	1	4	30
678	36	125	840	711	54	147	912	301	23	63	387	31
276	8	28	311	171	5	21	196	101	3	116	116	32
41	1	1	43	1	(*)	(*)	1	0	0	0	0	33
18	(*)	1	19	4	(*)	(*)	4	1	(*)	(*)	1	34
96	4	13	113	12	1	2	15	33	1	7	41	35
128	8	12	148	23	1	3	26	13	1	3	16	36
493	22	18	533	45	2	2	49	3	(*)	(*)	3	37
491	7	6	503	-11	(*)	-1	-12	(*)	0	(*)	(*)	38
25	1	(*)	26	7	(*)	(*)	7	(*)	0	0	(*)	39
252	6	15	273	58	1	3	62	(*)	(*)	(*)	(*)	40
44	1	3	49	28	1	2	30	11	(*)	1	12	41
269	7	36	302	40	1	6	47	8	(*)	2	10	42
303	6	20	329	179	4	12	194	0	0	0	0	43
285	9	26	320	11	(*)	1	12	15	(*)	1	17	44
936	28	92	1,066	105	4	10	119	33	1	3	38	45
96	4	8	107	70	4	6	79	1	(*)	(*)	2	46
423	3	28	453	86	(*)	5	91	22	(*)	2	24	47
561	9	33	602	17	(*)	1	18	7	(*)	1	8	48
378	8	36	422	236	2	12	251	12	(*)	1	14	49
0	0	0	0	49	2	0	52	43	2	(*)	45	50
317	2	56	375	448	2	27	476	111	1	20	132	51
209	5	35	249	47	1	8	56	73	2	15	90	52
343	6	19	368	423	5	10	437	61	1	3	64	53
132	4	20	156	10	(*)	1	11	14	0	2	16	54
81	2	7	89	13	(*)	1	15	54	1	4	59	55
366	3	19	389	4,686	12	148	4,846	116	1	5	122	56
199	1	14	213	398	2	26	426	5	(*)	(*)	5	57
75	1	15	91	110	1	15	126	13	(*)	4	17	58
1,386	32	52	1,471	663	16	26	704	644	16	25	685	59
857	1	24	882	7,532	7	52	7,591	(*)	0	0	(*)	60
165	4	9	178	1,124	1	2	1,127	30	1	3	34	61
373	4	45	422	405	2	34	441	118	1	18	138	62
177	1	33	191	147	1	29	177	65	(*)	13	78	63
186	2	30	218	8	(*)	1	9	102	2	15	120	64
352	0	0	352	2,649	23	9	2,681	3	(*)	0	3	80A
0	0	0	0	143	3	19	165	243	7	50	300	82
329	43	115	487	-53	0	0	-53	506	0	0	506	83

Some industries, such as footwear and other leather goods (34) and household furniture (22) sold over three-fourths of their total output to final markets and are, therefore, directly affected to a substantial degree, by changes in these markets. On the other hand, other industries such as agricultural services (4) and iron and ferro-alloy ores mining (5) sold virtually all of their output to intermediate consumers. For such industries the connection between production and final markets is remote and can be traced only through the sales of their customers. Of the 85 separate industries examined, 51 sold over half of their output to intermediate users; as many as 38 sold more than three-fourths of their output to such users. The wide range in the percentage of total output sold directly to final demand is shown in chart 13.

Table 1 also shows the diversity of the intermediate distribution patterns of industries. For example, the primary iron and steel manufacturing industry (37) and the metal container industry (39) both sold over 90 percent of their output to other industries. The former sold its output to 64 industries, none accounting for more than 20 percent of steel output. In contrast, the latter sold its output to 30 industries, one of which, food and kindred products (14), absorbed 65 percent of container output.

It is important to bear in mind that the output distributions shown in table 1 refer to 1963 and, therefore, reflect the demands, prices, and product mixture for that year. As these change over time, this output distribution pattern will also change.

Direct requirements table (table 2).

Table 2 relates each of the inputs of an industry to its total output. Each column shows the inputs that the industry named at the top of that column required from each of the industries named at the beginning of the rows to produce a dollar of its output.

Source: U.S. Department of Commerce, Office of Business Economics.

For example, to produce a dollar of output, the chemicals manufacturing industry (27) required 18 cents of its own production, 6 cents from the petroleum refining industry (31), 3 cents from the chemical mining industry (10), etc.

Table 2 shows the heavy interdependence among the industries which is a feature of the U.S. economy. Almost all industries required inputs from at least 30 others. As many as 57 industries required inputs from over 50 industries. The chemicals industry (27) for example, required inputs from 73 industries, only eight of which are producers of basic raw materials.

The data in table 2 permit the tracing of the interconnections among the various industries and final demand in a systematic way. For example, assume that the household furniture industry produces \$1 million of furniture for sale to consumers. By use of column 22 it can be established that the household furniture industry would require slightly under \$18,000 ($\$1,000,000 \times 0.01776$) from itself. Thus, industry 22 would have to produce a minimum of \$1,018,000. Continuing the calculation, this output would require almost \$54,000 ($\$1,018,000 \times 0.05265$) of fabrics from industry 16, a little over \$142,000 ($\$1,018,000 \times 0.13979$) of wood products from industry 20, and so on down the column.

The next calculation is that of the output required by each of the supplying industries to meet the requirement placed on it. For example, industry 22 has so far required \$54,000 of fabrics from industry 16. To meet this requirement, industry 16 requires an output of over \$18,000 ($\$54,000 \times 0.32652$) from itself, and for the resulting \$72,000 of output, almost \$6,000 ($\$72,000 \times 0.08305$) from industry 28.

This chain of calculations of output requirements which spread through the economy can be continued, and the total output required from each industry to produce \$1 million of household furniture for consumers can thus be derived. This is a very laborious and time-consuming procedure unless performed on an electronic computer. However, the total output required from each industry can be easily calculated using table 3 in which

the relationships shown in table 2 have been completely traced and summarized.

Total requirements table (table 3). Each column of table 3 shows the output required both directly and indirectly from the industry named at the beginning of each row for each dollar of deliveries to final demand by the industry named at the head of the column.⁴ The data in the table make it possible to calculate the impact on the various industries of the economy which result from stipulated changes in the final demand.

Although table 3 is more convenient for calculating total requirements, table 2 will sometimes be preferred, because it permits flexibility in the computation and modification of the relationships which are used. Also, table 2 is needed to split the total requirements, as given in table 3, into their direct and indirect components.

Returning to the household furniture example, it is possible to calculate the impacts quite simply, rather than laboriously tracing the impacts from industry to industry. Thus, the column for industry 22 shows that to provide final demand with an additional \$1 million of household furniture, \$1,019,000 ($\$1,000,000 \times 1.01889$) is required in total from industry 22, \$96,000 ($\$1,000,000 \times 0.09601$) from industry 16, almost \$209,000 ($\$1,000,000 \times 0.20882$) from industry 20, and so on.

As a further illustration of the link provided by input-output between final demand and the output of each industry, a series of calculations were performed using table 3. The results of these calculations appear in table A which shows the percentage of output of each industry attributable, directly or indirectly, to each category of final demand in 1963.

As may be seen from this table, the direct impact of a given category of final demand on an industry may be less important than its indirect effect. For example, while only 10 percent of the output of the paper industry (24) was sold to persons, 69 percent of its output was attributable to total con-

sumption by persons. The table also shows that although no investment goods are produced by the paper industry, almost 9 percent of its output was indirectly associated with fixed investment. Further, 9 percent of chemical mining (10) was exported directly, but 22 percent of its output was attributable to total exports.

The data in table A also show that most industries are heavily dependent on consumer expenditures. Of the 82 industries included in this table, 49 derive half or more of their output from consumer purchases. Another 13 derive more than half of their output from fixed investment, and only two derive more than half from Federal Government. The remaining 18 industries depend on more than one final demand category for the bulk of their output.

Supplementary data requirements

Before table 3 (or table 2) can be used to measure the impact of changes in the level and composition of GNP on each of the industries, a bill of goods must be formulated. A bill of goods is a set of final demands classified according to the industry categories of the table, expressed in 1963 prices, and valued at producers' prices. Furthermore, the trade margin on all items of the bill of goods is separately specified as a requirement from the trade industry. Similarly the transportation cost involved in the delivery to final markets of all items in the bill of goods is separately entered as a requirement from the transportation industry.

Some of the supplementary data useful in preparing bills of goods are presented in this article. Table 1 (see page 35) shows the industrial composition of each category of final demand in 1963. These data may be used to distribute by industry the value of each of the categories of final demand, if the value is available in the aggregate only. Table B presents industry sales to each category of final demand in purchasers' prices, and shows the trade margins and transportation costs included in these prices. This table should be used if the final demand to be analyzed is given in purchasers' prices and in the industrial classification of the input-output table. Similar data for the intermediate sales will appear in a future publication. In

4. The mathematical procedures for converting direct requirements to total requirements are described in *Inter-industry Economics*, Hollis B. Chenery and Paul G. Clark, John Wiley & Sons, 1959; *Input-Output and National Accounts*, Richard Stone, The Organization for European Economic Cooperation, 1961; and other similar texts.

addition, OBE will make available, upon request, data which can be used to translate estimates of personal consumption expenditures for each of the 12 major categories into the classification of the input-output table.

The price information required for input-output analysis is essentially the same that is used to convert current dollar GNP—by final demand category and by industry of origin—into constant dollar GNP. OBE plans to make this information available to users of input-output tables in as much detail as possible. The price information used to deflate GNP is derived largely from the Consumer Price Index and the Wholesale Price Index of the U.S. Department of Labor. This information can be used in input-output analysis to supplement the price data obtained from the GNP accounts.

Definitions and Conventions of the 1963 Input-Output Tables ⁵

Trade. The input-output tables do not trace actual flows to and from the trade industry. If trade were shown as buying and reselling, the detailed connections would be between trade and the producing industries, while the consuming industries and final users would make most of their purchases from a single source—trade. To show the links between producing and consuming industries or final markets, commodities are shown as if moving directly from producer to user, bypassing trade. Therefore, the output of trade is measured in terms of total margins—that is, operating expense plus profit.

Valuation of transactions. The valuation underlying the tables in this report is based on producers' prices.⁶ Such prices exclude the distribution costs which make up the difference between producers' and purchasers' prices. Under a system of producers' valuations, the individual inputs into a consuming industry are valued at producers' prices while the trade margin and transporta-

tion costs associated with all of these inputs appear as inputs to the consuming industry from the trade industry and transportation industry, respectively.

Classification of industries. For this article, all productive activities of the U.S. economy are grouped into 85 industries. Most of these are combinations of industries as defined in the Standard Industrial Classification (SIC) Manual, 1957 edition. Three are "dummy" industries established to simplify the estimating procedures. A list of the industrial categories and their composition in terms of the SIC is given on pages 26-29.

Secondary products or activities. In most cases, secondary products are treated as if sold by the producing industry to the primary industry and added to the output of the primary industry for distribution to users.⁷

In those industries in which secondary production is large and, at the same time, considerably different from the primary output, the secondary products, and their associated inputs, are subtracted from the producing industries and added to the primary industry.

Imports. Imports used for production (intermediate goods and services) which are substitutable for domestically produced goods and services⁸ are treated like secondary products; they are shown as if purchased by the industry producing the substitutable item and added to that industry's output.

Imports used in production which have no domestic counterparts, and imports purchased by final users in substantially the same form in which they were imported, are shown as purchased directly by the consuming industry or final market.

7. The basic unit of classification in the SIC is the establishment. An establishment is classified in an industry based on its principal activity. However, once an establishment is classified in an industry, its entire output, subsidiary as well as principal, is counted as part of the output of the industry. Its principal output, that which determines its industry classification, is called primary output; its other (subsidiary) output is called secondary.

8. Substitutability was determined on a judgmental basis using the following guide: the import should be interchangeable with a domestically produced item without any changes in the technology of the consuming industry or the resultant product.

Gross output and gross input. Gross output of an industry represents the sum of the values of the following elements: (a) the total production by the industry, including both primary and secondary products or services; (b) the producers' value of the secondary products or services of other industries which are primary to the given industry; and (c) the domestic port value of substitutable imports, which are distributed as part of the output of the given industry.

Gross input of an industry is equal to the sum of the values of the following elements: (a) total consumption of goods and services required for the industry's total production; (b) value added by the industry; (c) the producers' value of the secondary products or services of other industries which are primary to the given industry; and (d) the domestic port value of substitutable imports.⁹

Gross output, the row total, equals gross input, the column total.

Inventories. The inventory change shown for each industry represents the change in inventories of the industry's products regardless of which industry actually owns or holds the inventories. (This is different from the customary industry inventory figures which represent inventories held by each industry.) Inventories are so classified in the input-output table in order to provide the balance between the output of each industry and the total consumption of its products. Current production includes products which end up in inventories and are therefore not reflected in consumption. On the other hand, consumption may come from inventories of the producer, of the consumer, or of trade companies as well as from current output. To the extent it comes from inventories, it is not included in current production. Therefore, adding inventory increases of products of the industry to, and subtracting depletions from, the consumption of that industry's products achieves the balance with gross output of the industry.

9. Thus, secondary products and substitutable imports are added to both the inputs and outputs.

5. This section of the report is discussed much more fully in a document which is available upon request to the OBE.

6. Producers' prices have been defined to include Federal and State and local excise taxes collected and paid by the producer.

Industry Classification of the 1963 Input-Output Tables

The titles in bold face represent the groupings of industries used for the summary version of the 1963 tables and were also used in the 1958 and 1961 input-output tables prepared by the Office of Business Economics.

Industry number and title	Related SIC codes (1957 edition)
AGRICULTURE, FORESTRY AND FISHERIES	
1 Livestock and livestock products	
1. 01 Dairy farm products.....	0132, pt. 014, pt. 02.
1. 02 Poultry and eggs.....	0133, pt. 014, pt. 02.
1. 03 Meat animals and miscellaneous livestock products.	0139, pt. 014, 0193, pt. 0729, pt. 02.
2 Other agricultural products	
2. 01 Cotton.....	0112, pt. 014, pt. 02.
2. 02 Food feed grains and grass seeds.....	0113, pt. 0119, pt. 014, pt. 02.
2. 03 Tobacco.....	pt. 0119, pt. 014, pt. 02.
2. 04 Fruits and tree nuts.....	0122, pt. 014, pt. 02.
2. 05 Vegetables, sugar and miscellaneous crops.	0123, pt. 0119, pt. 014, pt. 02.
2. 06 Oil bearing crops.....	pt. 0119, pt. 014, pt. 02.
2. 07 Forest, greenhouse and nursery products.	0192, pt. 014, pt. 02.
3 Forestry and fishery products	
3. 00 Forestry and fishery products.....	074, 081, 082, 084, 086, 091.
4 Agricultural, forestry and fishery services	
4. 00 Agricultural, forestry and fishery services.	071, 0723, 073, pt. 0729, 085, 098.
MINING	
5 Iron and ferroalloy ores mining	
5. 00 Iron and ferroalloy ores mining.....	1011, 106.
6 Nonferrous metal ores mining	
6. 01 Copper ore mining.....	102.
6. 02 Nonferrous metal ores mining, except copper.	103, 104, 105, 108, 109.
7 Coal mining	
7. 00 Coal mining.....	11, 12.
8 Crude petroleum and natural gas	
8. 00 Crude petroleum and natural gas.....	1311, 1321.
9 Stone and clay mining and quarrying	
9. 00 Stone and clay mining and quarrying	141, 142, 144, 145, 148, 149.
10 Chemicals and fertilizer mineral mining	
10. 00 Chemical and fertilizer mineral mining.	147.
CONSTRUCTION	
11 New construction	
11. 01 New construction, residential buildings (nonfarm).	pt. 15, pt. 16, pt. 17, pt. 6561.
11. 02 New construction, nonresidential buildings.	pt. 15, pt. 17.
11. 03 New construction, public utilities.....	pt. 15, pt. 16, pt. 17.
11. 04 New construction, highways.....	pt. 16, pt. 17.
11. 05 New construction, all other.....	pt. 15, pt. 16, pt. 17, 138.
12 Maintenance and repair construction	
12. 01 Maintenance and repair construction, residential buildings (nonfarm).	pt. 15, pt. 17.

Industry Classification of the 1963 Input-Output Tables

Industry number and title	Related SIC codes (1957 edition)
12. 02 Maintenance and repair construction, all other.	pt. 15, pt. 16, pt. 17.
MANUFACTURING	
13 Ordnance and accessories	
13. 01 Complete guided missiles.....	1925.
13. 02 Ammunition, except for small arms, n.e.c.	1929.
13. 03 Tanks and tank components.....	1931.
13. 04 Sighting and fire control equipment.....	1941.
13. 05 Small arms.....	1951.
13. 06 Small arms ammunition.....	1961.
13. 07 Other ordnance and accessories.....	1911, 1999.
14 Food and kindred products	
14. 01 Meat products.....	201.
14. 02 Creamery butter.....	2021.
14. 03 Cheese, natural and processed.....	2022.
14. 04 Condensed and evaporated milk.....	2023.
14. 05 Ice cream and frozen desserts.....	2024.
14. 06 Fluid milk.....	2026.
14. 07 Canned and cured sea foods.....	2031.
14. 08 Canned specialties.....	2032.
14. 09 Canned fruits and vegetables.....	2033.
14. 10 Dehydrated food products.....	2034.
14. 11 Pickles, sauces and salad dressings.....	2035.
14. 12 Fresh or frozen packaged fish.....	2036.
14. 13 Frozen fruits and vegetables.....	2037.
14. 14 Flour and cereal preparations.....	2041, 2043, 2045.
14. 15 Prepared feeds for animals and fowls.	2042.
14. 16 Rice milling.....	2044.
14. 17 Wet corn milling.....	2046.
14. 18 Bakery products.....	205.
14. 19 Sugar.....	206.
14. 20 Confectionery and related products.....	207.
14. 21 Alcoholic beverages.....	2082-5.
14. 22 Bottled and canned soft drinks.....	2086.
14. 23 Flavoring extracts and sirups, n.e.c.	2087.
14. 24 Cottonseed oil mills.....	2091.
14. 25 Soybean oil mills.....	2092.
14. 26 Vegetable oil mills, n.e.c.....	2093.
14. 27 Animal and marine fats and oils.....	2094.
14. 28 Roasted coffee.....	2095.
14. 29 Shortening and cooking oils.....	2096.
14. 30 Manufactured ice.....	2097.
14. 31 Macaroni and spaghetti.....	2098.
14. 32 Food preparations, n.e.c.....	2099.
15 Tobacco manufactures	
15. 01 Cigarettes, cigars, etc.....	2111, 2121, 2131.
15. 02 Tobacco stemming and redrying.....	2141.
16 Broad and narrow fabrics, yarn and thread mills	
16. 01 Broadwoven fabric mills and fabric finishing plants.	2211, 2221, 2231, 2261, 2262.
16. 02 Narrow fabric mills.....	2241.
16. 03 Yarn mills and finishing of textiles, n.e.c.	2269, 2281-3.
16. 04 Thread mills.....	2284.
17 Miscellaneous textile goods and floor coverings	
17. 01 Floor coverings.....	227.
17. 02 Felt goods, n.e.c.....	2291.
17. 03 Lace goods.....	2292.
17. 04 Paddings and upholstery fillings.....	2293.
17. 05 Processed textile waste.....	2294.
17. 06 Coated fabrics, not rubberized.....	2295.
17. 07 Tire cord and fabric.....	2296.
17. 08 Scouring and combing plants.....	2297.
17. 09 Cordage and twine.....	2298.
17. 10 Textile goods, n.e.c.....	2299.
18 Apparel	
18. 01 Hosiery.....	2251, 2252.
18. 02 Knit apparel mills.....	2253, 2254, 2259.
18. 03 Knit fabric mills.....	2256.
18. 04 Apparel made from purchased materials.	23 (excluding 239), 3992.
19 Miscellaneous fabricated textile products	
19. 01 Curtains and draperies.....	2391.

Industry Classification of the 1963 Input-Output Tables

Industry number and title	Related SIC codes (1957 edition)
19. 02 Housefurnishings, n.e.c.-----	2392.
19. 03 Fabricated textile products, n.e.c.-----	2393-9.
20 Lumber and wood products, except containers	
20. 01 Logging camps and logging contractors.	2411.
20. 02 Sawmills and planing mills, general	2421.
20. 03 Hardwood dimensions and flooring	2426.
20. 04 Special product sawmills, n.e.c.	2429.
20. 05 Millwork	2431.
20. 06 Veneer and plywood	2432.
20. 07 Prefabricated wood structures	2433.
20. 08 Wood preserving	2491.
20. 09 Wood products, n.e.c.	2499.
21 Wooden containers	
21. 00 Wooden containers	244.
22 Household furniture	
22. 01 Wood household furniture	2511, 2519.
22. 02 Upholstered household furniture	2512.
22. 03 Metal household furniture	2514.
22. 04 Mattresses and bedsprings	2515.
23 Other furniture and fixtures	
23. 01 Wood office furniture	2521.
23. 02 Metal office furniture	2522.
23. 03 Public building furniture	2531.
23. 04 Wood partitions and fixtures	2541.
23. 05 Metal partitions and fixtures	2542.
23. 06 Venetian blinds and shades	2591.
23. 07 Furniture and fixtures, n.e.c.	2599.
24 Paper and allied products except containers and boxes	
24. 01 Pulp mills	2611.
24. 02 Paper mills, except building paper	2621.
24. 03 Paperboard mills	2631.
24. 04 Envelopes	2642.
24. 05 Sanitary paper products	2647.
24. 06 Wallpaper and building paper and board mills.	2644, 2661.
24. 07 Converted paper, products, n.e.c., except containers and boxes.	2641, 2643, 2645, 2646, 2649.
25 Paperboard containers and boxes	
25. 00 Paperboard containers and boxes	265.
26 Printing and publishing	
26. 01 Newspapers	2711.
26. 02 Periodicals	2721.
26. 03 Book printing and publishing	273.
26. 04 Miscellaneous publishing	2741.
26. 05 Commercial printing	2751, 2752.
26. 06 Manifold business forms, blankbooks and binders.	2761, 2782.
26. 07 Greeting card publishing	2771.
26. 08 Miscellaneous printing services	2753, 2789, 279.
27 Chemicals and selected chemical products	
27. 01 Industrial inorganic and organic chemicals.	281 excluding 28195.
27. 02 Fertilizers	2871, 2872.
27. 03 Agricultural chemicals, n.e.c.	2879.
27. 04 Miscellaneous chemical products	2861, 289.
28 Plastics and synthetic materials	
28. 01 Plastics materials and resins	2821.
28. 02 Synthetic rubber	2822.
28. 03 Cellulosic man-made fibers	2823.
28. 04 Organic fibers, noncellulosic	2824.
29 Drugs, cleaning and toilet preparations	
29. 01 Drugs	283.
29. 02 Cleaning preparations	284 excluding 2844.
29. 03 Toilet preparations	2844.
30 Paints and allied products	
30. 00 Paints and allied products	2851.

Industry Classification of the 1963 Input-Output Tables

Industry number and title	Related SIC codes (1957 edition)
31 Petroleum refining and related industries	
31. 01 Petroleum refining and related products	2911, 299.
31. 02 Paving mixtures and blocks	2951.
31. 03 Asphalt felts and coatings	2952.
32 Rubber and miscellaneous plastics products	
32. 01 Tires and inner tubes	3011.
32. 02 Rubber footwear	3021.
32. 03 Reclaimed rubber and miscellaneous rubber products, n.e.c.	3031, 3069.
32. 04 Miscellaneous plastics products	3079.
33 Leather tanning and industrial leather products	
33. 00 Leather tanning and industrial leather products.	3111, 3121.
34 Footwear and other leather products	
34. 01 Footwear cut stock	3131.
34. 02 Footwear except rubber	314.
34. 03 Other leather products	3151, 3161, 317, 3199.
35 Glass and glass products	
35. 01 Glass and glass products except containers.	3211, 3229, 3231.
35. 02 Glass containers	3221.
36 Stone and clay products	
36. 01 Cement, hydraulic	3241.
36. 02 Brick and structural clay tile	3251.
36. 03 Ceramic wall and floor tile	3253.
36. 04 Clay refractories	3255.
36. 05 Structural clay products, n.e.c.	3259.
36. 06 Vitreous plumbing fixtures	3261.
36. 07 Food utensils, pottery	3262, 3263.
36. 08 Porcelain electrical supplies	3264.
36. 09 Pottery products, n.e.c.	3269.
36. 10 Concrete block and brick	3271.
36. 11 Concrete products, n.e.c.	3272.
36. 12 Ready-mixed concrete	3273.
36. 13 Lime	3274.
36. 14 Gypsum products	3275.
36. 15 Cut stone and stone products	3281.
36. 16 Abrasive products	3291.
36. 17 Asbestos products	3292.
36. 18 Gaskets and insulations	3293.
36. 19 Minerals, ground or treated	3295.
36. 20 Mineral wool	3296.
36. 21 Nonclay refractories	3297.
36. 22 Nonmetallic mineral products, n.e.c.	3299.
37 Primary iron and steel manufacturing	
37. 01 Blast furnaces and basic steel products.	331.
37. 02 Iron and steel foundries	332.
37. 03 Iron and steel forgings	3391.
37. 04 Primary metal products, n.e.c.	3399.
38 Primary nonferrous metals manufacturing	
38. 01 Primary copper	3331.
38. 02 Primary lead	3332.
38. 03 Primary zinc	3333.
38. 04 Primary aluminum	3334, 28195.
38. 05 Primary nonferrous metals, n.e.c.	3339.
38. 06 Secondary nonferrous metals	3341.
38. 07 Copper rolling and drawing	3351.
38. 08 Aluminum rolling and drawing	3352.
38. 09 Nonferrous rolling and drawing, n.e.c.	3356.
38. 10 Nonferrous wire drawing and insulating.	3357.
38. 11 Aluminum castings	3361.
38. 12 Brass, bronze and copper castings	3362.
38. 13 Nonferrous castings, n.e.c.	3369.
38. 14 Nonferrous forgings	3392.
39 Metal containers	
39. 01 Metal cans	3411.
39. 02 Metal barrels, drums and pails	3491.
40 Heating, plumbing and fabricated structural metal products	
40. 01 Metal sanitary ware	3431.
40. 02 Plumbing fittings and brass goods	3432.

Industry Classification of the 1963 Input-Output Tables

Industry number and title		Related SIC codes (1957 edition)
40. 03	Heating equipment, except electric....	3433.
40. 04	Fabricated structural steel.....	3441.
40. 05	Metal doors, sash and trim.....	3442.
40. 06	Fabricated plate work (boiler shops) ..	3443.
40. 07	Sheet metal work.....	3444.
40. 08	Architectural metal work.....	3446.
40. 09	Miscellaneous metal work.....	3449.
41	Screw machine products, bolts, nuts, etc. and metal stampings	
41. 01	Screw machine products and bolts, nuts, rivets and washers.....	345.
41. 02	Metal stampings.....	3461.
42	Other fabricated metal products	
42. 01	Cutlery.....	3421.
42. 02	Hand and edge tools including saws.....	3423, 3425.
42. 03	Hardware, n.e.c.....	3429.
42. 04	Coating, engraving and allied services.....	3471, 3479.
42. 05	Miscellaneous fabricated wire products.....	3481.
42. 06	Safes and vaults.....	3492.
42. 07	Steel springs.....	3493.
42. 08	Pipe, valves and pipe fittings.....	3494, 3498.
42. 09	Collapsible tubes.....	3496.
42. 10	Metal foil and leaf.....	3497.
42. 11	Fabricated metal products, n.e.c.....	3499.
43	Engines and turbines	
43. 01	Steam engines and turbines.....	3511.
43. 02	Internal combustion engines, n.e.c.....	3519.
44	Farm machinery	
44. 00	Farm machinery.....	3522.
45	Construction, mining, oil field machinery equipment	
45. 01	Construction machinery.....	3531.
45. 02	Mining machinery.....	3532.
45. 03	Oil field machinery.....	3533.
46	Materials handling machinery and equipment	
46. 01	Elevators and moving stairways.....	3534.
46. 02	Conveyors and conveying equipment.....	3535.
46. 03	Hoists, cranes and monorails.....	3536.
46. 04	Industrial trucks and tractors.....	3537.
47	Metalworking machinery and equipment	
47. 01	Machine tools, metal cutting types.....	3541.
47. 02	Machine tools, metal forming types.....	3542.
47. 03	Special dies and tools and machine tool accessories.....	3544, 3545.
47. 04	Metalworking machinery n.e.c.....	3548.
48	Special industry machinery and equipment	
48. 01	Food products machinery.....	3551.
48. 02	Textile machinery.....	3552.
48. 03	Woodworking machinery.....	3553.
48. 04	Paper industries machinery.....	3554.
48. 05	Printing trades machinery.....	3555.
48. 06	Special industry machinery, n.e.c.....	3559.
49	General industrial machinery and equipment	
49. 01	Pumps and compressors.....	3561.
49. 02	Ball and roller bearings.....	3562.
49. 03	Blowers and fans.....	3564.
49. 04	Industrial patterns.....	3565.
49. 05	Power transmission equipment.....	3566.
49. 06	Industrial furnaces and ovens.....	3567.
49. 07	General industrial machinery, n.e.c.....	3569.
50	Machine shop products	
50. 00	Machine shop products.....	359.
51	Office, computing and accounting machines	
51. 01	Computing and related machines.....	3571.

Industry Classification of the 1963 Input-Output Tables

Industry number and title		Related SIC codes (1957 edition)
51. 02	Typewriters.....	3572.
51. 03	Scales and balances.....	3576.
51. 04	Office machines, n.e.c.....	3579.
52	Service industry machines	
52. 01	Automatic merchandising machines.....	3581.
52. 02	Commercial laundry equipment.....	3582.
52. 03	Refrigeration machinery.....	3585.
52. 04	Measuring and dispensing pumps.....	3586.
52. 05	Service industry machines, n.e.c.....	3589.
53	Electric transmission and distribution equipment and electrical industrial apparatus	
53. 01	Electric measuring instruments.....	3611.
53. 02	Transformers.....	3612.
53. 03	Switchgear and switchboard apparatus.....	3613.
53. 04	Motors and generators.....	3621.
53. 05	Industrial controls.....	3622.
53. 06	Welding apparatus.....	3623.
53. 07	Carbon and graphite products.....	3624.
53. 08	Electrical industrial apparatus, n.e.c.....	3629.
54	Household appliances	
54. 01	Household cooking equipment.....	3631.
54. 02	Household refrigerators and freezers.....	3632.
54. 03	Household laundry equipment.....	3633.
54. 04	Electric housewares and fans.....	3634.
54. 05	Household vacuum cleaners.....	3635.
54. 06	Sewing machines.....	3636.
54. 07	Household appliances, n.e.c.....	3639.
55	Electric lighting and wiring equipment	
55. 01	Electric lamps.....	3641.
55. 02	Lighting fixtures.....	3642.
55. 03	Wiring devices.....	3643, 3644.
56	Radio, television and communication equipment.	
56. 01	Radio and television receiving sets.....	3651.
56. 02	Phonograph records.....	3652.
56. 03	Telephone and telegraph apparatus.....	3661.
56. 04	Radio and television communication equipment.....	3662.
57	Electronic components and accessories	
57. 01	Electron tubes.....	3671, 3672, 3673.
57. 02	Semiconductors.....	3674.
57. 03	Electronic components, n.e.c.....	3679.
58	Miscellaneous electrical machinery, equipment and supplies	
58. 01	Storage batteries.....	3691.
58. 02	Primary batteries, wet and dry.....	3692.
58. 03	X-ray apparatus and tubes.....	3693.
58. 04	Engine electrical equipment.....	3694.
58. 05	Electrical equipment, n.e.c.....	3699.
59	Motor vehicles and equipment	
59. 01	Truck and bus bodies.....	3713.
59. 02	Truck trailers.....	3715.
59. 03	Motor vehicles and parts.....	3717.
60	Aircraft and parts	
60. 01	Aircraft.....	3721.
60. 02	Aircraft engines and parts.....	3722.
60. 03	Aircraft propellers and parts.....	3723.
60. 04	Aircraft equipment, n.e.c.....	3729.
61	Other transportation equipment	
61. 01	Shipbuilding and repairing.....	3731.
61. 02	Boatbuilding and repairing.....	3732.
61. 03	Locomotives and parts.....	3741.
61. 04	Railroad and street cars.....	3742.
61. 05	Motorcycles, bicycles and parts.....	3751.
61. 06	Trailer coaches.....	3791.
61. 07	Transportation equipment, n.e.c.....	3799.
62	Professional, scientific and controlling instruments and supplies	
62. 01	Engineering and scientific instruments.....	3811.

Industry Classification of the 1963 Input-Output Tables

Industry number and title	Related SIC codes (1957 edition)
62. 02 Mechanical measuring devices.....	3821.
62. 03 Automatic temperature controls.....	3822.
62. 04 Surgical and medical instruments.....	3841.
62. 05 Surgical appliances and supplies.....	3842.
62. 06 Dental equipment and supplies.....	3843.
62. 07 Watches, clocks and parts.....	387.
63 Optical, ophthalmic and photographic equipment and supplies	
63. 01 Optical instruments and lenses.....	3831.
63. 02 Ophthalmic goods.....	3851.
63. 03 Photographic equipment and supplies.	3861.
64 Miscellaneous manufacturing	
64. 01 Jewelry, including costume, and silverware.	391, 3961.
64. 02 Musical instruments and parts.....	3931.
64. 03 Games, toys, etc.....	3941, 3942, 3943.
64. 04 Sporting and athletic goods, n.e.c.....	3949.
64. 05 Pens, pencils, etc.....	395.
64. 06 Artificial flowers.....	3962.
64. 07 Buttons, needles, pins and fasteners..	3963, 3964.
64. 08 Brooms and brushes.....	3981.
64. 09 Hard surface floor covering.....	3982.
64. 10 Morticians goods.....	3988.
64. 11 Signs and advertising displays.....	3993.
64. 12 Miscellaneous manufactures, n.e.c.....	3983, 3984, 3987, 3995, 3999.
TRANSPORTATION, COMMUNICATION, ELECTRIC, GAS, AND SANITARY SERVICES	
65 Transportation and warehousing	
65. 01 Railroads and related services.....	40, 474.
65. 02 Local, suburban and interurban highway passenger transportation.	41.
65. 03 Motor freight transportation and warehousing.	42, 473.
65. 04 Water transportation.....	44.
65. 05 Air transportation.....	45.
65. 06 Pipe line transportation.....	46.
65. 07 Transportation services.....	47, excluding 473, 474.
66 Communications, except radio and television broadcasting	
66. 00 Communications, except radio and television.	48, excluding 483.
67 Radio and television broadcasting	
67. 00 Radio and television broadcasting...	483.
68 Electric, gas, water and sanitary services	
68. 01 Electric utilities.....	491, pt. 493.
68. 02 Gas utilities.....	492, pt. 493.
68. 03 Water and sanitary services.....	494, 495, 496, 497, pt. 493.
WHOLESALE AND RETAIL TRADE	
69 Wholesale and retail trade	
69. 01 Wholesale trade.....	50 (excluding manufacturers' sales offices).
69. 02 Retail trade.....	52, 53, 54, 55, 56, 57, 58, 59, 7396.
FINANCE, INSURANCE AND REAL ESTATE	
70 Finance and insurance	
70. 01 Banking.....	60.
70. 02 Credit agencies.....	61, 67.
70. 03 Security and commodity brokers.....	62.
70. 04 Insurance carriers.....	63.
70. 05 Insurance agents and brokers.....	64.
71 Real estate and rental	
71. 01 Owner-occupied dwellings.....	
71. 02 Real estate.....	65 (excluding pt. 6561), 66.

