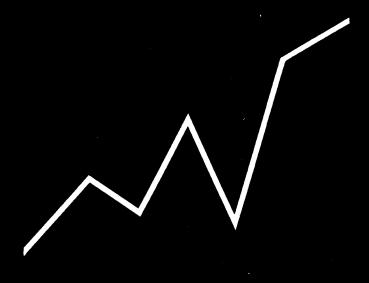
SURVEY OF CURRENT BUSINESS



UNITED STATES DEPARTMENT OF COMMERCE / BUREAU OF ECONOMIC ANALYSIS

SURVEY OF CURRENT BUSINESS

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General S1Industry **S22**

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

First-Class mail.—Domestic only: Annual subscription

\$46.00. Single copy: \$5.00.

Second-class mail.—Annual subscription: \$27.00 domestic; \$33.75 foreign. Single copy: \$3.75 domestic; \$4.70 foreign.

Foreign air mail rates available upon request.

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

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

The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 1, 1983.

MN, Minneapolis 55401 110 S. 4th St. 725-2133

Footnotes

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the BUSINESS SITUATION

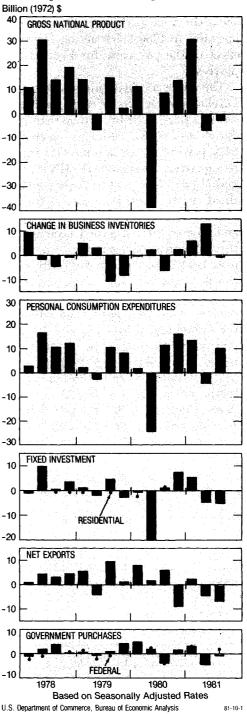
THE economy weakened further in the third quarter. Real GNP declined ½ percent at an annual rate, after a 1½-percent decline in the second quarter.¹ Estimates of components making up the four-fifths of GNP for which monthly source data are available indicate that real GNP has trended down since January-February.

Although the second- and third-quarter declines in real GNP were small, there were both large increases and large declines in the components (chart 1). This feature is brought into sharper focus by a separation of real GNP, final sales, and inventory change (CBI) into their motor vehicle and nonvehicle components (table 1). For motor vehicles, large changes in final sales and large changes in CBI tended to offset each other in their impact on the change in GNP. In the third quarter, final sales were up \$6 billion and CBI was down \$8 billion.² In the second quarter, it was

final sales that were down, \$11 billion, and it was CBI that was up, \$13 billion. For nonvehicle components, final sales declined in both quarters—the same amount, \$71/2 billion, and with the same pattern. Increases in nonvehicle personal consumption expenditures and nonresidential structures were more than offset by declines in each of the other nonvehicle components, i.e., producers' durable equipment, residential investment, net exports, and government purchases. In the third quarter, the decline in nonvehicle final sales was offset in its impact on the change in GNP by an increase in nonvehicle CBI; in the second quarter, the change in CBI was negligible.

These kinds of changes suggest that several strong causal factors—some countering each other, some reinforcing-have been at work. The impact of persistently high interest rates—whether a result of monetary policy or a reflection of inflation—can be seen in several GNP components: residential investment, motor vehicles (although strongly affected by other factors as well), consumer spending on items such as furniture and household equipment, and State and local government construction. Price changes, including auto rebates, help explain some components of consumer spending. Also, the appreciation of the dollar against foreign currencies had a strong impact on net exports. There is no evidence, however, that the new Federal fiscal policy has affected GNP in a major way. Although some categories of expenditure-most importantly, grants-in-aid to State and local governments-have turned down, most of the changes in expenditures are yet to be felt. The tax cuts enacted as part of the Economic Recovery Tax Act

Real Product: Change From Preceding Quarter



^{1.} The third-quarter GNP estimates are based on the following major source data: For personal consumption expenditures (PCE), retail sales, and unit auto and truck sales through September; for nonresidential fixed investment, the same information for autos and trucks as for PCE, manufacturers' shipments of machinery and equipment for July and August, July and August construction put in place, and investment plans for the quarter; for residential investment, July and August construction put in place, and housing starts for July and August: for change in business inventories, July and August book values for manufacturing and trade, and unit auto inventories through September; for net exports of goods and services, July and August merchandise trade, and fragmentary information on investment income for the quarter; for government purchases of goods and services, Federal unified budget outlays for July and August, State and local construction put in place for July and August, and State and local employment through September; and for GNP prices, the Consumer Price Index for July and August the Producer Price Index through September, and unit value indexes for exports and imports for July and August. Some of these source data are subject to revision.

^{2.} Quarterly estimates of the national income and product accounts are expressed at seasonally adjusted annual rates, and quarterly changes in them are differences between these rates.

of 1981 are unlikely to have as yet affected the spending and saving of investors or consumers.

Prices.—Food and energy price increases have continued to fluctuate widely and have largely accounted for changes in the rate of increase in the price of GNP. The fixed-weighted price index for GNP increased at annual rates of 10, 8, and 9 percent in the first three quarters of this year; the increase in the price of GNP less the food and energy components held fairly steady at around 9 percent (table 2). These increases were about the same as the average quarterly increases in 1980 (abstracting from the effect of the pay raise for Federal employees).

The price of final sales to domestic purchasers—i.e., the price of goods and services purchased by, rather than produced by, U.S. residents-increased 10½ percent at an annual rate in the first quarter, the same as the GNP price, and 71/2 and 8 percent in the second and third quarters, less than the GNP price (table 3). The performance of export and import prices, which account for the difference between the two measures, both improved substantially after the first quarter. Export prices, after increasing 111/2 percent in the first quarter, increased only moderately in the second and third— $5\frac{1}{2}$ and $4\frac{1}{2}$ percent. However, import prices improved more. After increasing 12 percent in the first quarter, they showed only a small increase in the second and a 6percent decline in the third. It is likely that the strong appreciation of the dollar since mid-1980 contributed to the

Table 1.—Real GNP and Motor Vehicle Output: Change From Preceding Quarter [Billions of 1972 dollars, based on seasonally adjusted annual rates]

		1981	
	r	II	ш
GNP Less: Motor vehicle outputGNP less motor vehicle output	30. 8 7 31. 5	-6.0 1.8 -7.8	-2, 2 -1, 9 -, 3
Final sales Less: Motor vehicles Final sales less motor vehicles Personal consumption expenditures less motor vehicles Nonresidential structures Producers' durable equipment less motor vehicles Residential investment Net exports less motor vehicles Government purchases less motor vehicles	25. 1 7. 7 17. 4 7. 9 1. 8 2. 3 1. 0 3. 8	-18. 2 -10. 9 -7. 3 3. 4 . 8 6 -3. 2 -3. 6 -4. 0	-1.7 5.9 -7.6 5.2 -2.6 -4.6 -6.2
Change in business inventories	5.8 -8.4 14.2	12. 2 12. 8 -, 6	<u>:</u> -7. 9 7. 9

Note.—Dollar levels are found in the National Income and Product Accounts Tables, as follows: GNP, table 1.1-1.2; motor vehicles, tables 1.14-1.15 (autos) and 1.16-1.17 (trucks).

improved performance of import prices. In addition, other factors were work—mainly abundant crops, which affected prices of agricultural exports, and a lower price for imported petroleum. The average price of petroleum imports was \$34.63 per barrel in the first quarter and \$35.64 in the second, but dropped to about \$33.25 in the third.

Within final sales to domestic purchasers, some third-quarter price increases were larger than second-quarter increases and some were smaller, but most second- and third-quarter increases were smaller than first-quarter increases. The increase in the price of personal consumption expenditures (PCE) was among those that was larger in the third quarter than in the second quarter—8 percent at an annual rate, compared with 61/2 percent.

PCE food prices contributed to the acceleration. They increased at an annual rate of 9 percent after increasing ½ percent in the second quarter. The acceleration was primarily due to a turnaround in the price of food consumed at home—especially meat and poultry—from a small decline to a 9percent increase. Food consumed at home has a weight of about 75 percent in the fixed-weighted index for PCE food, and so the total food index moves closely with it. The price of restuarant meals, the other principal food component, increased 6½-7½ percent in both quarters. These increases were at lower end of the range, which extended to about 12 percent, within which increases in the price of restaurant meals have fluctuated over the last 2 years. The greater stability of this price than of the price of food con-

Table 2.—Selected Fixed-Weighted Price Indexes: Change From Preceding Quarter

[Percent change at annual rates; based on index numbers (1972=100), seasonally adjusted]

	1979				1980				1981			
	I	II	111	IV	I	11	III	IV	I	II	III	
GNP Food components ² . Energy components ³ .	9. 3	8. 9	8. 8	1 10. 3	9. 7	9. 3	9. 0	1 10. 4	10. 2	7. 9	9. 2	
	15. 3	6. 6	5. 0	7. 9	3. 2	4. 1	17. 1	18. 6	7. 3	. 6	8. 3	
	18. 5	36. 9	34. 9	27. 8	40. 7	13. 1	2. 0	2. 3	36. 4	14. 3	10. 1	
GNP less food components	8. 3	9, 4	9. 5	10. 8	10.8	10. 2	7. 8	9, 1	10. 7	9. 2	9. 3	
GNP less energy components	8. 8	7, 6	7. 5	9. 3	8.0	9. 1	9. 5	10, 9	8. 6	7. 5	9. 1	
GNP less food and energy components	7. 6	7, 8	7. 9	1 9. 5	8.9	9. 9	8. 3	1 9, 8	8. 9	8. 9	9. 3	

^{1.} Includes pay raises for Federal employees, which added 0.8 and 1.4 percentage points to the increase in GNP prices in the fourth quarters of 1979 and 1980, respectively.

2. Consists of all components for which separate estimates are prepared. The major component that is not included is purchases of food by the Federal Government other than transactions by the Commodity Credit Corporation that are treated like purchases.

3. Consists of all components for which separate estimates are prepared. The major components that are not included are (1) exports of energy, (2) the gasoline and motor oil portions of inventories of gasoline service stations, and (3) the energy portions of inventories of businesses that do not produce energy for sale.

Note —Inamuch as GNP is a sum of final products, the food and energy estimates in this table do not take into account the effect on the prices of final products of changes in the prices of the food and energy that are costs of production.

sumed at home—changes in the price of food consumed at home ranged from a small decline to an increase of about 20 percent—reflected the smaller weight of volatile farm prices.

PCE energy prices declined in the third quarter at an annual rate of 1/2 percent, after increases of 81/2 percent in the second quarter and 391/2 percent in the first. Third-quarter declines for gasoline and fuel oil—91/2 percent and 6 percent, respectively—more than offset continued price increases for electricity and natural gas (addendum to table 3). Sharp first-quarter increases for the petroleum products reflected the increased price of imports and the compression of the final phases of the decontrol of domestic crude oil and refined products into the first quarter. In the third quarter, reduced marketing margins were a factor in the price declines, which on a monthly basis began in the second quarter. Price changes for energy services fluctuated less than did those for gasoline and fuel oil, but rates of increase tended to remain high. Natural gas price increases reflected the phased deregulation of domestic supplies and higher prices of imports from Canada and Mexico.3 Electricity prices reflected the automatic passthrough in many States of increased fuel costs. Additional fluctuations in both electric and gas rates were due to the timing of rate increases approved by State public utility commissions. For example, rate hikes were a major factor in driving up third-quarter electricity prices 30 percent—double the rate of increase registered in either of the two preceding quarters.

Prices of other PCE goods and services increased at an annual rate of 91/2 percent in the third quarter, higher than the increases of 7-9 percent registered over the past year. Prices of services were largely responsible for the step-up. Increases in the prices of rents, local

Table 3.-Fixed-Weighted Price Indexes: Change From Preceding Quarter

[Percent change at annual rates; based on index numbers (1972=100), seasonally adjusted]

		1981	
	1	II	III
Gross national product	10, 2	7.9	9, 2
Less: Change in business inventories.			
Equals: Final sales	10.3	7.9	9. 1
Less: Exports	11.7 11.8	5. 6 . 4	4.3 6.1
Equals: Final sales to domestic purchasers	10.3	7.3	7.8
Personal consumption expenditures	10. 9 6. 4 39. 2 8. 0	6. 5 . 5 8. 3 8. 2	8. 2 8. 8 —. 7 9. 6
Other ! Nonresidential structures Producers' durable equipment Residential Government purchases	9, 5 9, 0 9, 9 10, 1 9, 3	8.6 8.1 11.8 6.0 8.6	7. 3 8. 2 8. 4 6. 3 7. 2
Addendum: Personal consumption expenditures, energy:		ĺ	
Nondurables: Gasoline and oilFuel oil and coal	45. 0 76. 1	2. 3 16. 2	-9.6 -6.0
Services: Electricity	15. 7 12. 4	12. 1 21. 3	30. 2 10. 2

^{1.} Index number levels for the fourth quarter of 1980 through the third quarter of 1981 were: 203.1, 207.7, 212.0 and 215.9. NOTE.—Index number levels are found in the National Income and Product Accounts Tables, tables 7.1-7.2.

Table 4.—Selected Labor Market Indicators

[Seasonally adjusted]

	198	80							
	111	IV	I	II	Ш	1980:IV	1981:I	1981:II	1981:III
Household survey									
Civilian labor force (thousands). Employment Unemployment Job losers On layoff Other Job losers Job leavers, reentrants, and new entrants.	104, 982 97, 061 7, 921 4, 357 1, 758 2, 598 3, 610	105, 173 97, 276 7, 897 4, 232 1, 538 2, 693	105, 800 98, 012 7, 788 3, 863 1, 275 2, 589 3, 872	106, 768 98, 8.8 7, 900 4, 041 1, 338 2, 702	106, 434 98, 725 7, 709 3, 986 1, 265 2, 721 3, 768	191 215 -24 -125 -220 95	627 736 109 369 263 104	968 856 112 178 63 113	-334 -143 -191 -55 -73 19
Unemployment rate (per-	3,010	3,000	3, 812	3, 902	3,703	55	201	30	- 101
cent): Total Adult men Adult women Teenagers	7.5 6.6 6.4 18.4	7.5 6.3 6.7 18.3	7. 4 6. 0 6. 6 19. 1	7. 4 6. 1 6. 6 19. 2	7. 2 5. 9 6. 6 18. 7	0 3 .3 1	1 3 1 .8	0 .1 0 .1	2 2 0 5
Civilian labor force participation rate: Total, Adult men, Adult women. Teenagers	63. 8 79. 4 51. 5 56. 5	63. 7 79. 2 51. 4 56. 4	63. 9 78. 9 51. 9 56. 9	64. 3 79. 4 52. 4 56. 3	63. 8 78. 9 52. 2 54. 8	1 2 1 1	.2 3 .5 .5	.4 .5 .5 6	5 5 2 -1.5
Establishment survey									
Employment, nonfarmpay- roll (thousands) Goods producing Construction Manufacturing:	90, 213 25, 306 4, 319	90, 820 25, 594 4, 385	91, 232 25, 670 4, 398	91, 546 25, 741 4, 345	91, 895 25, 943 4, 266	607 288 66	412 76 13	314 71 -53	349 202 79
Durables Nondurables Distributive ' Services ' Government	11, 911 8, 064 25, 529 23, 177 16, 201	12, 060 8, 098 25, 585 23, 399 16, 242	12, 086 8, 095 25, 721 23, 619 16, 222	12, 246 8, 144 25, 842 23, 849 16, 114	12, 332 8, 198 26, 016 25, 042 15, 894	149 34 56 222 41	26 -3 136 220 -20	160 49 121 230 -108	86 54 174 193 -220
Average weekly hours, private nonfarm: Total. Manufacturing	35. 2 39. 4	35. 3 39. 8	35. 3 39. 9	35. 3 40. 2	35. 1 39. 7	.1 .4	0 .1	0 .3	2 5

^{1.} Transportation and public utilities, and wholesale and retail trade.
2. Services, and finance, insurance, and real estate.

Source: Bureau of Labor Statistics.

^{3.} The increasing use of "lifeline" rate structures, which price a larger quantity of each residential customer's consumption at the lowest rate during the winter heating season, has not been fully removed through seasonal adjustment. The seasonally adjusted second-quarter increase thus reflected utilities' switch to their effectively higher summer rate schedule (and the fourth-quarter change will reflect their switch to the effectively lower winter rate schedule)

transit, telephone, and medical services were larger than in the second quarter.

Employment and unemployment.—It is difficult to obtain a consistent view of third-quarter labor market conditions, but, on balance, the indicators suggest weakening (table 4). The household measure of employment, which had increased an average of almost 800,000 in each of the two previous quarters, declined 143,000 in the third quarter. Unemployment also declined, and the unemployment rate declined 0.2 percentage points to 7.2 percent. The decline in the unemployment rate, however, was attributable to a decline of 334,000 in the civilian labor force, the largest decline in almost 3 decades. The labor force participation rate fell for each of the three major demographic groups—adult men, adult women, and teenagers. Short-term changes in the series derived from the household survev are often erratic.

The payroll measure of employment increased 349,000, about the same as in each of the two previous quarters. On a monthly basis, however, employment was flat from July to September. The third-quarter increase was in services (193,000), distributive industries (174,-000), mining (142,000, largely because the coal strike had depressed employment in April and May), and manufacturing (139,000). Average weekly hours in the private nonfarm economy were down 0.2 to 35.1, and manufacturing hours were down 0.5 to 39.7. Part of the weakness in hours may have been due to the unusual occurrence of Labor Day in the September survey week.

Perspective on recent conditions can be obtained by tracing developments since the recession a year ago. (Although the household measure of employment hit its 1980 low in the second quarter, the payroll measure hit its low in the third, and the unemployment rate was higher in the third quarter than in the second.) The household measure of employment was 1,664,000 higher in the third quarter of 1981 than it had been a year earlier. Employment was up 1,131,000 among adult women and 938,000 among adult men; adult men had accounted for about three-fourths of the

drop in employment from the first to the second quarter of 1980. Largely because of declines in teenage population and labor force participation, employment among teenagers was 404,000 lower in the third quarter of 1981 than a year earlier.

At 7.2 percent in the third quarter of 1981, the unemployment rate was 0.3 percentage points lower than a year earlier. The decline was entirely among adult men, whose unemployment rate had risen from 4.1 to 6.6 percent over the previous year; in the third quarter of 1981 it stood at 5.9 percent. Other signs of weakness in the labor market recovery included the number of discouraged workers (1,050,000), which was almost 100,000 higher than a year earlier, and the number of workers on part-time schedule for economic reasons (4,316,000), which was 179,000 higher.

[Thousands]

	1981:III	Change fr ear	om 1 year lier
		1980:III	1981:III
Manufacturing employ-			
ment. Durables.	20, 529 12, 332	-1, 145 -931	553 421
Lumber and wood products	689	-100	18
Furniture and fixtures	488	-44	33
Etone, clay, and glass	l		
products	658	-60	7
Primary metal indus- tries	1, 146	-186	66
ucts	1,611	-161	49
Machinery, except elec-			
trical Electric and electronic	2, 540	-63	80
equipment	2, 166	-56	94
Transportation equip-	2,100		
ment	1,888	-237	47
Instruments and re-			
lated products Miscellaneous manu-	727	12	19
facturing	420	-34	8
Nondurables			_
Food and kindred	8, 198	-215	134
Tobacco manufacturers.	1 670	-14	0.5
Textile mill products	1,678 72	-14 -2	-35 3
Apparel and other tex-	853	-44	15
tile products	000		10
Paper and allied prod-	1, 277	-37	18
Printing and publish-	700	-25	
ing	1, 195	-25 16	14 38
Chemicals and allied	1, 150	10	90
products	1, 112	-12	13
Petroleum and coal			
_ products	212	-2	4
Rubber and miscella-	i	' 1	
neous: plastics prod- ucts	762	-82	20
Leather and leather	702	-62	56
products	237	-13	8

The payroll measure of employment was 1,682,000 higher in the third quarter than it had been a year earlier. The increase in employment was spread across industries, except construction,

which was at its lowest level in over 3 years, and government, which was at its lowest level in over 2 years. Manufacturing employment was up 553,000. As shown in the accompanying tabulation, however, the recovery was less than one-half of the previous-year decline and in some industries was minimal.

Costs and productivity.—Table 5 adapts the information on real product, employment, and hours to focus on costs and productivity in the business economy other than farm and housing. Productivity—as measured by real gross product per hour-declined 3 percent at an annual rate after a 1/2-percent increase in the second quarter. In both quarters, real product declined and hours were weak. Compensation per hour increased at roughly the same rate in both quarters; if allowance is made for the two special factors that affected the first quarter-increases in the minimum wage and employer contributions for social insurance—the increase in compensation per hour has been about 8½ percent each quarter this year. The increase in unit labor cost has trended up over the year, even without allowance for the effect of the special factors.

Table 5.—Real Gross Product, Hours, and Compensation in the Business Economy Other Than Farm and Housing: Change From Preceding Quarter

[Percent change at annual rates; based on seasonally adjusted estimates]

	1981								
	I	II	ш						
Real gross product	8. 2 3. 1 15. 5	-1.2 -1.8 6.9	-2.0 1.1 9.6						
Real gross product per hour	5. 0 12. 0 6. 7	.6 8.8 8.1	-3.1 8.4 11.8						

Personal income and its disposition

Weakness in the economy was again visible in the components of personal income that are related to production. Wage and salary disbursements registered another moderate increase—\$31 billion (table 6). It was larger than the second-quarter increase mainly because of the effects of the coal strike: The

Table 6.— Personal Income and Its Disposition: Change From Preceding Quarter

[Billions of dollars; based on seasonally adjusted annual rates]

		1981	
	I	II	ш
Wage and salary disburse- ments	45, 1	24. 1	30.9
Manufacturing	12. 4	9.4	7.8
Other commodity-pro- ducing	4, 9 11, 4 12, 5	2. 6 5. 9 8. 0	4.5 6.8 7.7
ment enterprises	3.9	3.4	4.0
Proprietors' income	-1.9	2.0	1.2
Farm Nonfarm	-3.5 1.6	2.7 7	1.4 2
Personal interest income	19.0	12.1	14.9
Transfer payments	5.7	4,6	18.5
Other income	6.8	6.7	7.8
Less: Personal contribu- tions for social insurance	11.0	.8	1.8
Personal income	63, 6	48.7	71.5
Less: Personal tax and nontax payments Impact of legislation Other	12.8 -2.8 15.6	10.9 -1.4 12.3	17. 0 . 4 16. 6
Equals: Disposable per- sonal income	50.8	37.8	54. 5
Less: Personal outlays	59. 5	20. 1	60.9
Equals: Personal saving	-8.7	17. 7	-6.4
Addenda: Special factors—			
Minimum wage Cost-of-living increases in Federal transfer pay-	2. 0		
ments	1, 1	1.3	16.3
Base changeRate change	2. 3 6. 7		
Coal strike		-2.6	2.6

strike reduced second-quarter wages about \$21/2 billion, and the resumption of coal mining added about \$21/2 billion in the third quarter. The increase in manufacturing and in the services industries was a little smaller than in the second quarter and that in the distributive industries was a little larger, but, in each industry group, the second- and third-quarter increases were substantially smaller than the first-quarter increase. In government and government enterprises, the third-quarter increase included almost \$1 billion of lump-sum payments and one-time bonuses paid to employees of the U.S. Postal Service under an agreement signed in July.

Farm proprietors' income increased \$1½ billion in the third quarter. The increase was more than accounted for by farm production that went into in-

ventories. Cash receipts from farm marketings were actually down, reflecting mainly a large drop in crop prices.

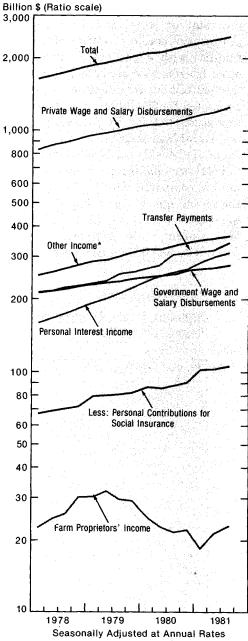
At \$23 billion in the third quarter, farm proprietors' income remains far below its \$321/2 billion peak in the second quarter of 1979 (chart 2). Over this period, the volumes of production and of purchases of intermediate products have changed little, but differential price movements have put a squeeze on gross farm product—i.e., on the GNP originating on farms.4 Even though crop prices increased about 15 percent, the average price of marketings increased only about 6 percent because livestock prices declined. Prices of intermediate products increased about 20 percent, reflecting increases in the prices of fuel and fertilizer. Further, even though gross farm product was down over this period, incomes other than farm proprietors' income, especially net interest, that are part of gross farm product were up. Thus, farm proprietors' income, which is what remains after deduction of these incomes and other charges against gross farm product, was depressed.

Personal interest income increased \$15 billion in the third quarter. This increase was larger than in the second quarter but fell short of that in the first. Personal interest income has been the fastest growing component of personal income in recent years. Increases in interest rates for particular types of assets and shifts of portfolios toward higher yielding assets, rather than increases in persons' holdings, have been the primary factors in the increase. (Personal interest income and the procedures used to estimate it were described in the Special Note to the "Business Situation" in the September 1981 issue of the Survey.)

Transfer payments, which are not related to production, increased \$18½ billion, accounting for about one-fourth of the third-quarter increase in personal income. An 11.2 percent cost-of-living

CHART 2

Personal Income



*Other labor income, nonfarm proprietors' income, rental income of persons, and personal dividend income.

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

adjustment to benefit payments under several Federal programs went into effect in July. The adjustment amounted to \$16½ billion, of which \$15 billion was in social security benefits.

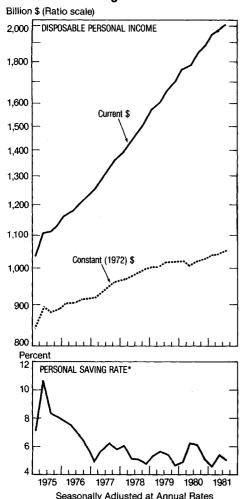
In recent years, cost-of-living increases—which have amounted to \$1-2 billion each quarter except in the third quarter when social security increases become effective—have been a growing share of the increase in transfer pay-

^{4.} The relationship among the several measures of farm production and income is seen, for recent years, in tables 1.18 and 1.19 in National Income and Product Accounts, 1976-79, a special supplement to the SURVEY OF CURRENT BUSINESS. See also Shelby W. Herman, "The Farm Sector," SURVEY 58 (November 1978): 18-26.

ments. Over the last four quarters, transfer payments increased \$32 billion. (Although government unemployment insurance benefits declined \$4 billion, the total of social security, veterans, government employee retirement, aid to families with dependent children, and other benefits increased \$36 billion.) Of the \$32 billion, cost-of-living increases accounted for \$20 billion; the remainder was accounted for by increases in the number of beneficiaries and, to a smaller extent, in benefits per beneficiary.

Total personal income increased \$711/2 billion, compared with \$481/2 billion in the second quarter, and disposable personal income increased \$54½ billion, or 11½ percent at an annual rate, compared with \$38 billion, or 8 percent. The

CHART 3 Disposable Personal Income and Personal Saving Rate



*Personal saving as a percentage of disposable personal income

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third-quarter increase in income was smaller than that in outlays, so that saving declined and the saving rate moved down from 5.4 percent in the second quarter to 4.9 percent (chart 3). Changes in saving and the saving rate were probably affected by the large and abrupt changes in PCE on motor vehicles in the third and earlier quarters of the year. Also, because personal saving is measured as the difference between disposable personal income and personal outlays, saving and the saving rate are influenced by the procedures used to adjust income and outlays for seasonality. The cost-of-living increases in social security benefits are not seasonally adjusted; in contrast, outlays—of which expenditures made out of these benefit increases are an indistinguishable part—are seasonally adjusted.

In real terms, disposable income increased 2 percent at an annual rate, after an increase of 11/2 percent in the second quarter. In contrast, in the three earlier quarters since the 1980 recession, increases in real disposable income were larger—in the range of 3-4 percent.

Real PCE.—In the third quarter, as earlier in the year, PCE on motor vehicles and parts registered on extraordinary large change (table 7). The pattern of these changes-increases of \$5-6 billion in the third and first quarters and a decline of \$9 billion in the second—can be traced to a large extent to the rebate and other price discount programs that were superimposed on economic and financial conditions that were generally adverse to motor vehicle purchases. These developments are discussed in more detail in "Motor Vehicles, Model Year 1981," later in this

Aside from motor vehicles and parts, PCE remained weak. After it had increased 3½ percent at an annual rate in the first quarter, it increased only 11/2 percent in the second and 2 percent in the third. In goods, all major categories except energy either declined or were unchanged: Furniture and household equipment edged down after a secondquarter decline; food was unchanged after a substantial increase; and clothing and shoes declined again. In contrast, gasoline and oil increased—the first strong increase in three quarters. In services, the increase, although larger than in the first and second quarters, continued below trend.

The effect on consumer spending of the third-quarter increase in personal income is particularly hard to assess, because little is known about the pattern of spending out of cost-of-living adjustments to transfer payments, which are one-shot step-ups, received largely by retirees, and expected because they are legislated. Although the pattern of increases in real disposable income over the past year helps explain the pattern of increases in PCE on other than motor vehicles, it appears that factors other than income were also at work. The

Table 7.- Real GNP: Change From Preceding Quarter

[Percent change at annual rates; based on billions of 1972 dollars, seasonally adjusted at annual rates]

		1981	
	I	п	III
GNP	8.6	-1.6	-0.6
Final sales Personal consumption ex-	6.9	-4.7	5
penditures	5.8	-2.1	4.3
Durables	24.1	-23.3	15. 3
Motor vehicles and			2011
parts	51.4	-47.1	47. 1
Furniture and house-			
hold equipment	9.3	-5.3	-1.4
Other durables Nondurables	6. 5 4. 6	6. 1 2. 7	8 1.4
Food.	6.8	4.7	1.3
Energy 1	-24.2	-7.4	21. 5
Clothing and shoes	10.5	-5.0	-8.3
Other nondurables	3.0	-2.0	1
Services	1.4	1.6	3. 5
Energy 2	-13.1	9.9	7.3
Other services	2.3	$\begin{array}{c c} 1.2 \\ -7.6 \end{array}$	3. 3
Fixed investment Nonresidential	10.8 13.3	-2.1	-8.8 4
Structures	16.6	6.7	6.8
Producers' durable	10.0	0.1	0.0
equipment	11.8	-5.9	-3.6
Autos and trucks	22.0	-24.4	44. 2
Other	10.0	-2.0	-10.7
Residential Net exports of goods and	3.6	-23.4	-33. 3
services			
Exports	13.6	-2.3	-8.7
Merchandise	16.4	-6.0	-20.5
Agricultural	52.9	-35.2	-25. 4
Nonagricultural	8.4	3.4	-19.3
Other	10.2	2.6	8.5
Imports	10.3 6.0	14. 2 16. 0	11.0 11.3
Petroleum	2.1	-1.5	-32.3
Nonpetroleum	6.3	17.7	15.9
Other	19.5	10.6	10.3
Government purchases of	_		
goods and services	5.4	-5.6	<u>-</u> . §
Federal	14.8	-8.4	5. 3
National defense	1.1	2.6 -26.4	8. 1 0
Nondefense Commodity Credit	46.8	-20.4	l "
Corporation 3	ľ)
Other	3. 6	-6.5	-6.2
State and local	. 2	-3.8	-4.0
Change in business inven-			ĺ
tories			

Gasoline and oil, and fuel oil and coal.
 Electricity and gas.
 Estimates, in billions of 1972 dollars, for the fourth quarter of 1980 through the third quarter of 1981 were: -1.4, 1.8, -0.4, and 0.7.

Note.—Dollar levels are found in the National Income and Product Accounts Tables, as follows: GNP and its major components, tables 1.1-1.2 and 1.3-1.4; personal consumption expenditures detail, tables 2.2-2.3; motor vehicles, tables 1.14-1.15 (autos) and 1.16-1.17 (trucks); and net exports details,

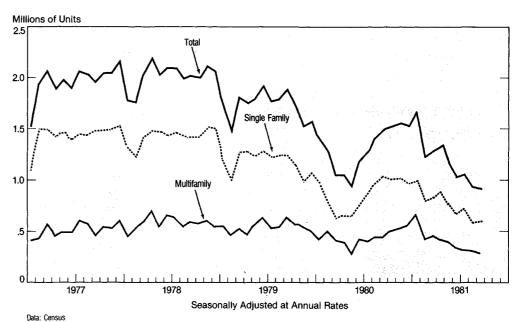
sharp decline of residential construction and high interest rates on consumer loans help explain the weakness in furniture and household equipment. The course of their prices helps explain food and energy: The third-quarter leveling in food purchases, after two quarters of increases, coincides with the acceleration of food prices, and the strong increase in gasoline coincides with the decline in its prices.

Real investment

Nonresidential fixed investment leveled off in the third quarter after a 2percent annual rate decline in the second. The weakness in both quarters was in producers' durable equipment (PDE). In PDE, the quarterly changes in motor vehicles were similar to those in PCE—an increase in the third quarter after a decline in the second. These changes in PDE were due to autos; trucks were unchanged (see "Motor Vehicles, Model Year 1981"). Other PDE, after a 2-percent decline in the second quarter, fell off sharply in the third. Computers and aircraft, which often show large quarter-to-quarter changes, were the major items in the decline.

Investment in nonresidential structures in the third quarter again ran counter to the course of most other categories of final sales, increasing again at a 6½-7 percent annual rate. Since its 1980 low, which lagged that of GNP by one quarter, it has increased 91/2 percent. Office and industrial construction were the major factors in the thirdquarter increase. Over the past year, both—but especially office construction—have increased sharply, although with some quarter-to-quarter irregularity. Construction of commercial structures other than offices was flat after a second-quarter decline. This construction, which roughly follows the pattern of residential investment, has increased only slightly over the past year. Petroleum exploration and drilling changed little in the third quarter. In contrast, in most of the recent quarters it has registered strong increases, reflecting the incentives provided by sharply rising petroleum prices, which in turn were due to decontrol of domestic crude oil

Housing Starts



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

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prices coupled with increasing international prices. Public utility construction was down. Over the past year electric utilities construction has been held down by a variety of factors, including energy conservation and regulatory restrictions.

Residential investment.—Residential investment, which had declined at a 23½-percent annual rate in the second quarter, declined 33½ percent in the third. Both single- and multi-family construction declined more than in the second quarter. The "other" component of residential investment, which includes additions and alterations, brokers' commissions on the sale of residences, and mobile homes, remained flat.

Single-family starts, which had declined 10 percent in the second quarter (not at an annual rate), declined 18 percent in the third (chart 4). Multifamily starts, which had declined 24 percent in the second quarter, declined 17 percent. Permits were down about 20 percent, as both single- and multifamily permits declined more than in the second quarter. Sales of existing homes, which had increased in the second quarter, declined 8 percent in July-August; the August (annual) rate of 2,260,000 was the lowest in over 6 years.

Sales of new homes, which had declined 13 percent in the second quarter, declined 12 percent in July-August.

Financial factors were unfavorable to residential investment in the second and third quarters of 1981, as they had been in the corresponding quarters of 1980. Last year, financial conditions, although unfavorable, improved during these quarters and set the stage for a moderate upturn. This year, in contrast, they worsened and indicate that an upturn is unlikely in the near term.

The prime rate—to which construction loans are tied—quickly rose from 17 percent in April to a 191/2-201/2 percent range, where it remained through September (chart 5). In 1980, in contrast, the prime had fallen during the corresponding period. The commitment interest rate on 25-year mortgages with a loan-to-price ratio of 75 percent rose from 15.05 percent in April 1981 to 17.20percent in early September. During the corresponding period in 1980, the commitment rate fell from the then record level of 16.16 percent to 12.88 percent. Reflecting these interest rate patterns, mortgage commitments made in August of this year by insured savings and loan associations (S&L's) were about 40 percent lower than in April; last year commitments in August were substantially higher than in April.

Higher mortgage rates and higher home prices raised the monthly principal and interest charges on the average mortgage for the purchase of a newly built house in the second and third quarters of 1981 to about \$800, 24 percent more than a year earlier. Such an increase made it even more difficult for a potential purchaser to qualify for a mortgage.

The S&L's—major suppliers of mortgage funds—were buffeted in the

CHART 5

The infic w of funds deteriorated. Withdrawals exceeded new deposits every month during the April-to-August period, cumulating to a deposit loss (exclusive of interest credited) of \$19.3 billion, and net mortgage loan repayments were low. To offset these declines, S&L's borrowed heavily from the Federal Home Loan Banks (\$12.7 billion) and from other sources (\$6.1 billion). The high cost of both deposits and borrowings, coupled with the low levels of

mortgage lending, was reflected in a

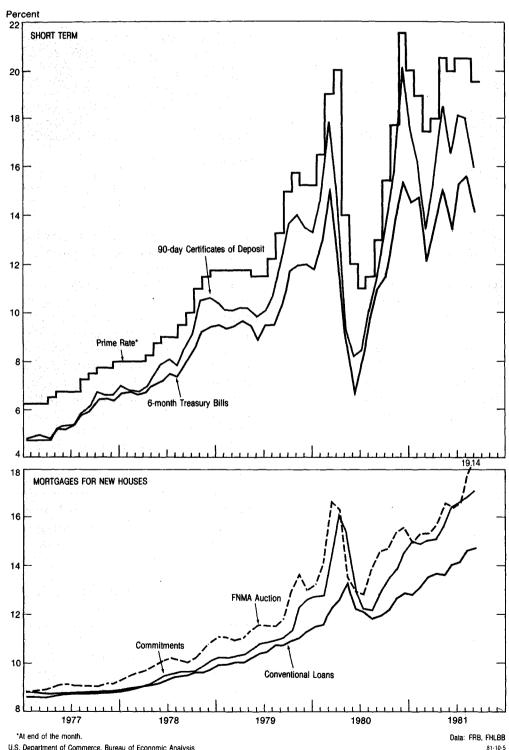
\$2.1 billion decline in S&L's net

second and third quarters of this year.

worth-indicating an operating loss. The introduction of All Savers Certificates (ASC's) on October 1 will reduce the cost of funds to S&L's and other depository institutions. ASC'sauthorized by the Economic Recovery Tax Act of 1981—are 1-year certificates with a yield equal to 70 percent of the yield on 1-year Treasury bills. Interest on the certificates—up to a lifetime limit of \$1,000 for an individual and \$2,000 for a couple filing jointly—is exempt from Federal income tax. Although the ASC's will benefit S&L's, they are not likely to have much impact on construction. Preliminary indications are that many ASC's are being purchased by transfer of funds from other accounts at S&L's; thus the net deposit gain from the sale of ASC's may be relatively small. Moreover, S&L's may be reluctant to extend longterm mortgage loans with money raised from the sale of relatively short-term certificates; new 1-year securities issued by the Federal National Mortgage Association (FNMA) may be a more attractive investment to many S&L's. FNMA, in turn, is likely to use a large part of these proceeds to finance its existing portfolio of mortgages rather than to channel the funds into construction by buying large quantities of new mortgages in the secondary market.

Change in business inventories.—The rate of accumulation of business inventories was essentially the same in the third and second quarters, so that CBI contributed little to the third-quarter change in real GNP. In contrast, CBI had contributed substantially—\$12 bil-

Selected Interest Rates



lion—to the second-quarter GNP change.

Motor vehicle inventories accounted for a substantial part of CBI (table 8). In the first quarter, motor vehicle inventories were drawn down by design; rebates on a wide range of models were initiated for this purpose. In the second quarter, inventories accumulated, and at a substantial rate—on specific models early in the quarter and more widely spread late in the quarter as sales weakened. A second round of rebates and other price discounts in the third quarter helped reduce inventories. which built up sharply in the first part of the quarter. (See "Motor Vehicles, Model Year 1981.")

Nonvehicle inventory changes are more difficult to interpret. In the first and second quarters, the rate of accumulation was roughly the same and was moderate. In the first quarter, accumulation was centered in manufacturing. and in the second it was somewhat more widespread. In the third quarter, the rate of accumulation was stepped up; the accumulation was widespread but there was some concentration in nondurable retail trade. These quarters of accumulation, in combination with generally weak sales in the second and third quarters, have pushed inventorysales ratios up-but not to the high levels reached in the second quarter of 1980.

Real net exports

Net exports dropped sharply in the third quarter, as they had in the second. The declines—\$6½ billion and \$4½ billion, respectively—were largely in merchandise trade. These declines were due to declines in exports in combination with continued increases in imports.

In merchandise exports, the changes have been large in two of the three quarters of this year. An increase of \$3½ billion in the first quarter was primarily due to an unusually large increase in agricultural products. In the second quarter, when a decline of \$1½ billion was registered, exports of agricultural products turned down, more than offsetting an increase in nonagricultural exports. The nonagricultural exports increase was largely in capital

Table 8.—Real Change in Business Inventories

[Billions of constant (1972) dollars, seasonally adjusted at annual rates]

	1981							
	I	11	III					
Change in business inventories	-1.4	10.8	10. 3					
Motor vehicles	-6.0	6.8	-1.1					
Autos Trucks	-5.7 3	6.6	1 -1. 0					
Other	4.6	4.0	11. 4					

Note.—Changes in motor vehicles inventories are from National Income and Product Accounts tables 1.14-1.15 (autos) and 1.16-1.17 (trucks).

goods and autos; the increase in capital goods was more than accounted for by a jump in shipments of aircraft. In the third quarter, a \$5 billion decline reflected a further drop in agricultural exports and widespread downturns in nonagricultural exports, to which aircraft contributed substantially. Exports in general were held down by the appreciation of the dollar. In addition, agricultural exports were affected by several specific factors, including abundant crops abroad, and nonagricultural exports were held down by depressed economic activity in many foreign countries.

In merchandise imports, petroleum changed little in the first and second quarters and resumed its downtrend in the third. An average of 6.0 million barrels per day was imported, compared with 6.1 million barrels a year ago and 8.6 million barrels 2 years ago. (Thirdquarter imports included purchases for the strategic petroleum reserve, which were resumed in the fourth quarter of 1980.) Nonpetroleum imports were stimulated by the appreciation of the dollar. Increases each quarter-larger in the second and third than in the first—mainly reflected increases in industrial supplies and materials, capital goods, and consumer goods.

Government

Real government purchases declined again, although much less than in the second quarter—½ percent at an annual rate compared with 5½ percent. In the second quarter, both Federal purchases and State and local purchases declined;

in the third, Federal purchases were up, but were more than offset by a continued decline in State and local purchases.

In Federal purchases, the third-quarter increase was in defense purchases; nondefense purchases were flat. The agricultural price support operations of the Commodity Credit Corporation, as they moved from net redemptions of loans to net extensions, resulted in a \$1 billion increase. This increase was offset in nondefense purchases by declines in the services categories. Purchases of the services of employees, i.e., employee compensation, which accounted for about 45 percent of Federal nondefense purchases, continued to edge down. Since the third quarter of 1980, they have declined 4 percent. Purchases of other services include research and development, travel, rent, utilities, and communications, and accounted for about 35 percent of nondefense purchases. They declined more than compensation in the third quarter, as they had in recent quarters; since the third quarter of 1980, they have declined 16 percent.

The declines in State and local purchases were due to structures and, in the third quarter, to compensation of employees. A major factor in both the second and third quarters was reduced Federal support. Employee compensation reflected the phasing out of employees hired previously under the Comprehensive **Employment** Training Act, and structures reflected the limitation of growth in grants-inaid supporting specific types of construction and the elimination of the State portion of general revenue sharing. In addition, construction was held down by the persistence of high interest rates.

NIPA Federal sector.—Changes in current-dollar Federal receipts and expenditures are shown in table 9. Expenditures increased \$28½ billion, compared with an increase of only \$4 billion in the second quarter. The major factor in the increase, and also in the step-up from the second quarter, was transfer payments. They increased \$17½ billion, of which \$16½ billion was due to the cost-of-living increases mentioned earlier. Purchases of goods and services in-

creased \$8 billion after a second-quarter decline of \$2 billion. Defense purchases accounted for some of the swing; as noted earlier, they increased more in the third quarter than in the second. Most of the swing, however, was due to the operations of the Commodity Credit Corporation. Net interest paid increased \$6 billion, roughly twice as much as in the second quarter, following the course of Federal interest paid. Grants-in-aid to State and local governments declined \$2½ billion, continuing the declines earlier in the year.

Receipts increased much more than in the second quarter. Corporate profits tax accruals probably changed little, but had declined \$10 billion in the second quarter, reflecting a decline in profits and the impact of the tax reductions under the Economic Recovery Tax Act of 1981. Personal taxes increased \$13½ billion and contributions for social insurance increased \$3 billion; both increases were larger than in the second quarter because of the larger increase in wages and salaries. Indirect business taxes, in contrast, declined. This decline, and their second-quarter increase,

Table 9.—Federal Government Receipts and Expenditures, NIPA Basis: Change From Preceding Quarter

[Billions of dollars, based on seasonally adjusted annual rates]

		1981		
	I	II	III	
Receipts	44. 3	3. 5	n, a	
Personal tax and nontax receipts	10. 4 2. 0 11. 5 20. 3	9.8 -9.8 2.0 1.5	13. d n. a -1. d 3. 3	
Expenditures	23. 0	4. 2	28.	
Purchases of goods and services	9. 6 3. 6 6. 0	-2. 1 3. 1 -5. 2	8. 6. 1.	
Transfer payments. Grants-in-aid to State and local governments. Net interest paid. Subsidies less current surplus of government enterprises.	2.9 -1.7 12.5 4	2.9 6 2.7 1.3	17. -2. 5. 	
Less: Wage accruals less disbursements	0	0		
Surplus or deficit (-), national income and product accounts	21. 3	6	n. a	

n.a. Not available.

were accounted for by the windfall profits tax, which reflects changes in the price of domestic crude oil.

The statement that corporate profits tax accruals probably changed little was based on a residual calculation of corporate profits that assumes that the statistical discrepancy in the national income and product account is the same as in the preceding quarter. On the basis of this calculation of profit tax accruals, it appears that the Federal deficit on a national income and product account basis was about \$13 billion larger than the \$47 billion recorded in the second quarter.

NOTE.—Dollar levels are found in the National Income and Product Accounts Tables, table 3. 2.

National Income and Product Accounts Tables

The tables that follow are presented in eight groups, and the table numbers reflect these groups. The table numbers will also be used in future publications presenting national income and product account estimates. The groups are:

- 1. National product and income
- 2. Personal income and outlays
- 3. Government receipts and expenditures
- 4. Foreign transactions

5. Saving and investment

- 6. Product and income by industry
- 7. Implicit price deflators and price indexes
- 8. Supplementary table: Percent change from preceding period for selected items

The abbreviations used in the tables are: CCAdj Capital consumption adjustment

IVA Inventory valuation adjustment

NIPA's National income and product accounts

Preliminary

r Revised

				1980			1981					1980	•		1981	
	1979	1980	II	III	Iv	I	II	IIIP	1979	1980	II	ш	IV	I	II	III »
	Seasonally adjusted at annual rates Seasonally adjusted							ed at an	nual rate	s						
				Billions	of dollar	s				<u>'</u>	В	illions of	1972 doll	ars		
Tab	le 1.1-	1.2.—(Fross N	ation	al Proc	luct in	Curre	nt and	l Cons	tant D	ollars					
Gross national product	2, 413.9	2, 626, 1	2,564.8	2,637.3	2, 730, 6	2, 853. 0	2,885.8	2, 947. 0	1,483.0	1, 480, 7	1,463.3	1,471.9	1, 485, 6	1,516.4	1, 510. 4	1, 508. 2
Personal consumption expenditures	1, 510. 9	1,672.8	1, 626. 8	1, 682, 2	1, 751, 0	1, 810. 1	1,829.1	1, 888. 6	930. 9	935, 1	919, 3	930, 8	946.8	960.2	955, 1	965, 2
Durable goods	212. 3 602. 2 696. 3	211. 9 675. 7 785. 2	194. 4 664. 0 768. 4	208. 8 674. 2 799. 2	223. 3 703. 5 824. 2	238. 3 726. 0 845. 8	227. 3 735. 3 866. 5	240. 0 750. 1 898. 6	146. 6 354. 6 429. 6	135. 8 358. 4 440. 9	126. 2 356. 6 436. 5	132, 6 354, 9 443, 3	139. 1 360. 4 447. 3	146. 8 364. 5 448. 9	137. 4 367. 0 450. 7	142. 4 368. 2 454. 6
Gross private domestic investment	415.8	395.3	390.9	377.1	397.7	437. 1	458.6	449.8	232, 6	203.6	200.5	195, 3	200, 5	211.6	219.7	214. 4
Fixed investment. Nonresidential Structures. Producers' durable equipment. Residential. Nonfarm structures. Farm structures. Producers' durable equipment. Change in business inventories. Nonfarm. Farm.	96.3 183.4 118.6 113.9 1.8 2.9	401. 2 296. 0 108. 8 187. 1 105. 3 100. 3 2. 0 3. 0 -5. 9 -4. 7 -1. 2	383. 5 289. 8 108. 4 181. 4 93. 6 88. 9 1. 8 2. 9 7. 4 6. 1 1. 3	393. 2 294. 0 107. 3 186. 8 99. 2 94. 5 1. 7 3. 0 -16. 0 -12. 3 -3. 7	415. 1 302. 1 111. 5 190. 7 113. 0 107. 6 2. 2 3. 1 -17. 4 -14. 0 -3. 4	432.7 315.9 117.2 198.7 116.7 111.4 2.2 3.2 4.5 6.8 -2.4	435, 3 324, 6 123, 1 201, 5 110, 7 105, 4 2, 1 3, 2 23, 3 21, 5 1, 8	432. 2 330. 8 127. 8 203. 1 101. 4 95. 8 2. 3 3. 2 17. 6 13. 9 3. 8	222. 5 163. 3 48. 5 114. 8 59. 1 56. 2 .9 2. 0 10. 2 7. 8 2. 4	206. 6 158. 4 48. 4 110. 0 48. 1 45. 2 . 9 2. 0 -2. 9 -2. 4 5	199. 2 156. 1 48. 7 107. 4 43. 1 40. 3 .8 2. 0 1. 3 .6	200. 2 155. 5 46. 8 108. 8 44. 7 41. 9 . 7 2. 0 -5. 0 -3. 1 -1. 8	207.6 157.0 47.8 109.3 50.6 47.5 1.0 2.0 -7.2 -5.6 -1.5	213. 1 162. 0 49. 6 112. 4 51. 0 48. 0 . 9 2. 1 -1. 4 3 -1. 1	208. 9 161. 1 50. 4 110. 7 47. 8 44. 8 . 9 2. 0 10. 8 9. 9	1.0 2.0
Net exports of goods and services	13.4	23, 3	17.1	44.5	23, 3	29. 2	20.8	18, 0	37.7	52, 0	51.7	57.6	48, 5	50.9	44.2	39, 5
ExportsImports	281.3 267.9	339. 8 316. 5	333.3 216.2	342. 4 297. 9	346. 1 322. 7	367. 4 338. 2	368. 2 347. 5	362. 8 344. 8	146. 9 109. 2	161. 1 109. 1	160. 5 108. 9	160. 5 102. 8	157. 4 108. 9	162. 5 111. 6	161. 5 115. 4	157. 9 118. 4
Government purchases of goods and services	473.8	534.7	530.0	533.5	558, 6	576. 5	577.4	590, 5	281.8	290, 0	291.9	288.2	289,8	293. 6	289, 5	289, 1
Federal National defense Nondefense State and local	167. 9 111. 2 56. 7 305. 9	198. 9 131. 7 67. 2 335. 8	198. 7 128. 7 70. 0 331. 3	194. 9 131. 4 63. 5 338. 6	212. 0 141. 6 70. 4 346. 6	221. 6 145. 2 76. 4 354. 9	219. 5 148. 2 71. 3 357. 9	227. 7 154. 6 73. 0 362. 9	101. 7 67. 1 34. 6 180. 1	108. 1 70. 9 37. 2 181. 9	110. 7 70. 9 39. 7 181. 2	106. 9 70. 9 35. 9 181. 3	107. 4 71. 9 35. 4 182. 4	111. 2 72. 1 39. 0 182. 5	108. 7 72. 6 36. 1 180. 7	110, 2 74, 0 36, 1 178, 9
Table 1.3-1.4.—Gr	oss Na	tional	Produ	ct by	Major	Туре	of Proc	luct in	Curre	nt and	l Cons	tant D	ollars			
Gross national product	2, 413.9	2,626.1	2,564.8	2,637.3	2, 730, 6	2, 853. 0	2, 885, 8	2, 947. 0	1, 483.0	1, 480, 7	1, 463.3	1, 471.9	1, 485. 6	1, 516. 4	1, 510. 4	1, 508. 2
Final sales Change in business inventories	2, 396. 4 17. 5	2,632.0 -5.9	2, 557. 4 7. 4	2, 653. 4 -16. 0	2,748.0 -17.4	2,848.5 4.5	2, 862. 5 23. 3	2, 929. 4 17. 6	1, 472. 9 10. 2	1,483.6 -2.9	1, 462. 0 1. 3	1, 476. 9 -5. 0	1, 492. 7 -7. 2	1,517.8 -1.4	1, 499. 6 10. 8	1, 497. 9 10. 3
Goods	1,055.9	1 ,130, 4	1,106.4	1, 129.4	1, 169. 0	1, 247. 5	1, 257. 0	1, 281. 9	674.5	665, 2	658.1	657.5	662, 9	688.9	686.3	685. 1
Final salesChange in business inventories	1, 038. 5 17. 5	1, 136, 3 -5, 9	1, 099. 0 7. 4	1, 145. 4 -16. 0	1, 186. 3 -17. 4	1, 243. 1 4. 5	1, 123. 7 23. 3	1, 264. 3 17. 6	664.3 10.2	668. 1 -2. 9	656. 8 1. 3	662. 4 -5. 0	670. 1 -7. 2	69 . 3 -1. 4	675. 5 10. 8	674. 9 10. 3
Durable goods. Final sales. Change in business inventories. Nondurable goods. Final sales. Change in business inventories.	451. 2 439. 7 11. 5 604. 7 598. 8 6. 0	458. 6 462. 6 -4. 0 671. 9 673. 7 -1. 8	444. 6 441. 3 3. 3 661. 8 657. 7 4. 1	456. 5 464. 9 -8. 4 672. 9 680. 5 -7. 7	476. 7 476. 0 . 7 692. 2 710. 3 -18. 1	501. 4 505. 5 -4. 2 746. 1 737. 5 8. 6	516. 9 498. 3 18. 5 740. 1 735. 3 4. 8	514. 9 505. 3 9. 6 767. 0 758. 9 8. 0	296. 9 290. 2 6. 7 377. 5 374. 1 3. 5	279. 4 281. 3 -1. 9 385. 7 386. 8 -1. 1	270. 8 270. 1 . 7 387. 3 386. 7 . 6	274. 6 278. 4 -3. 8 382. 9 384. 0 -1. 1	281. 8 281. 5 .3 381. 1 388. 6 -7. 5	289. 3 292. 5 -3. 1 399. 6 397. 9 1. 7	288. 6 279. 7 8. 9 397. 7 395. 8 1. 9	283. 0 278. 9 4. 1 402. 2 396. 0 6. 2
ServicesStructures	1,097.2 260.8	1,229.6 266.0	1,205.6 252.8	1,249.0 258.9	1, 285. 3 276. 4	1, 317. 1 288. 4	1,344.7 284.1	1, 388. 0 277. 1	678.0 130.6	695.7 119.8	690.6 114.6	699. 9 114.5	701.7 121.0	703.6 123.9	704.7 119.4	708, 6 114, 4
Addenda: Gross domestic purchases ' Final sales to domestic purchasers '	2, 400. 5 2, 383. 0	2, 602. 8 2, 608. 7	2, 547. 7 2, 540. 3	2, 592. 8 2, 608. 8	2, 7 07. 3 2, 724. 6	2, 823. 8 2, 819. 3	2, 865. 1 2, 841. 8	2, 929. 0 2, 911. 4				1, 414. 3 1, 419. 2		1, 465. 6 1, 466. 9	1, 464. 2 1, 453. 5	1, 468. 6 1, 4.8. 4