Industry Classification of the 1963 Input-Output Tables

Industry number and title	Related SIC codes (1957 edition)
SERVICES	
72 Hotels and lodging places; personal and repair services, except automobile repair	
72. 01 Hotels and lodging places.....	70.
72. 02 Personal and repair services except auto repair and barber and beauty shops.	72 (excluding 723, 724) 76 (excluding 7694 and pt. 7699).
72. 03 Barber and beauty shops.....	723, 724.
73 Business services	
73. 01 Miscellaneous business services.....	73 (excluding 731, 7396), 7694, pt. 7699.
73. 02 Advertising.....	731.
73. 03 Miscellaneous professional services...	81, 89 (excluding 8921).
74 Research and development	
Eliminated as a separate industry in the 1963 study. Research and development performed for sale is distributed to the purchaser by each of the industries performing the research and development.	
75 Automobile repair and services	
75. 00 Automobile repair and services.....	75.
76 Amusements	
76. 01 Motion pictures.....	78.
76. 02 Amusement and services.....	79.
77 Medical, educational services and nonprofit organizations	
77. 01 Doctors and dentists.....	801, 802, 803, 804.
77. 02 Hospitals.....	8061.
77. 03 Other medical and health services.....	0722, 807, 809.
77. 04 Educational services.....	82.
77. 05 Nonprofit organizations.....	84, 86, 8921.
GOVERNMENT ENTERPRISES	
78 Federal Government enterprises	
78. 01 Post Office.....	
78. 02 Federal electric utilities.....	
78. 03 Commodity Credit Corporation.....	
78. 04 Other Federal Government enterprises.	
79 State and local government enterprises	
79. 01 Local government passenger transit..	
79. 02 State and local electric utilities.....	
79. 03 Other state and local government enterprises.	
IMPORTS	
80 Gross imports of goods and services	
80. 01 Directly allocated imports.....	
80. 02 Transferred imports.....	
DUMMY INDUSTRIES	
81 Business travel, entertainment and gifts	
81. 00 Business travel, entertainment and gifts.....	
82 Office supplies	
82. 00 Office supplies.....	
83 Scrap, used and secondhand goods	
83. 00 Scrap, used and secondhand goods...	
SPECIAL INDUSTRIES	
84 Government industry	
84. 00 Government industry.....	
85 Rest of the world industry	
85. 00 Rest of the world industry.....	
86 Household industry	
86. 00 Household industry.....	

Source: U.S. Department of Commerce, Office of Business Economics.

Table 1.—Interindustry

(In millions of dollars at producers' prices)

Industry No.	For the distribution of output of an industry, read the row for that industry. For the composition of inputs to an industry, read the column for that industry.	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
		1	2	3	4	5	6	7	8	9	10	11	12	13
1	Livestock & Livestock Products.....	4,750	1,819	117	192									
2	Other Agricultural Products.....	7,897	769	117	550							323	(*)	
3	Forestry & Fishery Products.....			35										
4	Agricultural, Forestry & Fishery Services.....	445	1,053	74								3	(*)	
5	Iron & Ferroalloy Ores Mining.....					55	1	(*)		(*)	1			
6	Nonferrous Metal Ores Mining.....					25	263	(*)		(*)	(*)			
7	Coal Mining.....	6	1	1		5	1	410	(*)	5	1			1
8	Crude Petroleum & Natural Gas.....								297					
9	Stone and Clay Mining and Quarrying.....	1	85		(*)	5	(*)	1		17	5	478	259	
10	Chemical & Fertilizer Mineral Mining.....		35				6	(*)		1	31			
11	New Construction.....													
12	Maintenance & Repair Construction.....	200	367			1	7	14	379	11	3	17	7	6
13	Ordnance & Accessories.....											5	(*)	161
14	Food & Kindred Products.....	3,554	2	44	34						(*)	26	3	
15	Tobacco Manufactures.....									(*)				
16	Broad & Narrow Fabrics, Yarn & Thread Mills.....		9			(*)	(*)			(*)		31	(*)	
17	Miscellaneous Textile Goods & Floor Coverings.....	9	29	62	41	(*)	(*)	(*)	2	(*)	(*)	124	3	(*)
18	Apparel.....											29	13	4
19	Miscellaneous Fabricated Textile Products.....	17	43	1								7	(*)	
20	Lumber & Wood Products, Except Containers.....	2	2			2	10	17	(*)	(*)	(*)	3,553	723	16
21	Wooden Containers.....		97		14									5
22	Household Furniture.....											342		(*)
23	Other Furniture & Fixtures.....											184	4	2
24	Paper & Allied Products, Except Containers.....	12	1	(*)	(*)	(*)	(*)	1	2	6	2	208	71	3
25	Paperboard Containers & Boxes.....	2	3		86							4	(*)	7
26	Printing & Publishing.....	5	9	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	2	1	1
27	Chemicals & Selected Chemical Products.....	57	1,424	2	1	21	56	38	101	34	20	201	54	16
28	Plastics & Synthetic Materials.....					(*)	(*)	(*)	(*)	(*)	(*)	1	(*)	1
29	Drugs, Cleaning & Toilet Preparations.....	83		(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	2	(*)	1
30	Paints & Allied Products.....			4	(*)	(*)	(*)	(*)	5	(*)	(*)	308	859	(*)
31	Petroleum Refining & Related Industries.....	170	954	34	3	11	7	23	64	52	6	1,119	540	13
32	Rubber & Miscellaneous Plastics Products.....	29	114	1	(*)	7	10	33	16	70	2	487	139	103
33	Leather Tanning & Industrial Leather Products.....											(*)	(*)	(*)
34	Footwear & Other Leather Products.....	7		(*)	3	(*)	(*)	(*)	(*)	(*)	(*)	1	(*)	(*)
35	Glass & Glass Products.....	5										81	93	
36	Stone & Clay Products.....	1	39	(*)	(*)	4	2	3	41	116	(*)	5,813	410	(*)
37	Primary Iron & Steel Manufacturing.....					21	27	39	30	28	14	2,125	317	149
38	Primary Nonferrous Metal Manufacturing.....	1	1			1	(*)	(*)		2	2	1,244	209	193
39	Metal Containers.....	8	13	21										
40	Heating, Plumbing & Structural Metal Products.....					(*)	2		18	2	1	6,159	569	10
41	Stampings, Screw Machine Products & Bolts.....	25										112	19	35
42	Other Fabricated Metal Products.....	21	31	15	132	1	4	12	13	4	1	975	269	35
43	Engines & Turbines.....					8	11	36	16	37	5	26		3
44	Farm Machinery & Equipment.....	5	229									2	1	(*)
45	Construction, Mining & Oil Field Machinery.....					24	30	85	25	48	16	238	71	3
46	Materials Handling Machinery & Equipment.....					(*)	3	1		16	4	257	96	1
47	Metalworking Machinery & Equipment.....					1	1	5				11	(*)	22
48	Special Industry Machinery & Equipment.....													1
49	General Industrial Machinery & Equipment.....			(*)	(*)	(*)	1	2	25	23	2	210	43	20
50	Machine Shop Products.....	3	7	(*)	(*)	(*)	32	11	(*)	8	2	12	1	13
51	Office, Computing & Accounting Machines.....													(*)
52	Service Industry Machines.....											404	116	10
53	Electric Industrial Equipment & Apparatus.....					(*)	1	7	82	7	5	337	56	25
54	Household Appliances.....											184	99	5
55	Electric Lighting & Wiring Equipment.....	1	1	36	(*)	(*)	1	11	(*)	1	1	1,123	183	46
56	Radio, Television & Communication Equipment.....					(*)	(*)		4			79	20	281
57	Electronic Components & Accessories.....					(*)	(*)		15	1	(*)	1	1	106
58	Miscellaneous Electrical Machinery, Equipment & Supplies.....	6	25	2	(*)	(*)		1	1	1	(*)	37	10	18
59	Motor Vehicles & Equipment.....	7	14	(*)	(*)	2	2	8	3	15	1	36	14	1
60	Aircraft & Parts.....													1,868
61	Other Transportation Equipment.....	(*)	4	21	(*)	(*)	2	9		(*)	(*)	4	(*)	17
62	Scientific & Controlling Instruments.....			1		(*)	1		4			208	70	40
63	Optical, Ophthalmic & Photographic Equipment.....											4	(*)	53
64	Miscellaneous Manufacturing.....	2	2	(*)	(*)	(*)	1	(*)	(*)	(*)	(*)	89	77	1
65	Transportation & Warehousing.....	606	308	44	26	126	30	46	281	34	39	2,143	490	28
66	Communications: Except Radio & TV Broadcasting.....	52	83			1	2	4	9	1	3	180	79	52
67	Radio & TV Broadcasting.....													
68	Electric, Gas, Water & Sanitary Services.....	96	204	(*)	1	27	41	65	141	62	36	205	90	26
69	Wholesale & Retail Trade.....	870	843	56	42	21	28	58	145	54	14	5,453	1,702	93
70	Finance & Insurance.....	156	315	3	6	7	25	28	94	29	6	401	161	27
71	Real Estate & Rental.....	289	2,020		41	111	42	73	2,246	45	11	307	134	30
72	Hotels, Personal & Repair Services exc. Auto.....													10
73	Business Services.....	139	836	1	(*)	33	14	28	108	22	6	2,959	281	110
74	Automobile Repair & Services.....	76	161	7	1	1	2	8	42	19	1	235	101	9
75	Amusements.....													
76	Medical, Educational Services & Nonprofit Organizations.....	181	13			1	1	2	5	(*)	2	57	24	8
77	Federal Government Enterprises.....	4	4	(*)	(*)	1	1	2	5		2	18	8	10
78	State & Local Government Enterprises.....	(*)		(*)	(*)	1	1	1	3	2	1	28	10	(*)
80A	Directly Allocated Imports.....	2	214		(*)									
80B	Transferred Imports.....	174	221	428		423	213	2	1,046	108	88	359	154	18
81	Business Travel, Entertainment & Gifts.....	18	32	18	16	3	7	11	67	11	2	17	7	49
82	Office Supplies.....	1		(*)	(*)	(*)	(*)	1	5		(*)	38		10
83	Scrap, Used & Secondhand Goods.....			5		1	5	1		5	1			
84	Government Industry.....													
85	Rest of the World Industry.....													
86	Household Industry.....													
87	Inventory Valuation Adjustment.....													
I.	Intermediate Inputs, Total.....	19,992	12,437	1,153	1,190	954	893	1,097	5,338	901	336	39,629	8,663	3,777
VA.	Value Added.....	6,692	14,830	598	582	475	625	1,540	8,926	1,123	360	25,890	11,132	2,625
T.	Total.....	26,684	27,266	1,751	1,772	1,429	1,519	2,637	12,265	2,024	696	65,519	19,794	6,302
TR.	Transfers ¹	210	261	709	650	555	237	5	1,365	258	116			1,589

¹Less than \$500,000.

1. Entry in each column represents the sum of the value of transferred imports at domestic port value and the value of the secondary output of other industries which has been transferred to the industry named at the head of the column. See text for further discussion.

2. The detailed entries reflect gross exports of goods and services from each producing industry. Imports in total are shown as negative entries in this column on rows 80A and 80B. Therefore, the sum of the column equals the GNP component "net exports of goods and services."

Transactions, 1963

[In millions of dollars at producers' prices]

Food and kindred products	Tobacco manufactures	Bread and narrow fabrics, yarn and thread mills	Miscellaneous textile goods and floor coverings	Apparel	Miscellaneous fabricated textile products	Lumber and wood products, except containers	Wooden containers	Household furniture	Other furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Printing and publishing	Chemicals and selected chemical products	Plastics and synthetic materials	Drugs, cleaning, and toilet preparations	Paints and allied products	Petroleum refining and related industries	Rubber and miscellaneous plastics products	Industry No.
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
16,305 6,093 304	1,125	47 1,328	181 29	115		170 916							17 28		2 8 1				1
39	2	13	1	2	(*)	2	(*)	1	1	76	1	1	83 85 68	24	4	(*)	9	9	2
7 5	(*)	(*)				(*)	(*)			56 12	(*)		33 470	(*)	3 2	5	9,813 79 1	10	10
148	7	29	9	15	4	36	1	5	3	45	12	26	81	24	25	6	349	27	11
12,888	1	32	21	(*)	(*)	1	(*)		(*)	123	(*)	4	(*)	20	322	100	(*)	(*)	12
15 3	1,764	4,287 512	648 250	4,910 58	1,245 315	(*) 14		214 105	2 35	71 31	(*)	4	(*)	2	1	1	(*)	181	15
50 95		33 45	29 94	3,199 281	61 272	1 8	157	7 2	2	10 19	(*)	5	(*)	7	(*)	(*)	3	394	17
9	1	(*)	(*)	(*)	8	3,172	1	568	150	800	(*)	4	15	3	(*)	1	(*)	22	18
88	5	(*)	3	(*)	2	24	13	72	39	1	(*)	2	42	2	2	(*)	4	6	19
(*)		(*)			(*)	19	2	42	2	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	4	20
902	35	53	47	11	23	(*)	(*)	24	3	2,260	(*)	18	(*)	201	74	1	102	(*)	21
1,138	91	69	29	127	28	18	(*)	53	32	392	1,890	2,630	91	90	41	19	61	161	24
450	57	1	3	2	(*)	1	(*)	(*)	(*)	104	136	81	1,806	2	32	(*)	1	2	25
244	2	345	15	14	(*)	94	(*)	7	1	458	81	384	2,983	2,322	966	499	581	383	26
102	78	1,091	557	349	28	16	(*)	1	1	183	39	34	346	100	27	228	(*)	1,790	27
216	6	7	8	10	1	2	(*)	1	1	15	(*)	2	230	22	516	21	66	5	29
(*)	(*)	(*)	(*)	(*)	(*)	51	(*)	91	36	(*)	(*)	(*)	24	65	11	1	20	10	30
210	2	22	8	17	2	47	(*)	6	4	106	(*)	35	43	1,059	111	58	1,622	21	31
254	(*)	1	73	28	102	14	(*)	253	90	184	(*)	12	72	28	104	289	10	445	32
3	(*)	(*)	(*)	16	5	14	(*)	27	40	49	(*)	(*)	(*)	4	(*)	(*)	(*)	13	34
776	1	42	5	(*)	3	54	(*)	92	15	2	(*)	(*)	36	1	163	1	55	24	35
1	(*)	(*)	(*)	(*)	(*)	46	(*)	181	49	2	(*)	(*)	227	(*)	(*)	11	1	74	36
2	(*)	(*)	(*)	(*)	(*)	7	(*)	32	20	13	(*)	(*)	213	3	180	23	50	50	37
1,593	9	(*)	(*)	(*)	(*)	3	(*)	(*)	(*)	(*)	(*)	(*)	156	14	180	148	134	2	38
201	(*)	(*)	(*)	(*)	(*)	1	(*)	5	10	(*)	(*)	(*)	1	(*)	(*)	(*)	4	2	39
216	42	7	1	18	3	171	2	272	82	168	21	24	96	2	81	1	7	66	40
7	(*)	3	(*)	2	(*)	(*)	(*)	1	(*)	5	1	2	(*)	7	1	(*)	4	(*)	41
35	(*)	(*)	(*)	(*)	(*)	33	(*)	(*)	(*)	(*)	(*)	(*)	7	1	(*)	(*)	(*)	2	42
5	(*)	75	11	7	(*)	4	(*)	(*)	(*)	(*)	(*)	(*)	6	1	(*)	(*)	(*)	6	43
4	(*)	1	(*)	1	(*)	4	(*)	(*)	(*)	(*)	(*)	(*)	25	1	(*)	(*)	(*)	14	44
(*)	(*)	(*)	(*)	(*)	(*)	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	1	45
1	(*)	(*)	1	(*)	(*)	(*)	(*)	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	6	46
7	(*)	(*)	(*)	(*)	(*)	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	7	47
15	(*)	(*)	(*)	(*)	(*)	3	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	11	48
7	(*)	(*)	(*)	(*)	(*)	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	1	49
2	(*)	(*)	(*)	(*)	(*)	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	6	50
7	(*)	(*)	(*)	(*)	(*)	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	6	51
2	(*)	(*)	(*)	(*)	(*)	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	6	52
8	(*)	(*)	(*)	(*)	(*)	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	6	53
2,461	31	214	79	354	17	17	1	10	3	5	(*)	5	135	1	(*)	62	1	9	54
191	3	26	9	77	11	29	1	19	12	38	21	190	63	23	40	13	26	33	55
495	8	131	23	64	12	83	4	23	13	274	29	85	589	71	36	11	390	106	56
2,597	65	447	206	641	141	268	12	174	70	424	100	368	493	177	304	121	398	299	57
382	15	49	14	89	17	82	2	35	23	73	16	119	96	34	57	16	214	49	68
369	13	62	22	215	26	81	4	86	29	79	47	882	100	43	86	21	418	76	69
176	11	3	2	3	3	(*)	(*)	2	1	17	9	28	10	3	34	9	9	11	70
2,200	312	122	37	236	28	138	4	83	33	203	82	503	361	163	1,287	67	487	231	71
182	1	5	2	12	2	29	1	5	3	9	5	34	15	4	6	2	8	8	72
34	1	3	1	9	1	4	(*)	2	1	5	3	28	7	3	5	2	3	5	73
51	13	10	4	46	5	6	(*)	5	3	11	4	180	30	3	18	4	14	10	74
26	(*)	2	(*)	1	(*)	2	(*)	(*)	(*)	5	(*)	5	8	2	1	(*)	2	2	75
1,258	108	47	16	1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	68	5	5	13	241	80A	76
1,197	309	435	39	39	(*)	675	5	(*)	(*)	1,096	9	7	342	59	58	1	735	88	77
255	38	42	10	94	15	37	3	31	12	63	17	281	121	36	110	45	34	81	78
48	2	9	2	17	2	5	(*)	4	3	8	4	44	13	3	9	3	9	9	79
										240			35	3	3	2	17	4	80
54,370	3,815	9,658	3,012	11,258	2,422	6,801	276	2,454	1,111	8,306	2,860	8,396	10,006	3,786	5,334	1,571	16,736	5,478	I.
19,893	3,610	3,472	656	6,772	752	3,852	144	1,613	812	4,813	1,888	7,888	6,887	2,555	3,719	891	5,100	4,413	V.A.
74,263	7,425	13,131	3,668	18,029	3,174	10,654	420	4,067	1,923	13,119	4,748	16,283	16,893	6,341	9,053	2,462	21,837	9,891	T.
2,489	98	593	719	122	681	1,099	41	102	134	1,490	151	200	2,577	840	613	93	1,378	766	TR.

3. Entry in each row represents the value of the secondary output of the industry named at the beginning of the row which has been transferred to the primary producing industries. See text for further discussion.

NOTE.—Detail may not add due to rounding.

Source: U.S. Department of Commerce, Office of Business Economics.

Table 1.—Interindustry

[In millions of dollars at producers' prices]

Industry No.	For the distribution of output of an industry, read the row for that industry. For the composition of inputs to an industry, read the column for that industry.	Leather tanning and industrial leather products	Footwear and other leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metal manufacturing	Metal containers	Heating, plumbing and structural metal products	Stampings, screw machine products and bolts	Other fabricated metal products	Engines and turbines	Farm machinery and equipment	Construction, mining and oil field machinery
		33	34	35	36	37	38	39	40	41	42	43	44	45
1	Livestock & Livestock Products.....	57												
2	Other Agricultural Products.....				7									
3	Forestry & Fishery Products.....													
4	Agricultural, Forestry & Fishery Services.....													
5	Iron & Ferroalloy Ores Mining.....				17	1,168	15				1			
6	Nonferrous Metal Ores Mining.....			(*)	(*)	891	13	(*)			2			
7	Coal Mining.....	2	(*)	3	82	470			1	1	2	2	2	2
8	Crude Petroleum & Natural Gas.....													
9	Stone and Clay Mining and Quarrying.....			37	797	70	18		1		2	(*)	(*)	(*)
10	Chemical & Fertilizer Mineral Mining.....	(*)		1	24	12	(*)				(*)			
11	New Construction.....													
12	Maintenance & Repair Construction.....	1	4	13	43	173	44	3	15	6	13	4	3	6
13	Ordinance & Accessories.....					5	(*)		18	20	5	12	(*)	(*)
14	Food & Kindred Products.....	240	1	(*)	4	(*)	6	4		(*)	(*)			
15	Tobacco Manufactures.....													
16	Broad & Narrow Fabrics, Yarn & Thread Mills.....		99		14		12		2	(*)	1	(*)	(*)	(*)
17	Miscellaneous Textile Goods & Floor Coverings.....		107	(*)	17	(*)	13	(*)	2	9	44	2	3	3
18	Apparel.....		33	4	10	20	7			5	9		(*)	
19	Miscellaneous Fabricated Textile Products.....		30	(*)	20					(*)	1		(*)	
20	Lumber & Wood Products, Except Containers.....	1	39	58	29	35	22	2	21	36	57	2	7	3
21	Wooden Containers.....	(*)	3	11	2	3	2	(*)	9	3	5	1	2	1
22	Household Furniture.....			14	(*)		(*)		2	(*)	13		(*)	
23	Other Furniture & Fixtures.....		(*)						11	6	7		2	
24	Paper & Allied Products, Except Containers.....	(*)	15	2	147	7	21	1	15	18	61	1	1	2
25	Paperboard Containers & Boxes.....	3	55	134	41	16	12	44	42	55	88	8	9	6
26	Printing & Publishing.....	(*)	1	(*)	1	2	1	88	1	1	4	(*)	(*)	1
27	Chemicals & Selected Chemical Products.....	32	(*)	130	172	411	148	8	38	36	123	4	8	6
28	Plastics & Synthetic Materials.....	(*)	8		71	(*)	128	3		24	(*)			
29	Drugs, Cleaning & Toilet Preparations.....	39	7	1	25	2	1	2	6	3	5	(*)	1	1
30	Paints & Allied Products.....	(*)	(*)	5	2	(*)	1	78	90	27	66	1	16	12
31	Petroleum Refining & Related Industries.....	3	3	8	112	157	82	4	26	18	32	10	7	10
32	Rubber & Miscellaneous Plastics Products.....	8	315	62	100	15	16	7	13	65	124	5	58	80
33	Leather Tanning & Industrial Leather Products.....	179	607	(*)	3	5	2	(*)	1	(*)	(*)	(*)	14	(*)
34	Footwear & Other Leather Products.....	2	100	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
35	Glass & Glass Products.....		1	190	2		1		74	1	10		9	14
36	Stone & Clay Products.....	1	(*)	78	1,065	45	35	5	21	19	72	18	424	639
37	Primary Iron & Steel Manufacturing.....		6	7	111	4,897	136	993	2,154	1,047	1,543	235		
38	Primary Nonferrous Metal Manufacturing.....		1	16	23	528	4,883	35	671	287	742	92	22	46
39	Metal Containers.....					1	1	1	11	18	1			
40	Heating, Plumbing & Structural Metal Products.....			11	16	8	4	3	183	30	68	4	6	40
41	Stampings, Screw Machine Products & Bolts.....	(*)	(*)	2	2	149	43	48	165	100	141	57	87	47
42	Other Fabricated Metal Products.....	1	31	1	101	424	67	5	339	71	338	25	51	91
43	Engines & Turbines.....				1	2	11		15	16	4	195	139	121
44	Farm Machinery & Equipment.....		(*)		(*)	32	(*)	(*)	2	20	4	25	147	88
45	Construction, Mining & Oil Field Machinery.....				46	20	(*)	(*)	38	(*)	24	23	20	164
46	Materials Handling Machinery & Equipment.....	(*)	1	1	13	13	4	(*)	15	1	16	8	2	30
47	Metalworking Machinery & Equipment.....			3	27	80	73	3	34	51	114	62	42	131
48	Special Industry Machinery & Equipment.....			(*)	1	47	7		13	7	23	8	4	7
49	General Industrial Machinery & Equipment.....	(*)	(*)	(*)	11	126	42	(*)	85	29	55	92	262	268
50	Machine Shop Products.....	(*)	(*)	(*)	1	172	109	(*)	8	(*)	(*)	82	83	16
51	Office, Computing & Accounting Machines.....				(*)	5	15		1	(*)	14	(*)	(*)	7
52	Service Industry Machines.....	(*)			11	139	27	2	137	1	20	(*)	1	2
53	Electric Industrial Equipment & Apparatus.....			10	(*)	5	6		122	3	48	26	8	49
54	Household Appliances.....			(*)	(*)	14	5	(*)	18	5	31	(*)	11	(*)
55	Electric Lighting & Wiring Equipment.....	(*)	(*)	(*)	1	(*)	31	(*)	6	15	13	(*)	9	1
56	Radio, Television & Communication Equipment.....	(*)	(*)	1	1	(*)	22		6	15	6	45	3	2
57	Electronic Components & Accessories.....			(*)	1	(*)	1	(*)	3	2	5	(*)	3	5
58	Miscellaneous Electrical Machinery, Equipment & Supplies.....	(*)	(*)	(*)	1	5	50	(*)	2	1	13	53	29	95
59	Motor Vehicles & Equipment.....	(*)	(*)	(*)	8	77	70	(*)	12	122	53	24	43	17
60	Aircraft & Parts.....			(*)	(*)	(*)	11		25	2	41	76	(*)	
61	Other Transportation Equipment.....					1	(*)		75	(*)	11	32	14	21
62	Scientific & Controlling Instruments.....	(*)	12	2	2	22	6	(*)	59	17	37	7	4	8
63	Optical, Ophthalmic & Photographic Equipment.....	(*)	11	1	1	2	1	(*)	3	1	1	(*)	1	(*)
64	Miscellaneous Manufacturing.....	(*)	67	1	26	3	9	(*)	3	10	35	(*)	13	(*)
65	Transportation & Warehousing.....	14	34	65	527	1,146	330	57	142	71	105	25	55	49
66	Communications; Except Radio & TV Broadcasting.....	2	15	10	47	103	45	4	55	25	35	10	11	16
67	Radio & TV Broadcasting.....													
68	Electric, Gas, Water & Sanitary Services.....	9	13	113	308	624	325	17	63	44	82	13	18	27
69	Wholesale & Retail Trade.....	35	112	108	244	737	425	73	280	112	251	74	118	132
70	Finance & Insurance.....	6	22	21	77	214	72	18	54	35	59	8	24	39
71	Real Estate & Rental.....	10	28	24	61	55	56	17	110	52	85	3	13	23
72	Hotels; Personal & Repair Services exc. Auto.....	(*)	1	2	4	12	3	1	27	3	5	2	3	3
73	Business Services.....	8	86	66	197	328	144	47	146	79	163	38	79	56
74	Automobile Repair & Services.....	(*)	3	3	28	19	7	1	10	3	8	3	3	4
75	Amusements.....													
76	Medical, Educational Services & Nonprofit Organizations.....	(*)	2	1	6	9	4	1	6	3	5	2	2	3
77	Federal Government Enterprises.....	1	12	4	9	16	7	1	9	5	9	3	4	5
78	State & Local Government Enterprises.....	(*)	(*)	1	10	8	3	(*)	1	1	1	1	(*)	1
79	Directly Allocated Imports.....	4	1		13		6							
80A	Transferred Imports.....	50	4	59	108	715	1,103	8	4	44	161	24	131	22
80B	Business Travel, Entertainment & Gifts.....	3	22	20	70	83	47	12	82	31	78	17	21	29
81	Office Supplies.....	1	5	3	8	15	6	1	9	4	8	2	3	4
82	Scrap, Used & Secondhand Goods.....			14	2	661	610		14		12		9	2
83	Government Industry.....													
84	Rest of the World Industry.....													
85	Household Industry.....													
86	Inventory Valuation Adjustment.....													
I.	Intermediate Inputs, Total.....	716	1,921	1,325	4,953	14,166	10,292	1,610	5,625	2,718	5,220	1,467	2,068	2,455
V.A.	Value Added.....	251	1,605	1,607	4,594	10,453	3,980	835	3,371	2,237	3,743	931	1,013	1,607
T.	Total.....	967	3,427	2,932	9,548	24,619	14,272	2,445	8,996	4,955	8,963	2,398	3,080	4,062
TR.	Transfers.....	69	76	134	383	1,264	1,530	76	778	655	1,557	334	267	389

Table 1.—Interindustry

[In millions of dollars at producers' prices]

Industry No.	For the distribution of output of an industry, read the row for that industry. For the composition of inputs to an industry, read the column for that industry.	Transportation and warehousing	Communications; except radio and TV broadcasting	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 except auto	Business services	Automobile repair and services	Amusements	Medical, educational services and non-profit organizations	Federal Government enterprises
		65	66	67	68	69	70	71	72	73	75	76	77	78
1	Livestock & Livestock Products.....	2						960				18	6	
2	Other Agricultural Products.....	88						1,583					36	636
3	Forestry & Fishery Products.....													
4	Agricultural, Forestry & Fishery Services.....					169		17					(*)	(*)
5	Iron & Ferroalloy Ores Mining.....				3	(*)		7		(*)			(*)	(*)
6	Nonferrous Metal Ores Mining.....				1	1		6		(*)				67
7	Coal Mining.....	9			636	2		10	1	(*)			11	
8	Crude Petroleum & Natural Gas.....	21			1,948	7		80		1				
9	Stone and Clay Mining and Quarrying.....				(*)	4		15	1	1				(*)
10	Chemical & Fertilizer Mineral Mining.....	1			(*)	(*)		4		(*)				(*)
11	New Construction.....													
12	Maintenance & Repair Construction.....	1,159	386		889	397	112	7,215	150	31	23	81	669	42
13	Ordinance & Accessories.....					19		1	1					(*)
14	Food & Kindred Products.....	132			2	732		107	2	1			302	214
15	Tobacco Manufactures.....				(*)	4		6						
16	Broad & Narrow Fabrics, Yarn & Thread Mills.....				(*)	2		18	44	3				18
17	Miscellaneous Textile Goods & Floor Coverings.....	17	(*)	(*)	(*)	20	(*)	3	6	(*)	(*)	(*)	(*)	4
18	Apparel.....	15	4		7	105		36	64	(*)	6		3	
19	Miscellaneous Fabricated Textile Products.....					42		1	87		6		16	6
20	Lumber & Wood Products, Except Containers.....	3			2	86		27						(*)
21	Wooden Containers.....					51		2						
22	Household Furniture.....				(*)	23		5						
23	Other Furniture & Fixtures.....					20		3						(*)
24	Paper & Allied Products, Except Containers.....	10	9	(*)	22	782	195	28	48	89	3	1	51	14
25	Paperboard Containers & Boxes.....	10			1	580		7	24	13			2	1
26	Printing & Publishing.....	47	1	1	2	236	300	85	8	7,057	(*)	47	456	16
27	Chemicals & Selected Chemical Products.....	40	2	(*)	55	151	1	237	59	113	5	61	47	3
28	Plastics & Synthetic Materials.....				2	44		33						2
29	Drugs, Cleaning & Toilet Preparations.....	4	(*)	(*)	(*)	215	(*)	54	251	118	(*)	(*)	599	5
30	Paints & Allied Products.....	5	(*)	(*)	(*)	32	(*)	8	7	10	74	(*)	(*)	(*)
31	Petroleum Refining & Related Industries.....	1,544	86	1	223	1,358	84	490	145	116	120	18	146	17
32	Rubber & Miscellaneous Plastics Products.....	197	15	1	6	322	8	67	58	17	234	2	43	9
33	Leather Tanning & Industrial Leather Products.....	(*)			(*)	2		2	12					(*)
34	Footwear & Other Leather Products.....	(*)	(*)	(*)	(*)	23	(*)	8	150	(*)	(*)	5	(*)	(*)
35	Glass & Glass Products.....	3				38		12	(*)	73			4	(*)
36	Stone & Clay Products.....	8	(*)		1	154	(*)	30	62	11	108	(*)	3	1
37	Primary Iron & Steel Manufacturing.....	225			58	46		26						
38	Primary Nonferrous Metal Manufacturing.....	20	7		17	39		14	5	2				(*)
39	Metal Containers.....					5		6						
40	Heating, Plumbing & Structural Metal Products.....				(*)	119		48						
41	Stampings, Screw Machine Products & Bolts.....	7				51		11			122		2	2
42	Other Fabricated Metal Products.....	103				112		14	53	12	83		2	(*)
43	Engines & Turbines.....	56			2	15		1		100	33			
44	Farm Machinery & Equipment.....				1	18		6		86				
45	Construction, Mining & Oil Field Machinery.....					46		14		14				
46	Materials Handling Machinery & Equipment.....	1				18		6						(*)
47	Metalworking Machinery & Equipment.....	20				32		14		19	1			
48	Special Industry Machinery & Equipment.....					53		79						
49	General Industrial Machinery & Equipment.....	13			(*)	53		14						(*)
50	Machine Shop Products.....	10	1	(*)	(*)	17	(*)	6	2	2	109	(*)	1	(*)
51	Office, Computing & Accounting Machines.....					47		47		302				(*)
52	Service Industry Machines.....	1				36		3		102				(*)
53	Electric Industrial Equipment & Apparatus.....	28			(*)	42		27	32	116	16			(*)
54	Household Appliances.....					49		16	146					1
55	Electric Lighting & Wiring Equipment.....	13	(*)	(*)	24	63	(*)	1	8		13	(*)	1	1
56	Radio, Television & Communication Equipment.....	(*)	172	7	1	40		13		5			(*)	
57	Electronic Components & Accessories.....	34				33		14	404				3	(*)
58	Miscellaneous Electrical Machinery, Equipment & Supplies.....	83	3	(*)	2	90	2	8	5	28	193	(*)	4	1
59	Motor Vehicles & Equipment.....	110	4	(*)	3	99	2	36	5	4	846	1	5	8
60	Aircraft & Parts.....	204				107		16		1			1	
61	Other Transportation Equipment.....	255			(*)	17		17	9	15				(*)
62	Scientific & Controlling Instruments.....	3				67		18	3		(*)		236	(*)
63	Optical, Ophthalmic & Photographic Equipment.....	1	1	2	(*)	60	3	14	130	167		111	62	(*)
64	Miscellaneous Manufacturing.....	1	(*)	(*)	(*)	189	(*)	13	319	376	(*)	34	47	1
65	Transportation & Warehousing.....	3,168	17	1	570	907	45	302	102	76	84	17	116	1,290
66	Communications; Except Radio & TV Broadcasting.....	370	99	102	80	1,267	848	177	128	854	70	54	403	9
67	Radio & TV Broadcasting.....			13				10		2,224			17	
68	Electric, Gas, Water & Sanitary Services.....	250	146	23	5,829	2,071	595	177	224	454	71	84	950	64
69	Wholesale & Retail Trade.....	1,044	124	27	166	2,159	390	1,255	430	699	1,274	132	589	64
70	Finance & Insurance.....	654	113	24	216	1,897	6,063	2,611	220	244	165	105	192	15
71	Real Estate & Rental.....	890	252	52	167	6,416	1,625	2,769	861	1,356	303	721	2,694	137
72	Hotels; Personal & Repair Services exc. Auto.....	13	4			258		210	395	197	8	7	147	3
73	Business Services.....	692	235	93	493	5,687	2,519	1,687	413	1,362	116	343	662	108
74	Automobile Repair & Services.....	608	104	1	44	972	78	131	127	179	37	19	151	16
75	Amusements.....		2	606		87	1	127	2	114		1,481	31	(*)
76	Medical, Educational Services & Nonprofit Organizations.....	46	12	2	8	120	358	76	42	51	6	19	311	1
77	Federal Government Enterprises.....	91	65	3	520	1,186	653	328	42	673	6	28	249	2
78	State & Local Government Enterprises.....	993	7	(*)	3,841	449	93	636	9	15	154	2	23	2
79	Directly Allocated Imports.....	758	39			26	130					133		244
80A	Transferred Imports.....	1,017			105		15							
81	Business Travel, Entertainment & Gifts.....	182	96	57	113	1,189	455	85	218	879	49	201	556	60
82	Office Supplies.....	63	56	3	25	266	578	44	28	60	5	11	130	5
83	Scrap, Used & Secondhand Goods.....					7					24			
84	Government Industry.....													
85	Rest of the World Industry.....													
86	Household Industry.....													
87	Inventory Valuation Adjustment.....													
I.	Intermediate Inputs, Total.....	15,342	2,062	1,019	15,787	32,165	15,153	22,298	5,542	18,382	4,439	3,736	9,980	3,090
V.A.	Value Added.....	23,873	11,433	1,289	13,874	88,448	18,548	61,589	9,823	17,563	6,427	3,961	23,180	2,774
T.	Total.....	39,215	13,495	2,308	29,660	120,613	33,700	83,887	15,370	35,945	10,866	7,697	33,160	5,864
T.R.	Transfers.....	2,068			4,632	4,229	121	8,293	2	10,415	149	17		