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

12	SURVEY OF CURRENT BUSINESS October 1981																	
	T	able 1	.5–1.6	-Gross	Nation	al Pro	duct l	y Sect	or in (Curren	t and (Consta	nt Do	llars				
						1980	•		1981					1980			1981	
			1979	1980	II	III	IV	I	II	III »	1979	1980	II	III	IV	1	II	III »
						Seasonal	ly adjust	ed at ann	nual rates	3				Seasonal	ily adjus	ted at an	nual rate	s
				· !	<u>'</u>	Billions	of dollar	S	······································				B	illions of	1972 do	llars	-	
Gross national product			2, 413.	9 2, 626. 1	2,564.8	2,637.3	2, 730. 6	2,853.0	2,885.8	2, 947. 0	1, 483.0	1, 480. 7	1, 463.3	1, 471.	9 1, 485, 6	1, 516, 4	1,510,4	1 1, 508. 2
Gross domestic product Business. Nonfarm Nonfarm Housing. Farm. Statistical discrepancy. Households and institutions Private households. Nonprofit institutions. Government. Federal. State and local Rest of the world. Addendum: Gross domestic business products		2, 370	1 2,576,53 3 2,221.2 3 2,221.2 1 2,153.7 0 1,940.9 1 212.8 0 68.1 2 12.8 0 68.7 3 79.3 1 26.9 3 18.9 1 26.9 3 187.4 4 49.7 2 2,008.4	2, 100.8 1, 891.7 209.1 67.5 -1.9 84.4 6.7 77.7 265.9 80.5 185.4 48.1 1, 957.3	1, 943. 1 216. 0 67. 9 3. 0 86. 9 6. 7 80. 2 269. 9 80. 7 189. 3 50. 5 2, 014. 0	2, 248. 6 2, 025. 3 69. 4 -6. 6 90. 4 6. 9 83. 5 280. 3 87. 1 193. 3 48. 6 2, 088. 0	2, 350. 1 2, 120. 2 229. 9 67. 3 3. 4 93. 9 7. 0 86. 9 285. 9 87. 9 198. 0 52. 3	2, 835, 5 2, 449, 2 2, 383, 7 2, 147, 3 2, 147, 3 2, 147, 3 6, 9 96, 4 6, 9 89, 5 289, 9 88, 2 201, 6 50, 4 2, 212, 8	2, 436. 0 2, 192. 4 243. 6 7-6. 9 98. 3 6. 9 91. 4 293. 5 88. 5 205. 0 52. 5	1, 455.9 1, 258.3 1, 222.1 1, 094.8 127.3 34.9 1.4 43.7 3.5 40.2 153.9 49.0 104.9 27.2 1, 131.0	1, 452. 4 1, 251. 8 1, 216. 8 1, 216. 8 1, 284. 5 132. 3 35. 3 5. 41. 9 135. 2 49. 2 106. 0 28. 3 1, 119. 5	1, 435.5 1, 235.2 1, 198.5 1, 066.8 131.7 37.8 41.5 41.5 41.5 45.9 49.4 105.9 27.8 1, 103.5	1, 242. 3 1, 207. 6 1, 074. 6 1, 074. 6 1, 074. 6 33. 0 1, 7 45. 6 3. 4 42. 1 1, 155. 5 49. 4 106. 1 28. 5 1, 109. 4	1, 257. 5 1, 227. 3 1, 293. 7 1, 343. 2 3. 6 46. 1 3. 4 4. 422. 7 155. 3 48. 9 106. 3 26. 7 1, 123. 3	1, 286. 4 1, 250. 9 1, 155. 9 1, 115. 5 2 33. 6 6 1. 8 46. 7 3. 4 49. 0 106. 4 28. 0 1, 150. 8	1, 281. 8 1, 248. 9 1, 112. 1 136. 8 36. 8 46. 9 3. 3 43. 1 155. 9 49. 1 106. 26, 6	5 38.5 46.8 3 43.6 2 154.7 49.1 105.6 6 27.1 0 1,141.5	
			Billi	ons of dol	lars									Billi	ons of d	ollars		
Table 1.7.—Relation Product, Nati	of G	ross N ncom	ational e, and	Produ Persona	ct, Net d Inco	Natio me	nal		1	able 1	.11.—N	lation	al Inc	ome by	у Туре	of Inc	ome	
Gross national product	2, 413, 9	2,626.1	2, 564, 8 2,	637, 3 2 ,73	0, 6 2, 853.	0 2,885.	8 _{2,947.0}		Nationa	l income		1, 963, 3	2. 121. 4	070.02	122, 4 2.	204. 8 2. 29	1, 1 2, 320	او
Less: Capital consumption allowances with CCAdj Capital consumption	253. 6	1 1			8. 9 306.	Į		Wε	pensation	of emplo	yees	1, 460. 9	1,596.5	, 569. 0 1,	597, 4 1,	661, 8 1, 72	22. 4 1, 752	1,790.0 0 1,498.1
allowancesLess: CCAdj	199. 2 -54. 5	-63.1		-64.9 -6	3. 7 243. 55. 2 -63.	3 -64.	9 -64.8		ment er	ent and terprises		235. 9	253.6	250. 5	253.9	263.3 26	37. 1 270	
Equals: Net national product. Less: Indirect business tax and nontax liability. Business transfer pay- ments. Statistical discrepancy	2, 160, 3 188, 4 9, 4 2, 2	212. 3 10. 5	206. 3 10. 3	10.6	28. 0 245 10. 9 11	. 5 249. . 2 11.	4 253. 3 5 11. 8	Suj	pplement salaries Employer for socia	ts to was contri l insuran or incom-	ges and butions	225. 0 106. 4 118. 6	252. 9 115. 8 137. 1	248. 6 113. 6 135. 1	255. 0 116. 0	264. 5 27 121. 0 1;	79. 5 285 31. 5 133 48. 0 151	5. 1 291. 9 5. 2 135. 6
Plus: Subsidies less current surplus of government enterprises	3.1	4.6	-1.9 3.0 -6.6 3.4 -6.9					Prop a	rietors' i ind CCA	ncome w	ith IVA	131, 6 30. 8	130, 6 23, 4			134. 0	32. 1 134	

Gress national product	2, 413, 9	2,626.1	2,564.8	2,637.3	2,730,6	2, 853, 0	2, 885, 8	2,947.0
Less: Capital consumption		'				1		
allowances with								
CCAdj	253.6	287.3	283.7	291.8	298.9	306.5	316.7	326.0
Capital consumption								
allowances	199. 2							
Less: CCAdj	-54.5	-63.1	-63.4	-64.9	-65.2	-63.3	-64.9	-64.8
Equals: Net national product	2, 160, 3	2, 338, 9	2, 281, 1	2, 345. 5	2,431.7	2, 546. 4	2, 569, 1	2, 621. 0
Less: Indirect business tax	1							
and nontax liability	188.4	212.3	206.3	215.8	228.0	245. 5	249. 4	253.3
Business transfer pay-	Ī							
ments	9.4							
Statistical discrepancy	2, 2	7	-1.9	3.0	-6.6	3.4	-6.9	
Plus: Subsidies less current	1	Į	1					
surplus of government		٠.,		ا ـ ـ	ا ـ ا			l
enterprises	3.1	4.6	3.7	6.3	5.4	4.7	5.7	5, 3
Equals: National income	1, 963, 3	2,121,4	2, 070, 0	2, 122, 4	2, 204, 8	2, 291. 1	2, 320. 9	
Less: Corporate profits with	l	1	1				İ	
IVA and CCAdj	196.8	182.7	169.3	177.9	183. 3	203.0	190.3	
Net interest	143. 4	179.8	175.3	185.3	193. 3	200.8	211.0	219.5
Contributions for social		1		l	ŀ		1	
insurance	187.1	203.7	199.5	204.1	212.3	233.7	236.3	240.5
Wage accruals less dis-		_		1 .	_	١.	_	_
bursements	2	0	0	.5	5	0	0	.2
Plus: Government transfer	۱ ۵۵۵ ۵	000 0	~~~				010.5	
payments to persons								
Personal interest income.	209.6	256.3	253.6	261.8	269.7	288.7	300.9	315.8
Personal dividend in-	48.6	54.4	54. 2	55, 1	56, 1	58.0	60. 2	63.0
Business transfer pay-	20.0	7 24.3	34.2	33. 1	30. 1	30.0	00.2	05.0
ments	9.4	10. 8	10.3	10.6	10.9	11. 2	11.5	11.8
						l		
Equals: Personal income	. [1, 943, 8	5; Z, 16 0. 2	: 2. I14. E	2, 182, 1	2, 256, 2	Z. 319. 8	2. 368. 5	2. 440. 0

Table 1.8.—Relation of Gross National	Product, Net National
Product, and National Income in	Constant Dollars

Billions of 1972 dollars

Gross national product Less: Capital consumption al-	1, 483.	0	1 ,480. 7	1,	463.3	1,	471.9	1.	485.6	1,	516.	4	l, 510. 4	1	, 508.
lowances with CCAdi.	141.	6	147. 5	1	146.6	1	147.9	1	149. 5	1	151.	2	152. 4	ıÌ	154.
Less: Indirect business tax and nontax liability plus business transfer payments less subsi- dies plus current sur-	1,341.	4	1,333.2	1,	, 316, 6	1,	,324,0	1,	336, 1	1,	365.	2	1,358.0	1	, 354.
plus of government enterprises	143				147. 2		149. 2		151.9		153.		152. 9		154.
Statistical discrepancy Equals: National income		. 4 . 5	1, 184,		—1. 1 . 170. 6		1.7 1. 173. 1		—3.6 187.8		1. .210.		—3. 6 1. 208. 7		-

National income	1, 963, 3	2, 121, 4	2, 070. 0	2, 122, 4	2, 204. 8	2, 291. 1	2,320.9	
Compensation of employees	1, 460. 9	1,596.5	1, 569. 0	1, 597. 4	1,661.8	1, 722. 4	1,752.0	1, 790. 0
Wages and salaries	1, 235. 9	1, 343. 6	1, 320. 4	1, 342. 3	1, 397. 3	1, 442. 9	1, 467. 0	1, 498. 1
ment enterprises	235. 9 1, 000. 0				263. 3 1, 134. 0			
Supplements to wages and salaries	225. 0	252. 9	248. 6	255. 0	264. 5	279. 5	285. 1	291.9
for social insurance Other labor income	106. 4 118. 6	115. 8 137. 1		116. 0 139. 1	121. 0 143. 5	131. 5 148. 0		
Proprietors' income with IVA and CCAdj	131, 6	130.6	124, 9	129, 7	134, 0	132. 1	134.1	135. 4
Farm	30.8	23.4	23. 3	22. 1	22. 5	18. 9	21.7	23. 1
IVACCAdj	36. 6 -5. 8					26. 1 -7. 2		
Nonfarm Proprietors' income IVA CCAdi	1 -3.4	112. 7 -3. 7	105.5 -2.0	113. 1 -3, 5	117.5 -4.0	113. 2 117. 4 -2. 5 -1. 7	115.7 -1.2	115.5 -1.0
Rental income of persons with CCAdj	30, 5	31.8	31, 5	32, 0	32, 4	32. 7	33, 3	33, 9
Rental income of persons	58. 9 -28. 3					68. 2 -35. 5		
Corporate profits with IVA and CCAdj	196.8	182, 7	169. 3	177.9	183.3	203.0	190.3	
Corporate profits with IVA.	212, 7	199.8	186.9	195. 9	201.0	217. 7	205. 1	
Profits before tax	167. 9 50. 2	82. 3 163. 2 56. 0	71. 5 146. 5 55. 7	78. 5 159. 1 56. 7	85. 2 164. 3 57. 7	87. 7 169. 2 59. 6	76. 4 152. 7 62. 6	
IVA		1			1		1	-27 2
CCAdj			011		l		1	
Net interest	143, 4	179.8	175, 3	185. 3	193. 3	200. 8		i
Addenda: Corporate profits after tax with IVA and CCAdi		100. 3	97. 8	00.	98.1	1153	114.6	
Dividends	50.2	56.0						
IVA and CCAdj		44. 3	42. 1	42.8	40.4	55. 7	52. 0	

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

Demonstric product 1,50% 1,441 1,40% 1,40% 1,40% 1,40% 1,40% 1,50%					Co	rpora	te Bus	iness	in Cu	rent a	nd Co	nstant	t Dolla	ırs							
Seasonally edipared at annual rates					1980			1981									19	80		1981	
Copies demonstic product Copies Communication allows Copies Communication allows Copies Communication allows Copies Communication allows Copies		1979	1980	II	III	IV	I	II	III »					1979	1980						
Organ demonstile product Organ demonstile p]	S	easonal	ly adjus	ted at ar	nual ra	tes							Se	asonall	y adjust	ed at an	nual ra	tes
of congruence businesses		<u> </u>			Billions	of dolla	ırs				<u>.</u>					E	Billions	of dollar	'S	,	
See an included. 1.		1, 494. 9	1, 616, 5	1,576.7	1, 617. 5	1, 688. 0	1,774.8	1, 797. 1		India	rect bus ntax liab	siness ta pility plu	x and s busi-	1, 269. 5	1, 369. 3	1, 332. 7	1, 369. 1	1, 431. 7	1, 513. 1	1, 532. 6	
Note consists products 1,900 ct 1,900	Capital consumption allow- ances with CCAdj	155. 4	175. 4	173.0	178. 4	183. 2	187. 5	194. 6	200.6	less Dom	subsidi estic inc	ies		133. 6 1, 135. 9	152. 5 1, 216. 9	147. 7 1, 185. 0	155. 4 1, 213. 6	165. 1 1, 266. 6			185.0
Domestic Income 19.0 19.	-	1, 339. 5	1, 441. 1	1,403.7	1, 43 9. 0	1, 504. 8	1, 587. 3	1, 602. 5		1	ees			954. 0	1, 037. 2	1,018.0	1, 034. 8	1, 078. 5	 1, 121. 3	1, 140. 6	1, 166. 8
Domestic income. 1,906.8 , 281.8 , 19.6 , 281.8 , 19.6 , 31.8 , 281.8 , 19.6 , 31.8 , 281.8 , 19.6 , 31.8 , 19.6 , 31.8 , 19.6 , 31.8 , 31	nontax liability plus busi- ness transfer payments	139. 6	159. 3	154. 4	162, 4	172. 5	187. 2	190. 2	193, 3	8	supplem and sal rporate	ents to aries profits	wages with	155. 2	172.9	170.1	173.9	180. 4	190. 5	194. 1	198.9
Warge and subaries Sec. 9 97, 9 90.8 91.5 90.8	Compensation of employ-		1		'			1	l i	 	Profits b	efore tax.		193. 4	183. 8	158.6	177. 9	191.3	202.9	181.9	
Corporate pordice with 16A, 151, 16A, 16.0 16.	Wages and salaries Supplements to wages	845.9	917.9	900.8	915. 2	954.6	989.1	1, 006. 0	1, 028. 9		Profits Divi	after tax dends		123.7	120.6	106.6	117.6	125. 4	134.8	124.1	
Productax liability	Corporate profits with	l .			ļ	1	İ	1		l I	its. VA			-42.6	-45.7	-31.1	-41.7	-48.4	-39.2	-24.0	
Profits after tax. 137	Profits before tax Profits tax liability	225. 0 87. 6	214. 4 82. 3		206. 7 78. 5	221. 8 85. 2	231. 5 87. 7			Ne	CCAdj t interes	st									
Visit Cross decreased product Cross de	Dividends	34.9	37.4	117. 1 37. 9	128. 2 37. 9	39.5	43.7	45.5	49.0							Bill	lions of	1972 dol	lars		
Capital consumption allow Sa.	IVA CCAdj Net interest	-42.6 -15.9	-45.7 -17.2	-31.1 -17.6	-41.7 -17.9	-48.4 -17.8	-39.2 -14.7	-24.0 -14.7	$\begin{vmatrix} -27.2 \\ -13.4 \end{vmatrix}$	(of non	financial	corpo-	873.3	867, 2	853. 2	860. 4	876.9	901.0	901. 2	
Capital consumption allow 147.5 165.9 168.6 178.0 177.1 183.7 189.2	of financial corporate	77.9	81.3	80.4	79.7	83, 3	84.7	80.8		Capita ances	l consus with C	mption CAdj	allow-	84. 6	88. 1	87. 6	88, 5	89. 4	90. 4	91. 2	92. 1
Capital consumption allowances with CCA6]	of nonfinancial corpo-	1 417 0	1 535 2	1 496 3	1 537 7	1 604 7	1, 690, 1	1.716.3		Indir	ect bus	siness ta	x and	788.7	779. 0	765. 7	771.9	787. 5	810. 6	810.0	
1979 1980	Capital consumption allow-			ľ						Indirect business tax an nontax liability plus bus ness transfer payment less subsidies					95. 4 683. 6	94. 1 671. 6	95. 3 676. 5	97. 2 690. 3	97. 5 713. 1		
1979 1980				7	i i								1	ī	ī			1			
Seasonally adjusted at annual rates Seasonally adjusted at annual rates Billions of tollars Billions of tollars						_		1980			1981					198	0	_ _	1	1981	<u>.</u>
Billions of dollars				19	79 1	.980	II	III	IV	I	II	III »	1979	1980	II	III	1 1	v	I	II	III »
Table 1.14-1.15.—Auto Output in Current and Constant Dollars Auto output							Se	asonally	adjuste	d at ann	ual rates	3				Season	nally ac	ljusted :	at annu	al rates	
Auto output. 68.0 60.2 53.6 54.3 68.8 68.1 73.6 75.0 46.8 38.6 34.6 34.6 42.8 42.8 44.3 44.5 Final sales. 69.2 62.2 51.5 57.8 65.5 77.9 62.7 75.4 47.3 39.9 33.5 36.8 40.9 48.5 37.8 44.9 Personal consumption expenditures. 65.3 01.8 30.7 58.7 66.5 77.9 62.7 75.4 47.3 39.9 33.5 36.8 40.9 48.5 37.8 42.8 34.2 39.1 47.2 47.2 47.2 47.2 47.3 47.3 47.3 47.3 47.3 47.3 47.3 47.3							В	illions of	f dollars							Billions	of 1972	dollars			
Final sales				Tal	ole 1.1	4-1.15	5. — Au	to Ou	tput i	n Curr	ent aı	nd Con	stant	Dolla	rs						
Personal consumption expenditures. 68.3 61.8 50.7 58.7 66.1 75.6 63.3 74.3 41.3 36.5 30.4 34.3 37.5 42.8 34.2 39.1 New autos. 98.4 44.2 36.8 44.3 48.8 57.4 44.3 54.3 33.1 28.6 22.9 28.9 29.7 35.0 28.1 31.8 Net purchases of used autos. 15.9 15.6 13.9 14.4 17.3 18.2 19.0 20.0 8.2 7.8 7.5 7.4 7.8 7.8 8.1 7.9 Producers' durable equipment. 13.2 12.4 11.0 13.3 12.5 13.7 12.9 15.2 9.9 8.5 7.3 8.6 8.9 9.9 8.8 10.9 New autos. 22.2 21.2 18.3 21.9 22.4 24.7 22.3 28.5 14.9 13.2 11.4 13.4 13.6 15.0 13.0 15.5 Net purchases of used autos. -9.1 -8.8 -7.3 -8.7 -9.9 -11.0 -9.4 -11.3 -5.0 -4.7 -4.1 -4.8 4.7 -5.0 -4.3 -4.5 Net purchases of used autos. -9.1 -8.8 -7.3 -8.7 -9.9 -11.0 -9.4 -11.3 -5.0 -4.7 -4.1 -4.8 4.7 -5.0 -4.3 -4.5 Net purchases of used autos. -9.1 -1.2 9 -10.9 -15.1 -13.9 -12.2 -14.2 -14.9 -4.4 -5.5 -4.6 -6.6 -6.0 -4.7 -4.5 -5.5 -4.6 Net purchases. 4.7 4.0 3.9 3.4 3.9 -12.2 -14.2 -14.9 -4.4 -5.5 -4.6 -6.6 -6.0 -4.7 -5.5 -5.5 -5.5 -5.5 -5.5 -5.5 -5.5 -5	Auto output			6	8.0	60.2	53.6	54.3	68.8	68, 1	73. 6	75,0	46.8	38, 6	34.	6 34	.6	12.8	42,8	44,3	44,3
Net purchases of used autos. 15.9 15.6 13.9 14.4 17.3 18.2 19.0 20.0 8.2 7.8 7.5 7.4 7.8 7.8 7.8 7.6 7.0	Personal consumption expend	itures		6	5.3	61.8	50.7	58.7	66.1	75. 6	63. 3	74.3	41.3	36. 5	30.	4 34	.3	37. 5	42.8	34. 2	44.4 39.1
New autos.	Net purchases of used autos			1	5.9	15.6	13.9	14.4	17.3 12.5	18. 2	19.0	20.0	8. 2	7.8	7.	5 7	. 4	7.8	7.8	8.1	31. 3 7. 9 10. 4
Net exports. ————————————————————————————————————	New autos			2	2.2	21. 2	18.3	21.9	22.4	24.7	22. 3	26.5	14.9	13. 2	11.	4 13	.4 1	13.6	15.0	13.0	15. 2 -4. 9
Imports					0.1	12.9 -	-10.9 -	-15.1	-13.9	-12.2	-14.2	-14.9	-4.4	-5.5	-4.	6 -6		6.0 - 2.4	2.5	2.4	-5.5 2.5
Change in business inventories.	ImportsGovernment purchases			1	4.8		14.8	18. 4	17.8		18. 2	19.3	7.6	8.0	7.	1 8	.5	.5	. 5		8.0 .4
Domestic output of new autos 1	Change in business inventories.			=== =	1.0 -	-1.9 -1.3	2.0 3.4	-3.5 -3.8	3. 2 3. 5	-10.8	12.5	3 9	5 4	-1.3 9	1.	0 -2 8 -2	. 4	2.1 -	-6.2	7.3	1 4 .3
Truck output 1	Addenda: Domestic output of new autor Sales of imported new autor 2.	3 ¹		5 1									38. 7 12. 9								35, 4 13, 9
Final sales 37.7 27.8 26.1 27.5 26.8 27.6 28.1 27.4 22.3 14.9 14.1 14.5 13.7 13.9 13.7 13.0 Personal consumption expenditures 11.4 7.9 7.3 7.9 7.5 7.8 8.2 8.2 7.6 4.9 4.5 4.8 4.5 4.7 4.8 4.8 Producers' durable equipment 23.7 17.6 16.1 18.0 16.8 16.9 17.4 17.8 13.3 9.1 8.4 9.1 8.2 8.0 8.0 8.0 Net exports		<u></u>		Tab	le 1.10	5-1.17	.—Tru	ck Ou	tput i	n Curi	rent a	nd Cor	nstant	Dolla	rs			1	,		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					l	1		-									-		l		12.0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Personal consumption expend	itures		1	1.4	7.9	7.3	7.9	7.5	7.8	8.2	8.2	7.6	4.9	4.	5 4.	.8	4.5	4.7	4.8	13, 0 4, 8
Imports	Net exports				4 -	-1.1	7	-1.9	-1.0	7	17.4 -1.1	17.8 -2.5	4	9.1 8	8. 	6 -1.	. 2 -	7	6	8	-1.4
	Imports				3.8	4.1	3.5	5.0	4.3	4. 3	3. 4 4. 5	3. 2 5. 7	2.3	1.6 2.3	1. 2.	1 2.	6 8	2.3	2. 3	1.5 2.4	1. 4 2. 9
Change in business inventories	Government purchases						3, 5	3. 6	3.7	3.8	1.7	1.7	1.	_	ı	1.7	ł	i	1.7		
	Oninge in business inventories												.1	-1.2	-1.	3 -2 -	.z	.5	-,3	.2	-1.0

Table 1.14-1.15:
1. Consists of final sales and change in business inventories of new autos produced in the United States.
2. Consists of personal consumption expenditures, producers' durable equipment, and government purchases.

Table 1.16-1.17:
1. Includes new trucks only.

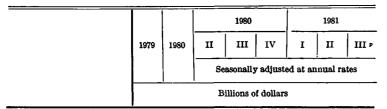


Table 2.1.—Personal Income and Its Disposition

Personal income	1,943.8	2,160.2	2, 114.5	2, 182, 1	2, 256, 2	2, 319, 8	2, 368, 5	2,440.0
Wage and salary disburse- ments	1, 236.1	1, 343, 7	1,320.4	1,341.8	1, 397. 8	1, 442. 9	1,467.0	1 ,497 .8
Commodity-producing in-	·						1	
dustries	437.9	465. 4	456.0	460.1	484.0	501.3	508.1	520. 4
Manufacturing	333.4	350.7	343. 2	346.7	364.0	377.4	386.7	394. 5
Distributive industries	303.0	328. 9	323. 2	329. 2	340.6	351.9	357.8	364.7
Service industries	259. 2	295. 7	290.8	298.7	310.0	322. 5	330. 5	338. 2
Government and govern- ment enterprises	236. 1	253. 6	250.5	253. 9	263.3	267. 1	270.5	274.6
Other labor income	118.6	137, 1	135.1	139.1	143, 5	148. 0	151.8	156.3
Proprietors' income with IVA and CCAdj	131.6	130, 6	124.9	129.7	134, 0	132, 1	134, 1	135.4
FarmNonfarm	30. 8 100. 7	23. 4 107. 2	23. 3 101. 6	22. 1 107. 6	22. 5 111. 6	18. 9 113. 2	21. 7 112. 5	23. 1 112. 3
Rental income of persons with CCAdj	30.5	31.8	31.5	32.0	32.4	32. 7	33, 3	33.9
Personal dividend income	48.6	54. 4	54.2	55.1	56.1	58. 0	60, 2	63.0
Personal interest income	209.6	256.3	253.6	261.8	269.7	288. 7	300.9	315.8
Transfer payments	249.4	294.2	280.7	310.7	313.9	319. 6	324. 2	342.7
Old-age, survivors, dis-								
ability, and health in- surance benefits	131.8	153.8	144. 7	163. 2	165, 3	169.8	172.0	188.
Government unemploy- ment insurance benefits	9.8	16.0	16.0	19.0	17.5	15. 6	15. 6	14, 8
Veterans benefits	14.4	15.0	14.6	14.9	15.5	15.9	15. 9	15. 9
Government employees	l	20.0		1	20.0		-5.0	
retirement benefits	37.0	42.8	42.3	43.1	45.7	46.7	48.5	48.9
Other transfer payments Aid to families with de-	56.4	66.7	63.0	70.5	69. 9	71.7	72. 3	74.7
Aid to families with de-	1							
pendent children Other	11.0 45.4		12.0 51.0		13. 1 56. 8	13. 3 58. 3		13. 60.
Less: Personal contributions								
for social insurance	80.6	87.9	85.9	88.1	91.2	102. 3	103, 1	104.
Less: Personal tax and nontax payments	302.ò	338, 5	330.3	341.5	359, 2	372,0	382, 9	399.
Equals: Disposable personal	l							ļ
income	1,641.7	1,821.7	1,784.1	1,840.6	1,897.0	1, 947. 8	1, 985. 6	2,040.
Less: Personal outlays	1,555.5	1,720,4	1,674.1	1,729.2	1,799.4	1, 858, 9	1,879.0	1 ,939 .
Personal consumption ex-	1 510 0	1 650 6	1 000 0	1, 682. 2	^		1 000 1	1 000
Interest paid by consumers	1	ļ ·		1	[]	· ·		1
Personal transfer payments	43.7		ļ			47.8		
to foreigners (net)	1.0	1		į		1.0		-7
Equals: Personal saving	86.2	101.3	110.0	111.4	97.6	88, 9	106.6	100.
Addenda: Disposable personal income: Total, billions of 1972 dollars		1, 018. 4	1, 008. 2	1, 018. 5	1, 025. 8	1, 033. 3	1, 036. 8	1, 042.
Per capita: Current dollars 1 1972 dollars 1	7, 293 4, 493		7, 848 4, 435					
Population (millions)1	225. 1	227. 7	227. 3	228,0	228.6	229. 1	229. 5	230.
Personal saving as percentage of disposable personal income.	5.2	5.0	6.2	6.1	5, 1	4. (5. 6.	4.

Table 3.14:

			1980			1981	
1979	1980	п	III	IV	I	11	III s
		s	easonall	y adjust	ed at a	nnual r	ates
			Billions	of dollar	rs		

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

							1	
Personal consumption expenditures.	1, 510. 9	1,672.8	1, 626, 8	1, 682, 2	1,751.0	1, 810, 1	1, 829, 1	1,888.6
Durable goods	212, 3	211.9	194. 4	208.8	223, 3	238.3	227.3	240.0
Motor vehicles and parts Furniture and household equipment	95. 5 81. 1	89. 9 84. 6				l		105.2 93.2
Other	35.8	37.3						
Nondurable goods	602, 2	675, 7	664.0	674, 2	703.5	726.0	735.3	750.1
Food. Clothing and shoes. Gasoline and oil. Other nondurable goods. Fuel oil and coal. Other	312. 1 98. 9 68. 4 122. 9 16. 0 106. 9	345. 7 104. 8 89. 0 136. 2 19. 8 116. 4	102. 3 90. 9 132. 4 19. 2	105, 3 85, 3 136, 0 20, 7	109. 4 90. 5 143. 3 20. 5	113. 4 93. 5 146. 6 20. 5	115. 8 92. 4 149. 4 21. 0	116, 9 95, 3 151, 2 20, 6
Services	696.3	785, 2	768. 4	799, 2	824. 2	845.8	866.5	898.6
Housing Household operation Electricity and gas Other Transportation Other	98. 7 47. 3 51. 3	111. 6 55. 7 56. 0 64. 1	109. 3 54. 5 54. 8 61. 6	116. 1 59. 3 56. 8 65. 8	116.9 58.8 58.2 67.5	118. 1 58. 4 59. 7 67. 6	123. 4 61. 5 61. 9 67. 9	130. 7 66. 2 64. 5 70. 3
			Bil	lions of	1972 dol	lars		<u> </u>
Personal consumption expenditures.	930, 9	935, 1	919. 3	930, 8	946, 8	960, 2	955, 1	965.2
Durable goods	146.6	135.8	126. 2	132, 6	139.1	146.8	137.4	142.4
Motor vehicles and parts Furniture and household equipment	61. 7 59. 8					1		1
Other	25. 1				23.8			
Nondurable goods	354, 6	358, 4	356, 6	354, 9	360, 4	364.5	367.0	368.2
Food. Clothing and shoes Gasoline and oil. Other nondurable goods. Fuel oil and coal Other	76. 6 28. 1 73. 2	78. 0 26. 2 72. 6 4. 2	76. 7 26. 4 71. 2 4. 1	78.3 25.2 71.4 4.3	80. 1 26. 3 74. 1 4. 2	82. 8 24. 9 74. 0 3. 7	84. 0 24. 4 73. 6	83. 8 25. 8 73. 6 3. 6
Services	429. 6	440.9	436.5	443, 3	447.3	448.9	450, 7	454.6
Housing Household operation Electricity and gas Other Transportation Other	23, 1 36, 5 35, 5	61. 5 23. 3 38. 3 34. 8	61. 3 23. 1 38. 2 34. 1	62.6 24.1 38.4 34.7	62. 1 23. 4 38. 7 35. 1	61. 4 22. 6 38. 8 34. 8	62. 4 3 23. 2 3 39. 3 34. 5	63, 2 23, 6 39, 6 35, 0

Billions of dollars

Table 3.14.—State and Local Government Social Insurance Funds Receipts and Expenditures

Receipts	40, 2	45, 1	43, 6	46.0	47.8	49. 6	51.5	53.
Contributions for social in- surance	28. 1	31. 5	30. 2	3 2. 3	33, 7	34.8	35. 9	36.
Personal contribution Employer contributions	7.5 20.7	7.7 23.8	7. 0 23. 2	8. 1 24. 3	8. 4 25. 3	8. 6 26. 3	8.8 27.1	8. 28.
Government and govern- ment enterprises Other	18.3 2.4	21. 0 2. 8	20. 5 2. 7	21. 4 2. 8	22. 4 2. 9	23. 2 3. 0	24. 0 3. 2	24. 3.
Interest and dividends re- ceived	12. 1	13. 6	13. 4	13. 7	14. 1	14.8	15. 6	16.
Expenditures	16. 4	18, 2	17. 9	18. 3	18, 8	19. 2	19.8	20
Administrative expenses (pur- chases of goods and services). Transfer payments to persons.	. 5 15. 9	. 6 17. 6	. 5 17. 4	. 6 17. 8	. 6 18. 2	. 6 18. 7	. 6 19. 2	19
Surplus or deficit (—)	23, 9	26. 9	25, 7	27.7	29. 0	30. 4	31, 7	32
						1		

Note.—In this table interest and dividends received included in receipts; in tables 3.2 and 3.3 interest received and dividends received are netted against expenditures.

Table 3.2.—Federal Government Receipts and Expenditures

Table 3.3.—State and Local Government Receipts and Expenditures

				1980			1981						1980			1981	
•	1979	1980	11	ш	IV	1	11	III »		1979	1980	II	ш	IV	1	11	III •
	{		Se	esonall	y adjust	ted at an	nual ra	tes				Se	asonall	y adjust	ed at ar	nual ra	ites
		<u> </u>	В	illions o	f dollar	3					·	В	illions o	f dollars			
Receipts	494, 4	540.8	520, 9	540.8	573, 2	617.4	621, 0		Receipts	351, 2	384.0	373.9	386, 8	403.4	411.7	413, 6	
Personal tax and nontax receipts		257. 8 251. 0 6. 6	252. 0 245. 2 6. 7 . 2	259. 4 252. 3 6. 9 . 2	272. 9 265. 9 6. 8 . 2	283.3 276.8 6.4 .2	293. 2 286. 0 7. 0 . 2	306.6 299.3 7.0 .2	Personal tax and nontax receipts	70. 6 38. 8 24. 5 7. 4	80. 7 44. 9 27. 9 7. 9	78.3 43.0 27.5 7.8	82. 1 45. 8 28. 3 8. 0	86. 3 49. 1 29. 0 8. 2	88. 6 50. 4 29. 8 8. 4	89. 7 50. 3 30. 7 8. 6	93.3 52.6 31.8 8.8
Corporate profits tax accruals	74.6	70.2	60. 9	66.7	72.6	74.6	64.8		Corporate profits tax accruals.	13.0	12. 2	10.6	11.7	12.6	13.1	11.6	
Indirect business tax and non- tax accruals	29. 4 18. 6 7. 5 3. 4	40. 6 29. 1 7. 2 4. 4	38. 7 27. 9 6. 8 4. 0	42. 9 31. 4 7. 3 4. 2	49. 1 36. 1 7. 3 5. 6	60. 6 47. 8 7. 7 5. 0	62. 6 49. 6 8. 1 4. 9	61.1 47.6 8.4 5.2	Indirect business tax and non- tax accruals	159. 0 76. 9 64. 4 17. 7	171. 6 82. 9 67. 5 21. 2	167. 7 79. 7 67. 2 20. 8	173. 0 83. 4 67. 9 21. 7	179. 0 87. 5 68. 9 22. 6	184. 9 91. 2 70. 3 23. 3	186. 9 90. 9 71. 9 24. 1	192.1 94.3 73.0 24.9
Contributions for social insur-	159. 0	172. 2	169.3	171.8	178.6	198. 9	200. 4	203.6	Contributions for social in-	28.1	31. 5	30. 2	32, 3	33, 7	34.8	35. 9	36.9
Expenditures	509, 2	602,0	587.3	615, 0	641, 1	664.0	668, 2	696.5	Federal grants-in-aid		88.0	87. 2	87.7	91.8	90.2	89. 6	87.0
Purchases of goods and services National defense Nondefense		198. 9 131. 7 67. 2	198. 7 128. 7 70. 0	194. 9 131. 4 63. 5	212. 0 141. 6 70. 4	221. 6 145. 2 76. 4	219. 5 148. 2 71. 3	227.7 154.6 73.0	Expenditures Purchases of goods and services	324, 4 305, 9	355, 0 335, 8	350, 0 331, 3	358, 2 338, 6	366. 3 346. 6	374. 8	377.5 357.9	382.6 362.9
Transfer payments To persons To foreigners	209. 1 204. 9 4. 2	249. 8 244. 9 4. 9	236. 0 232. 2 3. 8	265. 3 260. 4 4. 9	269. 0 262. 6 6. 4	271. 9 267. 3 4. 7	274. 8 270. 7 4. 1	292. 1 287.8 4.3	Compensation of employees. Other	172. 3 133. 6	187. 4 148. 4 38. 9	185. 4 145. 9	189. 3 149. 3	193. 3 153. 3 40. 5	198. 0 156. 9 41. 2	201. 6 156. 2 42. 1	205.0 157.8 43.2
Grants-in-aid to State and local governments Net interest paid	80. 4 42. 3	88. 0 53. 3	87. 2 54. 4	87. 7 53, 5	91.8	90. 2 67. 7	89. 6 70. 4	87.0 76.2	Net interest paidInterest paid	-8.8 16.3	-10.8 17.6 28.4	-10.6 17.4	-11. 1 17. 7	-11. 4 18. 0	-11. 8 18. 6 30. 4	-12.4 19.2 31.6	-13.1 19.6 32.7
Interest paid	53. 6 42. 6 11. 1 11. 3	67. 5 55. 0 12. 5 14. 2	68. 0 56. 3 11. 7 13. 6	68. 2 56. 3 11. 9 14. 8	55. 2 70. 8 56. 7 14. 1 15. 6	84. 4 68. 6 15. 8 16. 7	88. 0 71. 0 17. 0 17. 6	94.3 77.3 17.0 18.1	Less: Interest received Less: Dividends received Subsidies less current surplus	25. 1	1.6	28. 0 1. 6	28.8	29.5	1.6	1.8	1.8
Subsidies less current surplus of government enterprises Subsidies Less: Current surplus of	9. 4 9. 3	12. 0 10. 7	11. 0 10. 3	13. 7 10. 7	13. 1 11. 6	12. 6 11. 9	13. 9 12. 2	13.8 12.7	of government enterprises. Subsidies. Less: Current surplus of government enter- prises.	-6.3 .3	-7.4 .4	7.6	-7. 5 . 4 7. 8	-7. 7 . 4 8. 1	-7. 9 . 4 8. 3	-8. 2 . 4 8. 6	-8.5 .4
government enterprises Less: Wage accruals less disbursements	0	0	6 0	-3. 1 0	-1.4 0	7 0	0	-1.0 .2	Less: Wage accruals less dis- bursements	-,1	0	0	0	0	0	0	0
Surplus or deficit (-), NIPA's	-14.8	-61, 2	-66.5	-74. 2	-67.9	-46.6	-47, 2		Surplus or deficit (-), NIPA's	26.7	29, 1	23, 9	28, 6	37, 1	36.9	36, 1	
Social insurance fundsOther		-14. 2 -47. 0	-7.8 -58.6	-27. 1 -47. 1	-22. 2 -45. 8	-4.6 -42.0	-6.1 -41.1	-18.8	Social insurance fundsOther	23. 9 2. 9	26. 9 2. 1	25. 7 -1. 7	27.7 .9	29.0 8.1	30. 4 6. 6	31. 7 4. 3	32.7

Table 3.7B-3.8B.—Government Purchases of Goods and Services by Type in Current and Constant Dollars

				1980			1981					1980			1981	
	1979	1980	11	ш	IV	I	II	III »	1979	1980	II	Ш	IV	I	II	III »
				Seasonall	y adjust	ed at ann	ual rates	3				Seasonal	y adjust	ed at an	nual rate	3
		Billions of dollars									Bi	llions of	1972 dolla	агз		
Government purchases of goods and services	473.8	534, 7	530.0	533.5	558, 6	576, 5	577.4	590.5	281.8	290.0	291.9	288.2	289. 8	293, 6	289, 5	289.1
Federal. National defense. Durable goods. Nondurable goods Services. Compensation of employees. Military. Civilian Other services. Structures.	7. 0 74. 9 48. 8	198. 9 131. 7 32. 9 10. 9 84. 7 52. 8 30. 4 22. 4 31. 9 3. 1	198.7 128.7 32.3 10.4 83.1 51.4 29.4 21.9 31.8 2.9	194.9 131.4 32.9 10.5 84.1 51.8 29.7 22.1 32.3 3.8	212.0 141.6 34.9 13.1 90.7 56.8 33.2 23.6 33.9 2.9	221, 6 145, 2 36, 3 12, 9 93, 2 57, 4 33, 5 23, 8 35, 9 2, 8	219. 5 148. 2 37. 2 13. 1 94. 9 57. 8 33. 7 24. 2 37. 1 3. 0	227.7 154.6 40.4 12.8 98.5 58.4 33.9 24.4 40.2 3.0	101.7 67.1 16.6 2.4 46.7 32.0 18.8 13.2 14.7	108. 1 70. 9 18. 4 2. 5 48. 5 32. 1 18. 9 13. 2 16. 4 1. 6	110.7 70.9 18.3 2.5 48.7 32.0 18.8 13.2 16.7	106.9 70.9 18.0 2.3 48.7 32.2 18.9 13.2 16.5	107. 4 71. 9 18. 9 2. 8 48. 8 32. 1 19. 0 13. 1 16. 7 1. 4	111, 2 72, 1 18, 7 2, 7 49, 4 32, 2 19, 0 13, 1 17, 2 1, 4	108. 7 72. 6 18. 7 2. 7 49. 8 32. 3 19. 1 13. 2 17. 5 1, 4	110.2 74.0 19.3 2.6 50.8 32.6 19.2 13.4 18.2
Nondefense Durable goods Nondurable goods Services Compensation of employees Other services. Structures	2.0 48.1	67. 2 1. 5 4. 1 55. 1 29. 1 25. 9 6. 6	70. 0 1. 3 7. 8 54. 6 29. 1 25. 4 6. 3	63.5 1.5 -1.1 56.3 28.8 27.5 6.8	70. 4 1. 6 5. 3 57. 0 30. 3 26. 7 6. 5	76. 4 2. 0 9. 2 57. 6 30. 6 27. 0 7. 7	71. 3 1. 8 5. 4 57. 0 30. 4 26. 5 7. 2	73.0 1.8 8.4 55.5 30.1 25.4 7.3	34.6 .7 1.1 29.6 17.0 12.6 3.2	37. 2 . 9 2. 0 31. 1 17. 1 14. 0 3. 2	39. 7 . 8 4. 5 31. 4 17. 5 13. 9 3. 1	35. 9 . 9 1 31. 9 17. 2 14. 6 3. 2	35. 4 . 9 . 8 30. 7 16. 8 13. 9 3. 0	39. 0 1. 0 4. 0 30. 5 16. 8 13. 6 3. 5	36. 1 1. 0 2. 1 29. 8 16. 7 13. 1 3. 2	36.1 .9 3.2 28.8 16.5 12.3 3.2
State and local Durable goods Nondurable goods Services Compensation of employees Other services Structures	9.8 23.4 232.4	335. 8 10. 6 26. 3 253. 7 187. 4 66. 3 45. 3	331.3 10.5 25.7 250.7 185.4 65.3 44.4	338.6 10.7 26.7 256.3 189.3 67.1 44.9	346. 6 10. 9 27. 8 262. 2 193. 3 69. 0 45. 7	354. 9 11. 1 28. 3 268. 5 198. 0 70. 4 47. 1	357.9 11.3 28.8 274.5 201.6 72.8 43.3	362.9 11.2 29.6 281.3 205.0 76.2 40.9	180.1 6.2 13.4 140.2 104.9 35.3 20.4	181. 9 6. 3 13. 7 141. 4 106. 0 35. 4 20. 5	181.2 6.3 13.6 141.1 105.9 35.2 20.2	181.3 6.3 13.7 141.4 106.1 35.3 20.0	182. 4 6. 2 14. 0 142. 0 106. 3 35. 6 20. 2	182.5 6.2 14.0 141.9 106.4 35.5 20.4	180. 7 6. 2 14. 0 141. 9 106. 2 35. 7 18. 6	178.9 6.1 14.0 141.4 105.6 35.8 17.4

		1980		1981				1980			1981				
1979	1980	11	ш	IV	I	п	III P	1979	1980	II	ш	IV	I	п	III »
		1	Seasonall	y adjust	ed at annual rates						Seasonal	y adjust	ed at an	nual rate	BS .
		-	Billions	of dollar	3					Bi	llions of	1972 dolla	ars		

Table 4.1–4.2.—Foreign Tra	ansact	ions in	the N	ationa	l Inco	me an	d Prod	uct Ac	count	s in Cu	rrent	and Co	onstan	t Dolla	ars	
Receipts from foreigners	282.5	340.9	334.4	343.5	347. 2	368, 5	369.3	363.9							-	
Exports of goods and services	281. 3	339.8	333. 3	342. 4	346. 1	367. 4	368. 2	3 62.8	146.9	161. 1	160.5	160.5	157. 4	162. 5	161.5	157. 9
Merchandise Durable goods Nondurable goods	176. 9 102. 9 74. 1	218. 2 127. 7 90. 5	213. 9 126. 3 87. 6	222. 9 129. 9 93. 0	221. 0 127. 5 93. 6	236. 3 132. 5 103. 9	234. 2 139. 4 94. 8	223. 0 133. 3 89. 8	82. 8 50. 5 32. 3	92, 2 5, 56 36, 6	92. 1 55. 9 36. 2	93. 5 55. 7 37. 8	89. 0 52. 5 36. 4	92. 4 52. 9 39. 5	91. 0 54. 3 36. 7	85. 9 50. 5 35. 4
Services Factor income ' Other	104. 4 66. 6 37. 8	121. 6 79. 5 42. 1	119. 4 78. 1 41. 3	119. 5 76. 3 43. 2	125. 0 80. 7 44. 3	131. 1 87. 1 43. 9	134. 0 88. 7 45. 4	139. 8 94. 0 45. 8	64. 1 41. 3 22. 8	68. 9 45. 4 23. 5	68. 4 45. 1 23. 3	67. 0 43. 1 23. 9	68. 4 44. 4 24. 1	70. 1 46. 7 23. 4	70. 5 46. 9 23. 7	72. (48. 5 23. 4
Capital grants received by the United States (net).	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1				 				
Payments to foreigners	282.5	340.9	334.4	343.5	347.2	368, 5	369, 3	363.9								
Imports of goods and services	267. 9	316.5	316. 2	297.9	322.7	338. 2	347.5	344.8	109.2	109.1	108.9	102.8	108.9	111.6	115. 4	118. 4
Merchandise Durable goods Nondurable goods	208. 9 99. 0 109. 9	245. 9 112. 1 133. 8	245. 6 107. 9 137. 8	231. 5 108. 7 122. 8	248. 8 116. 0 132. 9	259. 1 116. 4 142. 7	265. 3 123. 3 142. 0	259. 2 127. 5 131. 6	76. 9 47. 2 29. 7	74. 0 47. 6 26. 4	73. 4 46. 8 26. 6	70. 5 45. 8 24. 6	73. 4 47. 5 25. 8	74. 5 47. 7 26. 8	77. 3 50. 6 26. 7	52.0
Services Factor income i Other	59. 0 22. 8 36. 2	70. 6 29. 9 40. 7	70. 5 29. 9 40. 6	66, 4 25, 9 40, 6	73. 9 32. 2 41. 7	79. 1 34. 9 44. 2	82. 2 38. 3 43. 8	85. 6 41. 4 44. 2	32, 3 14, 1 18, 1	35. 1 17. 0 18. 1	35. 5 17. 3 18. 2	32. 4 14. 6 17. 8	35. 5 17. 7 17. 8	37. 1 18. 7 18. 4	38. 1 20. 3 17. 8	
Transfer payments (net)	5. 2 1. 0 4. 2	6.0 1.2 4.9	4.8 1.0 3.8	5. 9 1. 0 4. 9	8. 0 1. 6 6. 4	5. 7 1. 0 4. 7	5. 1 1. 0 4. 1	5.3 1.0 4.3								
Interest paid by government to foreigners	11.1	12. 5	11.7	11.9	14.1	15. 8	17.0	17. 0				 				
Net foreign investment	-1.7	5.9	1.7	27. 8	2.3	8.8	2	-3.2								

Table 4.3-4.4.—Merchandise Exports and Imports by Type of Product and by End-Use Category in Current and Constant Dollars

Merchandise exports	176.9	218, 2	213.9	222.9	221, 0	236. 3	234. 2	223.0	82.8	92, 2	92.1	93.5	89.0	92, 4	91.0	85.9
Foods, feeds, and beverages	29.8	35.9	32. 1	38. 4	38.8	44.9	38. 8	35. 2	13. 4	15. 3	14.5	16. 4	15. 2	17. 1	15. 1	14. 7
Industrial supplies and materials Durable goods Nondurable goods	52. 6 17. 9 34. 6	67. 1 24. 3 42. 8	70. 7 26. 4 44. 3	65. 9 23. 3 42. 7	65. 2 22. 2 43. 0	67. 6 22. 1 45. 5	62. 9 21. 5 41. 4	60. 8 19. 2 41. 6	20. 9 7. 1 13. 8	23. 7 8. 6 15. 1	25. 0 9. 3 15. 7	23. 5 8. 3 15. 2	23. 0 7. 8 15. 2	23. 1 7. 6 15. 5	21. 4 7. 3 14. 1	20. 7 6. 5 14. 1
Capital goods, except autos	58. 2	73.5	73.0	77.6	75. 5	79. 1	83.4	79.5	30.8	34.7	35.2	35.6	33.1	33. 3	34. 1	31. 5
Autos	17.4	16.9	15.6	16.5	18.1	18. 5	20.8	21.8	8. 1	6.8	6.4	6.5	6.8	6.8	7. 3	7. 5
Consumer goods Durable goods Nondurable goods	12. 6 6. 2 6. 5	16, 5 8, 8 7, 7	15. 1 7. 7 7. 4	16. 0 8. 3 7. 7	16. 1 8. 0 8. 1	16. 6 7. 9 8. 6	16. 4 7. 8 8. 6	15. 8 7. 8 8. 0	6. 7 3. 0 3. 7	8.3 3.8 4.5	7.8 3.4 4.5	7. 9 3. 6 4. 4	7. 9 3. 4 4. 6	8. 3 3. 3 5. 0	8. 3 3. 2 5. 1	7. 8 3. 1 4. 7
Other Durable goods Nondurable goods	6. 3 3. 2 3. 2	8.3 4.2 4.2	7. 5 3. 7 3. 7	8. 4 4. 2 4. 2	7. 3 3. 7 3. 7	9.7 4.8 4.8	12. 0 6. 0 6. 0	9. 9 5. 0 5. 0	3. 0 1. 5 1. 5	3. 5 1. 8 1. 8	3. 2 1. 6 1. 6	3.5 1.8 1.8	3. 0 1. 5 1. 5	3. 8 1. 9 1. 9	4. 7 2. 3 2. 3	3. 8 1. 9 1. 9
Merchandise imports	208.9	245, 9	245.6	231.5	248.8	259. 1	265, 3	259.2	76.9	74.0	73.4	70.5	73, 4	74.5	77.3	79.4
Foods, feeds, and beverages	17.4	18. 2	17.5	18. 2	19.5	20. 5	18.7	18. 1	7.6	6.7	6.5	6.6	7.0	7.4	7.0	7.0
Industrial supplies and materials, excluding petroleum	47. 4 28. 7 18. 6	52. 1 31. 2 20. 9	52. 1 30. 6 21. 5	47. 5 27. 6 19. 9	51. 6 31. 2 20. 4	55. 4 32. 1 23. 3	57. 4 35. 3 22. 0	58. 6 35. 0 23. 6	19. 4 11. 7 7. 6	17. 3 10. 2 7. 1	17. 4 10. 1 7. 3	15. 6 8. 9 6. 7	16. 9 10. 0 6. 9	18. 4 10. 6 7. 8	19. 1 11. 7 7. 4	19.8 11.8 8.0
Petroleum and products	60.0	79.1	84.0	69. 1	76.8	82.8	84. 3	71. 9	8, 5	6. 9	7.2	5, 8	6. 2	6. 3	6. 2	5. 7
Capital goods, except autos	24.6	30.1	29.5	30.0	31. 2	32.0	32. 1	34.4	13.8	14.7	14. 2	14. 4	14.8	15. 3	16. 1	17.0
Autos	25. 6	27.1	25. 0	28.1	28.9	27.0	30. 6	31.5	11.0	10.9	10.7	11.2	10.8	9.8	10.8	10. 9
Consumer goods	30. 6 18. 4 12. 2	34. 4 21. 2 13. 1	34. 1 21. 0 13. 1	34. 3 20. 8 13. 5	34. 8 21. 7 13. 1	37. 1 23. 2 13. 9	36. 9 22. 6 14. 3	38. 6 23. 6 15. 0	15. 0 9. 9 5. 1	15. 5 10. 9 4. 7	15. 9 11. 1 4. 8	15. 2 10. 5 4. 7	15, 2 10, 7 4, 5	15. 7 11. 2 4. 4	16. 0 11. 0 5. 0	16. 5 11. 0 5. 5
Other Durable goods Nondurable goods	3.5 1.8 1.8	4.9 2.5 2.5	3. 5 1. 7 1. 7	4. 2 2. 1 2. 1	6. 0 3. 0 3. 0	4.3 2.1 2.1	5. 3 2. 6 2. 6	6. 1 3. 0 3. 0	1.6 .8 .8	2. 0 1. 0 1. 0	1. 4 . 7 . 7	1.7 .8 .8	2. 4 1. 2 1. 2	1.7 .8 .8	2. 1 1. 0 1. 0	2. 4 1. 2 1. 2
Addenda: Exports: Agricultural products Nonagricultural products Imports of nonpetroleum products	1 141.5	42. 3 175. 9 166. 8	38. 9 174. 9 161. 7	43. 8 179. 1 162. 4	44. 8 176. 2 172. 0	51. 5 184. 8 176. 3	44. 9 189. 3 181. 0	39. 4 183. 7 187. 3	15. 9 66. 9 68. 4	18. 0 74. 1 67. 1	17. 6 74. 5 66. 1	18. 7 74. 8 64. 7	17. 7 71. 3 67. 1	19. 7 72. 7 68. 2	17. 6 73. 4 71. 0	16. 4 69. 5 73. 7

Table 4.1-4.2: 1. Equals rest-of-the-world production as shown in tables 1.5-1.6.