Table 2. Direct Requirements

Industry No.	For the composition of inputs to an industry, read the column for that industry.	[Producers' prices]										
		Livestock and live- stock products	Other agricultural products	Forestry and fishery products	Agricultural for- estry 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
		1	2	3	4	5	6	7	8	9	10	11
1	Livestock & Livestock Products.....	0.17800	0.06673	0.06687	0.10823							
2	Other Agricultural Products.....	.29596	.02819	.06685	.31040							0.00493
3	Forestry & Fishery Products.....		.01992	.04243								
4	Agricultural, Forestry & Fishery Services.....	.01667	.03863									.00005
5	Iron & Ferroalloy Ores Mining.....					0.03846	0.00089	0.00004		0.00002	0.00215	
6	Nonferrous Metal Ores Mining.....					.01782	.17332	.00010	0.00002	.00225	.00013	
7	Coal Mining.....	.00021	.00002			.00361	.00090	.15561	(*)	.00227	.00087	
8	Crude Petroleum & Natural Gas.....								.02418			
9	Stone and Clay Mining and Quarrying.....	.00006	.00311	(*)		.00339	.00029	.00026		.00860	.00772	.00729
10	Chemical & Fertilizer Mineral Mining.....		.00129				.00408	.00001		.00072	.04442	
11	New Construction.....											
12	Maintenance & Repair Construction.....	.00750	.01344			.00060	.00491	.00549	.03093	.00543	.00394	.00027
13	Ordinance & Accessories.....											.00008
14	Food & Kindred Products.....	.13319	.00008	.02529	.01933						.00010	.00040
15	Tobacco Manufactures.....									.00007		
16	Broad & Narrow Fabrics, Yarn & Thread Mills.....		.00034			.00001	.00019				.00043	.00047
17	Miscellaneous Textile Goods & Floor Coverings.....	.00035	.00106	.03536	.02296	(*)	.00010	(*)	.00017	.00006		.00189
18	Apparel.....						.00001					.00044
19	Miscellaneous Fabricated Textile Products.....	.00065	.00158	.00072								.00011
20	Lumber & Wood Products, Except Containers.....	.00008	.00008			.00169	.00651	.00636	.00001	.00002	.00043	.05424
21	Wooden Containers.....		.00355		.00798							
22	Household Furniture.....											.00523
23	Other Furniture & Fixtures.....											.00281
24	Paper & Allied Products, Except Containers.....	.00044	.00004	.00022	.00003	.00015	.00026	.00038	.00014	.00287	.00289	.00317
25	Paperboard Containers & Boxes.....	.00006	.00011		.04877							.00007
26	Printing & Publishing.....	.00018	.00032	.00020	.00001	.00002	.00005	.00002	.00003	.00004	.00005	.00003
27	Chemicals & Selected Chemical Products.....	.00213	.05224	.00091	.00051	.01487	.03669	.01443	.00822	.01688	.02871	.00307
28	Plastics & Synthetic Materials.....						.00009			.00011		.00002
29	Drugs, Cleaning & Toilet Preparations.....	.00310		(*)	(*)	(*)	.00001	(*)		.00001	.00025	.00003
30	Paints & Allied Products.....			.00252	(*)	(*)	.00001	(*)	.00037	.00001	.00002	.00469
31	Petroleum Refining & Related Industries.....	.00636	.03499	.01959	.00195	.00737	.00462	.00868	.00524	.02550	.00823	.01709
32	Rubber & Miscellaneous Plastics Products.....	.00109	.00419	.00059	.00004	.00473	.00641	.01233	.00128	.03455	.00250	.00743
33	Leather Tanning & Industrial Leather Products.....											.00001
34	Footwear & Other Leather Products.....	.00027		(*)	.00156	(*)	.00001	(*)		.00001	.00001	.00001
35	Glass & Glass Products.....	.00020										.00123
36	Stone & Clay Products.....	.00005	.00143	.00028	(*)	.00251	.00112	.00119	.00333	.05715	.00065	.08872
37	Primary Iron & Steel Manufacturing.....					.01493	.01777	.01486	.00243	.01362	.01974	.03244
38	Primary Nonferrous Metal Manufacturing.....	.00003	.00003			.00102	.00025	.00003		.00116	.00287	.01898
39	Metal Containers.....	.00029	.00046	.01216								
40	Heating, Plumbing & Structural Metal Products.....					.00022	.00099		.00150	.00084	.00080	.09400
41	Stampings, Screw Machine Products & Bolts.....	.00093										.00171
42	Other Fabricated Metal Products.....	.00077	.00115	.00861	.07439	.00091	.00249	.00466	.00107	.00220	.00099	.01488
43	Engines & Turbines.....					.00585	.00719	.01355	.00129	.01838	.00663	.00040
44	Farm Machinery & Equipment.....	.00020	.00840									.00002
45	Construction, Mining & Oil Field Machinery.....					.01674	.01954	.03210	.00200	.02354	.02341	.00364
46	Materials Handling Machinery & Equipment.....					.00015	.00228	.00022		.00792	.00636	.00393
47	Metalworking Machinery & Equipment.....					.00083	.00037	.00172				.00017
48	Special Industry Machinery & Equipment.....											
49	General Industrial Machinery & Equipment.....			.00025		.00016	.00048	.00079	.00200	.01130	.00240	.00320
50	Machine Shop Products.....	.00011	.00024	.00011	.00001	.00014	.02082	.00425	.00003	.00378	.00248	.00018
51	Office, Computing & Accounting Machines.....											
52	Service Industry Machines.....											.00617
53	Electric Industrial Equipment & Apparatus.....					.00004	.00043	.00279	.00666	.00367	.00693	.00515
54	Household Appliances.....											.00280
55	Electric Lighting & Wiring Equipment.....	.00003	.00005	.02045	.00001	.00013	.00040	.00419	.00002	.00051	.00137	.01715
56	Radio, Television & Communication Equipment.....					.00004	.00013		.00033			.00121
57	Electronic Components & Accessories.....						(*)		.00119			.00002
58	Miscellaneous Electrical Machinery, Equipment & Supplies.....	.00022	.00093	.00105	.00001	.00017	.00018	.00030	.00007	.00069	.00020	.00056
59	Motor Vehicles & Equipment.....	.00025	.00051	.00022	.00003	.00156	.00155	.00301	.00027	.00724	.00143	.00056
60	Aircraft & Parts.....			.00022								
61	Other Transportation Equipment.....	(*)	.00016	.01184		.00006	.00122	.00337		.00006	.00044	.00007
62	Scientific & Controlling Instruments.....			.00040		.00025	.00033		.00036			.00317
63	Optical, Ophthalmic & Photographic Equipment.....											.00007
64	Miscellaneous Manufacturing.....	.00006	.00007	.00012	(*)	.00001	.00067	(*)	(*)	.00002	.00003	.00136
65	Transportation & Warehousing.....	.02272	.01131	.02517	.01445	.08811	.01947	.01760	.02293	.01661	.05592	.03271
66	Communications; Except Radio & TV Broadcasting.....	.00196	.00303			.00091	.00115	.00134	.00070	.00030	.00402	.00275
67	Radio & TV Broadcasting.....											
68	Electric, Gas, Water & Sanitary Services.....	.00360	.00749	.00009	.00045	.01868	.02687	.02469	.01148	.03054	.05155	.00313
69	Wholesale & Retail Trade.....	.03260	.03090	.03215	.02382	.01502	.01827	.02199	.01180	.02669	.02059	.08323
70	Finance & Insurance.....	.00583	.01155	.00188	.00322	.00476	.01637	.01076	.00763	.01423	.00832	.00612
71	Real Estate & Rental.....	.01082	.07407		.02324	.07753	.02748	.02769	.18312	.02212	.01622	.00469
72	Hotels; Personal & Repair Services exc. Auto.....											
73	Business Services.....	.00519	.03068	.00038	.00002	.02282	.00923	.01080	.00881	.01076	.00882	.04516
75	Automobile Repair & Services.....	.00285	.00589	.00387	.00051	.00073	.00151	.00293	.00343	.00932	.00137	.00358
76	Amusements.....											
77	Medical, Educational Services & Nonprofit Organizations.....	.00677	.00047			.00054	.00068	.00077	.00039	.00019	.00262	.00087
78	Federal Government Enterprises.....	.00015	.00315	.00018	.00017	.00080	.00082	.00068	.00043	.00050	.00230	.00028
79	State & Local Government Enterprises.....	.00002	.00003	.00017	.00003	.00040	.00057	.00024	.00026	.00112	.00122	.00043
80	Gross Imports of Goods & Services.....	.00659	.01594	.24437	.00006	.29580	.14007	.00083	.08531	.05336	.12564	
81	Business Travel, Entertainment & Gifts.....	.00066	.00117	.01002	.00904	.00231	.00453	.00409	.00544	.00533	.00274	.00547
82	Office Supplies.....	.00003	.00003	.00025	.00023	.00023	.00030	.00041	.00041	.00041	.00032	.00026
83	Scrap, Used & Secondhand Goods.....			.00309		.00037	.00344	.00033		.00233	.00145	.00059
V.A.	Value Added.....	.25080	.54388	.34163	.32835	.33257	.41171	.58412	.56475	.55470	.51735	.39516
T.	Total.....	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

*Less than 0.000005. NOTE.—Detail may not add due to rounding.
Source: U.S. Department of Commerce, Office of Business Economics

Table 2.—Direct Requirements Per

Industry No.	For the composition of inputs to an industry, read the column for that industry.	[Producers' prices]										
		Drugs, cleaning and toilet preparations	Paints and allied products	Petroleum refining and related industries	Rubber and miscellane- ous plastics products	Leather tanning and industrial leather products	Footwear and other leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metal manufacturing	Metal containers
		29	30	31	32	33	34	35	36	37	38	39
1	Livestock & Livestock Products.....	0.0027				0.05895						
2	Other Agricultural Products.....	.00088										
3	Forestry & Fishery Products.....	.00014							0.00073			
4	Agricultural, Forestry & Fishery Services.....											
5	Iron & Ferroalloy Ores Mining.....								.00176	0.04746	0.00106	
6	Nonferrous Metal Ores Mining.....											
7	Coal Mining.....	.00039	0.00013	0.00043	0.00093	.00214	0.00012	0.00003	.00003	.00006	.06242	
8	Crude Petroleum & Natural Gas.....			.44937				.00096	.00863	.00093	0.00013	
9	Stone and Clay Mining and Quarrying.....	.00036	.00202	.00364	.00099			.01251	.08347	.00284	.00128	
10	Chemical & Fertilizer Mineral Mining.....	.00024		.00002	.00002	.00034		.00046	.00256	.00048	(*)	
11	New Construction.....											
12	Maintenance & Repair Construction.....	.00277	.00228	.01601	.00269	.00136	.00127	.00440	.00454	.00704	.00311	.00126
13	Ordinance & Accessories.....			(*)	.00004					.00019	.00002	
14	Food & Kindred Products.....	.03559	.04078	.00115	.00003	.24820	.00037	.00008	.00041	.00002	.00043	.00180
15	Tobacco Manufactures.....			.00001								
16	Broad & Narrow Fabrics, Yarn & Thread Mills.....	.00015	.00028	(*)	.01830		.02884		.00147		.00086	
17	Miscellaneous Textile Goods & Floor Coverings.....	(*)	(*)	(*)	.03987		.03129		.00176		.00091	
18	Apparel.....	.00039	.00041	.00016	.00219		.00964	.00131	.00103	.00083	.00051	.00067
19	Miscellaneous Fabricated Textile Products.....	.00003			.00057		.00884	.00011	.00210			
20	Lumber & Wood Products, Except Containers.....	.00133	.00011	.00020	.00278	.00090	.01138	.01982	.00308	.00140	.00153	.00085
21	Wooden Containers.....				.00036		.00074	.00388	.00020	.00012	.00014	.00017
22	Household Furniture.....	.00021	.00036	.00001	.00033			.00494	.00005		.00002	
23	Other Furniture & Fixtures.....				.00001		.00007					
24	Paper & Allied Products, Except Containers.....	.00818	.00049	.00468	.00540	.00031	.00448	.00062	.01539	.00030	.00147	.00026
25	Paperboard Containers & Boxes.....	.02365	.00767	.00277	.01631	.00271	.01606	.04565	.00427	.00066	.00084	.01783
26	Printing & Publishing.....	.00351	.00014	.00004	.00018	.00006	.00033	.00014	.00014	.00007	.00007	.03620
27	Chemicals & Selected Chemical Products.....	.00665	.02052	.02659	.03876	.03283	.00010	.04446	.01800	.01673	.01040	.00341
28	Plastics & Synthetic Materials.....	.00294	.00250	.00002	.18099	.00044	.00245	.00744	.00001	.00899	.00104	
29	Drugs, Cleaning & Toilet Preparations.....	.05701	.00859	.00304	.00047	.04041	.00200	.00029	.00259	.00007	.00005	.00072
30	Paints & Allied Products.....	.00126	.00021	.00090	.00106	(*)	(*)	.00180	.00016	(*)	.00009	.03181
31	Petroleum Refining & Related Industries.....	.00638	.04261	.07430	.00213	.00362	.00092	.00285	.01173	.00639	.00577	.00158
32	Rubber & Miscellaneous Plastics Products.....	.03193	.00419	.00008	.04502	.00840	.09180	.02128	.01048	.00061	.00112	.00293
33	Leather Tanning & Industrial Leather Products.....	.00003	.00004	.00010	.00054	.18555	.17718	.00008	.00035	.00021	.00012	.00004
34	Footwear & Other Leather Products.....	(*)			.00134	.00235	.02931	(*)	.00001	.00001	(*)	(*)
35	Glass & Glass Products.....	.01799	.00021		.00244		.00027	.06466	.00017		.00007	
36	Stone & Clay Products.....	.00211	.00442	.00252	.00749	.00109	(*)	.02650	.11150	.00185	.00246	.00204
37	Primary Iron & Steel Manufacturing.....	.00002	.00243	.00005	.00507		.00188	.00237	.01159	.19890	.00950	.40606
38	Primary Nonferrous Metal Manufacturing.....		.00950	.00230	.00244		.00041	.00529	.00241	.02145	.34217	.01437
39	Metal Containers.....	.01991	.06022	.00612	.00021					.00003		.00029
40	Heating, Plumbing & Structural Metal Products.....		.00008	.00019	.00015			.00361	.00171	.00031	.00027	.00133
41	Stampings, Screw Machine Products & Bolts.....	.00350	.00010	(*)	.00628	.00009	.00011	.00055	.00017	.00066	.00298	.01950
42	Other Fabricated Metal Products.....	.00892	.00056	.00030	.00668	.00129	.00912	.00043	.01054	.01722	.00469	.00222
43	Engines & Turbines.....								.00015	.00010	.00077	
44	Farm Machinery & Equipment.....				.00001		.00002		.00001	.00129	.00001	
45	Construction, Mining & Oil Field Machinery.....				.00004				.00482	.00080	.00002	.00005
46	Materials Handling Machinery & Equipment.....	.00008	.00010	.00020	.00023	.00018	.00018	.00024	.00137	.00054	.00028	.00012
47	Metalworking Machinery & Equipment.....		.00013		.00062			.00098	.00281	.00325	.00509	.00121
48	Special Industry Machinery & Equipment.....	.00001		.00001	.00142			.00001	.00009	.00190	.00051	
49	General Industrial Machinery & Equipment.....	.00005	.00013	.00010	.00014	.00021	.00001	.00014	.00119	.00511	.00292	.00008
50	Machine Shop Products.....	.00013	.00002	.00001	.00065	.00001	.00002	.00002	.00007	.00700	.00766	.00001
51	Office, Computing & Accounting Machines.....	(*)			.00004				.00001			
52	Service Industry Machines.....		.00006		.00005	.00010			.00052	.00062	.00020	
53	Electric Industrial Equipment & Apparatus.....	.00001	.00002		.00059			.00341	.00118	.00563	.00190	.00081
54	Household Appliances.....		.00003		.00075			.00010	.00005	.00019	.00039	
55	Electric Lighting & Wiring Equipment.....	.00035	.00002	(*)	.00002	.00001	.00001	.00001	.00149	.00022	.00219	(*)
56	Radio, Television & Communication Equipment.....	.00006		.00002	.00112	.00033	.00014	.00039	.00012	.00002	.00153	
57	Electronic Components & Accessories.....				.00017			.00013	.00007	.00001	.00010	.00006
58	Miscellaneous Electrical Machinery, Equipment & Supplies.....	.00002	.00003	.00002	.00002	.00002	.00002	.00003	.00011	.00020	.00353	.00002
59	Motor Vehicles & Equipment.....	.00007	.00007	.00004	.00047	.00004	.00008	.00007	.00088	.00314	.00494	.00009
60	Aircraft & Parts.....				.00343			.00008	.00001	.00001		.00435
61	Other Transportation Equipment.....				.00004					.00004	.00001	
62	Scientific & Controlling Instruments.....	.00681	.00009	.00003	.00087	.00020	.00356	.00057	.00024	.00088	.00039	.00015
63	Optical, Ophthalmic & Photographic Equipment.....	.00004	.00003	.00003	.00076	.00007	.00319	.00018	.00010	.00006	.00004	.00005
64	Miscellaneous Manufacturing.....	.00192	.00032	.00016	.00658	.00009	.01952	.00191	.00271	.00127	.00066	.00007
65	Transportation & Warehousing.....	.01549	.02048	.04423	.01723	.01474	.01007	.02225	.05529	.04657	.02314	.02339
66	Communications; Except Radio & TV Broadcasting.....	.00447	.00525	.00117	.00332	.00219	.00427	.00328	.00495	.00417	.00315	.00149
67	Radio & TV Broadcasting.....											
68	Electric, Gas, Water & Sanitary Services.....	.00397	.00455	.01787	.01071	.00922	.00385	.03853	.03224	.02537	.02279	.00893
69	Wholesale & Retail Trade.....	.03363	.04896	.01823	.03020	.03628	.03260	.03686	.02555	.02894	.02977	.02884
70	Finance & Insurance.....	.00626	.00645	.00980	.00496	.00593	.00655	.00729	.00810	.00870	.00502	.00717
71	Real Estate & Rental.....	.00955	.00867	.01915	.00767	.01023	.00825	.00811	.00639	.02220	.00395	.00680
72	Hotels; Personal & Repair Services exc. Auto.....	.00374	.00349	.00042	.00108	.00002	.00038	.00076	.00045	.00047	.00023	.00039
73	Business Services.....	.14213	.02709	.02231	.02337	.00849	.02501	.02250	.02064	.01333	.01008	.01920
74	Automobile Repair & Services.....	.00064	.00095	.00039	.00078	.00051	.00074	.00088	.00290	.00076	.00052	.00054
75												
76	Amusements.....											
77	Medical, Educational Services & Nonprofit Organizations.....	.00053	.00070	.00013	.00055	.00032	.00055	.00041	.00085	.00036	.00027	.00023
78	Federal Government Enterprises.....	.00204	.00149	.00064	.00103	.00353	.00120	.00091	.00064	.00053	.00031	
79	State & Local Government Enterprises.....	.00013	.00012	.00011	.00019	.00040	.00006	.00021	.00109	.00033	.00019	.00006
80	Gross Imports of Goods & Services.....	.00697	.00538	.03366	.03330	.05561	.00152	.01999	.01272	.02304	.07771	.00344
81	Business Travel, Entertainment & Gifts.....	.01211	.01845	.00156	.00817	.00263	.00635	.00680	.00735	.00339	.00327	.00501
82	Office Supplies.....	.00097	.00123	.00040	.00088	.00058	.00151	.00101	.00085	.00063	.00042	.00031
83	Scrap, Used & Secondhand Goods.....	.00035	.00097	.00080	.00035			.00466	.00025	.02684	.04274	
V.A.	Value Added.....	.41076	.36189	.23357	.44618	.25933	.43906	.54793	.48121	.42459	.27884	.34135
T.	Total.....	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

Table 2.—Direct Requirements Per

(Producers' prices)

Industry No.	For the composition of inputs to an industry, read the column for that industry.	Electronic components and accessories	Miscellaneous electrical machinery, equipment 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
		57	58	59	60	61	62	63	64	65
1	Livestock & Livestock Products						0.00092		0.00160	0.00005
2	Other Agricultural Products								.00054	.00225
3	Forestry & Fishery Products									
4	Agricultural, Forestry & Fishery Services									
5	Iron & Ferroalloy Ores Mining									
6	Nonferrous Metal Ores Mining						.00003			
7	Coal Mining	0.00010	0.00025	0.00038	0.00011	0.00038	.00007	0.00107	.00020	.00023
8	Crude Petroleum & Natural Gas									.00054
9	Stone and Clay Mining and Quarrying	.00007	.00007	.00005			.00004		.00027	
10	Chemical & Fertilizer Mineral Mining								.00001	.00002
11	New Construction						.00164	.00164	.00216	.02956
12	Maintenance & Repair Construction	.00231	.00067	.00178	.00153	.00145	.00211	.00342	.00003	
13	Ordnance & Accessories	.00008		.00041	.01448	.00004	.00329		.00175	.00336
14	Food & Kindred Products									
15	Tobacco Manufactures									
16	Broad & Narrow Fabrics, Yarn & Thread Mills		.00071	.00037	.00045	.00029	.01288	.00067	.01424	
17	Miscellaneous Textile Goods & Floor Coverings	(*)		.00322	.00017	.00716	.00047	(*)	.00714	.00044
18	Apparel	.00140	.00087	.00043	.00083	.00116	.00165	.00076	.00229	.00037
19	Miscellaneous Fabricated Textile Products		.00091	.00067		.00361	.00013		.00090	
20	Lumber & Wood Products, Except Containers	.00005	.00039	.00020	.03089	.00108	.00024		.02176	.00007
21	Wooden Containers	.00034	.00066	.00018	.00026	.00006	.00054		.00050	
22	Household Furniture	.00004		.00001		.00602	.00096		.00300	
23	Other Furniture & Fixtures			.00004	.00274	.00118	.00005	.00006	.00001	
24	Paper & Allied Products, Except Containers	.01366	.00049	.00025	.00055	.00236	.00460	.02145	.01968	.00026
25	Paperboard Containers & Boxes	.00563	.00805	.00033	.00078	.00034	.00556	.00059	.01768	.00025
26	Printing & Publishing	.00027	.00012	.00004	.00029	.00011	.00035	.00051	.00609	.00120
27	Chemicals & Selected Chemical Products	.01643	.02070	.00105	.00247	.00093	.00393	.00690	.00832	.00101
28	Plastics & Synthetic Materials	.00514	.00429	.00028	.00126	.00270	.00220	.00866	.02605	
29	Drugs, Cleaning & Toilet Preparations	.00015	.00008	.00005	.00014	.00012	.00557	.00014	.02772	.00010
30	Paints & Allied Products	.00101	.00015	.00486	.00108	.00470	.00115	.00010	.00775	.00012
31	Petroleum Refining & Related Industries	.00250	.00143	.00174	.00340	.00255	.00208	.00134	.00325	.03937
32	Rubber & Miscellaneous Plastics Products	.01822	.04025	.02231	.00663	.01310	.02871	.01353	.04311	.00503
33	Leather Tanning & Industrial Leather Products	.00002	.00003	.00003	.00004	.00007	.00023	.00003	.00231	(*)
34	Footwear & Other Leather Products	(*)	(*)			(*)	.00062	.00157	.00432	
35	Glass & Glass Products	.02991	.00059	.00915	.00008	.00402	.00382	.01561	.00460	.00009
36	Stone & Clay Products	.00638	.00650	.00198	.00252	.00401	.00242	.00221	.00316	.00021
37	Primary Iron & Steel Manufacturing	.01692	.02717	.08627	.02204	.12569	.02754	.01094	.02818	.00575
38	Primary Nonferrous Metal Manufacturing	.04229	.11206	.01366	.04046	.02549	.03775	.03008	.03381	.00052
39	Metal Containers		.00001				.00265			
40	Heating, Plumbing & Structural Metal Products	.00060	.00015	.00058	.00038	.03857	.00025	.00007	.00058	
41	Stampings, Screw Machine Products & Bolts	.02827	.01002	.03423	.01356	.00589	.01647	.00399	.01378	.00017
42	Other Fabricated Metal Products	.02207	.01169	.02824	.01465	.02529	.01982	.00655	.01619	.00261
43	Engines & Turbines		.00008	.00437	.00257	.02639	.00008		.00001	.00142
44	Farm Machinery & Equipment		.00054	.00002	.00002	.00522	.00019	.00006	.00092	
45	Construction, Mining & Oil Field Machinery		.00002	.00088	.00064	.00164	.00012		.00004	
46	Materials Handling Machinery & Equipment	.00195	.00013	.00041	.00091	.00052	.00019	.00020	.00061	.00003
47	Metalworking Machinery & Equipment	.00910	.00985	.01353	.02176	.00454	.01355	.00020	.00012	.00051
48	Special Industry Machinery & Equipment	.00041	.00538	.00008	.00043	.00041	.00115	.00040	.00025	
49	General Industrial Machinery & Equipment	.00792	.01312	.00757	.00666	.03683	.00560	.00037	.00209	.00032
50	Machine Shop Products	.00009	.00183	.01039	.04071	.00492	.00006	.00065	.00003	.00026
51	Office, Computing & Accounting Machines	.00013		.00040	.00007	.00157	.00010		.00002	
52	Service Industry Machines	.00112	.00569	.00517	.00028	.00205	.00693	.00233	.00025	.00002
53	Electric Industrial Equipment & Apparatus	.02474	.02615	.00128	.00205	.02535	.02197	.00540	.00537	.00073
54	Household Appliances	.00569	.01133	.00056	.00041	.00850	.00081	.00671	.00310	
55	Electric Lighting & Wiring Equipment	.02122	.00987	.00449	.00067	.00251	.00703	.00664	.00253	.00033
56	Radio, Television & Communication Equipment	.05248	.02430	.00278	.04420	.00036	.05165	.00675	.00088	.00001
57	Electronic Components & Accessories	.04717	.01079	.00181	.00867	.00056	.01695	.00791	.00283	.00087
58	Miscellaneous Electrical Machinery, Equipment & Supplies	.00061	.04364	.01053	.00238	.00118	.00057	.00007	.00004	.00212
59	Motor Vehicles & Equipment	.00011	.03094	.32889	.00128	.01172	.00794	.00041	.00082	.00280
60	Aircraft & Parts	.00301	.00002	.00033	.15801	.00507	.01055	.00137	.00219	.00520
61	Other Transportation Equipment		.00022	.00020	.00053	.07899	.00315		.00280	.00650
62	Scientific & Controlling Instruments	.00486	.00751	.00617	.01592	.00071	.08910	.00774	.00125	.00007
63	Optical, Ophthalmic & Photographic Equipment	.00210	.00495	.00019	.00276	.00009	.00703	.04002	.00076	.00003
64	Miscellaneous Manufacturing	.00083	.00053	.00006	.00067	.00262	.00697	.00065	.07323	.00003
65	Transportation & Warehousing	.00807	.01129	.01592	.00717	.01599	.00693	.01006	.01468	.08078
66	Communications; Except Radio & TV Broadcasting	.00608	.00321	.00167	.00793	.00286	.00791	.00636	.00517	.00944
67	Radio & TV Broadcasting									
68	Electric, Gas, Water & Sanitary Services	.00824	.00657	.00412	.00612	.00593	.00506	.00443	.00545	.00638
69	Wholesale & Retail Trade	.03895	.03895	.02304	.02015	.03141	.03529	.03372	.04547	.02663
70	Finance & Insurance	.00491	.00332	.00297	.00364	.00467	.00625	.00486	.00561	.01668
71	Real Estate & Rental	.01006	.00546	.00189	.00452	.00662	.01033	.01124	.01331	.02269
72	Hotels; Personal & Repair Services exc. Auto	.00097	.00062	.00037	.00281	.00057	.00103	.00107	.00093	.00034
73	Business Services	.02193	.01271	.01203	.02226	.01325	.04280	.03162	.03309	.01764
75	Automobile Repair & Services	.00122	.00083	.00969	.00148	.00080	.00112	.00098	.00096	.01550
76	Amusements									
77	Medical, Educational Services & Nonprofit Organizations	.00108	.00051	.00019	.00127	.00041	.00094	.00082	.00066	.00118
78	Federal Government Enterprises	.00146	.00076	.00098	.00142	.00102	.00197	.00161	.00243	.00232
79	State & Local Government Enterprises	.00015	.00018	.00010	.00014	.00013	.00017	.00015	.00012	.02532
80	Gross Imports of Goods & Services	.01157	.01994	.00258	.00479	.01222	.00773	.03781	.06044	.04528
81	Business Travel, Entertainment & Gifts	.01434	.00899	.00280	.01112	.00841	.01518	.01050	.00931	.00463
82	Office Supplies	.00136	.00064	.00038	.00120	.00078	.00173	.00111	.00145	.00161
83	Scrap, Used & Secondhand Goods			.00108		.00015			.00153	
V.A.	Value Added	.47226	.43229	.29708	.46130	.36490	.43435	.56431	.40098	.60877
T.	Total	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000

Dollar of Gross Output, 1963—Continued

[Producers' prices]

Communications; except radio and TV broadcasting	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 except auto	Business services	Automobile repair and services	Amusements	Medical, educational services and non-profit organizations	Federal Government enterprises	State and local government enterprises	Gross imports of goods and services	Business travel, entertainment and gifts	Office supplies	Scrap, used and second-hand goods	Industry No.
66	67	68	69	70	71	72	73	75	76	77	78	79	80	81	82	83	
					0.01144				0.00231	0.00018				0.00462			1
					.01887					.00110				.01378			2
					.00020					(*)		0.00022		.00001			3
		0.00009	0.00141		.00009		(*)					.00008		.00096			4
		.00003	.00001		.00007		0.00001										5
		.02145	.00002		.00012	0.00008	.00001			.00032	0.01141	.01124					6
		.06568	.00006		.00006		.00003					.00533					7
		(*)	.00003		.00018	.00010	.00002					.00024					8
		(*)	(*)		.00004		(*)										9
0.02860		.02997	.00329	0.00332	.08601	.00974	.00086	0.00216	.01051	.02017	.00716	.18068					10
		.00006	.00016		.00002	.00005					.00001	(*)		.00101			11
		.00001	.00007		.00127	.00014	.00004			.00909				.26550			12
			.00003		.00008									.02135		0.00598	13
		.00006	.00012		.00022	.00289	.00009				.00045					.06065	14
(*)		(*)	.00017	(*)	.00004	.00038	(*)	(*)	(*)	.00001	.00065						15
.00032		.00022	.00087		.00043	.00415	.00052			.00008		.00009		.00100		.00560	16
			.00035		.00001	.00566	.00059			.00049	.00109	.00025				.00220	17
		.00007	.00072		.00033							(*)		.00040	0.00005		18
					.00003												19
		(*)	.00019		.00006						.00001						20
.00066	0.00012	.00073	.00049	.00579	.00034	.00315	.00249	.00028	.00015	.00152	.00239	.00310		.00048	.20002	.01494	21
		.00004	.00481		.00008	.00158	.00035			.00005	.00011					.02359	22
.00008	.00041	.00007	.00196	.00891	.00101	.00049	.19631	.00002	.00611	.01375	.00278	.00055		.00122	.57368	.05134	23
.00012	(*)	.00187	.00126	.00003	.00283	.00385	.00314	.00050	.00799	.00143	.00051	.01098		.00010	.00486		24
		.00006	.00036		.00040						.00029						25
		.00001	.00178		.00064	.01632	.00329		(*)	.01806	.00082	.00039		.00667			26
		.00027	.00010		.00010	.00049	.00029	.00684	(*)	(*)	.00002						27
.00635	.00060	.00753	.01126	.00248	.00584	.00945	.00324	.01100	.00230	.00440	.00287	.00767				.00675	28
.00111	.00028	.00019	.00287	.00022	.00080	.00378	.00047	.02154	.00022	.00131	.00154	.00091		.00040	.00486	.00783	29
		(*)	.00002		.00003	.00076				.00001	.00001					.00539	30
		.00019	.00019		.00009	.00074			.00064	.00007	.00007			.00384		.00080	31
		.00032	.00032		.00014	.00003		.00674		.00012	.00005	.00002		.00039	.00013		32
.00001		.00003	.00127	(*)	.00036	.00402	.00030	.00996	(*)	.00008	.00015	.00264		.00026			33
.00050		.00195	.00038		.00031							.00164			.00200	.08863	34
		.00057	.00033		.00017	.00033	.00006									.08861	35
		.00001	.00004		.00007											.00581	36
			.00099		.00058										.00005	.01690	37
			.00042		.00014			.01120		.00007	.00028	.00001			.00007	.02933	38
		.00006	.00093		.00016	.00344	.00035	.00763		.00006	.00005	.00013		.00061	.00314	.01608	39
		.00004	.00013		.00001		.00277	.00303								.00221	40
			.00015		.00008		.00239									.00656	41
			.00039		.00017		.00039									.00854	42
			.00015		.00007						(*)						43
			.00027		.00017							.00007				.00004	44
		(*)	.00044		.00094						(*)						45
.00005		.00001	.00044		.00017						.00001					.00008	46
			.00014	.00001	.00007	.00010	.00005	.01005	.00003	.00004	.00001	.00014				.01259	47
			.00039		.00057		.00841				.00001	(*)			.00412	.00063	48
		.00001	.00030		.00004		.00285				.00007					.01190	49
			.00035		.00032	.00209	.00323	.00147				.00029				.01999	50
.00002	(*)	.00080	.00041		.00019	.00950					.00014			.00473	.00001	.00850	51
			.00052	.00001	.00002	.00052	.00003	.00121	.00002	.00003	.00010	.00282			.00004	.00430	52
.01273	.00301	.00004	.00033		.00016		.00013			.00002		(*)		.00656		.04767	53
.00023	.00001	.00005	.00028		.00017	.02630				.00010	.00003	(*)				.00694	54
.00028	.00001	.00011	.00075	.00006	.00009	.00030	.00078	.01775	.00006	.00014	.00009	.00029				.00133	55
			.00082	.00006	.00043	.00035	.00011	.07783	.00007	.00016	.00140	.00079				.10578	56
			.00089		.00019		.00002			.00002						.01140	57
			.00014		.00020	.00055	.00042				(*)	.00073				.01427	58
		(*)	.00056		.00022	.00016	.00017	(*)		.00711	.00004	.00005		.00128	.00006	.00690	59
.00005	.00077	.00001	.00060	.00008	.00016	.00846	.00466		.01443	.00188	.00007	.00009		.00234	.00786	.03	60
.00124	.00051	.01920	.00156	(*)	.00016	.02075	.01047		.00446	.00141	.00014	.00021		.00686	.13980	.01102	61
.00735	.04437	.00269	.00752	.00134	.00361	.00664	.00212	.00770	.00223	.00350	.01156	.01131		.40877		.04837	62
																	63
.01080	.00995	.18641	.01717	.01765	.00211	.01460	.00055	.00042		.01216	.00156	.00442					64
.00920	.01167	.00559	.01790	.01158	.01496	.02800	.01263	.00654	.01095	.01714	.01775	.00580					65
.00840	.01029	.00730	.01573	.17992	.03113	.01432	.00678	.01518	.01359	.00580	.00254	.01425		.05777		.00329	66
.01866	.02265	.00562	.05320	.04822	.03301	.05601	.03771	.02787	.08126	.09372	.02335	.00693					67
.00032			.00214		.00250	.02572	.00548	.00074	.00085	.00444	.00055	.00027		.12939			68
.01740	.04051	.01661	.04715	.07474	.02011	.02686	.03790	.01066	.04463	.01997	.03419	.00186					69
.00770	.00024	.00149	.00806	.00230	.00157	.00823	.00498	.00339	.00246	.00455	.00274						70
.00015	.26240		.00072	.00002	.00151	.00013	.00316		.19242	.00093	(*)	.00003		.02088			71
.00091	.00078	.00028	.00099	.01063	.00091	.00276	.00141	.00053	.00241	.00937	.00013	.00107		.00667			72
.00478	.00129	.01753	.00984	.01938	.00391	.00271	.01872	.00055	.00362	.00751	.00035	.00092					73
.00055	.00018	.12952	.00372	.00275	.00758	.00062	.00042	.01414	.00028	.00070	.00038	.00038					74
.00290		.00355	.00021	.00430					.01732		.01454			.03217		.22115	75
.00714	.02482	.00380	.00986	.01350	.00101	.01418	.02446	.00447	.02612	.01677	.01028	.00142					76
.00418	.00112	.00084	.00221	.01716	.00052	.00180	.00183	.00044	.00142	.00391	.00083	.00171					77
			.00006					.00222									78
.84721	.55839	.46775	.73332	.55037	.73420	.63942	.48861	.59149	.51456	.69904	.73418	.58739					79
1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000		1.00000	1.00000	1.00000	80
																	V.A.T.

Table 3.—Total Requirements (Direct and Indirect) Per

[Producers' prices]

Industry No.	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 by the industry 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
		1	2	3	4	5	6	7	8	9	10
1	Livestock & Livestock Products.....	1.31963	0.10112	0.11907	0.18536	0.00291	0.00268	0.00239	0.00483	0.00253	0.00193
2	Other Agricultural Products.....	.43481	1.07832	.12999	.39019	.00381	.00314	.00285	.00639	.00222	.00222
3	Forestry & Fishery Products.....	.00141	.00073	1.02090	.00130	.00048	.00134	.00124	.00038	.00038	.00037
4	Agricultural, Forestry & Fishery Services.....	.03898	.04347	.05041	1.01832	.00028	.00029	.00027	.00042	.00024	.00019
5	Iron & Ferroalloy Ores Mining.....	.00074	.00090	.00111	.00153	1.04173	.00375	.00242	.00063	.00233	.00470
6	Nonferrous Metal Ores Mining.....	.00063	.00091	.00083	.00143	.02314	1.21088	.00113	.00051	.00396	.00151
7	Coal Mining.....	.00182	.00156	.00120	.00187	.00653	.00433	1.18698	.00113	.00630	.00472
8	Crude Petroleum & Natural Gas.....	.01799	.02576	.01660	.01405	.01088	.01089	.01162	1.03246	.02066	.01430
9	Stone and Clay Mining and Quarrying.....	.00245	.00167	.00107	.00225	.00447	.00135	.00120	.00142	1.01508	.00900
10	Chemical & Fertilizer Mineral Mining.....	.00180	.00373	.00081	.00174	.00090	.00701	.00090	.00050	.00202	1.04780
11	New Construction.....	.02803	.02957	.00964	.01835	.01665	.01670	.01643	.05321	.01650	.01616
12	Maintenance & Repair Construction.....	.00008	.00007	.00009	.00015	.00012	.00016	.00023	.00011	.00026	.00018
13	Ordinance & Accessories.....	.21689	.02195	.05810	.06081	.00406	.00560	.00466	.00484	.00050	.00442
14	Food & Kindred Products.....	.00021	.00020	.00042	.00043	.00019	.00029	.00026	.00027	.00040	.00020
15	Tobacco Manufactures.....	.00313	.00340	.01341	.00975	.00084	.00152	.00139	.00088	.00279	.00149
16	Broad & Narrow Fabrics, Yarn & Thread Mills.....	.00290	.00326	.04164	.02729	.00062	.00095	.00119	.00055	.00239	.00056
17	Miscellaneous Textile Goods & Floor Coverings.....	.00064	.00047	.00091	.00099	.00035	.00048	.00047	.00034	.00064	.00039
18	Apparel.....	.00228	.00227	.00261	.00195	.00019	.00026	.00028	.00015	.00056	.00021
19	Miscellaneous Fabricated Textile Products.....	.00485	.00562	.00319	.01094	.00468	.01367	.01318	.00365	.00326	.00304
20	Lumber & Wood Products, Except Containers.....	.00229	.00444	.00106	.01007	.00009	.00016	.00015	.00009	.00016	.00010
21	Wooden Containers.....	.00010	.00009	.00021	.00027	.00006	.00010	.00012	.00006	.00009	.00006
22	Household Furniture.....	.00006	.00006	.00006	.00012	.00004	.00005	.00005	.00004	.00006	.00005
23	Other Furniture & Fixtures.....	.01327	.00861	.00856	.03399	.00466	.00571	.00540	.00384	.01086	.00812
24	Paper & Allied Products, Except Containers.....	.00776	.00459	.00615	.00517	.00119	.00181	.00183	.00097	.00280	.00152
25	Paperboard Containers & Boxes.....	.01370	.01342	.00678	.01021	.00976	.00764	.00753	.00646	.00814	.00669
26	Printing & Publishing.....	.03981	.07688	.02055	.03908	.02566	.06130	.02855	.01544	.03461	.04297
27	Chemicals & Selected Chemical Products.....	.00390	.00448	.01021	.00263	.00428	.00494	.00176	.00176	.01020	.00281
28	Plastics & Synthetic Materials.....	.00646	.00227	.00164	.00225	.00090	.00143	.00095	.00078	.00136	.00140
29	Drugs, Cleaning & Toilet Preparations.....	.00197	.00207	.00412	.00207	.00117	.00147	.00145	.00305	.00154	.00132
30	Paints & Allied Products.....	.03544	.05210	.03428	.02758	.01822	.01563	.01827	.01308	.03688	.01929
31	Petroleum Refining & Related Industries.....	.00706	.00757	.00553	.00694	.00797	.01105	.01863	.00343	.04126	.00608
32	Rubber & Miscellaneous Plastics Products.....	.00020	.00016	.00012	.00052	.00007	.00010	.00010	.00006	.00016	.00008
33	Leather Tanning & Industrial Leather Products.....	.00054	.00020	.00026	.00193	.00009	.00012	.00010	.00010	.00017	.00009
34	Footwear & Other Leather Products.....	.00328	.00078	.00195	.00135	.00040	.00053	.00073	.00064	.00076	.00050
35	Glass & Glass Products.....	.00270	.00389	.00223	.00309	.00460	.00370	.00375	.00593	.06772	.00302
36	Stone & Clay Products.....	.01035	.00951	.01917	.02613	.03139	.04617	.04418	.01031	.04014	.04263
37	Primary Iron & Steel Manufacturing.....	.00471	.00535	.00891	.01509	.00672	.01011	.00983	.00470	.01212	.01258
38	Primary Nonferrous Metal Manufacturing.....	.00620	.00228	.01458	.00271	.00057	.00097	.00065	.00058	.00087	.00076
39	Metal Containers.....	.00122	.00128	.00137	.00154	.00131	.00262	.00165	.00354	.00258	.00216
40	Heating, Plumbing & Structural Metal Products.....	.00299	.00134	.00231	.00294	.00143	.00224	.00285	.00097	.00319	.00201
41	Stampings, Screw Machine Products & Bolts.....	.00759	.00730	.01625	.08295	.00404	.00779	.01049	.00358	.00817	.00514
42	Other Fabricated Metal Products.....	.00072	.00104	.00083	.00070	.00816	.01101	.01956	.00195	.02223	.00945
43	Engines & Turbines.....	.00433	.00978	.00139	.00373	.00075	.00095	.00139	.00027	.00113	.00094
44	Farm Machinery & Equipment.....	.00052	.00070	.00039	.00074	.01941	.02570	.04052	.00267	.02671	.02684
45	Construction, Mining & Oil Field Machinery.....	.00032	.00037	.00022	.00045	.00065	.00352	.00094	.00042	.00934	.00770
46	Materials Handling Machinery & Equipment.....	.00068	.00078	.00104	.00187	.00260	.00394	.00559	.00076	.00364	.00252
47	Metalworking Machinery & Equipment.....	.00083	.00111	.00076	.00130	.00065	.00116	.00090	.00053	.00118	.00094
48	Special Industry Machinery & Equipment.....	.00118	.00180	.00173	.00186	.00286	.00462	.00627	.00322	.01734	.00680
49	General Industrial Machinery & Equipment.....	.00087	.00107	.00082	.00094	.00177	.02967	.00750	.00050	.00666	.00443
50	Machine Shop Products.....	.00058	.00067	.00034	.00062	.00058	.00050	.00057	.00044	.00061	.00046
51	Office, Computing & Accounting Machines.....	.00045	.00049	.00035	.00056	.00039	.00046	.00051	.00062	.00072	.00051
52	Service Industry Machines.....	.00109	.00129	.00212	.00164	.00159	.00296	.00613	.00845	.00701	.01005
53	Electric Industrial Equipment & Apparatus.....	.00041	.00043	.00058	.00071	.00035	.00048	.00062	.00069	.00072	.00056
54	Household Appliances.....	.00062	.00062	.02199	.00057	.00060	.00102	.00568	.00084	.00126	.00209
55	Electric Lighting & Wiring Equipment.....	.00052	.00052	.00061	.00070	.00066	.00099	.00106	.00102	.00125	.00084
56	Radio, Television & Communication Equipment.....	.00042	.00041	.00072	.00053	.00048	.00079	.00076	.00193	.00089	.00080
57	Electronic Components & Accessories.....	.00137	.00168	.00240	.00111	.00097	.00115	.00160	.00053	.00213	.00111
58	Miscellaneous Electrical Machinery, Equipment & Supplies.....	.00311	.00302	.00285	.00301	.00504	.00585	.00921	.00204	.01567	.00552
59	Motor Vehicles & Equipment.....	.00071	.00051	.00081	.00132	.00134	.00135	.00166	.00058	.00186	.00131
60	Aircraft & Parts.....	.00067	.00062	.01371	.00069	.00126	.00248	.00535	.00051	.00110	.00157
61	Other Transportation Equipment.....	.00059	.00049	.00102	.00091	.00077	.00139	.00087	.00103	.00104	.00075
62	Scientific & Controlling Instruments.....	.00063	.00061	.00040	.00058	.00046	.00046	.00046	.00040	.00053	.00040
63	Optical, Ophthalmic & Photographic Equipment.....	.00159	.00158	.00169	.00208	.00112	.00209	.00124	.00104	.00167	.00102
64	Miscellaneous Manufacturing.....	.05962	.03203	.05176	.04894	.11195	.04261	.03795	.03689	.04034	.07874
65	Transportation & Warehousing.....	.00910	.00793	.00390	.00621	.00504	.00544	.00531	.00384	.00479	.00801
66	Communications; Except Radio & TV Broadcasting.....	.00271	.00316	.00117	.00199	.00234	.00163	.00165	.00139	.00176	.00143
67	Radio & TV Broadcasting.....	.02165	.02173	.01031	.01695	.03317	.05121	.04521	.02054	.05182	.07896
68	Electric, Gas, Water & Sanitary Services.....	.08091	.05503	.05991	.06494	.03059	.03814	.04167	.02735	.04712	.03670
69	Wholesale & Retail Trade.....	.02567	.02563	.01168	.02038	.01610	.03172	.02278	.02097	.02611	.01822
70	Finance & Insurance.....	.06725	.10152	.02556	.07187	.09630	.04684	.04565	.20300	.03873	.03058
71	Real Estate & Rental.....	.00236	.00182	.00263	.00305	.00157	.00194	.00181	.00200	.00212	.00146
72	Hotels; Personal & Repair Services exc. Auto.....	.04330	.05064	.01877	.03180	.03737	.02606	.02645	.02192	.02814	.02286
73	Business Services.....	.00951	.00885	.00715	.00582	.00375	.00382	.00539	.00543	.01180	.00396
74	Automobile Repair & Services.....	.00145	.00164	.00094	.00136	.00128	.00101	.00100	.00117	.00107	.00083
75	Amusements.....	.01012	.00200	.00147	.00231	.00129	.00168	.00164	.00118	.00106	.00344
76	Medical, Educational Services & Nonprofit Organizations.....	.00394	.00358	.00224	.00323	.00375	.00417	.00367	.00303	.00376	.00567
77	Federal Government Enterprises ¹	.00555	.00497	.00348	.00455	.00859	.00917	.00785	.00571	.00977	.01383
78	State & Local Government Enterprises.....	.03454	.03137	.27063	.02899	.32300	.18303	.01286	.03393	.06975	.14571
79	Gross Imports of Goods & Services.....	.00727	.00658	.01470	.01505	.00638	.00998	.00905	.00868	.01066	.00695
80	Business Travel, Entertainment & Gifts.....	.00134	.00113	.00103	.00136	.00114	.00151	.00145	.00123	.00157	.00129
81	Office Supplies.....										
82											

*Less than 0.000005.

1. To remove a source of instability in the measurement of total requirements per dollar of delivery to final demand, the Commodity Credit Corporation has been excluded from this

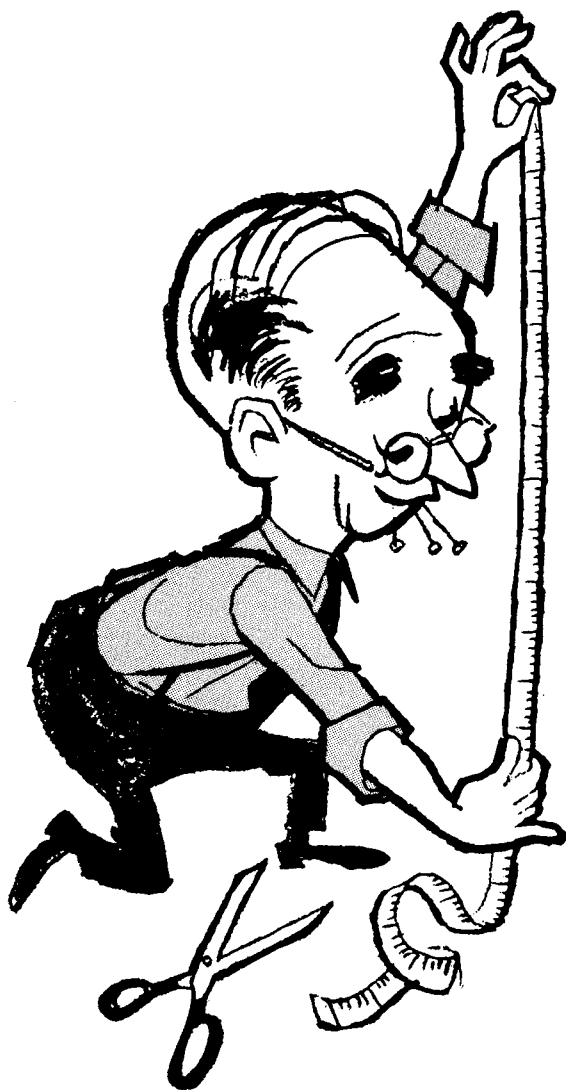
industry. The excluded inputs to the CCC from the specified industries are: Industry 2, \$636 million; Industry 14, \$214 million; Industry 16, \$16 million; Industry 65, \$642 million; Industry 69, \$24 million; and value added, —\$1,531 million.

Table 3.—Total Requirements (Direct and Indirect) Per

Industry No.	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 by the industry named at the head of the column.	[Producers' prices]									
		Electric lighting and wiring equipment	Radio, television and communication equipment	Electronic components and accessories	Miscellaneous electrical machinery, equipment and supplies	Motor vehicles and equipment	Aircraft and parts	Other transportation equipment	Scientific and controlling instruments	Optical, ophthalmic and photographic equipment	Miscellaneous manufacturing
		55	56	57	58	59	60	61	62	63	64
1	Livestock & Livestock Products.....	0.00371	0.00329	0.00384	0.00328	0.00330	.000318	0.00444	0.00594	0.00343	0.00622
2	Other Agricultural Products.....	.00378	.00347	.00383	.00352	.00444	.00322	.00560	.00843	.00351	.01063
3	Forestry & Fishery Products.....	.00081	.00080	.00077	.00063	.00068	.00048	.00488	.00083	.00079	.00445
4	Agricultural, Forestry & Fishery Services.....	.00035	.00032	.00035	.00032	.00036	.00027	.00060	.00056	.00031	.00082
5	Iron & Ferroalloy Ores Mining.....	.00797	.00219	.00318	.00412	.01071	.00358	.01166	.00381	.00198	.00328
6	Nonferrous Metal Ores Mining.....	.01200	.00483	.00738	.01583	.00530	.00760	.00636	.00690	.00517	.00563
7	Coal Mining.....	.00488	.00221	.00318	.00382	.00702	.00292	.00735	.00321	.00368	.00356
8	Crude Petroleum & Natural Gas.....	.01260	.00598	.00811	.00814	.00842	.00707	.00880	.00723	.00793	.00927
9	Stone and Clay Mining and Quarrying.....	.00304	.00104	.00233	.00204	.00214	.00126	.00213	.00148	.00146	.00192
10	Chemical & Fertilizer Mineral Mining.....	.00123	.00064	.00135	.00159	.00093	.00059	.00087	.00091	.00287	.00160
11	New Construction.....										
12	Maintenance & Repair Construction.....	.01098	.00847	.01113	.00950	.01230	.00927	.01205	.01069	.00925	.01206
13	Ordinance & Accessories.....	.00056	.01036	.00118	.00073	.00123	.01868	.00087	.00356	.00398	.00033
14	Food & Kindred Products.....	.00915	.00842	.01027	.00837	.00665	.00865	.00862	.01555	.00915	.01256
15	Tobacco Manufactures.....	.00054	.00056	.00065	.00049	.00035	.00059	.00050	.00071	.00048	.00060
16	Broad & Narrow Fabrics, Yarn & Thread Mills.....	.00456	.00429	.00359	.00587	.01633	.00372	.00957	.02581	.00381	.03234
17	Miscellaneous Textile Goods & Floor Coverings.....	.00532	.00203	.00208	.00341	.01017	.00162	.01142	.00416	.00156	.01325
18	Apparel.....	.00236	.00212	.00274	.00215	.00235	.00209	.00291	.00324	.00160	.00418
19	Miscellaneous Fabricated Textile Products.....	.00063	.00036	.00044	.00098	.01696	.00336	.00521	.00088	.00041	.00206
20	Lumber & Wood Products, Except Containers.....	.00776	.00798	.00706	.00545	.00663	.00437	.05432	.00754	.00640	.04178
21	Wooden Containers.....	.00086	.00085	.00080	.00104	.00065	.00060	.00056	.00095	.00027	.00092
22	Household Furniture.....	.00069	.01735	.00134	.00085	.00042	.00118	.00708	.00229	.00034	.00360
23	Other Furniture & Fixtures.....	.00013	.00027	.00014	.00009	.00022	.00346	.00155	.00023	.00013	.00015
24	Paper & Allied Products, Except Containers.....	.02075	.01584	.03122	.01470	.01044	.00953	.01262	.02139	.04019	.04954
25	Paperboard Containers & Boxes.....	.02531	.00779	.01261	.01338	.00607	.00431	.00501	.01148	.01127	.02585
26	Printing & Publishing.....	.01293	.01663	.01357	.01062	.01145	.01339	.01141	.01996	.01452	.02407
27	Chemicals & Selected Chemical Products.....	.03507	.01922	.04101	.04902	.02556	.01654	.02306	.02693	.00466	.04942
28	Plastics & Synthetic Materials.....	.02229	.01150	.01506	.01965	.01459	.00738	.01283	.01575	.01736	.04787
29	Drugs, Cleaning & Toilet Preparations.....	.00173	.00135	.00182	.00178	.00151	.00146	.00153	.00801	.00246	.00537
30	Paints & Allied Products.....	.00733	.00218	.00300	.00212	.00941	.00265	.00789	.00323	.00157	.01036
31	Petroleum Refining & Related Industries.....	.02257	.00995	.01311	.01312	.01386	.01176	.01450	.01196	.01360	.01610
32	Rubber & Miscellaneous Plastics Products.....	.03632	.01911	.02779	.05216	.04333	.01459	.02285	.03798	.01995	.05547
33	Leather Tanning & Industrial Leather Products.....	.00026	.00022	.00023	.00028	.00031	.00025	.00042	.00070	.00056	.00439
34	Footwear & Other Leather Products.....	.00026	.00027	.00028	.00028	.00027	.00028	.00104	.00104	.00190	.00511
35	Glass & Glass Products.....	.04105	.01084	.03594	.00322	.01608	.00193	.00639	.00729	.01877	.00682
36	Stone & Clay Products.....	.01727	.00437	.01214	.01188	.00833	.00716	.00989	.00675	.00533	.00702
37	Primary Iron & Steel Manufacturing.....	.12107	.04011	.05652	.07255	.21208	.06801	.23114	.07161	.02318	.05011
38	Primary Nonferrous Metal Manufacturing.....	.15345	.06168	.09324	.20429	.06478	.09819	.07868	.08743	.06011	.06942
39	Metal Containers.....	.00155	.00083	.03121	.00116	.00145	.00083	.00127	.00414	.00150	.00201
40	Heating, Plumbing & Structural Metal Products.....	.00940	.00178	.00262	.00227	.00342	.00218	.04579	.00230	.00110	.00200
41	Stamping, Screw Machine Products & Bolts.....	.03410	.02973	.03654	.00179	.05928	.02298	.01503	.02538	.00714	.01834
42	Other Fabricated Metal Products.....	.03304	.02716	.03267	.02353	.05502	.02730	.04379	.03181	.01214	.02482
43	Engines & Turbines.....	.00165	.00119	.00141	.00196	.00865	.00442	.03395	.00168	.00074	.00107
44	Farm Machinery & Equipment.....	.00069	.00056	.00063	.00066	.00190	.00066	.00730	.00093	.00043	.00161
45	Construction, Mining & Oil Field Machinery.....	.00137	.00072	.00106	.00136	.00289	.00177	.00420	.00110	.00066	.00088
46	Materials Handling Machinery & Equipment.....	.00072	.00088	.00272	.00082	.00137	.00168	.00164	.00079	.00058	.00114
47	Metalworking Machinery & Equipment.....	.01278	.01449	.01456	.01673	.02751	.03440	.01225	.02031	.00218	.00235
48	Special Industry Machinery & Equipment.....	.00363	.00142	.00188	.00765	.00209	.00182	.00284	.00277	.00188	.00191
49	General Industrial Machinery & Equipment.....	.00493	.00855	.01259	.01959	.01789	.01332	.05070	.01079	.00221	.00472
50	Machine Shop Products.....	.00341	.00608	.00258	.00628	.02108	.05714	.01164	.00327	.00213	.00186
51	Office, Computing & Accounting Machines.....	.00117	.00491	.00134	.00116	.00185	.00141	.00324	.00162	.00079	.00090
52	Service Industry Machines.....	.00245	.00287	.00246	.00795	.00940	.00143	.00478	.00914	.00333	.01012
53	Electric Industrial Equipment & Apparatus.....	.04017	.03081	.03418	.03652	.00870	.00916	.03747	.03197	.00953	.00894
54	Household Appliances.....	.00515	.00406	.00799	.01455	.00313	.00208	.01183	.00354	.00810	.00428
55	Electric Lighting & Wiring Equipment.....	1.03616	.01769	.02522	.01322	.00828	.00313	.00443	.01046	.00828	.00375
56	Radio, Television & Communication Equipment.....	.00656	1.08689	.06226	.03092	.00734	.06157	.00365	.06420	.00990	.00253
57	Electronic Components & Accessories.....	.01551	.18301	1.06437	.01900	.00553	.02318	.00331	.03174	.01132	.00441
58	Miscellaneous Electrical Machinery, Equipment & Supplies.....	.03459	.00314	.00256	1.04911	.01841	.00456	.00374	.00233	.00104	.00100
59	Motor Vehicles & Equipment.....	.01647	.00468	.00537	.05438	1.50871	.00753	.02624	.01773	.00309	.00469
60	Aircraft & Parts.....	.00156	.02194	.00630	.00227	.00312	1.19862	.00995	.01706	.00406	.00400
61	Other Transportation Equipment.....	.00108	.00077	.00084	.00122	.00136	.00161	1.09317	.00456	.00053	.00399
62	Scientific & Controlling Instruments.....	.00482	.00872	.00778	.01119	.01222	.02296	.00409	1.07973	.00983	.00264
63	Optical, Ophthalmic & Photographic Equipment.....	.00118	.00354	.00338	.00633	.00120	.00477	.00094	.00931	1.04776	.00194
64	Miscellaneous Manufacturing.....	.00331	.00327	.00352	.00312	.00291	.00326	.00583	.01114	.00286	1.08473
65	Transportation & Warehousing.....	.04943	.03081	.03844	.04295	.05742	.03439	.05641	.03877	.03424	.04685
66	Communications; Except Radio & TV Broadcasting.....	.01011	.01308	.01244	.00939	.00906	.01527	.01001	.01561	.01155	.01187
67	Radio & TV Broadcasting.....	.00285	.00308	.00283	.00227	.00290	.00290	.00244	.00444	.00318	.00370
68	Electric, Gas, Water & Sanitary Services.....	.03041	.01922	.02829	.02860	.02814	.02309	.02946	.02347	.02091	.02473
69	Wholesale & Retail Trade.....	.07461	.06138	.06912	.07190	.06784	.04905	.06933	.06845	.05603	.07761
70	Finance & Insurance.....	.01489	.01350	.01588	.01445	.01692	.01396	.01846	.01834	.01376	.01773
71	Real Estate & Rental.....	.02750	.02737	.02795	.02283	.02110	.02101	.02611	.03056	.02636	.03405
72	Hotels; Personal & Repair Services exc. Auto.....	.00407	.00418	.00508	.00390	.00323	.00711	.00413	.00573	.00429	.00453
73	Business Services.....	.04568	.04942	.04549	.03641	.04131	.04647	.03920	.07122	.05107	.05932
74	Automobile Repair & Services.....	.00382	.00380	.00383	.00390	.01743	.00406	.00413	.00410	.00314	.00392
75	Amusements.....	.00172	.00181	.00181	.00143	.00142	.00175	.00152	.00250	.00178	.00203
76	Medical, Educational Services & Nonprofit Organizations.....	.00162	.00228	.00218	.00152	.00128	.00250	.00156	.00220	.00166	.00173
77	Federal Government Enterprises.....	.00463	.00524	.00506	.00417	.00494	.00487	.00471	.00624	.00481	.00652
78	State & Local Government Enterprises.....	.00614	.00409	.00556	.00574	.00618	.00463	.00620	.00501	.00440	.00538
79	Gross Imports of Goods & Services.....	.04924	.04018	.03832	.05609	.03368	.02810	.04869	.03525	.06009	.05596
80	Business Travel, Entertainment & Gifts.....	.01900	.01966	.02282	.01712	.01215	.02077	.01755	.02523	.01697	.01760
81	Office Supplies.....	.00207	.00284	.00272	.00194	.00193	.00266	.00231	.00332	.00218	.00288

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CURRENT BUSINESS STATISTICS

THE STATISTICS here update series published in the 1967 edition of BUSINESS STATISTICS, biennial statistical supplement to the SURVEY OF CURRENT BUSINESS. That volume (price \$2.50) provides a description of each series, references to sources of earlier figures, and historical data as follows: For all series, monthly or quarterly, 1963 through 1966 (1956-66 for major quarterly series), annually, 1939-66; for selected series, monthly or quarterly, 1947-66 (where available). Series added or significantly revised after the 1967 BUSINESS STATISTICS went to press are indicated by an asterisk (*) and a dagger (†), respectively; certain revisions for 1966 issued too late for inclusion in the 1967 volume appear in the monthly SURVEY beginning with the September 1967 issue. Also, unless otherwise noted, revised monthly data for periods not shown herein corresponding to revised annual data are available upon request.