Table 5.1.—Gross Saving and Investment

			,,ne		- Coti			
				1980		_	1981	
	1979	1980	II	ш	IV	I	II	III.
			Se	asonall	y adjust	ed at ar	nual ra	tes
			В	illions o	f dollars	3		
Gross saving	411, 9	401.9	394,5	402.0	406.7	442, 6	465, 3	
Gross private saving	398, 9 86. 2	432.9 101.3	435.9 110.0	446.5 111.4	436 . 4 97. 6	451.1 88.9	475, 3 106, 6	100, 2
CCAdj Undistributed profits IVA CCAdj	59. 1 117. 6 -42. 6 -15. 9	44.3 107.2 -45.7 -17.2	42.1 90.7 -31.1 -17.6	42. 8 102. 4 -41. 7 -17. 9	40. 4 106. 6 -48. 4 -17. 8	55. 7 109. 6 -39. 2 -14. 7	52. 0 90. 6 -24. 0 -14. 7	 -27. 2 -13. 4
Capital consumption allow- ances with CCAdj: Corporate Noncorporate	155. 4 98. 2	175. 4 111. 8	173. 0 110. 7	178. 4 113. 4	183. 2 115. 8 5	187. 5 119. 0	194. 6 122. 1	200, 6 125, 4
Government surplus or deficit (-), NIPA's Federal State and local	11.9 -14.8 26.7	-32, 1 -61, 2 29, 1	-42.5 -66.5 23.9	-45.6 -74.2 28.6	-30.8 -67.9 37.1	-9.7 -46.6 36.9	-11.2 -47.2 -36.1	
Capital grants received by the United States (net)	1,1	1.1	1, 1	1,1	1.1	1.1	1,1	1, 1
Gross investment	414, 1	401, 2	392, 5	405, 0	400.1	446.0	458.3	446. 6
Gross private domestic investment Net foreign investment Statistical discrepancy	415.8 -1.7 2,2	395. 3 5. 9 7	390. 9 1. 7 -1. 9	377.1 27.8 3.0	397. 7 2. 3 -6. 6	437. 1 8. 8	458. 6 2 -6. 9	449.8 -3.2
		<u> </u>	1				<u> </u>	<u> </u>

Table 5.8-5.9.—Change in Business Inventories by Industry

in Curr						S Dy 11	naust	ry
Change in business inventories	17.5	-5.9	7.4	-16.0	-17.4	4.5	23, 3	17. 6
Farm	4. 1 13. 4 64. 6 -51. 2	-1. 2 -4. 7 49. 3 -54. 0	1. 3 6. 1 43. 4 -37. 3	-3.7 -12.3 36.5 -48.8	-3.4 -14.0 42.4 -56.4	-2. 4 6. 8 52. 7 -45. 9	1, 8 21, 5 47, 8 -26, 3	3.8 13.9 43.4 -29.5
Manufacturing. Durable goods. Nondurable goods. Wholesale trade. Durable goods. Nondurable goods. Nondurable goods. Merchant wholesalers. Durable goods. Nondurable goods. Nondurable goods. Nonmerchant wholesalers. Durable goods. Retall trade. Durable goods. Nondurable goods.	11.3 .9 1.4 1.1 3 7 1.0 6 5 1	-2.1 -1.6 1.0 1.0 1.1 -1.5 -1.1 -1.3 -1.2 -4.4 -4.4 0 8 1.1 1.8	.44 .165.93 366.04 552.76 32.76 .24	-12.6 -4.4 -8.2 -1.98 -1.0 3.74 -4.1 5.5 -5.1 2.9826	-9.7 -1.6 -8.1 -6.2.0 -1.4 -7.5 -1.8 -1.5 -4.5 -4.92	15.0 6.2 8.9 1.3 -3.8 -1.0 -2.7 4.2 4.0 -9.4 -9.3 -1.8 -1.9	2.0 1.4 7.5 6.3 1.2 9.4 3.3 -2.1 -2.1 14.4 7 2.7 -2.4 -2.3	6.0 5.1 -2.8 -1.3 -4.2 1.7 -8.6 -5.1 11.6 2.8.4 17
			Billi	ons of 19	972 dolla	ars		
Change in business inventories	10, 2	-2,9	1, 3	-5,0	-7.2	-1.4	10.8	10, 3
Farm	2. 4 7. 8	-2. 4 5	.7	-1.8 -3.1	-1. 5 -5. 6	-1.1 3	9. 9 9. 9	1. 9 8. 4
Manufacturing	6.3 1.0 .5 .4 0 .4 .5 .5	-1.0 19 .5 .5 0 .6 1 2 1 0 -2.2 1	5 0 5 1.5 2.3 8 1.6 2.3 7 1 0 1 6 -1.7	-5.2 -1.8 -3.4 2 1.1 1.9 0 2.0 -1.1 2 9 1.3 -1.7 3.0	-3.6 7 -2.8 0 .7 8 3 1.0 7 3 3 1 -1.9 .4 -2.3 2	4.6 2.5 2.1 -1.0 9 1.6 -1.0 7 .7 .6 -4.3 -4.7 .5	.9 .5 3.0 2.8 .2 3.2 2.8 .4 3 0 2 6.9 5.8 1.11	.5 .7 .7 0

Table 5.10-5.11.—Inventories and Final Sales of Business in Current and Constant Dollars

		1980			1981	
	II	111	rv	I	II	III,
		Seasona	lly adjus	ted at a	nual rat	es
		I	Billions o	f dollars		
Inventories 1	740.4	765, 8	785, 4	796, 9	811,3	827.
Farm	81.8	92.6	92.6	86.9	86.7	86.
Nonfarm Durable goods Nondurable good	658. 5 374. 6	673. 2 379. 9	692. 8 393. 7	710. 0 397. 8	724. 6 408. 8	741.1 420.
Nondurable good	283. 9	293. 4	299.1	312. 2	315.8	320.
Manufacturing	3 31. 2	335. 3	344 , 2	355. 2	363. 2	370.
Durable goodsNondurable goods	212. 6 118. 6	215. 5 119. 8	222. 5 121. 8	226. 9 128. 2	231. 8 131. 3	239. 131.
						ļ
Wholesale trade Durable goods Nondurable goods	142. 0 87. 0	146. 3 89. 0	151. 7 92. 6	155. 7 94. 3	158. 8 97. 6	160. 99.
Nondurable goods	55.0	57.3	59.1	61.4	61.2	61.
	111.6	116.7	120.7	121.8	125.3	128.
Durable goods	72. 2 39. 4	74. 0 42. 7	77. 2 43. 5	78. 2 43. 5	81. 2 44. 1	83. 45.
Nonmerchant wholesalers	30. 4	29.6	31.0	33.9	33.5	32.
Durable goodsNondurable goods	14.8	15.0	15. 4	16. 1	16.4	16.
Nondurable goods	15.6	14.6	15. 6	17.8	17. 1	15.
Retail trade	124.0	127.3	130. 3	129.8	132.6	139.
Durable goods Nondurable goods	57. 9 66. 2	58. 1 69. 3	60. 8 69. 5	58.7 71.1	61. 2 71. 4	63. 75.
Other	61. 3	64.3	66. 5	69. 4	70.0	70.
Final sales 2Final sales of goods and structures	179, 9 112, 6	187. 2 117. 0	194, 1 121, 9	201. 4 127. 6	202, 2 126, 5	207. 128.
Ratio: Inventories to final sales	4.12	4.09	4. 05	3.96	4.01	4.0
Nonfarm inventories to final sales Nonfarm inventories to final sales of	3, 66	3. 60	3. 5 7	3. 53	3, 58	3.5
goods and structures	5. 85	5.75	5. 68	5. 56	5. 73	5.7
		Bi	illions of	1972 d oll	ars	
Inventories 1	343, 6	342, 3	340.6	340, 2	342.9	345.
Farm	43.8	43. 4	43.0	42.7	42.9	43.
Nonfarm	299.8	299. 0	297. 6	297.5	300.0	302. 182.
Durable goodsNondurable goods	180. 8 118. 9	179. 9 119. 1	179. 9 117. 6	179. 2 118. 3	181. 4 118. 6	182. 119.
Manufacturing	147. 2 99. 5	145. 9 99. 0	145. 0 98. 9	146. 1 99. 5	146. 3 99. 6	147. 100.
Durable goods Nondurable goods	47. 7	46.8	46. 1	46. 6	46. 8	46.
Wholesale trade	64.5	64.7	64.7	64. 4	65. 2	65.
Durable goods	42.5	42.5	42.7	42.4	43. 1	43.
Nondurable goods	21.9	22. 2	22.0	22.0	22.0	22.
Merchant wholesalers	52. 9 35. 3	53. 3 35. 3	53. 4 35. 5	53. 0 35. 3	53. 8 36. 0	54. 36.
Durable goods Nondurable goods	17.6	18. 1	17. 9	17.7	17.8	18.
Nonmerchant wholesalers	11.6 7.2	11.3	11.2	11.4	11.3	11.
Durable goods Nondurable goods	7. 2 4. 4	7. 2 4. 1	7. 1 4. 1	7.1 4.3	7. 1 4. 2	7. 4.
		,	j			
Retail trade Durable goods	64. 7 30. 7	65. 1 30. 2	64. 6 30. 3	63. 5 29. 2	65. 2 30. 6	66. 3 0.
Nondurable goods	34.1	34.8	34.2	34. 4	34.6	35.
Other	23. 4	23. 4	23. 4	23. 4	23. 2	23.
Final sales ² Final sales of goods and structures	102, 8 64, 3	103. 9 64. 7	105. 4 65. 9	107.3 67.9	105. 9 66. 2	105. 65.
Ratio: Inventories to final sales	3. 34 2. 92	3. 29 2. 88	3. 23 2. 82	3. 17 2. 77	3. 24 2. 83	3. 2 2. 8
					4.00	
Nonfarm inventories to final sales Nonfarm inventories to final sales of goods and structures	2. 92	4.62	4. 51	4. 38	4. 53	4. 5

Table 5.8-5.9:

1. The IVA shown in this table differs from that which adjusts business income. The IVA in this table reflects the mix of methods (first-in-first-out, last-in-first-out, etc.) underlying book value inventories derived primarily from Census Bureau Statistics. The mix differs from that underlying business income derived primarily from Internal Revenue Service statistics.

Table 5.10-5.11:

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

2. Quarterly totals at monthly rates. Business final sales equals final sales less gross product of households and institutions, government, and rest-of-the world and includes a small amount of final sales by farms.

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

	1			1980			1981	
	1979	1980	II	III	IV		II	III »
			Se	asonall	v adjust	ed at ar	nual ra	tes
			<u> </u>	Billions				
National income with- out CCAdj	2 014 3	2, 180, 4	2 129 4	2 183 1	2 265 6	2 350 2	2 381 1	
Domestic industries		2, 130. 4	·					
Private industries	ŀ	1,829.1						
Agriculture, forestry, and	64.7	62.8	62.4	62. 1	63.4	61.4	85.0	
fisheries Mining Construction	64.7 30.1 102.6	37.0	36.4	36.0	40.9 111.6	42.5	41.0	
Manufacturing	514.5	527. 2	504.3	517. 6	548.1	577. 2	586. 3	
Durable goods Nondurable goods	315. 4 199. 1	311. 5 215. 7	293. 7 210. 6	305. 7 211. 9	329. 2 218. 9		354. 9 231. 4	
Transportation and public	158, 3	174.3	170.0	179. 3	180.9	187. 5	190.8	
Transportation Communication	76.3 43.5	80. 0 50. 1	78. 2 48. 1	79. 9 50. 9	82. 5 54. 0	84.7	85.3	
Electric, gas, and sani- tary services	38.4	44.3	43.6		44.4			
Wholesale trade	121.9	133.8	134. 5	131.4	139.6	146. 6	148. 5	
Retail trade Finance, insurance, and	168.9	180. 0 290. 8	177.8 284.1	183. 6 294. 3	186.6 304.0		309. 9	
real estate Services	256. 3 275. 3	290. 8 314. 8	308.9	319. 1	327.9		348.7	
Government and govern- ment enterprises	277.8	301.7	297.6	302. 5	314.0	320.7	325, 3	
Rest of the world	43.8	49.7	48. 1	50.5	48, 6	52.3	50.4	52, 5
Table 6.20.	Cor	porat	e Prof	its by	Indu	strv		<u> </u>
		<u>-</u>		1980		<u> </u>	1981	
	1979	1980	TT	TIT	ıv	т	II	III p
	1979	1980	II See	III	IV	I at an	II	III p
-	1979	1980	Se	<u>'</u>	adjusto	ed at an	_	<u> </u>
	1979	1980	Se	asonally	adjusto	ed at an	_	<u> </u>
Corporate profits with IVA and CCAdj	1979	1980	Se	asonally	adjusto	ed at an	nual ra	tes
IVA and CCAdj Domestic industries	196, 8 166, 5	182, 7 151, 5	See E 169, 3 140, 0	asonally sillions of	adjuste of dollar 183.3 155.6	203.0 177.6 25.5	190.3	tes
IVA and CCAdj Domestic industries Financial Nonfinancial	196, 8 166, 5 29, 8 136, 7	182, 7 151, 5 27, 9 123, 6	See E 169, 3 140, 0 27, 4 112, 5	177, 9 147, 0 25, 8 121, 2	adjusto of dollar 183, 3 155, 6 27, 4 128, 2	203.0 177.6 25.5 152.1	190. 3 167. 6 21. 0 146. 5	tes
IVA and CCAdj Domestic industries Financial Nonfinancial Rest of the world	196, 8 166, 5 29, 8	182, 7 151, 5 27, 9	See E 169, 3 140, 0 27, 4	177. 9 147. 0 25. 8	adjuste of dollar 183, 3 155, 6 27, 4	203.0 177.6 25.5	190. 3 167. 6 21. 0 146. 5	tes
IVA and CCAdj Domestic industries Financial	196, 8 166, 5 29, 8 136, 7	182, 7 151, 5 27, 9 123, 6	See E 169, 3 140, 0 27, 4 112, 5	177, 9 147, 0 25, 8 121, 2	adjusto of dollar 183, 3 155, 6 27, 4 128, 2	203.0 177.6 25.5 152.1	190. 3 167. 6 21. 0 146. 5	tes
IVA and CCAdj Domestic industries Financial Nonfinancial Rest of the world Corporate profits with	196. 8 166. 5 29. 8 136. 7 30. 3	182. 7 151. 5 27. 9 123. 6 31. 1 199. 8 168. 7	See E 169, 3 140, 0 27, 4 112, 5 29, 3	177, 9 147, 0 25, 8 121, 2 30, 9	183.3 155.6 27.4 128.2 27.7	203. 0 177. 6 25. 5 152. 1 25. 4 217. 7	190. 3 167. 6 21. 0 146. 5 22. 8 205. 1 182. 3	tes
IVA and CCAdj Domestic industries	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4	182, 7 151, 5 27, 9 123, 6 31, 1 199, 8	See E 169, 3 140, 0 27, 4 112, 5 29, 3 186, 9	177. 9 147. 0 25. 8 121. 2 30. 9	183.3 155.6 27.4 128.2 27.7	203.0 177.6 25.5 152.1 25.4 217.7	190. 3 167. 6 21. 0 146. 5 22. 8 205. 1 182. 3	tes
IVA and CCAdj Domestic industries	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 9. 6 22. 0 150. 8	182, 7 151, 5 27, 9 123, 6 31, 1 199, 8 168, 7 30, 6 11, 9 18, 7	See E 169, 3 140, 0 27, 4 112, 5 29, 3 186, 9 157, 5 30, 1 12, 7 17, 4 127, 5	177, 9 147, 0 25, 8 121, 2 30, 9 195, 9 165, 0 28, 7 11, 3 17, 4 136, 2	183. 3 155. 6 27. 4 128. 2 27. 7 201. 0 173. 4 30. 5 12. 0 18. 5	203.0 177.6 25.5 152.1 25.4 217.7 192.3 28.6 13.5 15.1 163.7	190, 3 167, 6 21, 0 146, 5 22, 8 205, 1 182, 3 24, 3 14, 3 10, 1 158, 0	tes
IVA and CCAdj Domestic industries	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 22. 0	182, 7 151, 5 27, 9 123, 6 31, 1 199, 8 168, 7 30, 6 11, 9 18, 7	See E 169. 3 140. 0 27. 4 112. 5 29. 3 186. 9 157. 5 30. 1 12. 7 17. 4	177, 9 147, 0 25, 8 121, 2 30, 9 195, 9 165, 0 28, 7 11, 3 17, 4	183.3 155.6 27.4 128.2 27.7 201.0 173.4 30.5 12.0 18.5	203. 0 177. 6 25. 5 152. 1 25. 4 217. 7 192. 3 28. 6 13. 5 15. 1	190, 3 167, 6 21, 0 146, 5 22, 8 205, 1 182, 3 24, 3 14, 3 10, 1 158, 0	tes
IVA and CCAdj Domestic industries	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 22. 0 150. 8 88. 9	182, 7 151, 5 27, 9 123, 6 31, 1 199, 8 168, 7 30, 6 11, 9 18, 7 138, 1 74, 5	See E 169. 3 140. 0 27. 4 112. 5 29. 3 186. 9 157. 5 30. 1 12. 7 17. 4 127. 5 61. 3	177, 9 147, 0 25. 8 121. 2 30. 9 165. 0 28. 7 11. 3 17. 4 136. 2 68. 5	adjuste f dollar 183, 3 155, 6 27, 4 128, 2 27, 7 201, 0 173, 4 30, 5 12, 0 18, 5 142, 9 76, 2	203.0 177.6 25.5 152.1 25.4 217.7 192.3 28.6 13.5 15.1	190. 3 167. 6 21. 0 146. 5 22. 8 205. 1 182. 3 24. 3 10. 1 158. 0 84. 4 31. 9	tes
Domestic industries Financial Nonfinancial Rest of the world Corporate profits with IVA Domestic industries Financial Federal Reserve Banks Other Nonfinancial Manufacturing Durable goods Primary metal industries Fabricated metal products	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 22. 0 150. 8 88. 9 39. 5	182. 7 151. 5 27. 9 123. 6 31. 1 199. 8 168. 7 30. 6 11. 9 18. 7 138. 1 74. 5 20. 9	See E 169. 3 140. 0 27. 4 112. 5 29. 3 186. 9 157. 5 30. 1 12. 7 17. 4 127. 5 61. 3 10. 1	177. 9 147. 0 25. 8 121. 2 30. 9 195. 9 165. 0 28. 7 11. 3 17. 4 136. 2 68. 5 19. 4	183.3 155.6 27.4 128.2 27.7 201.0 173.4 30.5 12.0 18.5 142.9 76.2 25.8	203.0 177.6 25.5 152.1 25.4 217.7 192.3 28.6 13.5 15.1 163.7 90.4 31.5 5.1	190. 3 167. 6 21. 0 146. 5 22. 8 205. 1 182. 3 24. 3 10. 1 158. 0 84. 4 31. 9 3. 8	tes
IVA and CCAdj Domestic industries	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 22. 0 150. 8 88. 9 39. 5 4. 2 5. 0 8. 8	182, 7 151, 5 27, 9 123, 6 31, 1 199, 8 168, 7 30, 6 11, 9 18, 7 138, 1 74, 5 20, 9 3, 1 3, 9 6, 3	See E E 169. 3 140. 0 27. 4 112. 5 29. 3 186. 9 157. 5 10. 1 12. 7 17. 4 127. 5 61. 3 10. 1 7 5. 7	177. 9 147. 0 25. 8 121. 2 30. 9 195. 9 165. 0 28. 7 11. 3 17. 4 136. 2 68. 5 19. 4 . 7 3. 9 6. 2	183.3 155.6 27.4 128.2 27.7 201.0 173.4 30.5 12.0 18.5 142.9 76.2 25.8 3.8 4.8 6.1	203.0 177.6 25.5 152.1 25.4 217.7 192.3 28.6 13.5 15.1 163.7 90.4 31.5 5.1 4.1	190, 3 167, 6 21, 0 146, 5 22, 8 205, 1 182, 3 14, 3 10, 1 158, 0 84, 4 31, 9 3, 8 4, 6 8, 2	tes
IVA and CCAdj Domestic industries	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 22. 0 150. 8 88. 9 39. 5 4. 2 5. 0 8. 8 6. 3	182, 7 151, 5 27, 9 123, 6 31, 1 199, 8 168, 7 30, 6 11, 9 18, 7 138, 1 74, 5 20, 9 3, 1 3, 9 6, 3 5, 3	See E 169. 3 140. 0 27. 4 112. 5 29. 3 186. 9 157. 5 30. 1 12. 7 17. 4 127. 5 61. 3 10. 1 2. 0 1. 7 5. 7 3. 8	177, 9 147, 0 25, 8 121, 2 30, 9 195, 9 165, 0 28, 7 11, 3 17, 4 136, 2 68, 5 19, 4 7 3, 9 6, 2 5, 5	adjuste 183, 3 155, 6 27, 4 128, 2 27, 7 201, 0 173, 4 30, 5 12, 0 18, 5 142, 9 25, 8 3, 8 4, 8 6, 1 5, 3	203.0 177.6 25.5 152.1 25.4 217.7 192.3 28.6 13.5 15.1 163.7 90.4 31.5 5.1 4.1	190. 3 167. 6 21. 0 146. 5 22. 8 205. 1 182. 3 10. 1 158. 0 84. 4 31. 9 3. 8 4. 6 8. 2	tes
IVA and CCAdj Domestic industries	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 22. 0 150. 8 88. 9 39. 5 4. 2 5. 0 8. 8 6. 3	182, 7 151, 5 27, 9 123, 6 31, 1 199, 8 168, 7 30, 6 11, 9 18, 7 138, 1 74, 5 20, 9 3, 1 3, 9 6, 3	See E E 169. 3 140. 0 27. 4 112. 5 29. 3 186. 9 157. 5 10. 1 12. 7 17. 4 127. 5 61. 3 10. 1 7 5. 7	177. 9 147. 0 25. 8 121. 2 30. 9 195. 9 165. 0 28. 7 11. 3 17. 4 136. 2 68. 5 19. 4 . 7 3. 9 6. 2	183.3 155.6 27.4 128.2 27.7 201.0 173.4 30.5 12.0 18.5 142.9 76.2 25.8 3.8 4.8 6.1	203.0 177.6 25.5 152.1 25.4 217.7 192.3 28.6 13.5 15.1 163.7 90.4 31.5 5.1 4.1	190. 3 167. 6 21. 0 146. 5 22. 8 205. 1 182. 3 10. 1 158. 0 84. 4 31. 9 3. 8 4. 6 8. 2	tes
Domestic industries. Financial Nonfinancial Rest of the world Corporate profits with IVA Domestic industries Financial Federal Reserve Banks Other Nonfinancial Manufacturing Durable goods Primary metal industries Fabricated metal products Machinery, except electrical Electric and electronic equipment Motor vehicles and equipment Other	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 9. 6 22. 0 150. 8 88. 9 39. 5 4. 2 5. 0 8. 8 6. 3 4. 3	182. 7 151. 5 27. 9 123. 6 31. 1 199. 8 168. 7 30. 6 11. 9 18. 7 138. 1 74. 5 20. 9 3. 1 3. 9 6. 3 5. 3 -4. 3	See E E 169. 3 140. 0 27. 4 112. 5 29. 3 186. 9 157. 5 30. 1 12. 7 17. 4 127. 5 61. 3 10. 1 2. 0 1. 7 5. 7 3. 8 -8. 8	177. 9 147. 0 25. 8 121. 2 30. 9 195. 9 165. 0 28. 7 11. 3 17. 4 136. 2 68. 5 19. 4 . 7 3. 9 6. 2 5. 5	183.3 155.6 27.4 128.2 27.7 201.0 173.4 30.5 12.0 18.5 142.9 76.2 25.8 3.8 4.8 6.1 5.3	203.0 177.6 25.5 152.1 25.4 217.7 192.3 28.6 13.5 15.1 163.7 90.4 31.5 5.1 4.1 8.7 8.4	190, 3 167, 6 21, 0 146, 5 22, 8 205, 1 182, 3 10, 1 158, 0 84, 4 31, 9 3, 8 4, 6 8, 2 6, 2 2, 7 6, 3	
Domestic industries. Financial Nonfinancial Rest of the world Corporate profits with IVA Domestic industries Financial Federal Reserve Banks. Other Nonfinancial Manufacturing Durable goods Primary metal industries Fabricated metal products Machinery, except electrical. Electric and electronic equipment. Motor vehicles and equipment Other Nondurable goods Food and kindred products	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 9. 6 9. 6 9. 6 9. 6 9. 6 9. 6 9	182. 7 151. 5 27. 9 123. 6 31. 1 199. 8 168. 7 30. 6 11. 7 4. 5 20. 9 3. 1 3. 9 6. 3 5. 3 -4. 3 6. 5	See E E 169. 3 140. 0 27. 4 112. 5 29. 3 186. 9 157. 5 61. 3 10. 1 2. 7 5. 7 3. 8 -8. 8 5. 6	177. 9 147. 0 25. 8 121. 2 30. 9 165. 0 28. 7 11. 3 17. 4 136. 2 68. 5 19. 4 . 7 3. 9 6. 2 5. 5 -4. 8 8. 0	183.3 155.6 27.4 128.2 27.7 201.0 173.4 30.5 12.0 18.5 142.9 76.2 25.8 3.8 4.8 6.1 5.3 8 6.6	203.0 177.6 25.5 152.1 25.4 217.7 192.3 28.6 13.5 15.1 163.7 90.4 31.5 5.1 4.1 8.7 8.4 -1.6 6.8	190. 3 167. 6 21. 0 146. 5 22. 8 205. 1 182. 3 10. 1 158. 0 84. 4 31. 9 3. 8 4. 6 8. 2 2. 7 6. 3 52. 5	tes
IVA and CCAdj Domestic industries	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 22. 0 150. 8 88. 9 39. 5 4. 2 5. 0 8. 8 6. 3 4. 3 10. 8	182. 7 151. 5 27. 9 123. 6 31. 1 199. 8 168. 7 30. 6 11. 9 18. 7 138. 1 74. 5 20. 9 3. 1 3. 9 6. 3 5. 3 -4. 3 6. 5 53. 7	See E 169. 3 140. 0 27. 4 112. 5 29. 3 186. 9 157. 5 30. 1 12. 7 17. 4 127. 5 61. 3 10. 1 2. 0 1. 7 5. 7 3. 8 -8. 8 5. 6 51. 2	177, 9 147, 0 25, 8 121, 2 30, 9 195, 9 165, 0 28, 7 11, 3 17, 4 136, 2 68, 5 19, 4 7 3, 9 6, 2 5, 5 -4, 8 8, 0 49, 1	183.3 155.6 27.4 128.2 27.7 201.0 173.4 30.5 12.0 18.5 142.9 76.2 25.8 3.8 4.8 6.1 5.3 8 6.6	203.0 177.6 25.5 152.1 25.4 217.7 192.3 28.6 13.5 15.1 163.7 90.4 31.5 5.1 4.1 8.7 8.4 -1.6 6.8 58.9 10.4 10.1	190. 3 167. 6 21. 0 146. 5 22. 8 205. 1 182. 3 10. 1 158. 0 84. 4 31. 9 3. 8 4. 6 8. 2 2. 7 6. 3 52. 5 9. 5	tes
Domestic industries Financial Nonfinancial Rest of the world Corporate profits with IVA Domestic industries Financial Federal Reserve Banks Other Nonfinancial Manufacturing Durable goods Primary metal industries Fabricated metal products Machinery, except electrical Electric and electronic equipment Motor vehicles and equipment. Other Nondurable goods. Food and kindred products Chemicals and allied	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 22. 0 150. 8 88. 9 39. 5 4. 2 5. 0 8. 8 6. 3 4. 3 10. 8 49. 4 6. 9 8. 2 10. 8	182. 7 151. 5 27. 9 123. 6 31. 1 199. 8 168. 7 30. 6 11. 9 18. 1 74. 5 20. 9 3. 1 3. 9 6. 3 5. 3 -4. 3 6. 5 53. 7 7. 3	See E 169. 3 140. 0 27. 4 112. 5 29. 3 186. 9 157. 5 30. 1 12. 7 17. 4 127. 5 61. 3 10. 1 2. 0 1. 7 5. 7 3. 8 -8. 8 5. 6 51. 2 6. 7	177. 9 147. 0 25. 8 121. 2 30. 9 195. 9 165. 0 28. 7 11. 3 17. 4 136. 2 68. 5 19. 4 7 3. 9 6. 2 5. 5 -4. 8 8. 0 49. 1 5. 7	183.3 155.6 27.4 128.2 27.7 201.0 173.4 30.5 12.0 18.5 142.9 76.2 25.8 3.8 4.8 6.1 5.3 -8 6.6 50.4	203.0 177.6 25.5 152.1 25.4 217.7 192.3 28.6 13.5 15.1 163.7 90.4 31.5 5.1 4.1 8.7 8.4 -1.6 6.88 58.9	190. 3 167. 6 21. 0 146. 5 22. 8 205. 1 182. 3 10. 1 158. 0 84. 4 31. 9 3. 8 4. 6 8. 2 2. 7 6. 3 52. 5 9. 5	tes
IVA and CCAdj Domestic industries	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 9. 6 22. 0 150. 8 88. 9 39. 5 4. 2 5. 0 8. 8 6. 3 4. 3 10. 8 49. 4 6. 9 8. 2 18. 3 16. 0	182. 7 151. 5 27. 9 123. 6 31. 1 199. 8 168. 7 30. 6 11. 9 18. 7 138. 1 74. 5 20. 9 3. 1 3. 9 6. 3 5. 3 -4. 3 6. 5 53. 7 7. 3 7. 5 24. 6 14. 3	See E E 169, 3 140, 0 27, 4 112, 5 29, 3 186, 9 157, 5 30, 1 12, 7 17, 4 127, 5 61, 3 10, 1 1 2, 0 1, 7 5, 7 3, 8 -8, 8 5, 6 51, 2 6, 7 6, 0 25, 3 13, 2	177. 9 147. 0 25. 8 121. 2 30. 9 195. 9 165. 0 28. 7 11. 3 17. 4 136. 2 68. 5 19. 4 . 7 3. 9 6. 2 5. 54. 8 8. 0 49. 1 5. 7 7. 0 22. 2 14. 2	adjusto f dollar 183.3 155.6 27.4 128.2 27.7 201.0 173.4 30.5 12.0 18.5 142.9 76.2 25.8 3.8 4.8 6.1 5.38 6.6 50.4 8.6 8.1 19.9 13.8	203.0 177.6 25.5 152.1 25.4 217.7 192.3 28.6 133.5 15.1 163.7 90.4 31.5 5.1 4.1 8.7 8.4 -1.6 6.8 58.9 10.4 10.1 21.6 8	190. 3 167. 6 21. 0 146. 5 22. 8 205. 1 182. 3 24. 3 10. 1 158. 0 84. 4 31. 9 3. 8 4. 6 8. 2 2. 7 6. 3 52. 5 9. 5 8. 3	tes
Domestic industries Financial Nonfinancial Rest of the world Corporate profits with IVA Domestic industries Financial Federal Reserve Banks Other Nonfinancial Manufacturing Durable goods Primary metal industries Fabricated metal products Machinery, except electrical Electricand electronic equipment Motor vehicles and equipment Other Nondurable goods Food and kindred products Chemicals and allied products Petroleum and coal products Other	196. 8 166. 5 29. 8 136. 7 30. 3 212. 7 182. 4 31. 6 9. 6 9. 6 9. 6 9. 6 9. 6 9. 6 9. 6 9	182, 7 151, 5 27, 9 123, 6 31, 1 199, 8 168, 7 30, 6 11, 7 138, 1 74, 5 20, 9 3, 1 3, 9 6, 3 5, 3 -4, 3 6, 5 53, 7 7, 3 7, 5 24, 6	See E 169. 3 140. 0 27. 4 112. 5 29. 3 186. 9 157. 5 30. 1 12. 7 17. 4 127. 5 61. 3 10. 1 2. 0 1. 7 5. 7 3. 8 -8. 8 5. 6 51. 2 6. 7 6. 0 25. 3	177. 9 147. 0 25. 8 121. 2 30. 9 195. 9 165. 0 28. 7 11. 3 17. 4 136. 2 68. 5 19. 4 . 7 3. 9 6. 2 5. 5 -4. 8 8. 0 49. 1 5. 7 7. 0 22. 2	183.3 155.6 27.4 128.2 27.7 201.0 173.4 30.5 12.0 18.5 142.9 76.2 25.8 3.8 4.8 6.1 5.38 6.6 50.4 8.6 8.1	203.0 177.6 25.5 152.1 25.4 217.7 192.3 28.6 13.5 15.1 163.7 90.4 31.5 5.1 4.1 8.7 8.4 -1.6 6.8 58.9 10.4 10.1	190, 3 167, 6 21, 0 146, 5 22, 8 205, 1 182, 3 10, 1 158, 0 84, 4 31, 9 3, 8 4, 6 8, 2 2, 7 6, 3 52, 5 9, 5 8, 3 19, 6 15, 1	tes