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Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS	1966	1967	1968	1966		1967				1968				1969		
	Annual total			III	IV	I	II	III	IV	I	II	III	IV	I	II	III
	Seasonally adjusted quarterly totals at annual rates															

GENERAL BUSINESS INDICATORS—Quarterly Series

NATIONAL INCOME AND PRODUCT																
Gross national product, total †.....bil. \$.	749.9	793.5	865.7	755.9	770.7	774.2	783.5	800.4	816.1	835.3	858.7	876.4	892.5	908.7	924.8	* 942.8
Personal consumption expenditures, total.....do.....	466.3	492.3	536.6	471.2	474.5	480.9	489.8	495.7	502.6	520.6	530.3	544.9	550.7	562.0	572.8	* 579.8
Durable goods, total.....do.....	70.8	73.0	83.3	71.3	71.9	70.0	73.5	73.3	75.2	79.5	81.8	85.8	86.3	88.4	90.6	* 89.8
Automobiles and parts.....do.....	30.3	30.5	37.0	30.2	30.5	28.4	31.3	30.9	31.2	34.8	35.6	38.6	39.0	39.4	40.0	* 40.8
Furniture and household equipment.....do.....	29.9	31.3	34.2	30.6	30.7	30.7	31.2	31.2	32.2	33.4	33.8	35.0	34.6	35.5	36.8	* 35.8
Nondurable goods, total.....do.....	206.9	215.1	230.6	209.6	209.1	213.2	214.4	215.8	216.8	226.1	228.5	233.3	234.2	238.6	242.1	* 245.1
Clothing and shoes.....do.....	40.3	42.5	46.3	41.1	40.9	41.7	42.6	42.9	42.7	45.0	45.6	47.4	47.3	48.1	50.0	* 50.8
Food and beverages.....do.....	105.8	108.1	115.0	106.7	105.6	107.8	107.6	108.1	108.9	112.6	114.8	116.1	116.4	118.4	119.1	* 119.9
Gasoline and oil.....do.....	16.6	17.7	19.1	16.7	17.0	17.3	17.5	17.9	18.1	18.9	18.8	19.5	19.5	20.4	21.0	* 21.8
Services, total.....do.....	188.6	204.2	222.8	190.2	193.5	197.7	201.8	206.6	210.6	215.1	220.0	225.8	230.1	235.0	240.1	* 244.9
Household operation.....do.....	27.1	29.1	31.2	27.6	27.9	28.2	29.0	29.3	30.1	30.5	30.7	31.6	31.9	32.7	33.1	* 33.9
Housing.....do.....	67.5	71.8	77.4	67.9	69.0	70.1	71.1	72.3	73.7	75.2	76.7	77.9	79.8	81.3	82.8	* 84.4
Transportation.....do.....	13.6	14.7	16.1	13.6	14.1	14.4	14.5	14.8	15.0	15.5	15.9	16.3	16.5	17.1	17.3	* 17.7
Gross private domestic investment, total.....do.....	121.4	116.0	126.3	119.6	126.2	113.6	109.4	117.7	123.3	119.4	126.6	125.2	133.9	135.2	137.4	* 143.3
Fixed investment.....do.....	106.6	108.6	119.0	107.7	106.3	104.7	106.1	109.9	113.8	117.7	116.7	118.0	123.4	128.6	130.5	* 132.5
Nonresidential.....do.....	81.6	83.7	88.8	83.0	84.2	83.3	83.0	83.5	85.0	89.1	86.4	88.1	91.5	95.3	97.8	* 101.1
Structures.....do.....	28.5	27.9	29.3	29.0	28.2	29.0	27.2	27.8	27.8	29.8	28.3	29.0	30.1	32.3	32.1	* 34.7
Producers' durable equipment.....do.....	53.1	55.7	59.5	54.0	56.0	54.2	55.8	55.7	57.2	59.4	58.1	59.1	61.4	63.0	65.7	* 66.4
Residential structures.....do.....	25.0	25.0	30.2	24.7	22.1	21.4	23.1	26.5	28.8	28.6	30.3	29.9	31.9	33.3	32.7	* 31.4
Nonfarm.....do.....	24.5	24.4	29.6	24.2	21.5	20.9	22.5	25.9	28.3	28.0	29.7	29.9	31.4	32.8	32.2	* 30.9
Change in business inventories.....do.....	14.8	7.4	7.3	11.9	19.9	9.0	3.4	7.8	9.5	1.6	9.9	7.2	10.5	6.6	6.9	* 10.7
Nonfarm.....do.....	15.0	6.8	7.4	12.4	20.4	9.1	3.0	7.0	8.0	1.3	10.3	7.5	10.7	6.6	6.7	* 10.3
Net exports of goods and services.....do.....	5.3	5.2	2.5	4.4	4.9	5.4	5.8	5.6	3.8	1.9	3.4	3.6	1.2	1.5	1.6	* 2.7
Exports.....do.....	43.4	46.2	50.6	43.7	44.8	45.8	45.9	46.3	46.7	47.7	50.7	53.4	50.6	47.6	57.1	* 57.8
Imports.....do.....	38.1	41.0	48.1	39.3	39.9	40.4	40.1	40.7	42.8	45.9	47.3	49.7	49.4	46.1	55.5	* 55.2
Govt. purchases of goods and services, total.....do.....	156.3	180.1	200.3	160.7	165.2	174.2	178.5	181.3	186.4	193.4	198.4	202.5	206.7	210.0	212.9	* 217.0
Federal.....do.....	77.8	90.7	99.5	80.5	82.1	87.8	90.3	91.3	93.5	96.3	99.0	100.9	101.9	101.6	100.6	* 103.2
National defense.....do.....	60.7	72.4	78.0	63.3	65.6	69.9	71.9	73.0	74.6	76.1	77.9	78.8	79.3	79.0	78.5	* 80.3
State and local.....do.....	79.0	89.3	100.7	80.1	83.0	86.4	88.1	90.0	92.9	97.1	99.4	101.7	104.8	108.5	112.3	* 113.8
By major type of product: †																
Final sales, total.....do.....	735.1	786.2	858.4	744.0	750.8	765.2	780.2	792.6	806.6	833.6	848.8	869.2	882.0	902.1	917.9	* 932.0
Goods, total.....do.....	368.5	391.0	423.7	373.4	377.2	382.5	392.5	393.3	395.8	412.8	419.3	429.9	433.0	441.3	449.6	* 455.2
Durable goods.....do.....	146.2	157.0	171.4	148.1	151.8	151.9	158.3	157.7	160.0	166.4	168.9	173.7	176.6	181.6	185.5	* 187.8
Nondurable goods.....do.....	222.3	234.1	252.3	225.3	225.4	230.7	234.2	235.5	235.9	246.5	250.4	256.1	256.4	259.7	264.1	* 267.4
Services.....do.....	289.1	316.7	347.5	293.2	298.4	306.4	312.0	320.1	328.4	335.0	343.4	353.2	358.5	365.8	373.4	* 381.6
Structures.....do.....	77.5	78.4	87.1	77.4	75.3	76.3	75.6	79.3	82.4	85.8	86.0	86.1	90.6	94.9	94.8	* 95.3
Change in business inventories.....do.....	14.8	7.4	7.3	11.9	19.9	9.0	3.4	7.8	9.5	1.6	9.9	7.2	10.5	6.6	6.9	* 10.7
Durable goods.....do.....	10.5	3.9	5.3	10.2	13.2	4.2	1.5	4.4	5.6	1.9	6.8	5.1	7.4	4.8	4.9	* 7.6
Nondurable goods.....do.....	4.3	3.5	2.0	1.7	6.7	4.7	1.8	3.4	3.9	- 3	3.1	2.1	3.1	1.8	2.1	* 3.1
GNP in constant (1958) dollars																
Gross national product, total †.....bil. \$.	658.1	674.6	707.6	660.2	668.1	666.5	670.5	678.0	683.5	693.3	705.8	712.8	718.5	723.1	726.7	* 730.6
Personal consumption expenditures, total.....do.....	418.1	430.3	452.6	421.3	420.7	424.4	430.5	431.9	434.3	445.6	449.0	458.2	457.6	462.9	466.2	* 466.5
Durable goods.....do.....	71.7	72.8	80.7	72.3	72.3	70.3	73.9	73.0	73.9	77.7	79.5	83.0	82.7	84.3	85.9	* 84.7
Nondurable goods.....do.....	187.0	190.3	196.9	188.7	187.0	190.2	190.6	190.3	190.2	196.0	195.8	198.7	197.2	199.3	199.3	* 199.3
Services.....do.....	159.4	167.2	175.0	160.2	161.5	163.9	168.1	168.6	170.3	171.8	173.7	178.5	177.7	179.3	181.0	* 182.5
Gross private domestic investment, total.....do.....	109.3	100.8	105.7	107.1	112.5	100.5	95.7	101.6	105.4	101.2	106.6	104.1	110.9	109.9	110.8	* 114.3
Fixed investment.....do.....	95.4	93.9	99.1	96.0	94.0	92.0	92.6	94.3	96.7	99.8	97.6	97.7	101.4	104.0	104.8	* 105.0
Nonresidential.....do.....	74.1	73.6	75.8	75.0	75.4	74.1	73.5	73.1	73.8	77.1	74.0	75.0	77.3	79.4	81.0	* 82.4
Residential structures.....do.....	21.3	20.3	23.3	20.9	18.6	17.9	19.0	21.2	23.0	22.7	23.5	22.7	24.1	24.6	23.8	* 22.6
Change in business inventories.....do.....	13.9	6.9	6.6	11.1	18.5	8.5	3.1	7.4	8.7	1.5	9.0	6.4	9.6	5.9	6.0	* 9.3
Net exports of goods and services.....do.....	4.2	3.6	.9	3.2	3.3	4.0	4.2	4.1	2.0	.9	1.3	1.7	- 2	- 3	- 5	* .4
Govt. purchases of goods and services, total.....do.....	126.5	140.0	148.4	128.7	131.6	137.6	140.1	140.4	141.7	145.6	148.9	148.8	150.2	150.6	150.2	* 149.4
Federal.....do.....	65.4	74.8	78.9	67.3	68.6	72.8	75.1	75.5	75.7	77.3	79.6	79.2	79.4	78.3	76.3	* 75.5
State and local.....do.....	61.1	65.2	69.5	61.4	63.0	64.8	65.0	64.9	66.0	68.3	69.3	69.6	70.8	72.3	73.9	* 73.9

* Revised. † Preliminary. ‡ Revised series. Estimates of national income and product and personal income have been revised back to 1965 (see p. 13 ff. of the July 1969 SURVEY).

revisions prior to May 1968 for personal income appear on p. 26 ff. of the July 1969 SURVEY. § Includes data not shown separately.

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS	1966	1967	1968	1966	1967				1968				1969			
	Annual total			IV	I	II	III	IV	I	II	III	IV	I	II	III	IV

GENERAL BUSINESS INDICATORS—Quarterly Series—Continued

U.S. BALANCE OF INTERNATIONAL PAYMENTS §—Con.																
<i>Quarterly Data Are Seasonally Adjusted</i>																
Transactions in U.S. private assets, net; increase (—).....mil. \$.	-4,311	-5,654	-5,158	-1,192	-1,068	-1,014	-1,775	-1,797	-806	-1,537	-1,868	-947	-1,345	p-1,971	-----	-----
Transactions in U.S. Govt. assets, excl. official reserve assets; increase (—).....mil. \$.	-1,535	-2,419	-2,250	-379	-654	-542	-546	-677	-738	-639	-527	-346	-463	p-624	-----	-----
Transactions in U.S. official reserve assets, net; increase (—).....mil. \$.	568	52	-880	-6	1,027	-419	-375	-181	904	-137	-571	-1,076	-48	p-299	-----	-----
Transactions in foreign assets in the U.S., net (U.S. liabilities); increase (+).....mil. \$.	3,323	6,853	9,277	1,104	335	1,970	2,198	2,350	1,215	2,645	2,515	2,902	3,334	p 4,213	-----	-----
Liquid assets.....do.	789	3,492	712	313	-532	749	1,406	1,869	-340	128	710	214	1,701	p 4,010	-----	-----
Other assets.....do.	2,534	3,361	8,565	791	867	1,221	792	481	1,555	2,517	1,805	2,688	1,633	p 203	-----	-----
Errors and omissions, net.....do.	-490	-1,007	-641	-110	-308	-624	-69	-6	-410	-480	309	-60	-1,239	p-838	-----	-----
Balance on liquidity basis—increase in U.S. official reserve assets and decrease in liquid liabilities to all foreigners; decrease (—).....mil. \$.	-1,357	-3,544	168	-307	-495	-330	-1,031	-1,688	-564	9	-139	862	p-1,668	p-3,850	p-2,533	-----
Balance on official reserve transactions basis—increase in U.S. official reserve assets and decrease in liquid and certain nonliquid liabilities to foreign official agencies; decrease (—).....mil. \$.	266	-3,418	1,638	239	-1,711	-719	-71	-917	-379	1,553	97	367	1,143	p 1,234	p-933	-----

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS	1967	1968	1968				1969							
	Annual	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.

GENERAL BUSINESS INDICATORS—Monthly Series

PERSONAL INCOME, BY SOURCE †																
<i>Seasonally adjusted, at annual rates: †</i>																
Total personal income.....bil. \$.	629.4	687.9	701.1	706.2	711.5	716.0	718.7	723.9	730.7	735.3	740.0	746.1	751.4	757.5	p 760.7	763.1
Wage and salary disbursements, total.....do.	423.5	465.0	474.5	478.2	482.2	485.8	489.3	492.6	497.9	500.8	503.8	508.5	512.8	517.9	p 519.9	521.5
Commodity-producing industries, total.....do.	166.5	181.5	184.6	186.2	187.5	189.6	190.1	190.6	193.8	195.2	196.2	198.3	198.9	201.0	p 201.5	201.6
Manufacturing.....do.	134.2	145.9	148.6	149.6	150.5	151.8	152.4	152.5	154.9	155.8	156.3	157.8	158.5	160.5	p 160.7	160.5
Distributive industries.....do.	100.3	109.2	111.8	112.5	113.5	113.3	114.6	115.6	116.4	117.2	118.3	119.5	120.1	121.4	p 121.8	121.6
Service industries.....do.	70.5	78.3	79.6	80.8	82.0	83.0	84.5	85.6	86.3	86.4	87.0	87.8	88.0	88.8	p 89.4	90.7
Government.....do.	86.2	96.0	98.4	98.7	99.1	99.9	100.1	100.8	101.4	101.9	102.3	102.9	105.9	106.8	p 107.2	107.7
Other labor income.....do.	22.1	24.2	24.7	24.8	25.0	25.1	25.3	25.5	25.6	25.8	25.9	26.1	26.3	26.4	p 26.6	26.8
Proprietors' income:																
Business and professional.....do.	47.2	49.2	49.5	49.5	49.7	49.8	49.5	49.8	49.7	49.8	50.1	50.4	50.5	50.5	p 50.6	50.6
Farm.....do.	14.7	14.6	14.7	14.5	14.3	14.4	14.5	14.9	15.3	15.8	16.4	16.9	16.8	16.8	p 16.8	16.7
Rental income of persons.....do.	20.8	21.2	21.3	21.3	21.4	21.4	21.4	21.5	21.5	21.5	21.6	21.6	21.7	21.7	p 21.7	21.8
Dividends.....do.	21.5	23.1	23.7	23.9	24.0	23.6	23.6	23.8	24.1	24.2	24.3	24.5	24.6	24.8	p 25.1	25.3
Personal interest income.....do.	48.3	54.1	55.4	56.0	56.7	57.3	57.4	57.6	57.9	58.3	58.8	59.2	59.5	59.8	p 60.2	60.6
Transfer payments.....do.	52.0	59.2	60.3	61.2	61.5	62.1	63.0	63.5	64.3	64.7	64.9	65.2	65.7	66.1	p 66.4	66.7
Less personal contributions for social insurance.....bil. \$.	20.6	22.6	23.0	23.2	23.2	23.4	25.3	25.3	25.6	25.7	25.8	26.1	26.4	26.6	p 26.7	26.8
Total nonagricultural income.....do.	609.7	667.9	680.9	686.1	691.5	695.9	698.5	703.1	709.5	713.5	717.7	723.4	728.8	734.9	p 738.1	740.6
FARM INCOME AND MARKETINGS ‡																
<i>Cash receipts from farming, including Government payments, total ‡.....mil. \$.</i>																
Farm marketings and CCC loans, total.....do.	42,693	44,386	4,348	5,318	4,883	4,247	p 3,771	p 2,970	p 3,062	p 3,060	p 3,251	p 3,385	p 3,800	p 3,890	p 4,482	5,617
Crops.....do.	18,401	18,847	2,025	2,767	2,712	2,154	p 1,565	p 951	p 883	p 822	p 818	p 1,070	p 1,417	p 1,543	p 1,904	2,782
Livestock and products, total.....do.	24,292	25,539	2,323	2,551	2,171	2,093	2,206	2,019	2,179	2,238	2,433	2,315	2,383	2,347	p 2,578	2,835
Dairy products.....do.	5,743	5,962	478	495	479	501	514	462	518	524	552	533	518	p 502	p 500	513
Meat animals.....do.	14,534	15,406	1,453	1,652	1,316	1,212	1,309	1,219	1,295	1,356	1,523	1,440	1,453	p 1,446	p 1,667	1,881
Poultry and eggs.....do.	3,645	3,827	375	385	360	352	343	297	332	318	318	315	392	p 381	p 393	421
Indexes of cash receipts from marketings and CCC loans, unadjusted: ‡																
All commodities.....1957-59=100.....do.	132	137	161	197	181	157	p 140	p 110	p 113	p 113	p 120	p 125	p 141	p 144	p 166	208
Crops.....do.	133	136	175	240	235	187	p 136	p 82	p 76	p 71	p 71	p 93	p 123	p 134	p 165	241
Livestock and products.....do.	131	138	151	165	141	136	143	131	141	145	158	150	154	p 152	p 167	184
Indexes of volume of farm marketings, unadjusted: ‡																
All commodities.....1957-59=100.....do.	123	126	147	186	170	150	p 129	p 95	p 94	p 92	p 95	p 104	p 123	p 125	p 142	185
Crops.....do.	124	130	168	234	229	191	p 139	p 75	p 61	p 53	p 52	p 84	p 126	p 130	p 155	235
Livestock and products.....do.	123	124	132	150	126	119	122	p 110	118	121	127	119	122	p 121	p 133	148
INDUSTRIAL PRODUCTION ¶																
<i>Federal Reserve Index of Quantity Output</i>																
Unadj., total index (incl. utilities) ¶.....1957-59=100.....do.	158.1	165.3	169.5	170.7	169.1	166.3	166.5	170.5	173.1	171.9	172.4	176.7	p 167.7	p 174.2	p 178.5	178.0
By industry groupings:																
Manufacturing, total.....do.	159.7	166.8	170.7	173.4	171.4	167.5	167.0	172.1	175.1	173.7	174.4	178.5	p 167.3	p 174.3	p 179.5	179.9
Durable manufactures.....do.	163.7	169.8	170.6	173.5	174.2	172.6	171.4	175.3	178.6	177.7	178.3	182.2	p 169.7	p 173.6	p 181.1	181.8
Nondurable manufactures.....do.	154.6	163.0	170.8	173.3	168.0	161.2	161.4	168.0	170.8	168.6	169.5	173.9	p 164.3	p 175.3	p 177.6	177.5
Mining.....do.	123.8	126.4	128.6	122.8	126.8	126.3	124.1	124.2	125.4	130.2	132.9	134.6	p 127.9	p 132.3	p 132.0	132.6
Utilities.....do.	184.9	202.1														
By market groupings:																
Final products, total.....do.	158.3	164.9	171.9	172.6	169.2	165.6	166.6	169.3	171.9	168.6	168.4	174.0	p 165.4	p 172.4	p 178.3	177.3
Consumer goods.....do.	148.5	156.6	165.9	167.5	161.7	155.8	158.9	161.8	163.9	159.0	158.2	165.5	p 156.5	p 164.9	p 171.4	169.4
Automotive and home goods.....do.	159.0	175.0	178.5	192.7	191.2	181.5	183.9	186.0	189.1	183.0	182.1	191.1	p 155.7	p 159.9	p 185.5	190
Apparel and staples.....do.	145.1	150.8	161.9	159.5	152.3	147.6	150.9	154.1	156.0	151.4	150.5	157.3	p 156.8	p 166.5		
Equipment, including defense.....do.	179.4	182.6	184.6	183.6	185.4	186.6	183.1	185.4	189.0	189.1	190.4	192.4	p 187.7	p 188.5	p 193.2	194.3
Materials.....do.	157.8	165.7	167.5	169.0	169.5	166.9	166.4	171.5	174.3	174.8	176.1	179.2	p 168.8	p 175.9	p 178.7	179.3
Durable goods materials.....do.	151.9	157.8	157.4	158.9	159.6	158.2	157.0	162.8	165.9	166.4	167.4	171.6	p 160.5	p 166.3	p 170.1	170
Nondurable materials.....do.	163.9	173.7	177.9	179.3	179.6	176.0	176.2	180.6	182.8	183.4	185.0	187.0	p 177.3	p 185.7	p 187.7	189

¶ Revised. ¶ Preliminary. § See note marked "§" on p. S-2. † See corresponding note on p. S-1. ‡ Series revised beginning 1960 (Alaska and Hawaii are included in dollar figures beginning 1960 and in the indexes from 1966 only); available monthly data prior to May 1968 may be obtained from the U.S. Dept. of Agriculture, Economic Research Service.

§ Revisions for 1966 appear on p. 20 of the Nov. 1967 SURVEY; those for Jan.-Aug. 1967 will be shown later. ¶ Includes data for items not shown separately.

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS	1967	1968	1968				1969									
	Annual		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
CONSTRUCTION AND REAL ESTATE—Continued																
HOUSING STARTS AND PERMITS																
New housing units started:																
Unadjusted:																
Total, incl. farm (private and public).....thous.	1,321.9	1,547.7	139.8	143.3	129.5	99.8	105.8	94.8	135.6	159.9	157.7	150.8	126.5	127.6	* 132.1	121.1
One-family structures.....do	844.9	900.7	80.3	85.6	65.1	53.9	51.3	48.0	72.0	85.0	91.4	82.9	* 73.6	* 69.3	* 70.7	
Privately owned.....do	1,291.6	1,507.7	134.3	140.8	127.1	96.4	101.5	90.1	131.9	159.0	155.5	147.3	125.2	124.9	* 128.6	118.7
Total nonfarm (private and public).....do	1,298.8	1,523.6	138.0	140.6	127.5	98.9	104.5	93.9	134.4	158.3	156.1	148.3	124.3	126.2	* 130.4	119.8
In metropolitan areas.....do	919.7	1,117.6	103.0	100.8	96.8	75.1	80.9	73.3	102.0	117.8	114.5	109.0	* 90.7	* 91.4	* 92.2	
Privately owned.....do	1,268.4	1,483.6	132.4	138.1	125.1	95.5	100.2	89.2	130.6	157.4	154.0	144.8	122.9	* 123.5	* 126.9	117.4
Seasonally adjusted at annual rates:																
Total, including farm (private only).....do			1,592	1,570	1,733	1,507	1,878	1,686	1,584	1,563	1,509	1,469	1,371	* 1,384	* 1,533	1,342
Total nonfarm (private only).....do			1,570	1,541	1,705	1,492	1,845	1,664	1,567	1,548	1,495	1,446	1,349	* 1,370	* 1,513	1,329
New private housing units authorized by building permits (13,000 permit-issuing places):†																
Seasonally adjusted at annual rates:																
Total.....thous.	1,141	1,341	1,393	1,378	1,425	1,463	1,403	1,477	1,421	1,502	1,323	1,340	1,228	1,245	* 1,201	1,119
One-family structures.....do	651	689	706	694	729	736	671	685	670	659	632	631	570	570	* 565	563
CONSTRUCTION COST INDEXES																
Dept. of Commerce composite†.....1957-59=100	125	131	133	135	135	136	137	137	138	139	139	141	142	* 143	143	-----
American Appraisal Co., The:																
Average, 30 cities.....1913=100	909	970	992	994	997	1,007	1,015	1,026	1,032	1,034	1,040	1,046	1,059	1,061	1,065	-----
Atlanta.....do	992	1,072	1,087	1,110	1,110	1,111	1,125	1,138	1,151	1,154	1,148	1,137	1,161	1,176	1,179	-----
New York.....do	1,008	1,070	1,092	1,093	1,099	1,099	1,105	1,113	1,117	1,116	1,109	1,104	1,106	1,105	1,106	-----
San Francisco.....do	910	966	980	980	1,001	1,013	1,035	1,047	1,057	1,047	1,048	1,032	1,062	1,062	1,063	-----
St. Louis.....do	903	953	969	969	969	971	978	990	996	1,001	997	1,019	1,019	1,035	1,054	-----
Associated General Contractors of America, Inc., The (building only).....1957-59=100	132	139	142	142	143	143	145	146	146	147	148	151	153	153	153	153
E. H. Boeckh and Associates, Inc.: ‡																
Average, 20 cities:																
All types combined.....1957-59=100	129.8	-----	142.1	142.2	142.3	-----	-----	146.2	147.5	146.9	147.3	149.7	150.8	151.9	151.8	-----
Apartment, hotels, office buildings.....do	130.7	139.9	143.1	143.3	143.4	144.1	146.3	148.0	149.2	148.4	149.0	151.5	153.0	154.5	154.4	-----
Commercial and factory buildings.....do	130.2	139.1	142.2	142.4	142.4	143.1	144.5	145.7	146.9	146.2	146.5	148.9	150.3	151.0	151.0	-----
Residences.....do	127.4	136.7	140.1	140.3	140.3	141.1	143.2	144.9	146.4	146.3	146.7	149.0	148.9	150.4	149.8	-----
Engineering News-Record:†																
Building.....do	127.4	136.8	140.7	141.6	141.7	143.2	145.0	146.2	147.9	149.9	150.1	151.5	150.3	151.6	151.0	* 151.3
Construction.....do	140.8	151.9	155.8	156.5	156.7	158.0	160.0	161.8	162.9	164.3	165.6	169.1	168.8	170.0	169.1	* 171.0
Bu. of Public Roads—Highway construction: Composite (avg. for year or qtr.).....1957-59=100	117.6	121.6	119.5	-----	-----	132.3	-----	-----	123.5	-----	-----	* 130.3	-----	-----	136.3	-----
CONSTRUCTION MATERIALS																
Output index:																
Composite, unadjusted ‡.....1947-49=100	153.2	165.8	169.9	182.8	154.0	143.1	146.8	149.6	170.5	178.8	181.0	177.0	* 169.2	-----	-----	-----
Seasonally adjusted.....do	-----	-----	162.7	161.1	161.3	167.1	156.5	169.3	176.4	175.9	168.9	165.6	* 175.0	-----	-----	-----
Iron and steel products, unadjusted.....do	163.0	171.1	159.1	159.6	145.2	139.5	143.0	148.8	178.5	180.9	186.4	180.9	* 170.9	168.5	-----	-----
Lumber and wood products, unadj.....do	149.6	168.1	173.0	188.8	163.4	157.8	162.7	160.3	178.3	179.8	175.3	161.6	* 157.2	156.4	-----	-----
Portland cement, unadjusted.....do	186.6	198.1	238.4	272.6	185.2	136.1	114.2	120.2	156.2	207.3	236.0	245.4	* 253.4	257.2	-----	-----
REAL ESTATE																
Mortgage applications for new home construction: Applications for FHA commitments.....thous. units	167.2	168.9	14.0	17.1	13.6	12.3	12.4	13.8	16.0	16.8	15.4	16.1	15.2	14.5	16.7	19.9
Seasonally adjusted annual rates†.....do	-----	-----	169	199	212	187	178	168	160	165	167	174	174	169	192	230
Requests for VA appraisals.....do	124.3	131.7	10.4	12.7	11.4	9.0	10.1	9.9	12.2	12.2	11.5	11.4	13.6	13.0	11.1	11.5
Seasonally adjusted annual rates†.....do	-----	-----	125	147	172	136	148	132	136	124	122	126	145	151	127	131
Home mortgages insured or guaranteed by—																
Fed. Hous. Adm.: Face amount.....mil. \$	5,884.64	6,495.94	588.18	707.37	598.76	525.34	608.39	494.04	491.60	541.22	519.70	595.38	657.56	630.40	714.28	-----
Vet. Adm.: Face amount†.....do	3,404.87	3,773.88	322.30	359.54	376.98	365.50	369.83	295.68	329.04	301.30	323.09	308.13	355.55	384.56	363.55	397.44
Federal Home Loan Banks, outstanding advances to member institutions, end of period.....mil. \$	4,386	5,259	5,026	5,035	5,040	5,259	5,357	5,298	5,331	5,764	5,971	6,413	7,053	7,544	7,940	7,705
New mortgage loans of all savings and loan associations, estimated total†.....mil. \$	20,122	21,983	1,840	1,949	1,724	1,886	1,592	1,580	1,870	2,073	2,146	2,415	1,974	1,918	1,725	-----
By purpose of loan:†																
Home construction.....do	4,243	4,916	396	466	392	407	348	364	440	485	482	495	421	* 393	374	-----
Home purchase.....do	9,604	11,215	984	995	868	869	783	767	896	1,023	1,113	1,345	1,091	1,089	942	-----
All other purposes.....do	6,275	5,852	460	488	464	610	461	449	534	565	551	575	462	* 436	409	-----
Foreclosures†.....number	134,203	110,404	8,460	8,827	8,264	7,971	8,292	7,503	8,443	8,321	8,476	8,103	-----	-----	-----	-----
Fire losses (on bldgs., contents, etc.).....mil. \$	1,706.72	1,829.92	131.69	134.80	134.21	156.08	179.47	149.12	173.91	169.91	157.52	164.57	148.21	172.14	154.89	-----

DOMESTIC TRADE

ADVERTISING																
Marketing/Communications advertising index, seasonally adjusted:⊕																
Combined index.....1957-59=100	149	155	152	164	161	162	162	159	163	-----	-----	-----	-----	-----	-----	-----
Business papers.....do	128	131	122	128	128	125	128	130	139	-----	-----	-----	-----	-----	-----	-----
Magazines.....do	157	162	169	175	170	172	163	163	164	-----	-----	-----	-----	-----	-----	-----
Newspapers.....do	117	124	125	127	132	135	134	132	133	-----	-----	-----	-----	-----	-----	-----
Outdoor.....do	96	106	111	125	92	113	110	79	117	-----	-----	-----	-----	-----	-----	-----
Radio (network).....do	118	130	133	146	123	139	117	116	99	-----	-----	-----	-----	-----	-----	-----
Television (network).....do	206	213	195	233	225	224	231	226	227	-----	-----	-----	-----	-----	-----	-----

* Revised. † Index as of Nov. 1, 1969: Building, 151.9; construction, 171.7.

‡ Revisions for Jan.-Aug. 1967 for new private housing units authorized; for 1965-May 1967 for Dept. of Commerce composite; for July-Dec. 1966 for ENR building and construction cost indexes; for 1960-66 (seas. adj.) for FHA applications and VA appraisals; and for Jan. 1961-Dec. 1967 for new mortgage loans will be shown later.

⊕ Copyrighted data; see last paragraph of headnote, p. S-1.

⊙ Includes data for items not shown separately. § Data include guaranteed direct loans sold.

† Revised series. Data are based on a new benchmark (1967) and reflect improved reporting, as well as the inclusion of farm foreclosures and data for Alaska and Hawaii. Jan. 1967-April 1968 data will be shown later.

⊕ Formerly Printer's Ink advertising index.

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS

	1967	1968	1968				1969									
	Annual		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.

TRANSPORTATION AND COMMUNICATION—Continued

TRANSPORTATION—Continued																
Motor Carriers (Intercity)—Continued																
Freight carried, volume indexes, class I and II (ATA):																
Common and contract carriers of property (qtrly.).....average same period, 1957-59=100..	160.2	175.2	174.3			166.6			177.5							
Common carriers of general freight, seas. adj. 1957-59=100..	152.8	165.7	166.4	169.5	165.3	166.4	169.0	172.4	171.0	171.9	173.8	173.3	177.8			
Carriers of passengers, class I (qtrly.):																
Number of reporting carriers.....	1 159	1 159	163			159		8 72	7 72							
Operating revenues, total.....mil. \$..	660.2	685.7	210.3			164.1		8 131.1	7 136.0							
Expenses, total.....do.....	582.7	604.8	166.4			150.1		8 129.6	7 133.9							
Passengers carried (revenue).....mil. \$..	220.6	217.4	60.1			52.5		8 41.8	7 39.1							
Class I Railroads																
Financial operations (qtrly.):																
Operating revenues, total.....mil. \$..	10,377	10,855	2,707			2,781			2,741			2,916			2 2,836	
Freight.....do.....	9,141	9,750	2,419			2,500			2,481			2,636				
Passenger.....do.....	485	444	122			106			103			111				
Operating expenses.....do.....	8,211	8,579	2,173			2,196			2,175			2,249			2 2,274	
Tax accruals and rents.....do.....	1,488	1,596	394			401			423			455			2 423	
Net railway operating income.....do.....	678	680	140			183			142			212			2 140	
Net income (after taxes).....do.....	4 319	5 568	108			174			98			173			2 106	
Operating results:																
Ton-miles of freight (net), revenue and nonrevenue (qtrly.).....bill.....	731.6	5 759.1	187.0			192.4			187.4			200.2				
Revenue ton-miles.....do.....	5 719.4	5 744.5	183.6			188.0			184.6			196.5	2 53.7	2 75.2	2 60.3	2 64.0
Revenue per ton-mile (qtrly. avg.).....cents.....	1.269	1.310	1.317			1.330			1.341			1.341				
Passengers (revenue) carried 1 mile (qtrly.).....mil. \$..	15,201	13,120	3,666			3,006			2,851			3,090				
Travel																
Hotels:																
Average sale per occupied room.....dollars.....	10.59	11.35	11.85	12.31	12.03	10.70	11.80	11.80	11.32	12.80	12.03	12.90	11.59	13.09	13.04	
Rooms occupied.....% of total.....	61	61	63	72	57	47	56	62	63	64	63	61	57	60	60	
Restaurant sales index.....same mo. 1951=100.....	115	118	122	118	110	113	106	119	128	122	138	126	119	118	122	
Foreign travel:																
U.S. citizens: Arrivals.....thous.....	4,387	5,021	485	371	314	339	391	353	426	460	455	523	671	868		
Departures.....do.....	4,334	4,820	367	310	294	354	354	363	424	427	478	695	772	636		
Allies: Arrivals.....do.....	2,773	3,084	352	272	218	236	251	203	252	264	306	304	403	415		
Departures.....do.....	2,358	2,613	264	250	200	238	179	157	198	212	251	287	315	354		
Passports issued and renewed.....do.....	1,686	1,748	8 93	83	67	75	104	122	167	229	229	267	194	137	107	94
National parks, visits.....do.....	39,538	42,392	4,176	2,725	1,412	904	788	858	1,277	1,906	2,976	6,176				
Pullman Co. (qtrly.):																
Passenger-miles (revenue).....mil. \$..	1,434	1,002	279			207										
Passenger revenues.....mil. \$..	24.57	16.91	4.62			3.57										
COMMUNICATION (QTRLY.)																
Telephone carriers:																
Operating revenues.....mil. \$..	13,847	15,068	3,796			3,938			4,022			4,133				
Station revenues.....do.....	7,090	7,578	1,895			1,960			1,993			2,038				
Tolls, message.....do.....	5,170	5,693	1,447			1,499			1,538			1,607				
Operating expenses (excluding taxes).....do.....	8,319	9,020	2,275			2,397			2,404			2,512				
Net operating income (after taxes).....do.....	2,458	2,553	643			664			674			700				
Phones in service, end of period.....mil. \$..	90.2	95.1	93.6			95.1			96.4			97.4				
Telegraph carriers:																
Domestic:																
Operating revenues.....mil. \$..	335.0	358.2	89.3			91.9			93.5			97.8				
Operating expenses.....do.....	291.9	309.5	79.7			77.6			78.2			82.7				
Net operating revenues (before income taxes).....mil. \$..	24.2	29.6	5.4			10.6			9.7			9.7				
International:																
Operating revenues.....do.....	132.3	153.4	39.0			41.7			41.3			44.7				
Operating expenses.....do.....	101.4	116.1	29.1			32.3			30.4			32.5				
Net operating revenues (before income taxes).....mil. \$..	26.2	30.6	8.2			7.4			9.0			10.4				

CHEMICALS AND ALLIED PRODUCTS

CHEMICALS																
Inorganic chemicals, production:																
Acetylene.....mil. cu. ft.....	14,269	14,877	1,174	1,275	1,208	1,263	1,272	1,151	1,249	1,160	1,187	1,131	1,153	1,140		
Ammonia, synthetic anhydrous.....thous. sh. tons.....	12,200.2	12,093.0	949.0	951.2	942.0	986.3	887.0	991.2	1,050.2	1,083.3	1,136.8	1,140.9	1,092.8	1,007.1	1,021.2	
Carbon dioxide, liquid, gas, and solid.....do.....	1,085.3	1,047.8	92.5	88.8	91.7	85.2	80.0	76.6	86.5	85.2	91.6	98.6	111.1	108.7		
Chlorine, gas (100% Cl ₂).....do.....	7,679.9	8,428.4	701.2	735.4	722.5	766.1	731.8	711.3	768.7	776.5	807.4	783.0	803.4	818.3		
Hydrochloric acid (100% HCl).....do.....	1,625.1	1,735.3	149.9	157.9	156.2	150.3	149.4	147.7	163.8	156.7	159.8	154.0	155.1	153.7		
Nitric acid (100% HNO ₃).....do.....	6,264.6	6,134.9	488.6	496.1	487.0	550.2	500.9	503.5	572.8	541.8	549.5	495.9	464.5	479.6	495.3	
Oxygen (high purity).....mil. cu. ft.....	243,401	248,250	18,297	19,345	20,291	21,316	21,667	20,827	23,030	22,808	23,582	21,263	21,952	22,732		
Phosphoric acid (100% P ₂ O ₅).....thous. sh. tons.....	5,188.9	4,926.2	406.9	415.7	403.1	410.9	394.0	380.5	420.1	450.1	447.8	393.0	345.1	379.7	403.9	
Sodium carbonate (soda ash), synthetic (58% Na ₂ O).....thous. sh. tons.....	4,848.9	4,552.6	363.2	402.1	363.6	396.6	333.1	335.5	385.1	370.2	383.3	392.5	379.6	374.9		
Sodium bichromate and chromate.....do.....	135.3	145.1	11.7	12.4	12.0	13.7	11.3	11.1	13.1	13.3	12.1	12.9	12.0	12.4		
Sodium hydroxide (100% NaOH).....do.....	7,923.7	8,799.4	736.4	777.2	766.7	792.6	760.2	721.9	770.8	815.5	811.5	797.8	803.4	825.8		
Sodium silicate, anhydrous.....thous. sh. tons.....	612.6	632.2	47.8	62.2	63.8	61.2	46.5	46.3	56.6	62.7	62.8	52.5	41.9	50.5		
Sodium sulfate, anhydrous.....thous. sh. tons.....	1,364.0	1,471.7	121.7	129.0	120.7	125.3	130.2	117.8	134.1	133.0	124.2	116.2	112.6	113.2		
Sulfuric acid (100% H ₂ SO ₄).....do.....	28,815.2	28,382.5	2,294.6	2,365.0	2,357.0	2,524.4	2,317.0	2,238.9	2,405.8	2,509.7	2,559.1	2,337.5	2,178.3	2,252.5	2,273.7	

* Revised. * Preliminary. * Number of carriers filing complete reports for the year.
 * Preliminary estimate by Association of American Railroads. * Data cover 5 weeks;
 other months, 4 weeks. * Reflects adjustment for extraordinary items.
 * Annual total reflects revisions not distributed to the monthly or quarterly data. * Effective Aug. 26, 1968, passports are issued for 5 years; no renewals are made.

* Beginning with 1st quarter 1969 reporting period, motor carriers are designated class 1 if they have gross operating revenues of \$1 million or over, annually; prior to 1969, class 1 carriers were those having annual operating revenues of \$200,000 or over. * For 1st quarter 1968 comparable with data for 1st quarter 1969.

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS	1967	1968	1968				1969									
	Annual		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
ELECTRIC POWER AND GAS—Continued																
ELECTRIC POWER—Continued																
Sales to ultimate customers, total (EEI) mil. kw.-hr.	1,107,023	1,202,321	106,260	100,515	98,673	103,027	109,412	105,894	105,614	102,255	100,883	105,615	113,510	118,124		
Commercial and industrial:																
Small light and power	242,492	265,151	24,832	22,762	21,510	21,742	22,533	22,009	21,852	21,502	22,016	24,145	26,473	27,370		
Large light and power	486,043	518,834	44,166	44,678	44,115	44,146	44,410	43,557	44,988	45,344	46,251	47,157	46,547	48,022		
Railways and railroads	4,572	4,540	351	361	372	436	431	401	421	366	360	328	348	348		
Residential or domestic	331,525	367,692	32,967	28,687	28,704	32,608	37,778	35,650	34,244	31,057	28,231	29,859	35,934	38,103		
Street and highway lighting	9,863	110,302	842	903	941	997	995	925	905	850	816	794	809	821		
Other public authorities	29,426	132,162	2,772	2,787	2,696	2,830	2,953	3,048	2,891	2,823	2,859	2,976	3,016	3,073		
Interdepartmental	3,102	13,640	331	337	335	268	312	303	314	313	350	356	384	385		
Revenue from sales to ultimate customers (Edison Electric Institute) mil. \$	17,222.7	18,579.9	1,656.3	1,559.8	1,524.0	1,580.1	1,664.1	1,624.1	1,605.0	1,566.7	1,554.1	1,632.3	1,762.3	1,830.9		
GAS																
Manufactured and mixed gas:																
Customers, end of period, total	666	580	574			580			581			576				
Residential	624	543	539			543			544			539				
Industrial and commercial	41	36	35			36			36			35				
Sales to consumers, total mil. therms	1,437	1,461	163			362			607			325				
Residential	829	822	63			196			374			171				
Industrial and commercial	589	615	98			159			222			147				
Revenue from sales to consumers, total mil. \$	131.4	128.8	14.8			30.7			51.3			28.6				
Residential	84.5	81.2	7.7			19.0			34.1			17.4				
Industrial and commercial	45.3	45.7	7.0			11.2			16.3			10.7				
Natural gas:																
Customers, end of period, total	39,034	39,894	38,962			39,894			39,974			39,846				
Residential	35,836	36,619	35,834			36,619			36,692			36,622				
Industrial and commercial	3,152	3,277	3,082			3,277			3,284			3,178				
Sales to consumers, total mil. therms	133,424	144,258	26,950			36,586			50,357			35,251				
Residential	42,811	44,546	3,821			11,111			21,623			9,534				
Industrial and commercial	85,321	93,350	21,519			23,864			27,170			24,465				
Revenue from sales to consumers, total mil. \$	8,124.4	8,623.6	1,339.9			2,207.7			3,399.1			2,072.9				
Residential	4,294.9	4,450.3	502.2			1,126.8			2,002.6			1,014.0				
Industrial and commercial	3,637.9	3,949.3	787.5			1,021.2			1,331.5			1,013.8				
FOOD AND KINDRED PRODUCTS; TOBACCO																
ALCOHOLIC BEVERAGES																
Beer:																
Production	116.55	122.41	9.86	10.10	8.46	8.90	8.99	8.82	10.98	11.43	11.28	10.17	13.09	11.98		
Taxable withdrawals	106.97	112.41	9.11	9.28	8.26	8.48	7.88	7.66	9.40	10.06	10.25	9.15	11.96	11.44		
Stocks, end of period	10.77	11.56	12.54	12.48	11.92	11.56	11.91	12.33	13.00	13.37	13.36	13.57	13.55	13.12		
Distilled spirits (total):																
Production	211.77	238.33	19.36	24.32	22.26	21.24	21.06	19.69	21.97	21.66	18.84	17.79	15.17	12.01		
Consumption, apparent, for beverage purposes																
mil. wine gal.	324.81	345.49	27.35	30.94	34.14	41.14	24.31	24.25	28.79	28.79	30.80	30.46	29.59	28.41		
Taxable withdrawals	148.20	147.59	14.29	15.75	12.85	11.47	11.31	10.87	13.99	13.35	12.93	14.51	14.31	13.90		
Stocks, end of period	904.58	956.44	940.45	944.52	950.02	956.44	962.90	968.43	973.27	978.71	981.91	984.51	983.82	979.91		
Imports	68.17	75.45	6.80	9.23	7.90	8.14	5.59	4.67	6.02	6.48	6.67	6.94	6.83	5.81	6.73	
Whisky:																
Production	153.78	178.05	13.28	17.66	16.41	15.24	17.01	16.10	17.10	17.25	14.37	12.07	10.65	7.71		
Taxable withdrawals	97.02	95.27	9.45	11.07	8.76	7.31	7.39	7.44	9.22	8.84	7.86	9.05	9.02	8.38		
Stocks, end of period	856.66	904.35	893.39	895.98	899.65	904.35	911.26	917.26	921.92	927.80	932.30	933.75	934.02	931.47		
Imports	59.70	66.50	5.92	8.13	7.00	7.29	4.87	4.16	5.37	5.51	5.75	6.03	6.02	5.10	5.89	
Rectified spirits and wines, production, total																
mil. proof gal.	108.26	110.55	10.43	12.85	10.40	8.53	8.67	8.26	10.39	9.74	9.95	11.00	10.38	9.09		
Whisky	67.31	66.71	6.37	8.26	6.73	4.87	4.84	5.17	6.17	5.60	5.49	6.57	6.52	5.27		
Wines and distilling materials:																
Effervescent wines:																
Production	10.19	12.17	.95	1.07	1.16	1.26	1.13	1.12	1.23	1.17	1.04	1.25	.96	1.40		
Taxable withdrawals	8.75	10.29	1.06	1.28	1.26	1.27	.70	.56	1.05	.77	.87	1.12	.73	1.19		
Stocks, end of period	4.30	5.25	5.85	5.54	5.38	5.25	5.60	6.10	6.23	6.51	6.51	6.56	6.70	6.77		
Imports	1.92	2.23	.18	.26	.27	.22	.18	.10	.13	.18	.22	.24	.17	.14	.15	
Still wines:																
Production	217.46	221.55	72.54	93.68	20.75	5.51	3.63	2.93	3.75	2.92	2.48	2.49	1.99	8.03		
Taxable withdrawals	175.27	181.18	14.76	18.01	16.44	16.00	14.95	15.28	20.06	15.89	15.59	16.03	12.86	16.88		
Stocks, end of period	272.02	268.30	221.09	290.02	286.82	268.30	255.91	242.63	224.83	211.75	197.08	180.78	169.98	158.76		
Imports	17.46	19.98	2.22	1.78	1.54	1.68	.75	.84	1.19	1.91	2.34	2.31	2.01	1.71	1.75	
Distilling materials produced at wineries	362.71	367.65	125.32	126.37	28.99	16.92	7.15	4.11	4.69	2.16	3.00	2.13	2.74	19.67		
DAIRY PRODUCTS																
Butter, creamery:																
Production (factory)	1,224.9	1,164.8	69.1	78.3	78.4	93.4	106.6	95.7	104.7	109.6	116.1	111.1	93.5	77.2	67.6	
Stocks, cold storage, end of period	168.6	117.4	196.5	161.9	137.4	117.4	104.5	115.1	121.4	134.5	162.6	195.3	198.0	185.6	155.3	125.9
Price, wholesale, 92-score (N.Y.)	.675	.678	.691	.686	.680	.690	.674	.673	.673	.683	.684	.684	.688	.704		
Cheese:																
Production (factory), total	1,918.8	1,943.9	145.8	146.7	135.0	145.8	147.4	139.7	163.2	174.2	197.6	201.8	181.0	170.0	156.4	
American, whole milk	1,276.3	1,276.3	93.3	89.7	81.1	86.3	90.7	87.3	101.3	113.2	135.6	140.6	124.1	111.8	98.4	
Stocks, cold storage, end of period	390.3	381.0	447.3	415.5	398.0	381.0	357.7	328.5	317.8	315.7	337.5	367.4	387.8	387.4	369.5	349.1
American, whole milk	344.0	318.7	376.0	346.4	334.5	318.7	296.4	271.1	263.0	259.5	280.7	308.3	327.1	309.0	293.0	
Imports	151.8	168.2	20.2	10.7	11.6	17.1	4.5	5.9	10.7	12.9	13.2	12.0	10.0	9.6	12.5	
Price, wholesale, American, single daisies (Chicago)	.521	.548	.551	.562	.565	.570	.572	.572	.587	.595	.594	.603	.606	.606	.608	

* Revised. † Annual total reflects revisions not distributed to the monthly data.
 § Data are not wholly comparable on a year to year basis because of changes from one classification to another.

¶ Includes data not shown separately.

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS

	1967	1968	1968				1969									
	Annual		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
FOOD AND KINDRED PRODUCTS; TOBACCO—Continued																
DAIRY PRODUCTS—Continued																
Condensed and evaporated milk:																
Production, case goods:																
Condensed (sweetened).....mil. lb.	64.4	87.4	6.6	10.0	7.5	4.5	3.5	4.8	6.1	7.8	9.2	6.1	6.2	6.8	8.4	-----
Evaporated (unsweetened).....do.	1,493.2	1,360.0	107.2	101.4	88.7	109.9	96.0	97.0	109.1	135.7	157.5	147.5	139.7	136.0	103.0	-----
Stocks, manufacturers', end of period:																
Condensed (sweetened).....mil. lb.	5.8	2.1	5.7	3.0	2.6	2.1	2.6	3.9	3.5	2.9	4.7	3.9	2.9	3.9	3.0	-----
Evaporated (unsweetened).....do.	190.2	99.1	189.0	160.6	124.4	99.1	56.9	39.3	53.7	83.5	124.4	151.6	188.9	211.2	194.6	-----
Exports:																
Condensed (sweetened).....do.	28.6	42.4	2.7	6.1	1.5	6.0	.9	.9	3.5	4.5	7.4	6.1	4.5	4.0	8.2	-----
Evaporated (unsweetened).....do.	33.8	33.7	2.8	3.1	2.7	3.1	3.7	2.9	4.0	2.2	2.9	2.4	4.2	2.0	2.8	-----
Price, manufacturers' average selling:																
Evaporated (unsweetened).....\$ per case	7.05	7.26	7.36	7.36	7.36	7.36	7.40	7.42	7.45	7.50	7.50	7.51	7.51	7.51	7.51	-----
Fluid milk:																
Production on farms.....mil. lb.	118,769	117,281	9,035	9,120	8,721	9,191	9,407	8,795	9,983	10,261	11,046	10,766	10,165	9,612	9,126	9,150
Utilization in mfd. dairy products.....do.	58,587	58,164	4,081	4,070	3,770	4,149	4,604	4,388	5,023	5,392	5,997	6,025	5,480	4,902	4,226	4,226
Price, wholesale, U.S. average.....\$ per 100 lb.	5.01	5.24	5.46	5.63	5.68	5.61	5.53	5.45	5.35	5.23	5.15	5.08	5.21	5.34	5.62	5.77
Dry milk:																
Production:																
Dry whole milk.....mil. lb.	74.3	94.2	6.1	7.2	6.9	7.3	6.1	5.4	6.6	4.6	10.9	8.4	6.4	5.0	4.8	-----
Nonfat dry milk (human food).....do.	1,678.6	1,604.4	90.1	89.6	90.0	116.1	118.3	112.8	131.0	146.2	176.2	178.5	141.2	111.1	83.0	-----
Stocks, manufacturers', end of period:																
Dry whole milk.....do.	6.1	7.6	8.4	9.1	7.9	7.6	8.2	7.5	6.2	4.9	6.8	8.0	9.0	8.2	7.1	-----
Nonfat dry milk (human food).....do.	98.7	78.9	106.3	90.1	76.0	78.9	72.6	68.5	63.9	75.2	108.0	137.1	149.1	150.9	130.4	-----
Exports:																
Dry whole milk.....do.	12.8	18.6	1.1	6.6	1.1	.4	.8	1.3	1.6	2.3	1.6	1.6	1.3	1.4	1.3	-----
Nonfat dry milk (human food).....do.	140.9	151.0	22.8	8.1	13.7	15.3	3.5	8.9	13.9	19.4	5.2	13.2	9.7	5.0	6.4	-----
Price, manufacturers' average selling, nonfat dry milk (human food).....\$ per lb.	.199	.224	.234	.235	.233	.234	.235	.234	.235	.235	.234	.235	.234	.234	.236	-----
GRAIN AND GRAIN PRODUCTS																
Exports (barley, corn, oats, rye, wheat).....mil. bu.	1,245.4	1,267.4	83.2	84.8	108.3	127.2	18.4	33.4	91.9	95.6	107.6	92.0	99.5	90.3	102.2	-----
Barley:																
Production (crop estimate).....do.	1,372.9	1,418.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4,415.9
Stocks (domestic), end of period.....do.	303.2	362.7	442.7	-----	-----	362.7	-----	-----	276.7	-----	-----	197.4	-----	-----	495.1	-----
On farms.....do.	184.6	238.8	291.6	-----	-----	238.8	-----	-----	177.7	-----	-----	112.7	-----	-----	305.3	-----
Off farms.....do.	118.5	123.9	151.1	-----	-----	123.9	-----	-----	99.0	-----	-----	84.6	-----	-----	189.9	-----
Exports, including malt.....do.	40.2	17.8	.4	.7	2.5	.5	.1	.1	.7	2.4	1.7	1.3	.3	.1	.4	-----
Prices, wholesale (Minneapolis):																
No. 2, malting.....\$ per bu.	1.30	1.18	1.19	1.19	1.17	1.14	1.18	1.17	1.16	1.16	1.19	1.13	1.09	1.00	1.06	1.08
No. 3, straight.....do.	1.29	1.18	1.20	1.18	1.15	1.14	1.19	1.18	1.17	1.17	1.19	1.14	1.09	1.00	1.06	1.08
Corn:																
Production (crop estimate, grain only).....mil. bu.	1,476.0	1,437.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4,444
Stocks (domestic), end of period, total.....mil. bu.	4,257	4,204	2,162	-----	-----	4,204	-----	-----	3,011	-----	-----	2,053	-----	-----	2,122	-----
On farms.....do.	3,391	3,247	2,782	-----	-----	3,247	-----	-----	2,194	-----	-----	1,472	-----	-----	2,737	-----
Off farms.....do.	866	957	380	-----	-----	957	-----	-----	817	-----	-----	581	-----	-----	385	-----
Exports, including meal and flour.....do.	515.3	594.0	50.2	40.8	54.1	59.9	3.1	16.5	49.8	38.6	47.9	43.5	51.3	54.8	64.5	-----
Prices, wholesale:																
No. 3, yellow (Chicago).....\$ per bu.	1.27	1.11	1.06	1.06	1.13	1.14	1.18	1.16	1.15	1.20	1.30	1.30	1.27	1.28	1.19	1.16
Weighted avg., 5 markets, all grades.....do.	1.25	1.11	1.03	1.08	1.14	1.13	1.16	1.15	1.15	1.21	1.28	1.28	1.22	1.22	1.15	1.17
Oats:																
Production (crop estimate).....mil. bu.	1,789	1,930	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4,938
Stocks (domestic), end of period, total.....do.	653	776	928	-----	-----	776	-----	-----	547	-----	-----	371	-----	-----	1,011	-----
On farms.....do.	549	653	773	-----	-----	653	-----	-----	437	-----	-----	272	-----	-----	818	-----
Off farms.....do.	104	123	155	-----	-----	123	-----	-----	110	-----	-----	100	-----	-----	193	-----
Exports, including oatmeal.....do.	9.4	11.6	2.0	.7	1.0	.4	.5	.4	.8	.9	1.2	.3	.5	.7	.7	-----
Price, wholesale, No. 2, white (Chicago).....\$ per bu.	3.75	3.72	.63	.58	-----	.71	.74	.75	.68	.69	.69	.64	.63	.61	.62	-----
Rice:																
Production (crop estimate).....mil. bags	1,89.4	1,105.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4,90.2
California mills:																
Receipts, rough, from producers.....mil. lb.	1,913	2,020	170	371	115	215	221	272	286	225	118	67	96	67	209	-----
Shipments from mills, milled rice.....do.	1,403	1,376	76	69	58	170	179	289	214	235	151	79	88	43	87	-----
Stocks, rough and cleaned (cleaned basis), end of period.....mil. lb.	254	312	110	286	315	312	298	229	245	197	125	93	71	73	127	-----
Southern States mills (Ark., La., Tenn., Tex.):																
Receipts, rough, from producers.....mil. lb.	6,675	7,086	1,732	1,584	749	339	139	146	153	313	283	200	205	347	1,636	-----
Shipments from mills, milled rice.....do.	4,544	4,774	372	481	519	347	212	188	214	423	552	544	464	333	438	-----
Stocks, domestic, rough and cleaned (cleaned basis), end of period.....mil. lb.	1,875	2,013	1,547	2,122	2,119	2,013	1,903	1,812	1,713	1,509	1,178	858	476	681	1,410	-----
Exports.....do.	4,066	4,163	342	209	336	361	135	263	245	492	408	629	372	291	254	-----
Price, wholesale, No. 2 (N.O.).....\$ per lb.	.085	.087	.081	.083	.083	.085	.085	.085	.085	.085	.085	.085	.084	.084	.084	-----
Rye:																
Production (crop estimate).....mil. bu.	1,24.2	1,23.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4,32.0
Stocks (domestic), end of period.....do.	27.8	24.3	31.7	-----	-----	24.3	-----	-----	20.0	-----	-----	16.0	-----	-----	38.5	-----
Price, wholesale, No. 2 (Minneapolis).....\$ per bu.	1.19	1.14	1.12	1.17	1.17	1.20	1.20	1.21	1.23	1.23	1.24	1.22	1.17	1.06	1.07	1.12
Wheat:																
Production (crop estimate), total.....mil. bu.	11,522	11,570	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4,1,456
Spring wheat.....do.	1,316	1,342	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4,306
Winter wheat.....do.	11,207	11,229	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	4,1,150
Distribution.....do.	1,360	1,439	432	-----	-----	334	-----	-----	233	-----	-----	301	-----	-----	-----	-----
Stocks (domestic), end of period, total.....do.	1,212	1,344	1,678	-----	-----	1,344	-----	-----	1,111	-----	-----	818	-----	-----	1,857	-----
On farms.....do.	508	580	732	-----	-----	580	-----	-----	462	-----	-----	327	-----	-----	733	-----
Off farms.....do.	704	764	947	-----	-----	764	-----	-----	649	-----	-----	491	-----	-----	1,124	-----

* Revised. ¹ Crop estimate for the year. ² Old crop only; new crop not reported until beginning of new crop year (July for barley, oats, rye, and wheat; Oct. for corn). ³ Average for 11 months. ⁴ November 1 estimate of 1969 crop.

§ Excludes pearl barley.

¶ Bags of 100 lbs.

• Corrected.

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS	1967	1968	1969				1969									
	Annual		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
FOOD AND KINDRED PRODUCTS; TOBACCO—Continued																
GRAIN AND GRAIN PRODUCTS—Con.																
Wheat—Continued																
Exports, total, including flour.....mil. bu.	675.6	642.1	30.4	42.6	50.7	66.3	14.7	16.5	40.7	53.3	56.8	46.6	47.4	34.5	36.5	-----
Wheat only.....do.	637.1	587.8	25.2	37.9	44.0	60.3	13.9	15.1	37.4	48.8	51.2	39.5	41.8	32.4	32.9	-----
Prices, wholesale:																
No. 1, dark northern spring (Minneapolis) \$ per bu.	1.92	1.79	1.72	1.79	1.79	1.72	1.78	1.81	1.79	1.77	1.78	1.77	1.81	1.73	1.79	1.82
No. 2, hd. and dk. hd. winter (Kans. City).....do.	1.68	1.52	1.42	1.49	1.54	1.50	1.52	1.48	1.52	1.53	1.48	1.45	1.34	1.44	1.48	1.53
Weighted avg., 6 markets, all grades.....do.	1.88	1.77	1.73	1.83	1.83	1.78	1.82	1.83	1.81	1.78	1.76	1.70	1.65	1.66	1.72	1.75
Wheat flour:																
Production:																
Flour.....thous. sacks (100 lb.)	245,240	254,185	21,533	23,506	22,080	21,279	20,342	18,974	20,625	20,307	21,217	20,758	19,620	21,455	22,272	-----
Offal.....thous. sh. tons	4,423	4,510	379	411	386	374	362	335	364	356	373	365	345	377	387	-----
Grindings of wheat.....thous. bu.	549,801	569,649	48,042	53,606	49,523	47,687	45,888	42,038	46,121	45,631	47,623	46,457	44,119	47,974	49,499	-----
Stocks held by mills, end of period																
thous. sacks (100 lb.).....do.	4,372	4,638	4,517			4,638			4,480		4,324					
Exports.....do.	16,535	23,264	2,229	2,020	2,903	2,570	371	609	1,433	2,006	2,387	3,033	2,420	919	1,534	-----
Prices, wholesale:																
Spring, standard patent (Minneapolis) \$ per 100 lb.	6.124	5.927	5.913	5.925	5.959	5.925	5.888	5.838	5.863	5.838	5.875	5.888	6.013	6.025		-----
Winter, hard, 95% patent (Kans. City).....do.	5.621	5.449	5.375	5.463	5.513	5.463	5.400	5.375	5.350	5.338	5.388	5.463	5.588	5.488		-----
LIVESTOCK																
Cattle and calves:																
Slaughter (federally inspected):																
Calves.....thous. animals	4,002	3,876	323	373	344	337	364	317	352	312	271	248	282	271	308	-----
Cattle.....do.	27,780	29,592	2,540	2,813	2,416	2,380	2,676	2,356	2,423	2,414	2,466	2,434	2,611	2,608	2,725	-----
Receipts at 28 public markets.....do.	12,659	11,699	1,123	1,381	1,077	921	1,057	905	1,019	1,022	961	1,007	946	957	1,203	-----
Shipments, feeder, to 8 corn-belt States.....do.	7,852	8,219	1,153	1,488	1,259	855	342									-----
Prices, wholesale:																
Beef steers (Chicago) \$ per 100 lb.	25.97	27.65	28.24	28.22	28.38	28.53	29.10	28.97	30.20	30.96	33.76	34.20	31.57	30.97	29.85	29.10
Steers, stocker and feeder (Kansas City).....do.	24.67	25.89	25.33	25.60	26.01	26.39	26.69	27.22	28.69	30.28	32.40	33.17	29.87	29.20	28.37	28.81
Calves, vealers (Natl. Stockyards, Ill.).....do.	32.38	33.83	32.00	31.50	32.50	35.00	37.50	40.50	40.50	40.00	40.50	39.00	35.00	34.00		-----
Hogs:																
Slaughter (federally inspected).....thous. animals	70,915	74,789	6,348	7,410	6,571	6,619	6,814	6,245	6,816	6,852	6,045	5,591	5,739	5,708	6,611	-----
Receipts at 28 public markets.....do.	16,196	15,932	1,319	1,612	1,388	1,410	1,460	1,278	1,363	1,429	1,307	1,228	1,204	1,095	1,266	-----
Prices, wholesale:																
Whole hog, average, all grades (Chicago) \$ per 100 lb.	18.88	18.65	19.49	18.19	17.56	17.87	18.94	19.68	20.41	20.23	22.71	24.35	24.90	27.11	25.42	25.33
Hog-corn price ratio (bu. of corn equal in value to 100 lb. live hog).....do.	16.3	18.0	19.3	18.6	16.8	17.0	17.2	18.0	18.3	17.5	18.7	20.3	21.1	22.0	21.6	22.1
Sheep and lambs:																
Slaughter (federally inspected).....thous. animals	11,516	10,888	973	1,063	835	832	1,007	768	814	839	835	810	822	797	915	-----
Receipts at 28 public markets.....do.	13,603	12,934	300	376	243	210	214	179	176	183	192	250	252	230	291	-----
Shipments, feeder, to 8 corn-belt States.....do.	1,449	1,399	181	301	134	79	70									-----
Price, wholesale, lambs, average (Chicago) \$ per 100 lb.	23.45	26.02	25.25	25.62	26.12	25.00	26.50	27.50	29.25	36.75	32.25	29.75	29.25	26.75	26.00	27.25
MEATS AND LARD																
Total meats:																
Production (carcass weight, leaf lard in), inspected slaughter.....mil. lb.	31,106	32,714	2,737	3,134	2,708	2,760	2,965	2,628	2,765	2,788	2,692	2,602	2,705	2,650	2,917	-----
Stocks (excluding lard), cold storage, end of period.....mil. lb.	644	625	517	572	614	625	597	601	617	678	633	556	513	513	555	603
Exports (meat and meat preparations).....do.	484	508	55	48	62	54	29	35	57	54	62	45	46	40	47	-----
Imports (meat and meat preparations).....do.	1,397	1,594	171	147	144	97	65	88	198	149	134	139	163	188	174	-----
Beef and veal:																
Production, inspected slaughter.....do.	17,252	18,270	1,536	1,714	1,487	1,475	1,658	1,461	1,490	1,510	1,520	1,499	1,591	1,570	1,678	-----
Stocks, cold storage, end of period.....do.	286	304	249	273	304	304	288	278	282	275	253	238	246	273	311	331
Exports.....do.	34	29	2	2	3	2	2	2	3	2	3	2	2	2	2	-----
Imports.....do.	1,967	1,129	129	111	107	63	51	59	140	99	85	99	118	148	131	-----
Price, wholesale, beef, fresh, steer carcasses, choice (600-700 lbs.) (New York) \$ per lb.	.451	.473	.477	.466	.471	.484	.474	.465	.484	.501	.546	.556	.521	.498	.478	.459
Lamb and mutton:																
Production, inspected slaughter.....mil. lb.	574	545	47	53	42	43	52	40	43	43	43	40	40	38	45	-----
Stocks, cold storage, end of period.....do.	15	14	12	13	15	14	10	9	12	17	16	13	12	15	16	18
Pork (including lard), production, inspected slaughter.....mil. lb.	13,280	13,899	1,154	1,367	1,239	1,242	1,254	1,127	1,233	1,253	1,130	1,064	1,074	1,041	1,195	-----
Pork (excluding lard):																
Production, inspected slaughter.....do.	10,750	11,330	943	1,114	1,014	1,022	1,033	938	1,026	1,042	935	877	880	860	982	-----
Stocks, cold storage, end of period.....do.	283	256	197	222	237	256	251	264	270	324	299	246	196	168	174	203
Exports.....do.	56	92	11	14	18	15	14	16	12	10	23	13	8	7	11	-----
Imports.....do.	307	324	30	24	25	26	10	21	39	33	33	28	29	21	24	-----
Prices, wholesale:																
Hams, smoked composite \$ per lb.	.544	.537	.543	.546	.567	.595	.547	.517	.550	.522	.536	.572	.572	.614	-----	-----
Fresh loins, 8-14 lb. average (New York).....do.	.515	.509	.539	.484	.481	.484	.531	.507	.476	.495	.572	.614	.631	.609	.616	.608
Lard:																
Production, inspected slaughter.....mil. lb.	1,835	1,862	154	182	164	160	160	138	149	152	142	135	141	131	154	-----
Stocks, dry and cold storage, end of period.....do.	151	94	94	89	78	94	92	97	92	93	80	76	62	55	-----	-----
Exports.....do.	189	172	16	14	20	12	12	14	29	11	39	15	11	23	22	-----
Price, wholesale, refined (Chicago) \$ per lb.	.126	.112	.105	.114	.123	.116	.130	.133	.144	.133	.130	.131	.139	.150	-----	-----
POULTRY AND EGGS																
Poultry:																
Slaughter (commercial production).....mil. lb.	9,218	8,915	858	984	803	764	726	567	631	661	724	783	842	897	949	-----
Stocks, cold storage (frozen), end of period, total.....mil. lb.	540	417	492	607	486	417	394	351	287	239	207	200	248	324	423	531
Turkeys.....do.	367	317	386	504	386	317	294	255	201	155	123	119	163	237	329	480
Price, in Georgia producing area, live broilers \$ per lb.	.122	.131	.130	.115	.120	.125	.130	.135	.145	.135	.145	.145	.170	.155	.145	.130

* Revised. * Corrected

1 Annual total reflects revisions not distributed to the monthly data.

2 Beginning Jan. 1969, data are for 38 markets; comparable Dec. 1968 receipts: Cattle and calves, 1,085; hogs 1,461; sheep and lambs, 213. 3 Beginning Jan. 1969, quotations are on carlot rather than l.c.l. basis as previously.