Table 7.1-7.2.—Implicit Price Deflators and Fixed-Weighted Price Indexes, 1972 Weights, for Gross National Product

•				1980		_	1981	
	1979	1980	II	ш	īv	I	11	III Þ
:		J				adjuste		
		In	nplicit p	orice de	flators,	1972=10	0	
Gross national product	162, 77	177, 36	175, 28	179, 18	183, 81	188, 14	191.06	195. 4
Personal consumption ex- penditures	162, 3 144, 8 169, 8 162, 1	178. 9 156. 0 188. 6 178. 1	177. 0 154. 1 186. 2 176. 0	180. 7 157. 5 190. 0 180. 3	184. 9 160. 5 195. 2 184. 3	162.3 199.2	191.5 165.4 200.4 192.2	195. 7 168. 6 203. 7 197. 7
Gross private domestic invest- ment Fixed investment Nonresidential	179. 1 171. 3	194. 2 186. 8	192. 5 185. 7	196. 4 189. 1	199. 9 192. 4	195.0		
Structures	198. 6 159. 7 200. 5 202. 7	224. 7 170. 2 218. 6 221. 7	222. 4 169. 0 217. 4 220. 7	229. 5 171. 7 221. 9 225. 2	233. 3 174. 5 223. 3 226. 3	176.8 228.7	182. 0 231. 8	185. 1 234. 8
Farm structures	202. 0 140. 3	219. 9 149. 4	219. 4 148. 5	223. 1 151. 0	224. 2	229.6	233. 4	236.9
tories Net exports of goods and services								
Exports	191. 5 245. 4	211. 0 290. 1	207. 6 290. 4	213. 4 289. 7	219. 9 296. 4		228. 0 301. 2	
Government purchases of goods and services	168, 1 165, 1 165, 7 163, 8 169, 8	184, 4 183, 9 185, 6 180, 6 184, 7	181. 6 179. 5 181. 4 176. 2 182. 8	176. 7 186. 7	196. 8 198. 7 190. 0	201. 2 195. 9	201. 9 204. 2 197. 3 198. 0	206.3 208.9 202.3
			1	1	1	1	1	1
Gross national product Personal consumption ex-	167, 3	183, 3	181.1	185, 1	189.7	194.4	198, 1	202, 5
penditures	166, 0 147, 7 174, 0 164, 9	184, 3 160, 1 195, 6 182, 0	182, 1 158, 3 193, 1 180, 1	186. 3 162. 0 197. 3 184. 3	164. 9 202. 9	166. 7 209. 5	170. 4 211. 2	174. 6 213. 3
Gross private domestic invest- ment Fixed investment	185. 0	203. 8	202. 4	207. 1	209. 7			
Nonresidential Structures. Producers' durable equipment. Residential	176. 7 194. 9 166. 2 200. 9	195. 5 217. 9 182. 6 219. 6	193. 9 216. 7 180. 8 218. 4	221. 0 185. 8	224. 1 189. 4	229. 0 193. 9	233. 5 199. 3	238.
Change in business inventories								
Net exports of goods and services Exports Imports	196. 7 244. 2	217. 1 302. 9	213, 2 299, 4					
Government purchases of goods and services	171, 8 169, 0 170, 8 164, 6 173, 6	190.8 191.2 195.1 181.1 190.5	188. 4 187. 8 191. 6 178. 2 188. 8	194. 7 180. 4	205. 8 189. 5	205. 5 210. 0 194. 0	210. 8 216. 1 197. 1	213. 219. 199.
Addenda: Gross domestic purchases 1 Final sales	170. 3 167. 2	188. 8 183. 2	186. 7 181. 0	190. 9	195. 4	200. 3	203.8	207.
Final sales to domestic pur- chasers ¹	170. 3	188.7	186. 6	ļ				
penditures, food Personal consumption ex-	178. 4 241. 1	192. 7 317. 1	187. 9 318. 7	195. 1 320. 3	l		İ	210. 359.
penditures, energy				1	ł	1	I	i
other personal consumption expenditures	155. 5 167. 3	169. 5 183. 3	167. 8 181. 2	171.3	175. 0 189. 8	1		186. : 202.

Table 7 1-7 \hat{x} :
1. Gross domestic purchases equals GNP less exports plus imports; final sales to domestic purchasers equals final sales less exports plus imports.

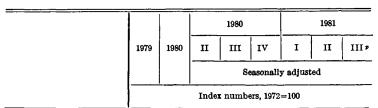


Table 7.3.—Implicit Price Deflators for Gross National Product by Major Type of Product

								=
Gross national product	162.77	177 .36	175.28	179.18	183.81	188, 14	191, 06	195. 40
Final sales	162.7	177.4	174.9	179. 7	184.1	187. 7	190. 9	195. 6
Goods	156.6	169.9	168.1	171.8	176.3	181, 1	183, 2	187. 1
Final sales	156. 3	170.1	167.3	172.9	177.0	180. 1	182. 6	187. 3
Durable goods		164. 1 164. 5	164. 2 163. 4	166.3 167.0	169, 2 169, 1	173. 3 172. 9	179. 1 178. 2	182. 0 181. 2
Nondurable goods		174. 2 174. 2	170. 9 170. 1	175. 7 177. 2	181. 8 182. 8	186. 7 185. 4	186. 1 185. 8	190. 7 191. 7
Services	161.8	176.7	174.6	178.5	183.2	187. 2	190.8	195. 9
Structures	199.7	222.1	220.6	226.0	228.5	232.8	238, 0	242. 1
Addenda: Gross domestic purchases ¹ Final sales to domestic purchasers ¹	166. 1 166. 0	182. 2 182. 2	180. 5 180. 1	183. 3 183. 8	188. 4 188. 7	192. 7 192. 2	195. 7 195. 5	199. 4 199. 6

Table 7.4.—Implicit Price Deflators for Gross National Product by

Gross national product	162.77	177.36	175.28	179.18	183.81	188, 14	191.06	195. 40
Gross domestic product	162.8	177.4	175.3	179.2	183.8	188, 2	191, 1	195. 4
Business Nonfarm Nonfarm less housing Housing Farm	161. 5 163. 1 147. 8 200. 8	177. 4 177. 0 179. 0 160. 9 193. 1	175. 4 175. 3 177. 3 158. 8 178. 6	179. 5 178. 8 180. 8 162. 5 205. 3	183. 8 183. 1 185. 2 166. 4 208. 8	188. 2 187. 9 190. 1 169. 6 200. 0	191. 1 190. 9 193. 1 172. 8 198. 7	195. 6 195. 7 198. 1 176. 5 191. 1
Statistical discrepancy Households and institutions Private households Nonprofit institutions	173. 2 180. 3	189. 5 193. 8 189. 1	175. 4 187. 7 191. 8 187. 4	179. 5 190. 7 195. 0 190. 3	183. 8 196. 0 199. 8 195. 7	188, 2 201, 2 203, 4 201, 0	191. 1 205. 7 206. 6 205. 7	195. 6 209. 9 210. 9 209. 8
GovernmentFederalState and local	154. 7 164. 4	173. 5 166. 6 176. 7	171. 2 162. 8 175. 1	173. 5 163. 2 178. 3	180. 5 178. 0 181. 7	184. 1 179. 5 186. 2	186. 8 180. 2 189. 8	189. 7 180. 3 194. 1
Addendum: Gross domestic business product less housing	161.0 164.3	175.4 179.4	173.2	181. 5	182.0	190. 4	189, 2 193, 3	193. 5

Table 7.5.—Implicit Price Deflators for the Relation of Gross National Product, Net National Product, and National Income

Gross national product	162.77	177 .36	175.28	179.18	183.81	188, 14	191, 06	195, 40
Less: Capital consumption allowances with CCAdj	179. 1	194.8	193.5	197. 2	200.0	202.8	207. 8	211. 7
Equals: Net national product	161.0	175.4	173.2	177. 2	182.0	186, 5	189. 2	193. 5
Less: Indirect business tax and nontax liability plus business transfer payments less subsidies plus current surplus of government enterprises	135.7	146. 4	144.7	147.5	153. 7	164.5	166. 9	167. 9
Statistical discrepancy	162. 6	177. 4	175. 4	179.5	183. 8	188. 2	191.1	
Equals: National income	164.1	179, 1	176.8	180.9	185. 6	189.3	192, 0	ļ
		1	1	1	1	1	1	•

 $\begin{tabular}{ll} Table 7.3: \\ 1. Gross domestic purchases equals GNP less exports plus imports; final sales to domestic purchasers equals final sales less exports plus imports. \\ \end{tabular}$

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

Table 7.8:

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

Table 7.9:
1. Includes new trucks only.

			1980		i	1981	
1979	1980	II	III	IV	I	II	III »
			S	easonall	y adjus	sted	

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

Current-dollar cost and profit per unit of constant-dollar gross domestic product 1	1.623	1,770	1.754	1.787	1,830	1,876	1,904	
Capital consumption allow- ances with CCAdj. Net domestic product. Indirect business tax and nontax liability plus business transfer payments	. 169 1.454	. 191 1.579	. 192 1.562	. 196 1.591	. 197 1. 633	. 197 1. 679	. 204 1, 701	
less subsidies Domestic income Compensation of employ-	. 153 1. 301	. 176 1. 403	. 173 1. 389	. 181 1. 411	. 188 1. 444	. 199 1. 480	. 202 1. 499	
eesCorporate profits with IVA and CCAdj Profits tax liability	1. 092 . 157 . 080	1. 196 . 143 . 073	1. 193 . 132 . 061	1. 203 . 141 . 070	1. 230 . 146 . 075	1. 244 . 169 . 076	1. 266 . 163 . 064	
Profits after tax with IVA and CCAdj Net interest	. 077 . 052	.070 .065	. 071 . 064	.071	.071	. 093 . 067	. 098 . 070	

Index numbers, 1972=100

Table 7.8.—Implicit Price Deflators for Auto Output

Auto output	145.5	155.9	155.0	156.8	160.5	159.0	165.9	169. 4
Final sales Personal consumption ex-	146.4	155.8	153.8	156.8	160, 2	160, 5	166,0	169. 6
penditures	158.3	169. 4	166. 8	171.0	176. 5	176.8	185. 4	189. 7
	149.4	161. 2	160. 4	164.5	164. 6	164.3	169. 7	173. 5
Producers' durable equip-	133, 2	146. 5	150. 8	154. 9	140. 5	137. 5	146. 6	146.5
ment	149, 4	161. 3	160. 2	164. 3	164. 4	164. 9	170. 5	174.3
Net exports. Exports. Imports. Government purchases. Change in business inventories	150.0	164. 7 211. 4 167. 5	160. 8 209. 8 172. 1	182. 4 219. 5 173. 0	165, 1 214, 1 165, 6	165. 7 228. 0 162. 5	168. 6 229. 1 173. 6	174. 7 239. 7 170. 6
Addenda: Domestic output of new autos 1	149. 2	161. 7	160. 2	165. 7	164. 4	164. 4	170. 0	173. 8
	149. 5	161. 4	160. 5	164. 5	164. 6	164. 4	170. 0	173. 7

Table 7.9.—Implicit Price Deflators for Truck Output

Truck output 1	169.1	186.5	185.8	189.5	194.0	198, 8	205.0	210, 6
Final sales	169.1	186.5	184.8	189.7	195.0	199,0	205, 3	210, 3
Personal consumption ex- penditures Producers' durable equip-	149. 4	161. 2	160.6	164. 4	164.7	164. 3	169. 9	173. 5
mentNet exports	177. 2	194. 5	191.3	197.4	205. 2	210.6	217.6	223. 3
Exports	177. 5	195.0	191. 2	197.4	205, 2	210.6	217.6	223. 3
ImportsGovernment purchases	163. 7 177. 5	176. 4 194. 9	168. 7 191. 3	180. 0 197. 3	186, 4 205, 2	185. 3 210. 6	191. 6 217. 6	199. 7 223. 4
Change in business inventories								

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

Personal consumption expenditures	162.3	178, 9	177.0	180.7	184. 9	188, 5	191,5	195. 7
Durable goods	144.8	156.0	154.1	157.5	160.5	162, 3	165, 4	168. 6
Motor vehicles and parts Furniture and household	154.6	167. 1	164. 9	168.8	173, 2	174.0	180. 6	184.9
equipment	135.6	143.6	142.5	144.8	146.5	148.6	150.9	152.7
Other	142.7	161. 7	160.6	164.4	167. 3	168. 1	169. 7	170.2
Nondurable goods	169.8	188.6	186.2	190.0	195, 2	199, 2	200, 4	203, 7
Food	176.6	190. 5	185.7	193.0	200.3	203.7	204. 2	208.9
Clothing and shoes	129. 2	134. 3	133. 3	134.5	136. 5	137.0	137.8	139.6
Gasoline and oil		339. 4	345. 1	338.6	343.7	376.3	379.0	369.6
Other nondurable goods		187.5	185. 9	190.6	193, 4	198. 1	203.0	205.5
Fuel oil and coal	340.6	471.4	473.3	476.6	484.5	559.4	582.8	573.9
Other	155. 9	170. 1	168.5	172.1	175.8	179. 3	183. 5	186.7
Services	162.1	178, 1	176.0	180.3	184,3	188.4	192, 2	197.7
Housing		165.6	163. 5	167.3	171.3	174.7	178.1	182.0
Household operation	165. 5	181. 5	178. 2	185.6	188. 2	192.3	197.7	206.9
Electricity and gas	205.2	239.4	235. 6	245.6	250.9	258.3	265. 5	280.8
Other	140.5	146.3	143.5	147.9	150, 2	153.8	157. 7	163.0
Transportation	161. 2	184.3	180.7	189.7	192.4	194.0	197.0	200.9
TransportationOther	170.4	187.0	185. 9	188.4	193.1	198, 5	202.5	208.3
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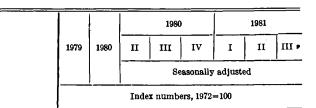


Table 7.14B.—Implicit Price Deflators for Government Purchases of Goods and Services by Type

Government purchases of goods and services	168.1	184, 4	181.6	185, 1	192. 8	196, 4	199. 5	204.3
Federal	165, 1	183. 9	179.5	182.4	197.4	199.4	201.9	206.7
National defense	165.7	185.6	181.4	185. 2	196.8	201.2	204. 2	208.9
Durable goods	162.0	179.1	176.2	182.6	184.8	193. 7	199. 2	209. 4
Nondurable goods	292.4	441.5	420.7	451.6	465.1	476. 1	481.0	496.9
Services	160.3	174.6	170.8	172.9	185.8	188.9	190.6	193. 9
Compensation of em-	1		İ					
ployees	152.3	164.7	160.7	161.1	176.9	178.4	178.9	179. 1
Military	147.6	160.9	156.4	156.8	174.5	176.0	176.4	176.5
Civilian	159.0	170.2	166.8	167.3	180.3	181.8	182. 6	182.8
Other services	177.8	194.0	190.0	195, 9	203.0	208.5	212. 2	220.5
Structures	174. 4	198.3	198.1	199.6	203.1	207.1	214.0	216.8
Nondefense	163.8	180.6	176. 2	176.7	198.7	195.9	197.3	202.1
Durable goods	93.0	167.5	165.4	168.6	175.2	186.6	189. 3	195.7
Nondurable goods	l							
Services	162.4	176.9	173.7	176.6	185. 9	189. 1	191. 1	192. 9
Compensation of em-							}	ŀ
plovees	159.1	170.0	166.7	167. 2	180. 2	181.8	182. 6	182.8
Other services	166.9	185. 4	182.5	187. 7	192.8	198.1	201. 9	206.4
Structures		207.7	206.0	211.0	214. 2	218.9	222. 2	225, 3
State and local	169.8	184.7	182.8	186.7	190. 0	194.5	198.0	202.8
Durable goods	157.7	169.7	168.1	170.6	175.0	178.4	181.0	182.8
Nondurable goods	175. 1	191.7	188.6	194.7	198. 2	202.3	205.8	211.5
Services	165.8	179.4	177.7	181.3	184. 7	189. 2	193.4	198.9
Compensation of employ-		1						
ees	164.4	176.7	175.1	178.3	181.7	186. 2	189.8	194, 1
Other services	170.2	187.5	185. 5	190. 2	193.5	198. 1	203. 9	212.8
Structures	197.6	220.8	219.6	224.7	226.3	231.3	233. 5	235, 3

Table 7.16.—Implicit Price Deflators for Exports and Imports of Goods and Services

Exports of goods and services	191.5	211.0	207.6	213.4	219. 9	226. 1	228.0	229.7
Merchandise	213. 7	236. 7	232. 2	238. 5	248. 4	255. 7	257. 4	259. 5
Durable goods	203. 8	229. 7	225. 9	233. 1	242. 6	250. 2	256. 6	263. 7
Nondurable goods	229. 1	247. 2	241. 8	246. 4	256. 8	263. 1	258. 5	253. 6
Services	162. 8	176. 5	174. 6	178. 4	182. 8	187. 0	190. 0	194, 2
Factor income	161. 3	175. 3	173. 2	177. 2	182. 0	186. 5	189. 2	193, 5
Other	165. 6	179. 0	177. 1	180. 6	184. 2	187. 9	191. 7	195, 5
Imports of goods and services	245. 4	290. 1	290.4	289,7	296. 4	303. 1	301. 2	291.3
Merchandise	271, 6	332. 3	334.8	328. 4	339. 1	348. 0	343. 4	326. 6
Durcble goods	209, 8	235. 4	230.8	237. 0	243. 9	244. 0	243. 7	245. 4
Nondurable goods	369, 9	507. 2	517.6	498. 6	514. 2	533. 2	532. 8	480. 8
Services	182. 9	201. 1	198. 6	205. 2	208. 1	213. 0	215. 7	219. 4
Factor income	161. 5	175. 3	173. 3	177. 2	182. 0	186. 5	189. 2	193. 5
Other	199. 5	225. 5	222. 7	228. 3	234. 0	239. 9	245. 9	250. 8

Table 7.21:

			1980			1981				
1979	1980	II	III	IV	ī	II	III »			
			Se	asonali	y adjust	ed				
		Inde	x numb	ers, 197	2=100	=100				

Table 7.17.—Implicit Price Deflators for Merchandise Exports and Imports by Type of Product and by End-Use Category

Merchandise exports	213.7	236, 7	232, 2	238, 5	248. 4	255, 7	257.4	259, 5
Foods, feeds, and beverages	222, 8	235.1	221.6	234.1	255. 4	263, 1	256. 2	239, 7
Industrial supplies and ma-								-0.7.
terials	251.7	282.9	282, 8	280.5	283.1	292.6	293.4	294. 2
Durable goods	251.8	282.9	282.8	280.5	283, 1	292.5	293.4	294.1
Nondurable goods	251.7	282. 9	282.8	280.5	283.1	292.6	293.4	294. 2
Capital goods, except autos	189. 1	212. 2	207.4	217.9	228.1	237.5	244. 3	252. 5
Autos	215.8	249.7	243.1	255.0	267.3	270.6	282.9	292.1
Consumer goods	187.5	199. 5	192.4	201.7	202.9	199. 2	197.7	202, 4
Durable goods	203.4	231.1	226.8	232. 2	238.9	237. 4	242.8	248.1
Nondurable goods	174.5	172.6	166.3	176.9	176. 4	173.5	169. 2	171.5
Other Durable goods	213.0	235.9	232. 1	238. 5	248.4		257. 2	259. 4
Durable goods	213.0	235.9	232, 1	238.4	248.5	255.8	257. 2	259.4
Nondurable goods	213.0	235. 9	232, 1	238.7	248. 2	255.8	257. 2	259.4
Merchandise imports	271.6	332.3	334.8	328, 4	33 9.1	348, 0	343. 4	326.6
Foods, feeds, and beverages	228.4	270.1	266. 6	276.0	277.3	277. 0	268. 1	257. 0
Industrial supplies and mate-							-00.1	
rials, excluding petroleum.	244.5	301.1	299, 2	303, 8	305. 9	300.3	301.1	296, 1
Durable goods	244.9	306.6	303.8	309.3	311.0		302.3	296, 6
Nondurable goods	244. 1	293. 2	292.9	296. 5	298.3		299. 2	295. 4
Petroleum and products		1.153.8	1,163.2		1, 231. 0		1, 349.3	
Capital goods except autos	178.6	205. 4	208.1	208.1	210.4		199.7	202.1
Autos	231.9	248.5	235.0	252, 3	267.4		282.7	288. 5
Consumer goods	203.7	221. 2	214. 2	226, 2	228.5	236. 7	230, 8	233. 6
Durable goods	186.4	195.0	188.8	198.1	202.8	206.5	206. 1	213.8
Nondurable goods	236.9	282. 4	273.2	289. 1	289.0	312.9	284.8	273.5
Other	217.5	246. 2	242. 2	249, 1	254. 2		254.4	253. 9
Durable goods	217.5	246. 2	242, 2	249.3	253. 9	258. 0	254.6	254.0
Nondurable goods	217.5	246. 2	242. 2	248.8	254. 4	258.7	254. 2	253, 7
Addenda:	l							
Exports:	l	ľ		1		l		
Agricultural products	222.4	234. 5	220.7	234.0	253. 5	261.8	254. 3	240.0
Nonagricultural products	211.6	237. 2	234. 9	239.6	247.1	254. 1	258. 1	264. 1
Imports of nonpetroleum	1.0		201.0	======	241.1	201.1	200. 1	207. 1
products	217. 8	248.4	244. 4	251. 1	256, 2	258.6	254. 9	254.1
productor and a second		2,0.4	232. 1	201.1	200.2	200.0	201. 0	207.1

Table 7.21.—Implicit Price Deflators for Inventories and Final Sales of Business

Inventories 1		215, 5	223, 7	230.6	234, 3	236, 6	239.5
Farm.		186.8	213.6	215.4	203. 6	202. 0	198.8
Nonfarm	!!	219.7	225, 2	232.8	238.6	241.5	245. 4
Durable goods		207. 2	211. 2	218.8	222.0	225. 4	230, 7
Durable goods		238. 7	246.3	254. 3	263. 8	266. 3	267.7
Manufacturing.		225, 1	229.9	237. 5	243, 1	248. 2	251. 9
Durable goods		213.7	217.6	225.1	228.0	232, 8	238.8
Manufacturing		248. 9	255. 9	264. 1	275.0	280. 9	279.7
Wholesale trade		220.3	226. 2	234.7	241.7	243. 7	246.3
Durable goods		204.7	209.5	217. 2		226. 3	230.6
Nondurable goods		250.6	258.1		279. 2	277. 8	277.1
Nondurable goods Merchant wholesalers		211. 1	218.7	226.0		232. 9	237.1
Durable goods		204.6	200.6	217. 4		225, 7	229.9
Durable goods		224. 2	236.6	243.0	245. 8	247. 4	251.7
Nonmerchant wholesalers		262.0	261.2	275.8	297.0	295. 1	290.3
Durable goods		204.9	208.9	216. 1	224.8	229. 3	234.1
Durable goods		356.6	351.9	379.0	417.8	406. 3	389. 1
Retail trade Durable goods Nondurable goods		191.6	195, 7	201.8	204. 3	203, 2	209.3
Durable goods		188.7	192.0	200.4		199. 9	206.3
Nondurable goods		194. 2	199.0	203.0		206. 0	211. 8
Other		261. 5	274.6	284.7		301.6	305.5
Final sales 2		175.0	180, 1	184. 1	187. 6	190.9	195.8
		l					
Final sales of goods and struc- tures		175. 2	180.7	184.9	188, 1	190, 9	195.3

Inventories are as of the end of the quarter.
 Business final sales equals final sales less gross product of households and institutions, government, and rest of the world.