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1957 edition of BUSINESS STATISTICS

	1967	1968	1968				1969									
	Annual		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
FOOD AND KINDRED PRODUCTS; TOBACCO—Continued																
POULTRY AND EGGS—Continued																
Eggs:																
Production on farms.....mil. cases○	194.9	192.6	15.1	15.8	15.4	15.9	15.9	14.7	16.6	16.3	16.9	16.0	16.0	15.7	15.2	15.9
Stocks, cold storage, end of period:																
Shell.....thous. cases○	86	59	150	172	91	59	56	71	52	173	237	300	213	120	85	42
Frozen.....mil. lb.	89	72	102	92	82	72	61	56	52	50	53	61	66	64	56	53
Price, wholesale, large (delivered; Chicago) \$ per doz.	.298	.372	.501	.399	.437	.480	.485	.413	.445	.404	.334	.351	.471	.433	.488	-----
MISCELLANEOUS FOOD PRODUCTS																
Cocoa (cacao) beans:																
Imports (incl. shells).....thous. lg. tons.	282.6	228.2	12.9	10.8	10.0	17.4	2.0	23.4	27.2	14.3	20.7	15.4	26.0	21.6	6.3	-----
Price, wholesale, Accra (New York) \$ per lb.	.288	.344	.563	.394	.465	.505	.433	.436	.460	.455	.443	.456	.478	.469	.466	.461
Coffee (green):																
Inventories (roasters', importers', dealers'), end of period.....thous. bags○	2,311	5,076	5,205	-----	-----	5,076	-----	-----	3,249	-----	-----	3,389	-----	-----	3,361	-----
Roastings (green weight).....do	21,291	21,165	4,021	-----	-----	5,603	-----	-----	5,370	-----	-----	5,080	-----	-----	4,780	-----
Imports, total.....do	21,312	25,377	2,322	1,687	2,132	1,945	363	1,111	2,015	2,195	1,664	1,747	1,714	1,476	1,778	-----
From Brazil.....do	9,069	8,318	339	552	740	699	135	345	654	643	478	563	529	329	459	-----
Price, wholesale, Santos, No. 4 (N.Y.) \$ per lb.	.384	.376	.375	.378	.378	.375	.375	.375	.383	.380	.378	.375	.375	.390	.390	-----
Confectionery, manufacturers' sales.....mil. \$	1,645	1,705	194	188	172	139	146	156	152	135	118	115	106	129	-----	-----
Fish:																
Stocks, cold storage, end of period.....mil. lb.	253	285	275	288	287	285	248	219	193	188	191	201	230	253	265	-----
Sugar (United States):																
Deliveries and supply (raw basis):																
Production and receipts:																
Production.....thous. sh. tons.	4,106	4,396	158	793	1,066	1,008	690	381	70	116	137	95	77	-----	-----	-----
Entries from off-shore, total	6,391	6,680	532	570	439	269	2,034	46	98	174	370	524	548	601	-----	-----
Hawaii and Puerto Rico.....do	1,958	1,707	92	215	128	87	35	46	99	145	192	148	102	171	-----	-----
Deliveries, total	10,516	11,089	1,029	932	821	1,077	704	620	919	834	933	976	1,019	-----	-----	-----
For domestic consumption.....do	10,245	10,922	1,013	921	809	1,067	692	611	903	818	918	965	1,008	-----	-----	-----
Stocks, raw and ref., end of period.....do	2,873	2,961	1,249	1,723	2,467	2,961	3,151	3,146	2,737	2,698	2,580	2,396	2,164	1,691	-----	-----
Exports, raw and refined.....sh. tons.	1,468	1,320	120	62	118	66	94	102	76	163	65	46	38	69	57	-----
Imports:																
Raw sugar, total	4,584	4,879	444	452	290	431	45	264	371	486	438	538	577	416	328	-----
From the Philippines.....do	1,134	1,075	9	33	32	96	0	96	91	140	58	108	124	95	71	-----
Refined sugar, total.....do	97	117	2	1	48	13	1	(?)	22	1	2	2	7	13	6	-----
Prices (New York):																
Raw, wholesale \$ per lb.	.073	.075	.076	.077	.076	.076	.077	.077	.078	.078	.078	.078	.075	.078	.078	.079
Refined:																
Retail (incl. N.E. New Jersey) \$ per 5 lb.	4.620	.624	.635	.636	.638	.630	.628	.630	.631	.629	.632	.642	.641	.646	.647	-----
Wholesale (excl. excise tax) \$ per lb.	.099	.101	.102	.102	.102	.103	.103	.103	.103	.105	.107	.107	.108	.108	.108	-----
Tea, imports.....thous. lb.	142,583	155,335	14,766	7,677	12,279	15,633	1,859	4,046	14,825	16,785	17,989	13,655	11,644	8,892	13,760	-----
Baking or frying fats (incl. shortening):																
Production.....mil. lb.	3,225.7	3,311.9	292.4	317.0	296.6	275.3	286.4	272.3	291.3	268.7	287.6	281.1	244.4	281.7	290.5	-----
Stocks, end of period.....do	139.2	142.7	125.4	134.7	119.2	142.7	127.3	133.4	132.7	142.1	138.9	144.5	130.7	128.2	116.7	-----
Salad or cooking oils:																
Production.....do	2,922.1	2,995.9	239.4	261.5	230.8	234.6	241.5	215.9	248.9	258.4	283.7	322.0	253.5	242.8	255.3	-----
Stocks, end of period.....do	79.5	79.4	64.9	59.7	74.8	79.4	84.8	76.4	80.0	73.9	91.4	74.7	62.5	60.2	59.3	-----
Margarine:																
Production.....do	2,114.1	2,140.9	168.0	199.7	179.6	196.6	214.9	175.3	181.0	169.3	165.1	169.5	161.1	162.6	187.3	-----
Stocks, end of period.....do	59.9	49.1	50.1	56.3	45.8	49.1	51.2	60.2	56.1	58.7	58.2	54.1	55.5	51.0	50.5	-----
Price, wholesale (colored; mfr. to wholesaler or large retailer; delivered) \$ per lb.	.257	.256	.256	.256	.256	.256	.256	.256	.256	.257	.257	.257	.257	.257	.257	-----
FATS, OILS, AND RELATED PRODUCTS																
Animal and fish fats:△																
Tallow, edible:																
Production (quantities rendered).....mil. lb.	577.8	539.1	44.5	48.1	45.5	40.6	46.2	45.8	44.0	41.4	42.0	40.5	39.7	43.1	44.5	-----
Consumption in end products.....do	525.1	517.3	47.2	45.1	46.3	34.6	39.7	43.3	49.0	41.4	43.9	45.6	37.2	43.3	42.9	-----
Stocks, end of period.....do	73.2	49.6	39.3	40.9	42.7	49.6	50.1	54.0	44.2	47.4	44.3	32.8	28.3	27.8	25.9	-----
Tallow and grease (except wool), inedible:																
Production (quantities rendered).....do	4,753.0	4,745.2	390.2	431.9	377.1	362.0	409.1	378.2	380.1	386.2	372.3	363.8	382.8	374.3	379.0	-----
Consumption in end products.....do	2,402.4	2,478.0	211.7	223.0	193.8	192.0	217.6	205.0	215.7	228.0	211.6	219.9	211.5	208.1	221.9	-----
Stocks, end of period.....do	424.6	358.5	376.9	386.7	376.0	358.5	421.6	425.1	419.1	335.9	306.4	281.2	283.3	290.4	302.5	-----
Fish and marine mammal oils:																
Production.....do	118.4	170.8	26.3	20.4	12.1	6.5	.9	.6	.6	5.4	20.8	27.2	29.3	31.4	28.2	-----
Consumption in end products.....do	73.0	69.9	5.8	5.2	5.5	4.6	4.9	6.4	6.9	6.8	5.2	7.1	5.0	5.8	5.9	-----
Stocks, end of period.....do	146.3	155.8	188.3	178.8	159.2	155.8	155.4	122.5	111.2	94.2	123.5	130.9	142.1	126.0	121.6	-----
Vegetable oils and related products:																
Coconut oil:																
Production: Crude.....mil. lb.	2,350.5	392.1	34.0	27.5	41.7	32.4	31.3	28.8	31.4	30.5	29.3	33.2	19.1	35.4	35.8	-----
Refined.....do	565.1	548.7	44.1	48.1	44.9	34.2	45.2	45.6	46.1	52.2	44.0	43.6	41.3	48.5	48.0	-----
Consumption in end products.....do	766.1	730.7	57.2	65.6	61.5	54.1	59.6	59.9	63.8	60.5	61.0	62.3	59.4	65.5	-----	-----
Stocks, crude and ref., end of period.....do	133.6	197.1	130.2	132.9	172.0	197.1	187.6	179.1	184.9	155.6	153.1	154.2	138.5	139.8	145.9	-----
Imports.....do	2,523.0	442.8	30.7	41.0	17.5	14.6	152.3	40.1	10.3	19.2	34.2	33.0	31.6	28.3	18.4	-----
Corn oil:																
Production: Crude.....do	444.0	452.8	34.4	41.4	39.5	37.8	38.0	36.1	39.5	40.0	39.5	40.1	37.5	38.5	39.4	-----
Refined.....do	418.1	429.6	31.9	35.2	36.3	38.8	33.8	31.8	38.8	33.0	36.8	39.5	33.8	34.1	37.1	-----
Consumption in end products.....do	420.6	439.6	33.5	40.9	40.2	36.2	34.1	31.3	36.6	33.6	37.4	39.9	33.3	35.5	37.4	-----
Stocks, crude and ref., end of period.....do	37.7	40.5	41.1	39.7	39.0	40.5	43.3	49.8	34.7	65.9	68.5	65.9	68.3	70.4	70.7	-----

Revised. Preliminary.

1 Beginning January 1968, data are not comparable with those for early periods; prices are based on minimum 80 percent A quality (instead of 60-79.9 percent as formerly). 2 Annual total reflects revisions not distributed to the monthly data. 3 Less than 500 short tons. 4 Beginning July 1967, prices based on 1967 benchmark; 1967 average is for July-Dec. period. July 1967 price on old basis, \$0.631.

○ Cases of 30 dozen. △ Bags of 132.276 lb. \$ Monthly data reflect cumulative revisions for prior periods. ? Includes data not shown separately; see also note "§". △ For data on lard, see p. S-28. ⊕ Producers' and warehouse stocks. ¶ Factory and warehouse stocks.

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS	1967	1968	1968				1969									
	Annual		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
LUMBER AND PRODUCTS																
LUMBER—ALL TYPES																
National Forest Products Association:																
Production, total..... mil. bd. ft.	35,275	37,094	3,193	3,381	2,981	2,818	2,937	2,993	3,314	3,415	3,257	3,075	3,055	3,113		
Hardwoods..... do.	7,401	6,960	592	622	625	514	581	586	622	612	671	674	673	710		
Softwoods..... do.	27,874	30,134	2,601	2,759	2,356	2,304	2,356	2,407	2,692	2,803	2,586	2,401	2,382	2,403		
Shipments, total..... do.	35,777	38,052	3,205	3,454	3,056	2,794	2,976	3,051	3,343	3,331	3,310	3,066	2,982	3,040		
Hardwoods..... do.	7,603	7,762	648	657	702	582	694	719	766	674	730	706	686	726		
Softwoods..... do.	28,174	30,290	2,557	2,797	2,354	2,212	2,282	2,332	2,577	2,657	2,580	2,360	2,296	2,314		
Stocks (gross), mill, end of period, total..... do.	5,744	5,086	5,196	5,094	5,030	5,086	5,113	5,118	5,162	5,246	5,194	5,218	5,354	5,430		
Hardwoods..... do.	1,377	914	995	975	934	914	879	824	748	703	654	636	641	636		
Softwoods..... do.	4,367	4,172	4,201	4,119	4,096	4,172	4,234	4,294	4,414	4,543	4,540	4,582	4,713	4,794		
Exports, total sawmill products..... do.	1,112	1,143	81	90	82	84	72	73	73	103	106	101	88	91	120	
Imports, total sawmill products..... do.	4,987	6,087	526	685	519	524	353	490	724	664	549	554	537	495	528	
SOFTWOODS																
Douglas fir:																
Orders, new..... mil. bd. ft.	8,222	9,047	790	726	674	755	755	530	668	696	612	577	697	600		
Orders, unfilled, end of period..... do.	579	822	742	662	657	822	898	809	818	704	542	439	526	487		
Production..... do.	8,046	8,802	721	774	671	638	663	664	775	846	703	661	622	645		
Shipments..... do.	8,129	8,804	693	806	679	590	679	619	659	810	774	679	610	639		
Stocks (gross), mill, end of period..... do.	957	965	947	915	907	955	956	1,001	1,118	1,147	1,074	1,055	1,067	1,073		
Exports, total sawmill products..... do.	388	403	29	31	27	33	24	32	22	31	32	33	28	31	35	
Sawed timber..... do.	113	102	6	7	6	6	8	8	4	10	7	10	4	7	9	
Boards, planks, scantlings, etc..... do.	275	301	23	24	21	27	16	24	18	21	26	22	24	23	25	
Prices, wholesale:																
Dimension, construction, dried, 2" x 4", R. L. \$ per M bd. ft.	85.54	107.85	112.36	113.06	113.06	123.98	130.11	137.49	147.11	140.41	125.96	109.95	95.71	95.08		
Flooring, C and better, F. G., 1" x 4", R. L. \$ per M bd. ft.	169.99	166.36	165.94	169.33	169.33	175.42	179.83	195.55	208.29	213.84	215.44	213.07	213.84	215.44		
Southern pine:																
Orders, new..... mil. bd. ft.	6,381	7,145	621	647	629	589	648	724	722	579	559	528	573	625		
Orders, unfilled, end of period..... do.	307	422	390	369	391	422	408	487	505	415	355	320	303	330		
Production..... do.	6,415	6,870	559	645	596	579	681	634	670	701	666	651	642	607		
Shipments..... do.	6,348	7,030	598	668	607	558	662	645	704	669	619	563	590	598		
Stocks (gross), mill and concentration yards, end of period..... mil. bd. ft.	1,297	1,137	1,150	1,127	1,116	1,137	1,156	1,145	1,111	1,143	1,190	1,278	1,330	1,339		
Exports, total sawmill products..... M bd. ft.	87,436	90,477	7,790	5,536	5,222	10,772	621	1,524	9,367	7,699	9,216	6,882	5,764	5,947	7,615	
Prices, wholesale, (indexes):																
Boards, No. 2 and better, 1" x 6", R. L. 1957-59=100.....	103.5	119.0	121.8	123.5	126.3	129.5	134.0	139.9	148.4	149.8	149.2	143.9	134.9	126.2		
Flooring, B and better, F. G., 1" x 4", S. L. 1957-59=100.....	106.0	113.0	114.7	114.8	115.5	116.6	121.0	125.6	128.9	130.2	130.2	128.7	125.4	124.9		
Western pine:																
Orders, new..... mil. bd. ft.	10,531	10,881	985	1,006	789	757	748	731	864	769	839	794	881	818		
Orders, unfilled, end of period..... do.	557	539	616	615	600	539	616	564	530	452	416	389	391	443		
Production..... do.	10,180	10,851	1,015	1,003	804	812	702	807	922	908	904	800	849	849		
Shipments..... do.	10,401	10,900	977	1,008	804	818	671	783	899	847	875	821	834	811		
Stocks (gross), mill, end of period..... do.	1,445	1,396	1,407	1,402	1,402	1,396	1,426	1,450	1,473	1,534	1,563	1,542	1,557	1,595		
Price, wholesale, Ponderosa, boards, No. 3, 1" x 12", R. L. (6' and over)..... \$ per M bd. ft.	71.95	87.72	89.99	94.11	98.64	106.49	115.76	129.86	145.12	163.54	145.05	110.28	82.19	79.64		
HARDWOOD FLOORING																
Oak:																
Orders, new..... mil. bd. ft.	547.0	496.5	47.0	45.3	36.2	32.1	38.6	34.1	31.2	27.4	29.2	30.1	38.7	33.6		
Orders, unfilled, end of period..... do.	20.1	23.9	25.6	26.1	25.7	23.9	25.8	24.6	21.8	17.5	14.1	12.7	16.8	14.9		
Production..... do.	551.2	459.3	34.6	41.4	34.4	31.4	38.6	32.6	33.9	35.4	33.0	31.2	29.7	31.8		
Shipments..... do.	552.2	485.1	40.5	44.8	36.1	33.0	36.7	33.3	34.0	32.9	32.4	31.6	34.1	35.0		
Stocks (gross), mill, end of period..... do.	57.9	23.5	30.5	27.1	25.3	23.5	25.4	25.4	25.3	27.8	27.7	26.3	22.0	20.1		

METALS AND MANUFACTURES

IRON AND STEEL																
Exports:																
Steel mill products..... thous. sh. tons.	1,685	2,170	269	207	306	327	132	173	441	349	411	353	471	470	450	
Scrap..... do.	7,635	6,572	764	539	801	576	282	233	529	754	826	898	797	1,200	1,054	
Pig iron..... do.	7	11	1	1	2	1	(1)	(1)	1	2	1	1	2	(1)	(1)	
Imports:																
Steel mill products..... do.	11,455	17,960	1,698	1,485	1,550	1,425	510	568	876	1,505	1,727	1,432	1,412	1,249	1,311	
Scrap..... do.	286	327	17	24	19	38	24	25	31	40	37	63	42	24	29	
Pig iron..... do.	2 631	799	124	99	72	73	8	6	22	22	41	76	34	40	43	
Iron and Steel Scrap																
Production..... thous. sh. tons.	52,312	53,284	3,506	3,905	3,823	3,998	4,471	4,334	4,857	4,798	4,790	4,661				
Receipts..... do.	2 32,654	2 39,228	2,641	3,105	3,044	3,248	3,383	3,534	3,963	3,877	3,779	3,632				
Consumption..... do.	85,361	86,766	5,787	6,610	6,723	6,892	7,706	7,439	8,311	8,054	8,177	7,835				
Stocks, consumers', end of period..... do.	7,793	7,868	8,340	8,288	7,987	7,868	7,535	7,467	7,454	7,520	7,369	7,216				
Prices, steel scrap, No. 1 heavy melting:																
Composite (5 markets)..... \$ per lg. ton.	27.51	25.06	23.01	22.74	24.00	23.79	25.83	27.35	26.38	25.33	28.32	29.10	29.20	31.82		
Pittsburgh district..... do.	27.00	27.00	25.00	22.00	25.00	26.00	29.00	29.00	28.00	27.00	30.00	31.00	30.00	34.00		

* Revised. * Preliminary. † Less than 500 tons. ‡ Annual total reflects revisions not distributed to the monthly data. § For Feb.-Dec. 1967.

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS	1967	1968	1968				1969									
	Annual		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
METALS AND MANUFACTURES—Continued																
IRON AND STEEL—Continued																
Ore																
Iron ore (operations in all U.S. districts):																
Mine production..... thous. lg. tons.	184,179	85,865	8,514	6,918	5,255	4,898	5,230	4,967	5,884	6,104	9,514	9,693	9,611	9,710	-----	-----
Shipments from mines..... do.	183,016	182,551	8,760	8,418	5,929	2,836	2,220	2,043	2,456	5,297	10,491	11,563	12,052	12,075	-----	-----
Imports..... do.	144,627	43,941	5,082	4,742	3,114	2,958	1,402	1,673	1,521	2,856	3,426	2,906	4,018	3,706	5,188	-----
U.S. and foreign ores and ore agglomerates:																
Receipts at iron and steel plants..... do.	119,435	118,581	12,904	12,200	7,737	5,799	3,380	3,291	4,602	7,281	13,330	12,519	15,335	14,510	15,157	-----
Consumption at iron and steel plants..... do.	118,982	120,449	7,343	7,798	8,358	9,483	10,145	9,881	11,144	11,013	11,396	10,751	10,385	10,404	10,842	-----
Exports..... do.	5,944	5,937	593	698	522	426	306	328	162	436	656	523	675	807	466	-----
Stocks, total, end of period..... do.	71,238	71,649	71,095	74,474	73,278	71,649	67,838	63,694	60,000	56,765	57,742	57,602	60,484	62,505	-----	-----
At mines..... do.	13,130	15,620	15,536	14,230	13,556	15,620	18,801	21,725	25,153	26,105	25,127	23,267	20,820	18,454	-----	-----
At furnace yards..... do.	55,121	53,232	53,135	57,537	56,916	53,232	46,534	39,950	33,416	29,683	31,617	33,410	38,397	42,515	47,331	-----
At U.S. docks..... do.	2,987	2,797	2,424	2,707	2,806	2,797	2,503	2,019	1,431	977	998	925	1,267	1,536	1,947	-----
Manganese (mn. content), general imports..... do.	1,086	953	103	28	52	83	92	40	60	126	81	69	95	105	122	-----
Pig Iron and Iron Products																
Pig iron:																
Production (excluding production of ferroalloys)..... thous. sh. tons.	186,984	88,780	5,481	5,916	6,218	7,020	7,296	7,225	8,196	8,150	8,414	8,055	7,836	7,699	7,739	-----
Consumption..... do.	87,371	89,890	5,666	6,039	6,288	7,042	7,402	7,290	8,238	8,083	8,282	7,896	-----	-----	-----	-----
Stocks (consumers' and suppliers'), end of period..... thous. sh. tons.	2,842	2,340	2,584	2,456	2,386	2,340	2,160	2,063	1,971	1,933	1,864	1,932	-----	-----	-----	-----
Prices:																
Composite..... \$ per lg. ton.	62.70	62.70	62.70	62.70	62.70	62.70	62.70	62.70	62.70	62.70	62.70	62.70	63.15	65.20	65.20	65.20
Basic (furnace)..... do.	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00	65.50	-----	-----
Foundry, No. 2, Northern..... do.	63.50	63.50	63.50	63.50	63.50	-----	63.50	63.50	63.50	63.50	63.50	63.50	63.50	63.50	-----	-----
Castings, gray iron:																
Orders, unfilled, for sale, end of period..... thous. sh. tons.	913	923	899	886	875	923	1,021	1,019	1,023	993	1,032	1,019	1,097	1,155	-----	-----
Shipments, total..... do.	14,329	15,034	1,223	1,307	1,187	1,099	1,255	1,288	1,376	1,391	1,353	1,361	1,192	1,278	-----	-----
For sale..... do.	8,128	8,710	747	768	675	607	676	718	774	802	778	815	720	744	-----	-----
Castings, malleable iron:																
Orders, unfilled, for sale, end of period..... thous. sh. tons.	120	137	131	116	130	137	138	142	129	130	127	119	143	147	-----	-----
Shipments, total..... do.	1,041	1,094	88	102	89	103	104	102	110	105	97	96	80	91	-----	-----
For sale..... do.	614	586	49	56	46	49	54	55	59	60	54	54	50	55	-----	-----
Steel, Raw and Semifinished																
Steel (raw):																
Production..... thous. sh. tons.	1127,213	1131,462	8,086	9,006	9,590	10,421	11,083	10,915	12,400	12,143	12,356	11,810	11,365	11,421	11,523	-----
Index..... daily average 1957-59=100.	131.0	135.0	101.3	109.2	120.1	126.3	134.3	146.5	150.3	152.1	149.8	147.9	137.8	138.4	144.3	-----
Steel castings:																
Orders, unfilled, for sale, end of period..... thous. sh. tons.	293	371	289	331	347	371	392	432	430	442	453	457	455	444	-----	-----
Shipments, total..... do.	1,857	1,731	135	141	132	143	153	163	169	168	172	161	156	139	-----	-----
For sale, total..... do.	1,556	1,437	116	119	112	123	132	138	145	140	135	134	129	114	-----	-----
Steel Mill Products																
Steel products, net shipments:																
Total (all grades)..... thous. sh. tons.	183,897	191,856	5,215	6,316	6,007	6,320	7,280	7,092	8,199	8,269	8,304	7,971	7,629	7,710	7,896	-----
By product:																
Semifinished products..... do.	4,061	4,821	291	350	479	497	458	453	514	494	520	450	466	527	582	-----
Structural shapes (heavy), steel piling..... do.	6,133	6,149	385	438	428	421	458	462	532	533	551	532	552	495	526	-----
Plates..... do.	7,048	8,401	457	540	523	544	628	623	709	734	756	749	729	630	655	-----
Rails and accessories..... do.	1,434	1,462	72	110	99	118	131	142	165	156	140	130	102	104	104	-----
Bars and tool steel, total..... do.	13,053	13,660	818	965	937	904	1,096	1,052	1,216	1,304	1,285	1,229	1,145	1,174	1,194	-----
Bars: Hot rolled (incl. light shapes)..... do.	7,961	8,497	444	551	559	547	699	678	776	795	758	716	669	681	701	-----
Reinforcing..... do.	3,249	3,241	251	267	239	221	222	213	263	320	352	337	325	334	320	-----
Cold finished..... do.	1,733	1,815	116	137	131	126	166	152	167	178	165	167	143	150	162	-----
Pipe and tubing..... do.	8,069	10,078	520	600	626	657	749	732	1,017	930	842	848	759	691	702	-----
Wire and wire products..... do.	3,133	3,393	210	252	239	222	249	239	286	303	284	293	252	271	279	-----
Tin mill products..... do.	6,591	7,267	544	770	334	310	504	497	576	553	575	563	582	567	571	-----
Sheets and strip (incl. electrical), total..... do.	32,574	36,624	1,919	2,293	2,343	2,649	3,006	2,892	3,185	3,263	3,352	3,177	3,042	3,251	3,284	-----
Sheets: Hot rolled..... do.	9,312	10,782	530	685	723	941	897	914	968	1,034	1,056	1,080	1,013	1,107	1,093	-----
Cold rolled..... do.	14,709	16,336	789	943	985	1,054	1,379	1,294	1,419	1,448	1,482	1,312	1,283	1,358	1,398	-----
By market (quarterly shipments):																
Service centers and distributors..... do.	14,863	16,099	3,748	-----	-----	3,283	-----	-----	4,021	-----	-----	4,656	2,562	2,433	2,504	-----
Construction, incl. maintenance..... do.	11,375	12,195	3,630	-----	-----	2,279	-----	-----	2,720	-----	-----	3,282	2,016	2,903	2,858	-----
Contractors' products..... do.	4,582	4,922	1,171	-----	-----	953	-----	-----	1,142	-----	-----	1,258	2,399	2,409	2,403	-----
Automotive..... do.	16,488	19,269	3,962	-----	-----	3,642	-----	-----	4,828	-----	-----	4,587	2,131	2,519	2,154	-----
Rail transportation..... do.	3,225	3,048	593	-----	-----	707	-----	-----	916	-----	-----	943	2,247	2,229	2,245	-----
Machinery, industrial equip., tools..... do.	4,994	5,469	1,174	-----	-----	1,028	-----	-----	1,401	-----	-----	1,542	2,435	2,448	2,448	-----
Containers, packaging, ship. materials..... do.	7,255	7,902	1,949	-----	-----	1,493	-----	-----	1,741	-----	-----	1,862	2,631	2,609	2,596	-----
Other..... do.	21,115	22,952	7,168	-----	-----	5,259	-----	-----	5,783	-----	-----	6,435	2,026	2,160	2,188	-----
Steel mill products, inventories, end of period:																
Consumers' (manufacturers only)..... mil. sh. tons.	9.1	10.5	13.3	12.0	11.0	10.5	10.0	10.1	10.1	10.1	10.1	9.8	10.0	10.0	9.9	-----
Receipts during period..... do.	62.5	70.1	4.3	5.2	4.7	4.8	5.6	5.8	6.1	6.2	6.0	5.6	5.2	5.3	5.8	-----
Consumption during period..... do.	63.5	68.7	5.7	6.5	5.7	5.3	6.1	5.7	6.1	6.2	6.0	5.9	5.0	5.3	6.1	-----
Service centers (warehouses)..... do.	5.6	6.3	6.1	5.9	5.9	6.3	5.9	5.6	5.5	5.8	5.6	5.7	5.8	5.8	-----	-----
Producing mills:																
In process (ingots, semifinished, etc.)..... do.	12.5	9.9	9.6	9.3	9.5	9.9	10.1	10.1	10.3	10.3	10.4	10.5	10.8	11.0	11.0	-----
Finished (sheets, plates, bars, pipe, etc.)..... do.	9.6	9.0	7.9	8.0	8.3	9.0	9.2	9.5	9.5	9.6	9.5	9.5	9.6	9.5	9.5	-----
Steel (carbon), finished, composite price..... \$ per lb.	.0850	.0873	.0900	.0897	.0871	.0872	.0891	.0891	.0903	.0903	.0908	.0908	.0931	.0933	.0933	.0933

* Revised. * Preliminary. 1 Annual total; monthly revisions are not available. 2 For month shown. 3 For eleven months.

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS	1967	1968	1968				1969									
	Annual		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
PULP, PAPER, AND PAPER PRODUCTS—Continued																
PAPER AND PAPER PRODUCTS—Con.																
Selected types of paper (API):																
Fine paper:																
Orders, new.....thous. sh. tons..	2,645	2,880	232	243	237	210	274	260	269	271	279	* 264	* 237	* 243	-----	-----
Orders, unfilled, end of period.....do.....	157	216	226	223	226	216	243	244	237	259	280	* 279	* 258	* 250	-----	-----
Production.....do.....	2,659	2,864	229	260	239	235	264	248	256	258	262	* 265	* 285	* 243	-----	-----
Shipments.....do.....	2,658	2,831	229	253	223	235	265	247	256	258	263	* 264	* 235	* 243	-----	-----
Printing paper:																
Orders, new.....do.....	6,335	6,865	560	635	541	533	594	557	620	585	599	* 523	* 541	* 567	-----	-----
Orders, unfilled, end of period.....do.....	449	502	528	541	495	502	498	557	520	555	531	* 551	* 510	* 513	-----	-----
Production.....do.....	6,332	6,737	557	615	552	557	592	551	617	596	586	* 585	* 545	* 578	-----	-----
Shipments.....do.....	6,332	6,737	557	615	552	557	592	551	617	596	586	* 585	* 545	* 578	-----	-----
Coarse paper:																
Orders, new.....do.....	4,678	5,012	437	441	421	392	463	422	467	416	418	* 434	* 418	* 439	-----	-----
Orders, unfilled, end of period.....do.....	214	264	299	275	282	264	272	282	292	261	253	* 283	* 245	* 260	-----	-----
Production.....do.....	4,753	4,992	419	425	430	412	443	428	467	418	433	* 434	* 380	* 433	-----	-----
Shipments.....do.....	4,685	4,931	421	424	422	413	444	423	460	414	422	* 433	* 387	* 427	-----	-----
Newsprint:																
Canada:																
Production.....do.....	8,051	8,031	576	719	702	683	710	681	743	690	748	720	726	751	706	-----
Shipments from mills.....do.....	7,968	8,096	622	760	761	742	644	615	726	684	794	721	720	705	725	-----
Stocks at mills, end of period.....do.....	268	203	362	320	262	203	268	334	351	358	311	309	315	362	343	-----
United States:																
Production.....do.....	2,620	2,935	240	257	248	233	275	252	279	265	277	273	247	269	253	-----
Shipments from mills.....do.....	2,602	2,946	240	259	255	249	265	251	274	262	269	275	249	256	255	-----
Stocks at mills, end of period.....do.....	39	27	52	50	43	27	38	38	44	47	55	53	51	63	62	-----
Consumption by publishers ².....do.....	6,907	7,025	599	645	652	630	564	541	638	616	661	607	550	582	606	-----
Stocks at and in transit to publishers, end of period.....thous. sh. tons..	630	633	559	600	623	633	644	655	673	662	678	647	681	683	676	-----
Imports.....do.....	6,599	6,462	451	568	514	636	489	510	532	567	532	601	604	539	606	-----
Price, rolls, contract, f.o.b. mill, freight allowed or delivered.....\$ per sh. ton..	130.95	141.40	141.40	141.40	141.40	141.40	146.10	146.10	146.10	146.10	146.10	146.10	146.10	146.10	-----	-----
Paperboard (American Paper Institute):																
Orders, new (weekly avg.).....thous. sh. tons..	444	454	470	536	511	454	467	530	556	523	534	528	464	504	506	542
Orders, unfilled.....do.....	318	369	395	921	966	869	894	943	1,009	1,042	1,032	1,035	1,048	963	963	1,004
Production, total (weekly avg.).....do.....	439	450	469	512	502	518	509	512	528	509	534	529	463	514	489	524
Percent of activity (based on 6.5-day week).....	87	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Paper products:																
Shipping containers, corrugated and solid fiber, shipments.....mil. sq. ft. surf. area..	162,506	173,834	15,348	17,156	15,123	13,861	14,384	14,141	15,474	15,706	16,056	14,765	14,754	15,519	16,737	17,856
Folding paper boxes, shipments, index of physical volume.....1947-49=100..	134.5	138.0	141.8	161.2	136.1	142.2	137.4	134.1	139.1	141.4	143.4	139.6	138.4	* 144.3	* 145.5	-----

RUBBER AND RUBBER PRODUCTS

RUBBER																
Natural rubber:																
Consumption.....thous. lg. tons..	488.85	581.86	49.70	54.57	48.97	46.79	50.41	46.40	50.01	49.29	56.54	49.54	* 43.89	46.29	51.77	-----
Stocks, end of period.....do.....	111.66	107.76	107.19	104.69	99.79	107.76	98.00	92.15	104.71	107.43	108.52	107.35	104.91	104.45	107.43	-----
Imports, incl. latex and guayule.....do.....	452.80	540.17	63.33	36.24	43.69	49.58	21.81	49.00	59.78	54.39	48.90	46.66	40.84	55.19	49.49	-----
Price, wholesale, smoked sheets (N.Y.), \$ per lb.....	.199	.198	.201	.215	.228	.228	.221	.231	.239	.270	.260	.268	.285	.314	.279	.265
Synthetic rubber:																
Production.....thous. lg. tons..	1,311.87	2,131.10	172.89	178.43	180.62	183.63	181.63	174.97	193.14	186.20	191.42	183.78	* 179.34	182.99	189.30	-----
Consumption.....do.....	1,628.26	1,896.15	158.82	179.13	161.93	154.85	169.56	163.47	174.07	163.34	165.94	168.46	147.88	157.45	176.02	-----
Stocks, end of period.....do.....	369.94	369.98	361.12	347.40	347.01	369.98	379.54	388.14	392.56	401.22	407.91	413.46	420.86	428.41	421.70	-----
Exports (Bu. of Census).....do.....	290.80	291.93	37.76	13.58	18.28	18.77	4.56	7.03	13.55	25.93	23.22	21.90	18.32	23.65	21.68	-----
Reclaimed rubber:																
Production.....do.....	243.65	257.22	20.33	22.66	20.19	19.88	21.71	20.22	22.12	21.69	19.74	20.16	* 18.06	18.93	19.27	-----
Consumption.....do.....	239.27	250.43	20.19	22.42	19.86	19.15	21.32	21.92	21.90	20.74	20.80	22.38	* 17.06	17.88	19.85	-----
Stocks, end of period.....do.....	28.40	29.58	29.87	29.78	29.64	29.58	29.76	30.42	30.43	31.78	30.59	30.78	* 31.43	31.73	31.12	-----
TIRES AND TUBES																
Pneumatic casings, automotive:																
Production.....thous.....	163,192	203,952	16,506	18,695	16,831	16,186	18,081	17,170	18,269	17,283	16,882	17,435	15,447	15,820	-----	-----
Shipments, total.....do.....	172,939	199,337	18,226	19,623	15,450	12,832	15,223	14,160	17,095	20,046	18,066	20,115	16,681	15,678	-----	-----
Original equipment.....do.....	27,733	58,365	5,305	5,679	5,899	4,398	5,062	4,551	5,212	4,966	4,744	5,009	* 2,514	3,428	-----	-----
Replacement equipment.....do.....	123,985	137,779	12,514	13,681	9,372	8,743	10,074	9,497	11,645	14,830	13,077	14,847	* 13,973	12,025	-----	-----
Export.....do.....	2,121	3,193	407	264	178	190	87	112	238	219	135	259	194	224	-----	-----
Stocks, end of period.....do.....	34,782	12,127	38,719	37,560	30,698	12,127	45,124	48,469	50,365	48,131	47,433	45,135	44,817	44,686	-----	-----
Exports (Bu. of Census).....do.....	1,450	2,518	387	245	157	144	53	26	293	191	174	264	147	275	322	-----
Inner tubes, automotive:																
Production.....do.....	39,775	43,791	3,428	4,094	3,474	3,277	3,899	3,584	3,756	3,562	3,402	3,375	3,160	3,692	-----	-----
Shipments.....do.....	41,691	43,957	3,658	4,230	3,209	3,031	4,720	3,466	3,602	3,600	3,458	4,041	3,929	3,495	-----	-----
Stocks, end of period.....do.....	11,005	11,828	12,442	11,146	11,489	11,828	11,203	11,190	11,546	11,586	11,871	11,499	11,088	11,163	-----	-----
Exports (Bu. of Census).....do.....	349	1,390	266	152	109	57	73	51	118	115	130	91	66	99	111	-----

* Revised. * Preliminary. * Revisions for Jan.-Aug. 1968 for synthetic rubber consumption are as follows (thous. lg. tons): 162.96; 154.29; 162.07; 155.85; 162.67; 153.44; 135.52; 134.33.