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

Deflator, and Price Indexes																	
				1980	*		1981						1980	_		1981	
	1979	1980	11	III	IV	I	II	III »		1979	1980	II	III	IV	ı	II	III »
		cent			ent at a			 !	[]					asonally			
	1 1.61	Lent		l ren	ent at a	l	rates			l Per	cent	<u> </u>	rere	ent at a	iiiiuai r	ates .	
Gross national product: Current dollars	3.2	8.8 2 9.0 8.6 9.6	-1.1 -9.9 9.8 8.8 9.3	11.8 2.4 9.2 9.3 9.0	14.9 3.8 10.7 10.5 10.4	19. 2 8. 6 9. 8 9. 8 10. 2	4.7 -1.6 6.4 7.7 7.9	8.8 6 9.4 9.5 9.2	Imports: Current dollars	6.0 14.7 17.2	18. 1 1 18. 2 25. 2 24. 0	-14.8 -21.9 9.0 16.2 13.1	-21. 2 -20. 4 -1. 0 11. 9 13. 1	37. 8 25. 8 9. 6 9. 6 9. 0	20. 5 10. 3 9. 3 12. 6 11. 8	11. 5 14. 2 -2. 4 . 6 . 4	-3.1 11.0 -12.6 -4.1 -6.1
Personal consumption expenditures: Current dollars	2.9	10. 7 . 5 10. 2 10. 6 11. 0	-1.0 -9.8 9.8 9.7 9.9	14.3 5.1 8.8 9.5 9.5	17. 4 7. 0 9. 7 10. 1 10. 1	14. 2 5. 8 8. 0 10. 3 10. 9	4. 3 -2. 1 6. 5 6. 5 6. 5	13.7 4.3 9.0 8.7 8.2	Government purchases of goods and services: Current dollars	9. 5 1. 5 7. 9 8. 4 9. 3	12. 9 2. 9 9. 7 9. 7 11. 1	10. 6 2. 5 7. 9 8. 3 9. 0	2.6 -5.0 8.0 8.5 8.1	20. 2 2. 2 17. 6 12. 8 13. 3	13. 5 5. 4 7. 7 9. 2 9. 3	.6 -5.6 6.5 8.1 8.6	9.4 5 10.0 8.7 7.4
Durable goods: Current dollars 1972 dollars Implicit price deflators. Chain price index Fixed-weighted price index	6. 5 .2 6. 3 6. 8 6. 8	2 -7. 4 7. 7 8. 4 8. 4	-40.0 -43.3 5.8 8.5	32.9 21.7 9.2 8.8 9.7	30. 9 21. 2 8. 0 7. 8 7. 4	27.7 24.1 4.5 4.7	-17. 2 -23. 3 7. 9 8. 2 9. 1	24.3 15.3 7.9 8.0 8.7	Federal: Current dollars	9.5 1.9 7.4 8.3 9.2	18. 5 6. 3 11. 4 11. 0	19.8 11.9 7.0 6.7 7.3	-7.5 -13.1 6.4 7.5 6.5	40. 2 2. 0 37. 4 22. 9 23. 6	19. 3 14. 8 4. 0 9. 3 8. 8	-3.7 -8.4 5.1 9.1	15. 7 5. 3 9. 8 5. 9
Nondurable goods: Current dollars	13.7 2.6 10.8 11.3	12. 2 1. 1 11. 0 12. 0 12. 4	1.8 -5.3 7.5 8.3 8.6	6.3 -1.8 8.3 9.4 9.2	18. 5 6. 3 11. 5 11. 8	13. 4 4. 6 8. 4 12. 5 13. 6	5. 3 2. 7 2. 5 3. 3	8.3 1.4 6.8 5.2 4.3	National defense: Current dollars	11. 2 2. 6 8. 4 8. 8 9. 8	18. 4 5. 7 12. 0 11. 8 14. 3	12. 4 6. 2 5. 8 7. 0 8. 1	8. 4 1 8. 6 7. 2 7. 1	35. 0 5. 9 27. 5 23. 6 24. 4	10. 4 1. 1 9. 3 8. 7 8. 4	8. 7 2. 6 5. 9 10. 2 12. 2	18. 4 8. 1 9. 6 7. 8 5, 8
Services: Current dollars	12. 4 4. 1 8. 0 8. 3 8. 5	12. 8 2. 6 9. 9 10. 2 10. 4	10.8 0 10.7 11.2	17. 0 6. 4 10. 0 9. 9	13. 1 3. 7 9. 1 9. 3	10. 9 1. 4 9. 3 9. 9	10. 1 1. 6 8. 3 8. 7 9. 0	15. 7 3. 5 11. 8 11. 9	Nondefense: Current dollars	6. 1 . 6 5. 5 7. 4 7. 7	18. 6 7. 5 10. 3 9. 4 10. 0	35. 0 23. 1 9. 7 6. 1 5. 1	-32. 2 -33. 1 1. 3 8. 2 5. 0	51. 2 -5. 3 59. 7 21. 4 21. 6	38. 9 46. 8 -5. 4 10. 4 9. 9	-24. 4 -26. 4 2. 8 7. 0 6. 5	10. 1 0 10. 1 2. 1 4. 3
Gross private domestic invest- ment: Current dollars	1.3	-12.5		-10.0	23. 7 11. 1	45.9 24.2	21. 1 16. 1		State and local: Current dollars	9.6 1.2 8.2 8.5	9. 8 1. 0 8. 7 9. 0	5.6 -2.8 8.6 9.2	9. 1 . 3 8. 8 9. 1	9.7 2.3 7.2 7.2 6.8	10. 0 . 2 9. 8 9. 2 9. 7	3.3 -3.8 7.5 7.5	5.7 -4.0 10.1 10.5
Fixed investment: Current dollars. 1972 dollars. Implicit price deflator Chain price index Fixed-weighted price index	12. 8 3. 1 9. 4 10. 2	-7.1 8.5 10.0 10.1	-25.8 -31.8 8.9 12.3	10. 5 2. 1 8. 3 9. 7 9. 7	24. 2 15. 7 7. 4 5. 3 5. 2	18.0 10.8 6.5 9.4 9.7	2.5 -7.6 10.9 8.9 8.7	-2.8 -8.8 6.6 7.5	Addenda: Gross domestic purchases: Current dollars	11.3 2.3 8.8 9.3	8. 4 -1. 1 9. 7 10. 3	-2.4 -10.6 9.2 10.0	7.3 .8 6.5 9.3	18. 9 6. 6 11. 5 9. 9	18. 4 8. 1 9. 4 9. 9	6.0 3 6.3 7.2	9. 2 1. 2 7. 9 8. 5 7. 9
Nonresidential: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index.	15. 6 6. 5 8. 6 9. 0 9. 7	5.8 -3.0 9.1 10.3	-10. 4 -19. 9 11. 8 13. 1 13. 1	6.0 -1.5 7.6 10.0 10.2	11. 5 4. 0 7. 2 6. 3 7. 0	19.6 13.3 5.6 9.1 9.5	11. 4 -2. 1 13. 9 10. 1 10. 3	7.9 4 8.4 7.9 8.3	Fixed-weighted price index. Final sales: Current dollars	9. 7 12. 3 3. 5 8. 5 8. 7 9. 4	9.8 .7 9.0 8.6 9.6	9.9 -1.8 -10.4 9.6 8.6 9.5	9. 3 15. 9 4. 1 11. 3 9. 3 9. 0	10. 0 15. 0 4. 4 10. 2 10. 6 10. 4	10. 2 15. 5 6. 9 8. 0 10. 6 10. 3	7.3 2.0 -4.7 7.0 7.7 7.9	9.7 5 10.2 9.6 9.2
Structures: Current dollars 1972 dollars Implicit price de- flator Chain price index Fixed-weighted price index	22. 4 8. 7 12. 6 12. 9	13. 0 1 13. 1 11. 9	15. 9 12. 6	-4.0 -15.3 13.3 8.3 8.1	16, 5 9, 0 6, 9 6, 4 5, 8	22.3 16.6 4.9 9.7 9.0	21. 8 6. 7 14. 1 8. 5 8. 1	15. 9 6. 8 8. 6 8. 9 8. 2	Final sales to domestic purchasers: Current dollars	11. 6 2. 6 8. 8 9. 2 9. 7	9.5 2 9.7 10.3 10.9	-3.2 -11.2 9.0 9.8 10.1	11. 2 2. 5 8. 5 9. 3 9. 2	19.0 7.2 10.9 9.9 10.0	14.6 6.4 7.7 9.9 10.3	3. 2 -3. 6 7. 1 7. 2 7. 3	10. 2 1. 4 8. 7 8. 5 7. 9
Producers' durable equipment: Current dollars	12.3 5.5 6.4 7.1	2. 0 -4. 2 6. 5 9. 5	-16.3 -22.7 8.3 13.4	12.3 5.3 6.6 11.0	8.7 1.9 6.6 6.3	18. 0 11. 8 5. 5 8. 8	5. 6 -5. 9 12. 3 11. 0	3. 2 -3. 6 7. 1 7. 3	Gross domestic product: Current dollars. 1972 dollars. Implicit price deflator. Chain price index. Fixed-weighted price index. Business:	11.5 2.8 8.5 8.7 9.4	8.7 2 9.0 8.6 9.6	6 -9.4 9.8 8.8 9.3	11.6 2.2 9.2 9.3 9.0	15. 6 4. 4 10. 7 10. 5 10. 4	18. 9 8. 3 9. 8 9. 8 10. 2	5. 1 -1. 2 6. 4 7. 7 7. 9	8.6 7 9.4 9.5 9.2
Fixed-weighted price index Residential: Current dollars	7.6 6.6 -5.2	9.8 -11.3 -18.6	13, 4 -56, 4 -60, 2	25.7 16.0	7.9 68.5 64.2	9. 9 14. 0 3. 6	11. 8 -19. 2 -23. 4 5. 5	8. 4 -29. 7 -33. 3	Current dollars	11. 9 2. 9 8. 7 9. 0	8.5 5 9.1 8.7 9.8	-1.9 -11.1 10.3 9.1 9.8	12.3 2.3 9.7 9.9 9.6	15. 4 5. 0 9. 9 9. 7 9. 3	20. 3 9. 5 9. 9 10. 0	4.8 -1.4 6.3 7.9 8.2	9.0 7 9.8 9.9 9.6
flator	12, 5 12, 6 12, 6	9. 0 9. 3 9. 3	9. 5 10, 2 10, 2	8. 4 8. 9 8. 8	2. 6 2. 1 2. 1	10. 0 10. 1 10. 1	6.0	5. 4 6. 3 6. 3	Nonfarm: Current dollars 1972 dollars Implicit price de- flator Chain price index	11, 8 3, 1 8, 5 8, 8	9.1 4 9.6	-1.1 -10.8	11. 6 3. 1 8. 3	17. 6 6. 9 10. 0	19. 3 7. 7 10. 8	5. 8 6 6. 5	9. 1 -1. 4 10. 6
Current dollars	28. 0 15. 2 11. 1 12. 0 12. 6	20. 8 9. 6 10. 2 10. 1 10. 3	-4.7 -12.3 8.6 6.8 6.5	11.4 2 11.6 11.5 11.5	4.4 -7.4 12.8 14.7 14.5	27. 0 13. 6 11. 8 11. 6 11. 7	-2.3 3.4 5.0 5.6	-5.8 -8.7 3.2 4.5 4.3	Fixed-weighted price index Disposable personal income: Current dollars	9. 5 12. 2 3. 1	11. 0 . 7	4, 4 -4, 9	13. 3 4. 1	12. 8 2. 9	11. 2 3. 0	8. 0 1. 4	11. 4 2. 2

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

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

Motor Vehicles, Model Year 1981

SALES of new motor vehicles totaled 11.3 million in model year 1981, down from 11.9 million in 1980. The decline was the third in a row from the record 15.3 million in 1978. Sales of both new passenger cars and new trucks fell further in 1981, reflecting sharp increases in costs associated with the purchase and ownership of a new car as well as adverse general economic conditions. Early in the year, anticipated increases in domestic new car sales failed to materialize, and inventories built up. Price discounts were initiated to stimulate sales and to bring inventories back into line. When inventories again built up, another round of price discounts was initiated at the end of the model year. Sales of imported cars leveled off, but their market share edged up to a record high.

Production of domestic cars followed a smoother course than that of sales in 1981, but for the year was as weak as in 1980. Production of domestic trucks also remained weak.

New Cars

Retail sales of new passenger cars totaled 9.0 million in the 1981 model year, down slightly from 9.2 million in 1980, and far below the 11.0 million recorded in 1977–79 (chart 6). Sales of domestic cars fell from 6.8 million in 1980 to 6.6 million in 1981, and sales of imported cars were flat at 2.4 million. On a quarterly basis, new car sales were 9.1 million (seasonally adjusted annual rate) in the fourth quarter of 1980, increased to 10.1 million in the first quarter of 1981, plunged to 7.8 million in the second quarter, and returned to 9.1 million in the third.

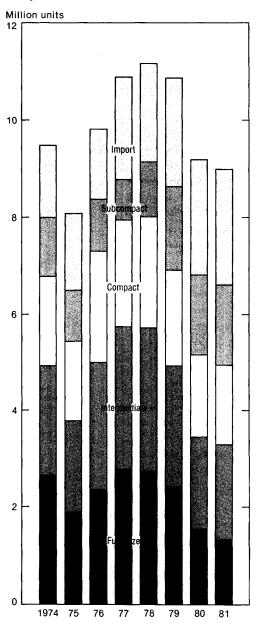
Sharp increases in costs associated with the purchase and ownership of a new car and adverse general economic conditions were major factors in the weakness of new car sales in 1981, as in 1980. Among the adverse economic conditions, uncertainity about job security and income losses continued. The unemployment rate has hovered about 7½ percent since the second quarter of 1980. Also, monetized capital gains on existing residences, which had been available to support consumer purchases, were down, as increases in housing prices slowed and the volume of transactions declined.

The average unit sales price of a domestic car was almost \$9,000 in the third quarter of 1981, up 28 percent from the third quarter of 1979. Items tied to the sales price, such as taxes and insurance, were up sharply. Gasoline prices climbed 41 percent over the 2-year period. This large increase probably held down driving and prolonged the life of existing cars, but it probably also encouraged the trade-in of existing cars for the more fuel efficient new cars. The cost of new car financing was up substantially due to adverse financial conditions.

Financial conditions.—Inasmuch as almost three-fourths of all new cars are bought on credit, record-high interest rates and constraints on the availability of credit contributed to the weakness of new car sales in both 1980 and 1981. As can be seen from chart 7, the finance rate on selected consumer auto installment loans by commercial banks was stable at about 11–11½ percent prior to mid-1979. The rate increased rapidly during the 1980 model year, peaking at 15½ percent, before subsiding. The increase resumed in the fourth quarter of

CHART 6

New Passenger Car Sales by Model Year



Note. – Based on October through September sales for each model yea:

Data: Motor Vehicle Manufacturers Association of the United States,
Inc. and Ward's Automotive Reports.

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

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1980 and reached a record 17 percent in the third quarter of 1981. On a 48-month \$6,000 loan, the increase in the finance rate since mid-1979 would translate into a 10-percent increase in the monthly payment for a new car. The combination of rising new car prices and finance rates kept some buyers from qualifying for auto loans.

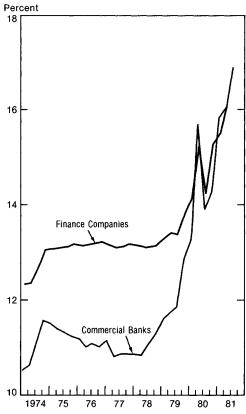
Commercial banks, which had been the principal source of auto loans in the 1970's, cut back sharply on their lending. Extensions of auto installment loans by commercial banks fell from \$4.39 billion (seasonally adjusted) in the third quarter of 1979 to \$3.36 billion in the third quarter of 1980. In July-August 1981, extensions averaged \$3.67 billion. The commercial bank share of total auto loan extensions fell sharply, from 55 percent in 1979 to 48 percent in 1980 and to 44 percent in July-August 1981.

As commercial bank lending dropped, finance companies—whose loans are dominated by automakers' subsidiaries—stepped-up their lending and held down their finance rates to support new car sales. Their share of loan extensions increased from 25 percent in the third quarter of 1979 to 32 percent in 1980 and to 37 percent in July-August 1981. Prior to 1980, the finance rate charged by these companies exceeded that charged by commercial banks by about 1–2 percentage points. As commercial bank finance rates soared, the gap was closed.

Domestic and import sales

The weakness in new car sales in the 1981 model year, as in the 1980 model year, was pervasive; sales of all domestic size categories except subcompacts were well below their 1977-1979 levels. Full-size car sales fell from 1.6 million in 1980 to 1.3 million, and their share of total sales dropped from 17 percent to 15 percent, a record low. Despite improvements in fuel efficiency due to reductions in exterior size and weight—"downsizing"—and increased use of diesel engines, many buyers have traded down to smaller cars. The number of full-size models available continues to decline; several more models are being phased out in 1982.

Finance Rates on New Auto Installment Loans



Note.—Most common finance rates (annual percentage rate) at reporting institutions.

Data: Federal Reserve Board

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Intermediate car sales leveled off at 1.9 million and a 21 percent market share, after declining sharply the previous 2 years. As in the case of full-size cars, the declines had reflected the trading down to small cars. The introduction of several restyled models in 1982 and the phasing out of full-size models are likely to hold up intermediate sales in the near future.

After edging down for 2 years, compact car sales leveled off at 1.7 million, and they maintained an 18½ percent share of the market. In the face of declines in total sales, subcompact car sales were 1.7 million in each of the last 3 years, and their market share increased from 16 percent to 19 percent. Over this period, several new and downsized subcompact models were introduced, and additional models are planned. The new models are smaller, lighter, and considerably more fuel efficient than their predecessors. The trading

down to smaller cars is likely to con-

Imported car sales were unchanged at 2.4 million, after 2 years of strong increase. The increase had been almost entirely in sales of Japanese subcompacts, which accounted for nearly 80 percent of import sales and 21 percent of total new car sales in 1981. These cars are among the most fuel efficient available. The flattening out of sales in 1981 can be attributed to the factors that generally weakened the new car market. The Japanese auto agreement probably did not have much impact on the yearly total. Effective for the year beginning April 1, 1981, Japan agreed to limit shipments of cars to the United States to 1.68 million, compared with 1.82 million in the year-earlier period. If new car sales pick up in 1982, the Japanese share of the market could be held down by the limitation of shipments. The first Japanese-owned car plant to be located in the United States is scheduled to open within a year and a half; sales of these cars will be considered domestic sales.

New car prices

The uneven quarterly pattern in new car sales largely reflected the timing of price increases and of discounts on domestic cars. At the beginning of the 1981 model year, domestic manufacturers raised list prices an average of 4-5½ percent, roughly the same as they had in the previous 2 years. In the fourth quarter of 1980, new car sales showed less strength than the rest of the economy. Nevertheless, new car prices were raised about 1-1½ percent in the beginning of January. In mid-February, in response to stagnating sales and mounting inventories, domestic manufacturers announced extensive cash rebates. The rebates, which included many high-volume intermediate and compact cars, were advertised at about 10 percent of the list price. Dealers were required to contribute a portion of the rebate; because they resisted cutting into their margins, the effective discount to the buyer was probably less than advertised. The rebates, which lasted through most of March, substantially boosted first-quarter sales. An

undetermined portion of the sales boost represented "borrowing" from future periods; buyers who were considering the purchase of a new car took advantage of the temporarily discounted prices. The "borrowing" of sales, an increase in new car prices in April and May that ranged from 2-31/2 percent per unit, and record finance rates all contributed to the second-quarter plunge in sales to their lowest level since the recession a year earlier. In mid-August, manufacturers initiated another round of price discounts. The discounts, which consisted of various cash rebates, dealer incentives, and finance subsidies, were designed to clear out excess inventories of old, 1981 models. Price increases on the 1982 domestic models were first announced to be in the range of 5-71/2 percent, which would have been somewhat larger than in previous years, but were subsequently scaled back to 4-6 percent.

Prices of imported cars were raised about the same amount as domestics at the beginning of the 1981 model year, and were raised throughout the year. Some price discounting occurred in response to the domestic manufacturers' programs. Over the past year, the appreciation of the dollar against the Japanese yen and the German mark did not lead to a price decrease; the expected effect of appreciation may have counterbalanced strong upward pressures from a tight market for imported cars. Several leading foreign manufacturers have announced increases of 5-71/2 percent in the prices of their new, 1982 models.

Production and inventories

Domestic production in the 1981 model year totaled 6.6 million, about the same as in 1980. Production was weak throughout the year. Many plants operated below capacity: Production lines often ran at less than optimal speeds, single work shifts were common, and temporary closings were frequent. The number of hourly workers on indefinite layoff remained high, beginning the year at 215,000, and ending it at about 160,000.

The large fluctuations in domestic new car sales caused wide swings in inventories and uncertainties in scheduling production in the 1981 model year. At the beginning of the year, domestic inventories were 1,390,000 (seasonally adjusted), and the inventory/sales (I/S) ratio was 2.6, somewhat above the 2.0 level generally preferred by the industry. In the fourth quarter of 1980, domestic production exceeded sales, and inventories edged up to 1,440,000. As a result of the first-quarter rebates, inventories were slashed to 1,090,000, the lowest level in more than a decade, and the I/S ratio plunged to 1.8. Supplies of many models were so low that an increase in production was scheduled in the second quarter despite uncertainty about the course of sales. The secondquarter sales slump resulted in a quick inventory buildup to 1,470,000, and the I/S ratio jumped to 3.2. Initially most of the buildup was in specific models: Stocks of some models that had been depleted were rebuilt; stocks of several intermediate models were added to in preparation for major model changeovers in the third quarter; and stocks of new subcompact models were built up prior to their May introduction. As the sales slump continued, however, the inventory accumulation became more widespread.

Recent developments and outlook

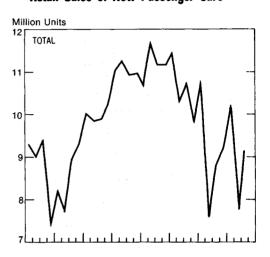
New car sales were weak at the beginning and end of the third quarter, but were boosted in August and early September by the price discount programs. Domestic new car sales totaled 6.9 million for the quarter as a whole, compared with 5.6 million in the second quarter. Sales of all size categories were up: Full-size car sales increased to 1.5 million from 1.3 million, intermediate sales to 1.9 from 1.6 million, compacts to 1.6 from 1.3 million, and subcompacts to 1.9 from 1.5 million (chart 8). Sales of imported cars—at 2.2 million were unchanged from the second quarter, and their market share fell to 24 percent, the lowest in 2 years.

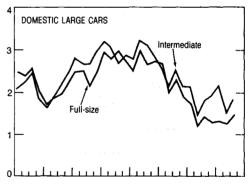
Inventories of domestic cars were about 1,430,000 (seasonally adjusted), down slightly from the end of the sec-

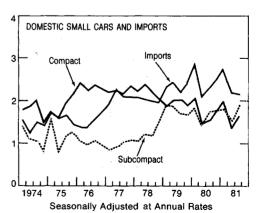
ond quarter; inventories were run up sharply during the first part of the third quarter and down sharply during the second. The I/S ratio dropped to 2.5, but was still above the preferred level. Inventories of imported cars, especially those of popular Japanese models, were very low by the end of the third quarter.

The near-term outlook for new car sales is not promising. The economy continues to be weak, and interest rates

Retail Sales of New Passenger Cars







Note.—The components may not add to the total because each category was separately adjusted for seasonal variation.