2 As reported by publishers accounting for about 75 percent of total newsprint consumption.
3 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, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS

STONE, CLAY, AND GLASS PRODUCTS

	1967	1968	1968				1969									
	Annual		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
PORTLAND CEMENT																
Shipments, finished cement.....thous. bbl.	374,017	397,448	39,855	45,358	30,954	22,760	19,088	20,096	26,106	34,646	39,271	41,012	42,386	42,988	43,086	-----
CLAY CONSTRUCTION PRODUCTS																
Shipments:																
Brick, unglazed (common and face)																
mil. standard brick.....	7,117.4	7,534.0	672.0	741.0	603.2	489.3	430.7	467.2	601.0	693.9	705.6	698.5	699.1	664.9	-----	-----
Structural tile, except facing.....thous. sh. tons.	234.5	192.5	18.3	17.1	15.3	16.5	16.6	18.9	22.0	23.8	23.3	21.3	22.1	19.0	-----	-----
Sewer pipe and fittings, vitrified.....do.	1,572.2	1,705.5	169.6	170.3	128.7	110.4	96.0	108.5	133.6	153.5	163.5	183.1	174.7	170.7	-----	-----
Facing tile (hollow), glazed and unglazed																
mil. brick equivalent.....	240.1	220.6	18.8	21.0	18.2	20.2	17.2	14.9	17.9	17.8	17.7	18.4	18.9	18.5	-----	-----
Floor and wall tile and accessories, glazed and unglazed.....mil. sq. ft.	257.5	274.5	23.9	24.5	21.2	20.2	23.0	21.8	24.8	25.1	25.5	26.2	23.8	24.1	-----	-----
Price index, brick (common), f.o.b. plant or N.Y. dock.....1957-59=100.	113.4	117.1	117.6	118.1	119.6	120.2	120.4	120.5	120.5	122.2	122.4	122.6	122.7	122.7	-----	-----
GLASS AND GLASS PRODUCTS																
Flat glass, mfrs.' shipments.....thous. \$.	332,067	387,469	98,192	-----	-----	108,776	-----	-----	117,708	-----	-----	108,684	-----	-----	-----	-----
Sheet (window) glass, shipments.....do.	131,567	139,391	35,843	-----	-----	39,539	-----	-----	39,560	-----	-----	36,987	-----	-----	-----	-----
Plate and other flat glass, shipments.....do.	200,500	248,078	62,349	-----	-----	69,237	-----	-----	78,148	-----	-----	71,697	-----	-----	-----	-----
Glass containers:																
Production.....thous. gross.	225,579	(¹)	21,368	22,870	21,120	19,921	22,370	19,362	23,205	21,056	22,453	22,743	21,527	22,362	21,573	-----
Shipments, domestic, total.....do.	228,766	(¹)	20,034	20,902	18,705	20,795	18,627	17,851	20,801	20,973	21,242	22,246	21,795	22,623	22,836	-----
General-use food:																
Narrow-neck food.....do.	23,631	(¹)	2,681	2,252	1,575	1,698	1,858	1,737	2,174	1,882	1,876	1,970	2,055	2,590	2,816	-----
Wide-mouth food (incl. packers' tumblers, jelly glasses, and fruit jars).....thous. gross.	57,852	(¹)	4,763	5,591	4,983	5,017	4,703	4,311	4,546	4,598	4,580	4,745	4,702	5,269	5,332	-----
Beverage:																
Beverage.....do.	38,185	(¹)	3,609	4,190	3,882	5,113	3,454	3,386	4,226	4,665	5,098	5,952	5,400	4,841	4,586	-----
Beer bottles.....do.	44,501	(¹)	4,081	3,373	3,268	3,506	3,617	3,406	4,328	4,586	4,573	4,359	5,114	4,927	4,802	-----
Liquor and wine.....do.	19,459	(¹)	1,637	1,802	1,586	1,673	1,557	1,513	1,818	1,743	1,598	1,823	1,594	1,668	1,869	-----
Medicinal and toilet:																
Medicinal and toilet.....do.	38,516	(¹)	2,810	3,189	2,934	3,237	2,996	3,064	3,220	3,075	3,103	2,983	2,556	2,902	3,018	-----
Chemical, household and industrial.....do.	5,664	(¹)	390	440	417	483	380	386	434	379	366	366	330	381	365	-----
Dairy products.....do.	958	(¹)	63	65	60	68	62	48	55	45	48	48	44	45	48	-----
Stocks, end of period.....do.	22,546	23,518	20,709	22,463	24,626	23,518	27,146	28,512	30,798	30,700	31,680	31,962	31,470	30,960	29,365	-----
GYPSUM AND PRODUCTS (QTRLY)																
Crude gypsum, total:																
Imports.....thous. sh. tons.	4,722	5,454	1,604	-----	-----	1,379	-----	-----	1,022	-----	-----	1,450	-----	-----	-----	-----
Production.....do.	9,393	10,018	2,720	-----	-----	2,566	-----	-----	2,189	-----	-----	2,615	-----	-----	-----	-----
Calcined, production, total.....do.	7,879	8,844	2,420	-----	-----	2,172	-----	-----	2,208	-----	-----	2,317	-----	-----	-----	-----
Gypsum products sold or used, total:																
Uncalcined uses.....do.	4,511	4,935	1,352	-----	-----	1,257	-----	-----	692	-----	-----	1,497	-----	-----	-----	-----
Industrial uses.....do.	293	301	76	-----	-----	74	-----	-----	78	-----	-----	81	-----	-----	-----	-----
Building uses:																
Plasters:																
Base-coat.....do.	561	536	145	-----	-----	121	-----	-----	119	-----	-----	127	-----	-----	-----	-----
All other (incl. Keene's cement).....do.	813	778	213	-----	-----	186	-----	-----	165	-----	-----	178	-----	-----	-----	-----
Lath:																
Lath.....mil. sq. ft.	949	999	287	-----	-----	235	-----	-----	222	-----	-----	251	-----	-----	-----	-----
Wallboard.....do.	7,089	8,283	2,365	-----	-----	2,017	-----	-----	2,025	-----	-----	2,254	-----	-----	-----	-----
All other.....do.	243	269	80	-----	-----	64	-----	-----	67	-----	-----	78	-----	-----	-----	-----

TEXTILE PRODUCTS

WOVEN FABRICS																
Woven fabrics (gray goods), weaving mills:¹																
Production, total.....mil. linear yd.	12,479	12,693	1,009	21,248	998	903	21,270	1,028	1,034	21,229	1,018	1,008	2,983	978	-----	-----
Cotton.....do.	8,281	7,408	574	2,708	564	509	2,686	577	578	2,693	588	561	2,526	552	-----	-----
Manmade fiber.....do.	3,981	5,052	419	2,521	419	380	2,582	433	438	2,513	413	432	2,440	412	-----	-----
Stocks, total, end of period.....do.																
Cotton.....do.	1,386	1,366	1,341	1,312	1,306	1,366	1,296	1,252	1,245	1,249	1,275	1,333	1,360	1,376	-----	-----
Manmade fiber.....do.	839	739	747	713	717	739	677	640	634	630	651	669	671	691	-----	-----
Manmade fiber.....do.	533	611	580	585	575	611	604	596	596	603	610	652	674	671	-----	-----
Orders, unfilled, total, end of period.....do.																
Cotton.....do.	3,353	3,098	3,004	3,114	3,146	3,098	3,016	3,041	3,067	3,141	3,138	3,170	3,139	3,026	-----	-----
Manmade fiber.....do.	2,064	1,627	1,495	1,569	1,609	1,627	1,588	1,564	1,619	1,625	1,601	1,617	1,634	1,593	-----	-----
Manmade fiber.....do.	1,209	1,384	1,418	1,461	1,451	1,384	1,338	1,374	1,343	1,413	1,443	1,470	1,420	1,360	-----	-----
COTTON																
Cotton (exclusive of linters):																
Production:																
Ginnings.....thous. running bales.	7,439	10,917	1,414	5,950	9,171	10,049	10,834	-----	10,917	-----	-----	80	528	1,610	5,789	-----
Crop estimate, equivalent 500-lb. bales.....thous. bales.	7,458	10,948	-----	-----	-----	-----	-----	-----	10,948	-----	-----	-----	-----	-----	-----	-----
Consumption.....do.	9,215	8,568	643	2,813	658	577	2,806	647	664	2,792	656	644	2,649	629	639	10,036
Stocks in the United States, total, end of period.....thous. bales.																
Domestic cotton, total.....do.	14,563	13,010	15,644	14,691	13,854	13,010	12,155	11,458	10,671	9,318	8,303	7,469	6,520	16,769	15,420	-----
On farms and in transit.....do.	14,472	12,958	15,590	14,631	13,798	12,958	12,108	11,413	10,630	9,278	8,269	7,436	6,489	16,736	15,396	-----
Public storage and compresses.....do.	1,509	1,580	10,264	6,322	3,484	1,580	1,075	964	824	678	538	506	400	11,031	9,619	-----
Consuming establishments.....do.	11,369	9,807	3,819	6,890	8,839	9,807	9,312	8,626	7,934	6,762	5,925	5,203	4,466	4,258	4,455	-----
Foreign cotton, total.....do.	1,594	1,571	1,507	1,419	1,475	1,571	1,721	1,823	1,872	1,838	1,805	1,728	1,623	1,447	1,322	-----
Foreign cotton, total.....do.	91	52	55	59	56	52	48	45	41	40	34	33	31	33	24	-----

¹ Revised. ² Reported annual total; revisions not allocated to the months. ³ Data cover 5 weeks; other months, 4 weeks. ⁴ Ginnings to Dec. 13. ⁵ Ginnings to Jan. 16. ⁶ Crop for the year 1968. ⁷ Data not available owing to lack of complete reports from the industry. ⁸ Nov. 1 estimate of 1969 crop. ⁹ Includes data not shown separately. ¹⁰ Effective Aug. 1969 SURVEY, data (1964-Apr. 1969) reflect adjustments to new benchmarks; see Bureau of Census reports: Woven Fabrics (1964-68), Series M22A-Supplement and (Jan.-Apr. 1969), M22A (69) 1-4 Supplement.

¹

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS	1967	1968	1968				1969									
	Annual		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
TEXTILE PRODUCTS—Continued																
COTTON—Continued																
Cotton (exclusive of linters)—Continued																
Exports.....thous. bales.....	3,973	3,870	262	152	185	276	55	55	130	568	363	194	278	147	141	-----
Imports.....do.....	169	95	44	2	1	1	(9)	1	3	5	6	3	1	1	4	-----
Price (farm), American upland.....cents per lb..	125.4	* 21.9	26.2	26.5	24.2	21.6	19.2	19.6	20.5	20.6	20.1	21.2	21.7	20.5	19.4	21.7
Price, middling 1", avg. 12 markets.....do.....	124.8	* 23.4	25.0	24.3	23.3	22.7	22.5	22.2	22.1	22.0	21.9	21.9	21.9	21.6	21.4	21.7
Cotton linters:																
Consumption.....thous. bales.....	1,080	1,107	92	* 114	93	80	* 110	97	91	* 115	90	82	* 83	85	91	-----
Production.....do.....	977	998	42	160	156	166	170	142	129	113	97	69	42	34	52	-----
Stocks, end of period.....do.....	617	405	255	308	359	405	460	498	539	525	497	458	431	* 401	338	-----
COTTON MANUFACTURES																
Spindle activity (cotton system spindles):																
Active spindles, last working day, total.....mil..	20.0	20.0	20.2	20.2	20.0	20.0	19.9	20.0	19.9	19.9	20.0	19.9	19.9	19.8	19.8	-----
Consuming 100 percent cotton.....do.....	14.4	13.1	13.3	13.3	13.1	13.1	13.0	13.1	13.1	13.0	13.1	13.0	12.9	12.8	12.7	-----
Spindle hours operated, all fibers, total.....bil..	126.2	128.0	9.9	* 12.5	9.9	8.6	* 12.2	9.8	10.1	* 12.1	10.0	9.8	* 10.2	9.6	9.6	-----
Average per working day.....do.....	.486	.493	.495	.502	.495	.431	.488	.490	.505	.486	.501	.490	.406	* .480	.482	-----
Consuming 100 percent cotton.....do.....	94.4	85.9	6.5	* 8.3	6.5	5.6	* 7.9	6.4	6.6	* 8.0	6.5	6.4	* 6.4	6.2	6.2	-----
Cotton yarn, price, 36/2, combed, knit.....\$ per lb..	.942	1.049	1.037	1.032	1.032	1.032	1.032	1.032	1.032	1.027	1.027	1.024	1.024	1.024	-----	-----
Cotton cloth:																
Cotton broadwoven goods over 12" in width:																
Production (qtrly.).....mil. lin. yd..	8,278	7,454	1,712	-----	-----	1,779	-----	-----	1,833	-----	-----	-----	-----	-----	-----	-----
Orders, unfilled, end of period, as compared with avg. weekly production.....No. weeks' prod..	15.4	13.8	11.6	12.4	12.4	13.8	13.2	12.4	12.6	13.2	12.3	13.0	17.5	12.9	12.7	-----
Inventories, end of period, as compared with avg. weekly production.....No. weeks' prod..	5.2	5.3	5.3	5.1	5.0	5.3	5.6	5.2	5.0	5.1	5.0	5.2	6.8	5.3	5.4	-----
Ratio of stocks to unfilled orders (at cotton mills), end of period, seasonally adjusted.....	.35	.40	.44	.41	.40	.40	.43	.43	.41	.39	.40	.39	.38	.40	.41	-----
Exports, raw cotton equiv.*.....thous. bales.....	268.1	256.0	29.8	17.5	25.5	21.5	8.0	15.4	35.3	29.6	33.5	28.2	23.7	27.1	26.3	-----
Imports, raw cotton equiv.*.....do.....	527.0	559.6	54.7	49.1	44.1	36.0	16.1	29.6	60.9	71.8	47.4	63.5	45.5	57.2	45.2	-----
Mill margins:*																
Carded yarn cloth average.....cents per lb..	37.75	37.73	38.10	39.03	40.80	42.02	42.53	43.08	42.92	42.71	42.73	42.81	43.02	43.51	44.03	44.06
Combed yarn cloth average.....do.....	75.60	* 93.25	91.72	93.31	95.20	98.55	* 109.27	109.24	107.86	108.08	108.30	107.28	106.90	107.42	107.60	107.46
Blends (65% polyester-35% cotton).....do.....	* 61.45	64.40	62.24	60.31	60.51	60.68	58.60	55.01	55.15	58.70	60.94	59.60	60.22	60.03	59.52	60.36
Prices, wholesale:																
Print cloth, 39 inch, 68 x 72.....cents per yard..	-----	17.3	17.5	17.5	17.8	17.8	17.8	18.8	18.5	18.5	19.0	19.0	19.0	19.0	19.0	-----
Sheeting, class B, 40-inch, 48 x 44-48.....do.....	* 18.4	18.6	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.5	18.8	-----	-----
MANMADE FIBERS AND MANUFACTURES																
Fiber production, qtrly. total.....mil. lb..	3,980.6	5,134.5	1,300.9	-----	-----	1,393.5	-----	-----	1,364.3	-----	-----	1,377.6	-----	-----	-----	-----
Filament yarn (rayon and acetate).....do.....	734.7	805.2	204.7	-----	-----	218.9	-----	-----	203.4	-----	-----	191.3	-----	-----	-----	-----
Staple, incl. tow (rayon).....do.....	603.4	739.1	180.4	-----	-----	198.7	-----	-----	190.4	-----	-----	191.8	-----	-----	-----	-----
Noncellulosic, except textile glass:																
Yarn and monofilaments.....do.....	1,213.9	1,649.5	422.5	-----	-----	442.4	-----	-----	445.3	-----	-----	446.3	-----	-----	-----	-----
Staple, incl. tow.....do.....	1,119.8	1,538.0	391.5	-----	-----	421.1	-----	-----	416.9	-----	-----	427.7	-----	-----	-----	-----
Textile glass fiber.....do.....	308.8	402.7	101.8	-----	-----	112.4	-----	-----	108.3	-----	-----	120.5	-----	-----	-----	-----
Exports: Yarns and monofilaments.....thous. lb..	* 88,831	96,390	8,396	5,573	8,812	8,486	5,231	4,237	9,048	9,801	9,285	7,554	9,952	9,886	8,774	-----
Staple, tow, and tops.....do.....	78,293	108,253	9,185	6,200	10,040	11,798	5,497	6,807	12,366	13,132	11,878	10,983	8,478	10,433	11,122	-----
Imports: Yarns and monofilaments.....do.....	28,194	* 59,303	6,124	4,026	3,614	4,937	2,416	2,900	3,548	3,017	2,335	2,951	2,178	4,564	2,979	-----
Staple, tow, and tops.....do.....	* 149,672	217,707	18,376	16,599	15,804	19,925	4,804	5,767	13,929	18,863	15,857	18,333	17,090	16,946	12,989	-----
Stocks, producers', end of period:																
Filament yarn (rayon and acetate).....mil. lb..	51.7	59.4	49.1	-----	-----	59.4	-----	-----	67.0	-----	-----	68.8	-----	-----	-----	-----
Staple, incl. tow (rayon).....do.....	43.8	59.0	52.4	-----	-----	59.0	-----	-----	59.3	-----	-----	54.5	-----	-----	-----	-----
Noncellulosic fiber, except textile glass:																
Yarn and monofilaments.....do.....	138.7	194.3	168.3	-----	-----	194.3	-----	-----	233.8	-----	-----	247.9	-----	-----	-----	-----
Staple, incl. tow.....do.....	142.4	210.9	183.4	-----	-----	210.9	-----	-----	215.5	-----	-----	223.5	-----	-----	-----	-----
Textile glass fiber.....do.....	40.4	47.3	44.4	-----	-----	47.3	-----	-----	48.7	-----	-----	51.6	-----	-----	-----	-----
Prices, manmade fibers, f.o.b. producing plant:																
Staple: Polyester, 1.5 denier.....\$ per lb..	.66	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	.61	-----
Yarn: Rayon (viscose), 150 denier.....do.....	.81	.85	.87	.88	.88	.88	.90	.90	.90	.89	.89	.89	.89	.89	.89	-----
Acrylic (spun), knitting, 2/20, 3-6 D.....do.....	1.52	1.42	1.43	1.42	1.42	1.41	1.42	1.42	1.42	1.42	1.43	1.43	1.42	1.42	-----	-----
Manmade fiber and silk broadwoven fabrics:																
Production (qtrly.).....mil. lin. yd..	4,265.5	5,280.4	1,288.9	-----	-----	1,391.7	-----	-----	1,453.9	-----	-----	-----	-----	-----	-----	-----
Filament yarn (100%) fabrics.....do.....	1,620.4	1,829.4	444.3	-----	-----	476.7	-----	-----	476.0	-----	-----	-----	-----	-----	-----	-----
Chiefly rayon and/or acetate fabrics.....do.....	754.0	771.7	178.8	-----	-----	197.8	-----	-----	199.8	-----	-----	-----	-----	-----	-----	-----
Chiefly nylon fabrics.....do.....	* 324.2	-----	89.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Spun yarn (100%) fab., exc. blanketing.....do.....	1,999.9	2,754.4	678.2	-----	-----	735.6	-----	-----	787.2	-----	-----	-----	-----	-----	-----	-----
Rayon and/or acetate fabrics and blends.....do.....	600.2	679.4	158.6	-----	-----	169.3	-----	-----	182.6	-----	-----	-----	-----	-----	-----	-----
Polyester blends with cotton.....do.....	1,195.6	1,756.7	436.7	-----	-----	470.7	-----	-----	503.8	-----	-----	-----	-----	-----	-----	-----
Filament and spun yarn fabrics (combinations and mixtures).....mil. lin. yd..	427.9	469.5	110.2	-----	-----	121.1	-----	-----	130.3	-----	-----	-----	-----	-----	-----	-----
WOOL																
Wool consumption, mill (clean basis):																
Apparel class.....mil. lb..	228.7	238.3	17.8	* 22.5	17.0	16.3	* 22.9	17.1	18.2	* 23.5	18.9	18.2	* 18.8	* 16.9	14.1	-----
Carpet class.....do.....	83.9	91.4	7.1	* 8.8	7.1	6.7	* 9.6	7.5	6.9	* 8.9	7.3	7.6	* 7.6	* 7.0	7.6	-----
Wool imports, clean yield.....do.....	187.3	249.4	20.6	17.7	16.4	18.1	10.9	9.2	19.9	22.0	19.2	14.7	15.9	23.7	12.3	-----
Duty-free (carpet class).....do.....	78.2	119.6	12.5	9.2	9.0	7.6	3.1	2.7	9.9	11.3	9.7	6.5	10.8	14.0	7.1	-----
Wool prices, raw, clean basis, Boston:																
Good French combing and staple:																
Graded territory, fine.....\$ per lb..	1.215	1.207	1.210	1.215	1.245	1.245	1.245	1.239	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.218
Graded fleece, 3/8 blood.....do.....	.910	.840	.840	.864	.880	.880	.880	.880	.858	.850	.850	.850	.850	.850	.850	.850
Australian, 64s, 70s, good topmaking.....do.....	1.153	1.180	1.175	1.191	1.195	1.195	1.195	1.195	1.195	1.195	1.195	1.195	1.195	1.195	1.195	1.175
WOOL MANUFACTURES																
Knitting yarn, worsted, 2/20s-50s/56s, American system, wholesale price.....1957-59=100..	92.6	91.0	91.8	92.4	93.4	93.4	93.1	92.9	92.9	92.9	92.6	92.6	92.6	92.3	-----	-----
Wool broadwoven goods, exc. felts:																
Production (qtrly.).....mil. lin. yd..	238.6	243.3	56.7	-----	-----	55.7	-----	-----	* 68.3	-----	-----	67.1	-----	-----	-----	-----
Price (wholesale), suiting, flannel, men's and boys', f.o.b. mill.....1957-59=100..	101.7	100.9	101.1	101.1	101.1	102.1	102.1	102.1	102.1	102.1	102.1	102.1	103.0	103.0	-----	-----

* Revised. ¹ Season average. ² For 5 weeks, other months, 4 weeks. ³ Beginning Jan. 1969, the average omits two cloths previously included (Dec. 1968 margins comparable with new data, 107.87 cents). ⁴ For 10 months. ⁵ Revised total; revisions not distributed by months. ⁶ Less than 500 bales. ⁷ Avg. for 5 months, Aug.-Dec. ⁸ Avg. for 6 months, July-Dec. ⁹ Season average to Apr. 1, 1969.

Unless otherwise stated, statistics through 1966 and descriptive notes are shown in the 1967 edition of BUSINESS STATISTICS	1967	1968	1968				1969									
	Annual		Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
TEXTILE PRODUCTS—Continued																
APPAREL																
Hosiery, shipments.....thous. doz. pairs	223,482	225,588	19,539	21,635	20,634	16,590	18,170	18,514	20,316	18,360	18,951	22,303	20,771	21,144	20,897	
Men's apparel, cuttings:																
Tailored garments:																
Suits.....thous. units	19,719	21,710	1,836	2,352	1,869	1,620	2,193	2,091	2,082	2,277	2,092	2,065	1,305			
Overcoats and topcoats.....do	4,770	4,141	420	395	304	244	290	218	286	313	317	323	213			
Coats (separate), dress and sport.....do	13,726	14,036	1,074	1,367	1,292	1,028	1,354	1,240	1,299	1,302	1,234	1,136	852			
Trousers (separate), dress and sport.....do	138,571	158,353	13,417	14,594	13,214	10,350	13,367	13,635	14,433	14,341	15,841	14,472	12,999			
Shirts (woven fabrics), dress and sport.....thous. doz.	22,835	24,038	1,858	2,312	1,982	1,601	1,974	1,989	1,957	1,886	1,953	1,893	1,654			
Work clothing:																
Dungarees and waistband overalls.....do	7,464	6,945	676	629	691	632	628	588	675	612	674	709	808			
Shirts.....do	4,042	3,310	268	340	287	228	293	315	290	295	297	285	243			
Women's, misses', juniors' outerwear, cuttings:																
Coats.....thous. units	22,414	21,370	2,051	2,222	1,899	1,362	1,765	1,708	1,435	1,247	1,405	1,679	1,707	1,727		
Dresses.....do	279,864	270,257	19,892	22,984	19,371	17,261	20,976	23,017	26,035	25,458	22,413	20,614	19,089	19,980		
Suits.....do	7,983	8,152	532	622	514	492	648	592	536	319	360	425	541	496		
Blouses, waists, and shirts.....thous. doz.	14,064	15,095	1,148	1,389	1,205	915	1,180	1,240	1,274	1,178	1,188	1,129	1,160	1,142		
Skirts.....do	3,548	7,845	645	773	545	385	760	601	739	662	576	598	830	646		
TRANSPORTATION EQUIPMENT																
AEROSPACE VEHICLES																
Orders, new (net), qtrly. total.....mil. \$	26,900	127,168	7,149			6,044			6,450			4,404				
U.S. Government.....do	18,538	116,577	5,577			3,479			4,370			2,462				
Prime contract.....do	24,423	124,575	6,509			5,207			5,566			3,756				
Sales (net), receipts, or billings, qtrly. total.....do	23,444	25,592	6,257			6,793			6,047			6,333				
U.S. Government.....do	16,334	16,635	3,991			4,499			3,941			4,284				
Backlog of orders, end of period:																
U.S. Government.....do	30,936	130,749	31,497			30,749			31,346			29,417				
Aircraft (complete) and parts.....do	17,950	116,343	17,330			16,343			16,738			14,965				
Engines (aircraft) and parts.....do	16,401	116,608	17,389			16,608			17,303			16,342				
Missiles, space vehicle systems, engines, propulsion units, and parts.....mil. \$	4,252	13,951	3,824			3,951			4,146			4,192				
Other related operations (conversions, modifications), products, services.....mil. \$	5,704	15,083	5,164			5,083			4,772			4,052				
Aircraft (complete):																
Shipments.....do	2,981.5	4,355.1	311.6	337.7	414.9	390.0	338.4	352.2	367.4	346.4	373.5	242.2	290.2	268.6		
Airframe weight.....thous. lb.	56,739	76,202	5,668	5,782	6,850	6,264	5,858	5,598	6,524	6,011	6,201	4,180	4,832	4,131		
Exports.....mil. \$	786.5	1,403.1	94.1	53.5	160.7	132.4	133.4	153.8	139.8	116.5	83.2	73.3	83.8	93.0	36.1	
MOTOR VEHICLES																
Factory sales (from plants in U.S.), total.....thous.	8,976.2	10,718.2	816.9	1,125.2	1,040.7	881.9	976.5	864.7	932.3	876.8	861.1	940.9	617.1	473.7	907.3	21,048.5
Domestic.....do	8,484.6	10,172.2	769.4	1,065.2	984.3	832.2	933.3	825.0	878.4	825.8	806.2	891.1	589.2	447.2	851.2	
Passenger cars, total.....do	7,436.8	8,822.2	656.4	935.2	876.6	732.1	815.4	707.4	763.3	714.3	720.2	777.1	465.2	346.4	751.6	850.5
Domestic.....do	7,070.2	8,407.1	620.0	889.5	831.0	693.7	782.1	677.4	721.7	677.3	678.5	741.1	447.3	329.8	707.4	
Trucks and buses, total.....do	1,539.5	1,896.1	160.5	190.0	164.1	149.8	161.1	157.3	169.0	162.5	140.8	163.8	152.0	127.3	155.7	198.0
Domestic.....do	1,414.4	1,765.1	149.4	175.8	153.3	138.5	151.2	147.7	156.7	148.5	127.8	150.0	141.9	117.4	143.8	
Exports:																
Passenger cars (new), assembled.....do	280.58	330.46	27.71	30.32	36.28	30.96	25.73	23.56	34.64	28.50	33.24	27.09	16.95	10.92	35.13	
To Canada.....do	236.64	286.78	23.60	26.24	30.79	26.00	24.75	20.77	20.46	24.10	30.20	24.84	14.95	9.48	31.39	
Trucks and buses (new), assembled.....do	82.24	92.03	8.84	7.83	10.03	9.67	5.72	6.59	10.97	11.82	9.83	10.24	7.92	7.97	7.45	
Imports:																
Passenger cars (new), complete units.....do	1,020.62	1,620.45	126.02	143.10	154.81	164.36	106.32	121.48	137.47	182.77	185.26	185.53	160.15	120.38	148.65	
From Canada, total.....do	323.65	500.88	42.57	54.65	55.77	51.67	50.21	48.23	46.65	51.72	63.89	68.52	40.99	26.58	68.37	
Trucks and buses, complete units.....do	75.07	114.65	10.50	13.60	13.95	11.99	12.84	8.23	13.12	12.96	14.61	12.65	8.63	9.70	11.90	
Shipments, truck trailers:																
Complete trailers and chassis.....number	96,539	113,928	9,544	9,980	9,701	9,685	9,890	11,055	12,760	12,561	12,474	12,606	11,370	10,685		
Vans.....do	59,147	75,148	6,475	7,036	6,774	6,616	6,739	7,405	8,581	7,910	7,935	8,942	7,941	7,517		
Trailer bodies and chassis (detachable), sold separately.....number	27,497	33,761	3,703	3,769	3,966	4,534	1,605	3,025	3,079	2,195	1,530	1,754	2,368	2,829		
Registrations (new vehicles):																
Passenger cars.....thous.	38,357.4	39,403.9	705.3	880.3	757.0	977.3	657.6	607.5	681.2	876.0	889.1	841.9	815.3	718.8	733.4	
Foreign cars.....do	779.2	985.8	94.7	103.8	84.2	97.6	63.4	53.4	58.1	98.3	107.9	91.7	90.2	95.6	95.1	
Trucks (commercial cars).....do	1,518.4	1,775.6	148.5	170.3	140.3	185.5	133.2	124.5	144.0	174.6	172.8	160.9	169.6	153.8	149.1	
RAILROAD EQUIPMENT																
Freight cars (ARCI):																
Shipments.....number	83,095	56,262	4,448	4,533	4,097	4,566	4,452	5,205	5,312	6,571	5,826	5,445	4,861	5,482	6,881	
Equipment manufacturers, total.....do	64,775	38,991	3,062	3,319	2,670	3,736	3,823	4,439	4,516	5,353	4,667	3,888	3,770	4,032	4,879	
Railroad shops, domestic.....do	18,320	17,271	1,386	1,214	1,427	830	629	766	796	1,218	1,159	1,557	1,091	1,450	2,002	
New orders.....do	53,703	63,561	4,321	9,793	9,630	9,356	7,753	3,641	5,957	19,721	6,263	7,968	5,747	2,679	4,504	
Equipment manufacturers, total.....do	38,468	49,391	4,221	6,775	7,830	7,039	4,325	3,136	5,157	19,329	6,203	6,683	3,047	2,284	4,021	
Railroad shops, domestic.....do	15,235	14,170	100	3,018	1,800	2,317	3,428	505	800	392	60	1,285	2,700	395	483	
Unfilled orders, end of period.....do	24,917	31,740	16,229	21,400	26,939	31,740	34,994	33,439	34,073	47,208	47,445	50,395	51,233	47,915	45,133	
Equipment manufacturers, total.....do	14,276	24,540	12,693	16,060	21,226	24,540	24,995	23,701	24,331	38,292	39,628	42,850	42,079	39,816	38,853	
Railroad shops, domestic.....do	10,641	7,200	3,536	5,340	5,713	7,200	9,999	9,738	9,742	8,916	7,817	7,545	9,154	8,099	6,280	
Freight cars (revenue), class 1 railroads (AAR):																
Number owned, end of period.....thous.	1,482	1,458	1,466	1,463	1,461	1,458	1,456	1,455	1,452	1,449	1,448	1,446	1,443	1,442	1,441	
Held for repairs, % of total owned.....do	5.1	5.2	5.4	5.2	5.2	5.2	5.2	5.2	5.3	5.1	5.2	5.3	5.4	5.5	5.5	
Capacity (carrying), aggregate, end of period.....mil. tons	93.15	93.82	93.66	93.83	93.84	93.82	93.91	93.88	93.91	93.94	93.96	94.01	93.96	93.98	94.15	
Average per car.....tons	62.85	64.34	63.90	64.12	64.23	64.34	64.50	64.54	64.68	64.82	64.87	65.02	65.11	65.19	65.35	

Revised. ¹ Beginning 1st quarter 1968, value of new orders and backlog refers to orders on a funded order basis for Government contracts and on binding legal documents (or equivalent) for commercial business. ² Preliminary estimate of production. ³ Annual total includes revisions not distributed by months. ⁴ Includes delayed registrations for seven States. ⁵ Beginning Jan. 1969, data exclude vehicles on runners and skis. ⁶ Data for 1967-68 are understated by from 3 to 5 percent and are not strictly comparable with figures beginning 1969. ⁷ Omits data for 1 State. ⁸ Preliminary; refers to domestic business only.

⁹ Total includes backlog for nonrelated products and services and basic research. ¹⁰ New series; Data include military-type planes shipped to foreign governments. ¹¹ Bureau of the Census. Beginning in the July 1969 SURVEY, imports are restated to include duty-paid cars from Canada. ¹² Courtesy of R. L. Polk & Co.; republication prohibited. ¹³ Excludes railroad-owned private refrigerator cars and private line cars.

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