Data: Motor Vehicle Manufacturers Association of the United States, Inc. and Ward's Automotive Reports; seasonal adjustment by BEA.

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

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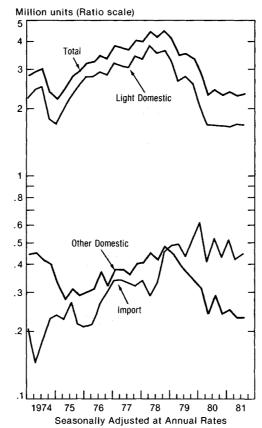
remain high. Despite the price discount programs, sales of domestic cars fell off at the end of the third quarter. Production schedules for the fourth quarter have been reduced to well below the 6.9 million (seasonally adjusted annual rate) produced in the third, indicating that domestic manufacturers expect a slow start in the 1982 model year. Sales of imported cars will be limited by tight supplies of Japanese cars: Inventories are low, and shipments will be restricted by the auto agreement.

New Trucks

Retail sales of new trucks totaled 2.3 million in the 1981 model year, down from 2.7 million in 1980. Sales of domestic light, domestic "other," and imported trucks all declined. On a quarterly basis, new truck sales fluctuated within 2.3-2.4 million (seasonally adjusted annual rates) from the fourth quarter of 1980 through the third quarter of 1981 (chart 9).

Sales of domestic light trucks (up to 10,000 pounds) fell from 1.9 million in 1980 to 1.6 million in 1981. At 1.6 million, sales were less than one-half their record high of 3.4 million in 1978. Most light trucks are pickups and vans, more than one-half of which are purchased by consumers for personal use. These purchases were affected by the same cost and general economic factors that dampened purchases of new Another reason for the 3-year plunge in domestic light truck sales was their relatively low fuel efficiency: Fuel efficiency improvements for new cars outpaced those for new domestic light trucks; domestic conventional pickups weighed considerably more than imported compact pickups and used much larger engines; and, some domestic trucks are four-wheel drives, which are less fuel efficient. Concerns about fuel efficiency slowed the switch from cars to domestic pickups or vans for personal use, and accelerated the switch from doCHART 9

Retail Sales of New Trucks



Note.—Retail sales of domestic new trucks are classified by gross vehicle weight as light-up to 10,000 pounds, and other-over 10,000 pounds. Import trucks include imports by U.S. manufacturers.

Data: Motor Vehicle Manufacturers Association of the United States, Inc. and Ward's Automotive Reports; seasonally adjusted by BEA.

U.S. Department of Commerce, Bureau of Economic Analysis 81-10-9

mestic conventional to imported compact pickups.

Sales of imported trucks declined from a record 0.50 million in the 1980 model year to 0.45 million in 1981, but their share of total light truck sales edged up from 20½ percent to a record 21 percent. A major factor in the decline in sales of imported trucks, which are nearly all Japanese compact pickups, was a change in tariff rulings at the beginning of the model year. Effective August 20, 1980, the U.S. Customs Service reclassified imported trucks without cargo boxes—the form in which virtually all Japanese pickups enter this

country—from "cab chassis," dutiable at 4 percent, to "unfinished trucks," dutiable at 25 percent. This change added nearly \$1,000 to the sales price of these units in model year 1981.

In coming years, domestic manufacturers should be able to increase their share of the light truck market. Continued downsizing of conventional pickups will improve fuel efficiency. Further, domestic compact pickups, comparable to the imports, will be introduced in 1982 and 1983. The first Japanese-owned truck plant to be located in the United States is scheduled to start producing light trucks for the 1983 model year; sales of these trucks will be considered domestic sales.

Sales of "other" trucks (over 10,000 pounds) were weak throughout the 1981 model year. This broad category consists of medium-duty trucks, mostly general delivery trucks and buses, and of heavy-duty trucks, mainly large van trucks and diesel tractors designed to pull trailers. Sales of these trucks fell from 0.30 million in 1980 to 0.24 million in 1981, their lowest level in more than a decade. The decline reflected the generally uncertain economic conditions and high interest rates, which deterred business investment. Imported trucks have begun to make inroads in both the medium- and heavy-duty truck markets.

Production of trucks was weak throughout the 1981 model year, and inventories showed little change. Production of domestic trucks totaled 1.8 million, up only slightly from the 13year low of 1.7 million registered in 1980. At the beginning of the 1981 model year, inventories of domestic new trucks were 524,000 (seasonally adjusted), and the I/S ratio was 3.3. By the end of the fourth quarter of 1980, inventories had increased to 591,000, and the I/S ratio was up to 3.8. Both declined as production was held down in the first half of 1981. At the end of the third quarter, inventories were 516,-000, and the I/S ratio was back down to 3.3.

State Personal Income, Second Quarter 1981

STATE personal income increased 2.1 percent in the second quarter of 1981. Reflecting the second-quarter weakening in production, nonfarm personal income increased 2.0 percent, after an increase of 3.0 percent in the first. Nonfarm income decelerated in 45 States and accelerated in only 4 States; in Missouri, first- and second-quarter increases were equal.

The deceleration in nonfarm income was large (2.0 percentage points or more compared with a national deceleration

of 1.0 percentage point) in 11 States. Three of these were in the Southeast, four were in New England, and four were in the West (table 1). In all except West Virginia, wage and salary disbursements (payrolls) in construction and trade contributed to the decelerations, and, reflecting these payrolls, so did nonfarm proprietors' income. In all except Idaho and Wyoming, payrolls in services, the finance-insurance-real estate group, and durables manufacturing contributed. In West Virginia and Kentucky, which were the only two States

with second-quarter declines in nonfarm income, the coal strike was a major factor.

Accelerations in nonfarm income occurred in Delaware, Michigan, Alaska. and Illinois. In each, both durables and nondurables manufacturing payrolls contributed. In addition, payrolls in construction and trade (except in Alaska) decelerated less than they did in the United States. In Delaware and Michigan, a second-quarter increase in motor vehicle production after a first-quarter decline was a major factor.

Table 1.—Change in Nonfarm Personal Income and Selected Components

	· · · · · · · · · · · · · · · · · · ·												
							Private w	age and sal	lary disburse	ments (payro	olls)		
	Rank	Nonfarm	n personal	income	Mining	Con- struction	Trade	Services	Finance, insurance, and real estate	Durables manu- facturing	Non- durables manu- facturing	Transportation, communication, and public utilities	Nonfarm proprietors' income
		Percent	change										
		1980: IV- 1981: I	1981: I- 1981: II			Dec	celeration ((-) or accel	leration (+)	in percentag	e points) ^t		
	United States	3,0	2, 0	-1.0	-11.9	-5.1	-2.5	-1.7	-1.3	-1,0	-0, 9	-0.1	-2.0
1 2 3 4 5 6 7 7 8 9 10	States with large deceleration: West Virginia Kentucky New Hampshire Idaho. Wycming Washington Alabama. Colorado. Connecticut Vermont Rhode Island A verage. States with acceleration:	3.2 4.19 3.2 3.7 3.0 3.8 3.8 3.4 3.7 3.5	-4.5 -1.6 .7 .8 .5 1.1 1.5 1.6 1.3 1.6	-7.3 -4.8 -3.4 -3.1 -2.7 -2.6 -2.5 -2.4 -2.2 -2.1 -2.1	-65. 5 -57. 9 -27. 4 .3 1.1 11. 6 -45. 3 8 -7. 4 11. 7 -7. 4	9. 4 -8. 8 -22. 4 -26. 1 -14. 5 -15. 4 -12. 9 -24. 0 -7. 1 -5. 5 -18. 4 -13. 3	-7.0 -8.0 -5.0 -5.6 -7.8 -4.1 -4.2 -5.3 -4.0 -5.7 -6.0	-4.4 9 -3.9 -3.9 -1.5 -3.1 -1.9 -3.3 -3.8 -2.6	-5.7 -3.1 -2.6 -1.4 -6.4 -1.7 -2.6 7 -1.6 -5.9 -2.9	-6.4 -6.4 -4.7 -3.4 -8.3 -7.6 -2.1 -4.4 -3.7 -5.6 -2.9	0 2.1 -13.6 -5.2 -2.7 2.9 .6 4 -5.1 -3.7 -3.8 -2.7	-5.0 -4.3 .1 -4.3 -1.7 5 -2.6 -1.0 -1.4 3.3 2.7	-1.4 -2.9 -5.4 -7.4 -4.8 -3.8 -3.4 -4.2 -2.2 -2.9 -4.0
1 2 3 4	Delaware	.6 2.3 2.9 2.4	3.3 3.1 3.5 2.6	2.7 .8 .6 .2	-7.4 3.4 11.4 -31.2	-4.0 -2.8 -1.3	4 7 -6.0 3	-1.3 -2.5 -1.2 .2	-4.2 -2.3 -1.8 1	26.0 2.6 16.7 1.5	5. 4 2. 2 39. 4 2. 2	-1.8 -4.2 -1.4	-1.4 -2.1 -2.3 -1.2
	Average	2.0	3. 1	1.1	-6.0	-2.0	-1.8	-1.2	-2.1	11.7	12.3	-1.8	-1.8

^{1.} The difference between the percent change, 1981: I-1981: II, and the percent change, $1980\colon IV-1981\colon I.$

their decelerations in payrolls in the United States, and the States within the two groupings (large deceleration and acceleration) are ranked by their decelerations or accelerations in non-farm personal income (column 3).

Note.—The industries for which private payrolls are shown (columns 4-11) are ranked by

State Personal Income

Table 1.—Total Personal Income, States and Region

[Millions of dollars, seasonally adjusted at annual rates]

State and region		19	80		19	81
State and region	I	II	III	IV	III	IV
United States	2, 062, 761	2, 088, 490	2, 155, 782	2, 228, 277	2, 292, 539	2, 340, 535
New England	118, 55 4 34, 335	120, 092 34, 856	123, 984 35, 903	127, 221 36, 672	131, 661 38, 048	134, 118
Maine	8, 34 0	8, 529	35, 903 8, 778	9, 126	9, 411	38, 661 9, 592
Massachusetts New Hampshire	55, 406 8, 10 3	56, 061 8, 132	58, 057 8, 3 9 3	59, 447 8, 674	61, 3 98 9, 0 33	62, 783 9, 097
Rhode Island Vermont	8, 490 3, 880	8, 593 3, 921	8, 827 4, 026	9, 089 4, 21 3	9, 428 4, 343	9, 576 4, 409
Mideast	409, 837	415, 781	427, 948	440, 875	452, 942	461,032
Delaware	5, 814 7, 251	5, 869 7, 3 61	6, 134 7, 700	6, 453 7, 900	6, 482 8, 065	6, 692 8, 189
Maryland	41,276	42, 570	43 , 992	45, 515	46, 499	47, 344
New York	76, 782 171, 55 3	77, 642 174, 377	79, 842 180, 006	81, 940 184, 694	84, 670 190, 075	86, 205 194, 004
Pennsylvania.	107, 162	107, 961	110, 274	114, 373	117, 152	118, 597
Great Lakes.	395, 121	395, 879	408, 729	423, 178	433, 304	443,830
Illinois	116, 227	119,008	123, 234	125, 688	128, 645	132, 031
Indiana Michigan	48, 226 89, 863	47, 717 87, 810	48, 844 90, 769	51, 33 1 95, 46 3	52, 90 3 97, 507	53, 603 100, 584
Ohio	98, 5 63	98, 777	102, 034	105, 575	108, 025	110, 198
Wisconsin	42, 241 153, 708	42, 567 153, 795	43, 848 158, 134	45, 121 162, 250	46, 225 166, 315	47, 414 169, 847
	26, 3 55	26, 281	,	2 7, 3 40	27, 9 3 5	
IowaKansas	22, 721	22, 974	26, 844 23, 693	24, 467	21, 935 24, 992	28, 521 25, 5 3 6
Minnesota Missouri	38, 009 42, 509	37, 964 42, 390	39, 001 43, 780	39, 978 44, 927	41,091	41, 913
Nebraska	13, 687	13, 641	14, 122	14, 352	46, 189 14, 694	47, 272 14, 994
North Dakota South Dakota	5, 404 5, 024	5, 49 3 5, 052	5, 5 36 5, 159	5, 902 5, 284	5, 996 5, 418	6, 119 5, 491
Southeast	407, 503	414, 702	429, 94 8	446, 075	459, 295	467, 380
AlabamaArkansas	28, 153 16, 007	28, 271 15, 899	29, 104 16, 640	30, 329 17, 058	31, 126 17, 574	31, 375
Florida	82, 026	84, 697	88, 819	92, 2 3 5	l 95, 30 8	17, 981 98, 288 47, 551
Georgia Kentucky	41, 734 27, 3 80	42, 156	43, 720 28, 274	45, 35 5 29, 33 9	46, 765 30, 260	47, 551 29, 926
Louisiana	33, 190	27, 490 33, 984	35, 277	29, 339 36, 698	38, 065	39,090
Mississippi North Carolina	15, 927 44, 083	15, 964 45, 042	16, 522 46, 3 88	16, 975 48, 162	17, 413 49, 191	17, 710 50, 560
South Carolina	22, 28 3	22, 456	2 3, 3 62	24, 227	24, 905	l 25, 443
TennesseeVirginia	34, 017 48, 035	34, 798 49, 173	35, 759 50, 822	37, 004 52, 888	38, 052 54, 388	38, 809 55, 123
West Virginia	14, 668	14, 772	15, 261	15, 807	16, 248	15, 525
Southwest	187, 372	191, 314	198,696	206, 347	213, 449	219,641
Arizona New Mexico	22, 557 9, 946	23, 134 10, 127	23, 720 10, 412	24, 672 10, 750	25, 665 11, 108	26, 099 11, 3 97
Oklahoma	26, 468	26, 597	27, 478	28, 484	29, 568	30, 584
Texas Rocky Mountain	128, 402 56, 545	131, 456 57, 772	137, 086 59, 508	142, 441 61, 992	147, 108 64, 243	151, 561 65, 15 6
Colorado	27, 580	28, 144	29, 005	30, 146	31, 350	31, 808
Idaho	7,304	7,502	7,777	8, 145	8, 487	8,567
MontanaUtah	6, 3 26 10, 567	6, 547 10, 695	6, 659 11, 001	6, 944 11, 421	7, 164 11, 740	7, 313 11, 9 3 9
Wyoming	4, 768	4, 884	5, 066	5, 33 8	5, 502	5, 529
Far West	320, 272	325, 265	334, 369	345, 193	355, 823	363, 672
California	247, 223	251, 276	257, 8 3 8	266, 252	274, 178	280, 754
Nevada Oregon Washington	8, 109 24, 061 40, 879	8, 115 24, 146 41, 728	8, 451 24, 741 43, 340	8, 819 25, 506 44, 616	9, 182 26, 185 46, 277	9, 394 26, 753 46, 771
AlaskaHawaii	4, 824 9, 024	4, 754 9, 136	4, 990 9, 477	5, 296 9, 849	5, 450 10, 057	5, 6 3 8 10, 221
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New England	118, 554 3 55, 496	120, 092 359, 981	123, 984 370, 121	127, 221 381, 007	131, 661 391, 896	134, 118 398, 806
Middle Atlantic East North Central	3 95, 121	3 95, 879	408, 729	423, 178	433, 304	443, 830
West North Central	153, 708 307, 169	153, 795 314, 096	158, 134 326, 199	162, 250 338, 541	166, 315 347, 851	169, 847 354, 716
East South Central	105, 478	106, 52 3	109,658	113, 646	116, 851	117, 820
West South Central Mountain	204, 066 97, 157	207, 9 3 6 99, 149	216, 481	224, 681 106, 2 33	232, 315 110, 198	l 2 3 9, 216
Pacific	326, 011	331 , 040	102, 091 34 0, 3 85	351, 520	362, 147	112, 046 370, 137
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^{1.} Detail may not add to higher level totals because of rounding. The personal income shown for the United States differs from that in the national income and product accounts, primarily because it omits income received by Federal Government employees overseas.

2. The quarterly estimates have not yet been revised to incorporate revisions to the national income accounts and are not consistent with annual State estimates presented in the July issue.

Note.—The quarterly estimates of State personal income were prepared by Francis G. McFaul with the aid of Thelma E. Harding, under the supervision of Robert L. Brown. The table was prepared by Eunice P. James and Kathy A. Albetski.

The Realization of Plans Reported in the BEA Plant and Equipment Survey

PLANS reported in BEA's plant and equipment survey have long provided important indicators of future expenditures on new plant and equipment (P&E). Examination of the relation of these plans to actual expenditures is especially useful at this time because the last comprehensive examination is more than ten years old and because an extensive revision of the P&E survey data was completed in 1980.1

The examination undertaken in this article is in two sections. The first section presents summary measures of errors in P&E expenditure (henceforth, investment) plans—defined for this article as discrepancies between plans and subsequently reported actual investment.² For two time periods—1957–69 and 1970-80-it analyzes errors by industry-group, by length of planning horizon (one-quarter-ahead, two-quarters-ahead, and year-ahead), and at cy-

1. The 1980 revision, which affected both

planned and actual expenditures, is described in

George R. Green and Marie P. Hertzberg, "Revised

Estimates of New Plant and Equipment Expendi-

tures in the United States, 1947-77," Survey of

CURRENT BUSINESS 60 (October 1980): 24-59. For

a thorough examination of the accuracy of plans

through 1966, see Lawrence Bridge, "The Realiza-

tion of Plant and Equipment Anticipations by U.S.

Businessmen," paper presented at C.I.R.E.T. Con-

ference, Paris, 1967 (unpublished). A more recent

study, by Michael J. McKelvey, "The Realization

of Investment Plans: A Microeconometric Ap-

proach" (Ph.D. dissertation, University of Penn-

sylvania, 1980), analyzes P&E expenditure plans

for individual companies in three industries for

1967-77. Other studies of plans include Murray F.

Foss and Vito Natrella, "The Structure and Reali-

zation of Business Investment Anticipations," in

A. G. Hart, ed., The Quality and Economic Signifi-

cance of Anticipations Data (Princeton: Princeton

University Press, 1960). pp. 387-405 and Irwin

Friend and Jean Bronfenbrenner, "Plant and Equipment Programs and Their Realization," in

Princeton University Press, 1955), pp. 53-111.

2. Investment as measured by actual P&E ex-

penditures differs from the nonresidential fixed

investment component of GNP. For a discussion of

the relationship between these two measures, see

Economic Forecasting (Princeton:

Friend and Jean Bronfenbrenner,

reports on regression relationships of actual investment to plans and to variables that may influence the realization of plans. The latter include constantdollar (real) final sales, after-tax profits, and investment goods prices. Most of the data used in the article

clical turning points. The second section

have been corrected for systematic bias. Comparison of plans with actual investment shows well-established patterns of differences by time of year the survey is taken, by size of firm, and by planning horizon. Corrections for such systematic bias are based on median ratios in the preceding 8 years of plans (uncorrected) to actual investment. The median ratio is calculated separately for each industry, for each planning horizon, and for each quarter.3 Corrected plans are equal to uncorrected plans divided by the appropriate median ratio. The data have also been seasonally adjusted, using the X-11 procedure. Plans (after bias correction) are seasonally adjusted by the factors used for actual investment.4

Errors in investment plans

Both planned and actual investment have had strong uptrends throughout the last 35 years, partly due to real growth and partly due to inflation. Because of these trends, a comparison of dollar levels of plans with actual investment shows a correlation that is extremely close but that is not helpful in understanding short-term movements in investment. Therefore, the comparisons in this article are based not on dollar levels, but on percent changes from lagged actual investment.5 Transforming dollar levels into percent changes reduces correlations, but facilitates meaningful comparisons among industries of different size and among time-periods in which dollar levels differ.

Results for total nonfarm business.— Planned and actual investment for total nonfarm business, in percent change form, appear in chart 10. The top panel shows one-quarter-ahead plans and actuals as percent changes from actual investment one quarter earlier. The middle panel shows two-quarters-ahead plans and actuals as percent changes from the actual two quarters earlier. The bottom panel shows planned annual investment, as reported in February of the plan year, and actual annual investment as percent changes from the actual one year earlier.

It is clear from the chart that there positive correlations between planned percent changes and actual percent changes in total nonfarm business investment for the entire 1957-80 period and for the two subperiods. For one-quarter-ahead plans, the simple correlation coefficient of the two series for the entire period is 0.70. For twoquarters-ahead plans, the correlation is

Green and Hertzberg, pp. 38-39.

Short-Term

^{3.} In the 1980 revision of the P&E survey data. the procedure to correct for systematic bias in the early years covered by the P&E survey used data for future—as well as for past—years, because data were not available prior to 1952 for manufacturing and 1954 for nonmanufacturing. The first year for which the influence of future years on the correction factors was negligible was 1957, and, accordingly, this is the starting date of the analysis in this article.

^{4.} For a more complete description of the plans data, including the procedure for bias correction, see Green and Hertzberg, pp. 35-36.

^{5.} For example, if in quarter 1 actual investment is \$100 and planned investment one quarter ahead is \$103, and if in quarter 2 actual investment turns out to be \$104, then the comparison in this article is of the 3-percent increase planned in quarter 1 and the 4-percent increase realized in quarter 2. If in quarter 1 planned investment two quarters ahead is \$105, and if in quarter 3 actual investment turns out to be \$107, the comparison is of the planned 5-percent increase and the realized 7-percent increase

0.74; for year-ahead plans, it is 0.93. Furthermore, correlations are also positive at or near turning points in investment, represented in the chart by periods in which the solid line moves from

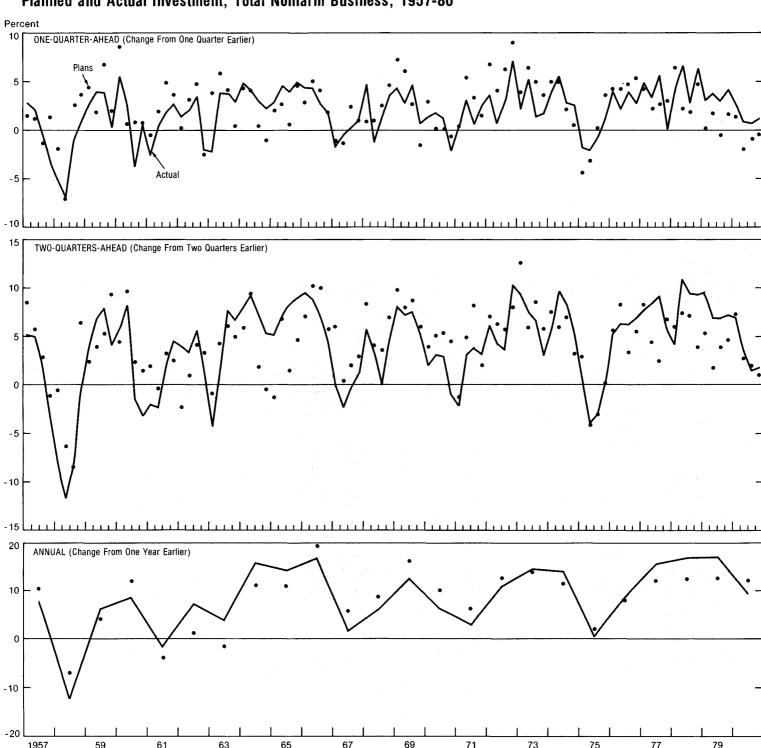
above zero (investment growing) to below zero (investment declining) or the reverse.

Nevertheless, the chart indicates that errors in plans are at times sizeable.

Actual increases substantially exceeded planned increases in 1964–65 and in the late 1970's. The annual changes in the bottom of the chart show understatements (planned below actual) of 5.9,

CHART 10

Planned and Actual Investment, Total Nonfarm Business, 1957-80



Note.—One-quarter-ahead and two-quarters-ahead actual investment and plans are seasonally adjusted. All plans are corrected for systematic bias (see text).

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5.4, 4.6, and 3.5 percentage points in the years 1962, 1963, 1964, and 1965, respectively; and they show understatements of 4.3 and 4.4 percentage points in 1978 and 1979. In contrast, planned investment changes exceeded actual changes in 1958, 1968, 1971, and 1972.

Comparisons with mechanical projections.—It is useful to compare the errors in plans with the errors that arise from mechanical methods of projecting investment expenditures. The simplest such method is based on a "no-change" assumption—that is, the assumption that future investment will equal current investment. A second method is based on a "same-change" assumption—that is, the assumption that the percent change from the current level will equal the most recently observed percent change in actual investment.

Errors in investment plans are generally smaller than errors arising from these mechanical projection methods

for total nonfarm business and for manufacturing and nonmanufacturing. Table 1 presents this finding, using the root-mean-square error (RMSE) as a measure of error.6 For total nonfarm business, the RMSE's of plans range from 2.17 percent for one-quarter-ahead plans in 1970-80 to 3.93 percent for yearahead plans in 1957-69. RMSE's of plans are generally larger for manufacturing and for nonmanufacturing than for total nonfarm business. The RMSE's of mechanical projection methods for total nonfarm business range from 2.53 percent for "same-change" projections one quarter ahead in 1970-80 to 11.83 percent for "no-change" projections one year ahead in 1970-80.

The table also shows ratios of the RMSE's of investment plans to the RMSE's arising from mechanical projection methods. The lower these ratios. the more accurate plans are relative to mechanical projection methods. The ratios tend to be lowest for year-ahead plans. While errors in plans are generally somewhat larger for year-ahead plans than for one-quarter- or twoquarters-ahead plans, errors in mechanical projections are very much larger for year-ahead plans; therefore, improvement of plans over mechanical projections is largest for the year-ahead horizon. Improvement over mechanical projections is smallest for one-quarterahead plans; in fact, during 1970-80,

Table 1.—Root-Mean-Square Errors (RMSE) in Investment Projections: Total Nonfarm Business, Manufacturing and Nonmanufacturing

	One-quarter-ahead projections				Two-quarters-ahead projections					Year-ahead projections					
	RMSE			Ratios of RMSE's		RMSE			Ratios of RMSE's		RMSE			Ratios of RMSE's	
	Invest- ment plans	"No- change" projec- tions	"Same- change" projec- tions	Plans to "no- change" projec- tions	Plans to "same- change" projec- tions	Invest- ment plans	"No- change" projec- tions	"Same- change" projec- tions	Plans to "no- change" projec- tions	Plans to "same- change" projec- tions	Invest- ment plans	"No- change" projec- tions	"Same change" projec- tions	Plans to "no- change" projec- tions	Plans to "same- change" projec- tions
Total nonfarm business:															
1957-69 1970-80 Peaks Troughs	2. 17	3. 18 3. 30 3. 21 2. 50	2. 72 2. 53 2. 82 2. 62	0. 71 . 66 . 66 . 78	0. 83 . 86 . 75 . 74	3, 47 2, 73 2, 42 3, 21	5. 83 6. 19 6. 12 4. 27	5. 32 4. 14 3. 63 5. 38	0.59 .44 .40 .75	0.65 .66 .67 .60	3. 93 2. 94	10. 07 11. 83	11, 13 6, 67	0. 39 . 25	0.35
Manufacturing:												1	ĺ		
1957-69 1970-80 Peaks. Troughs	3, 41	4, 72 4, 27 4, 53 4, 80	3. 76 3. 04 2. 90 3. 67	.79 .80 .49	. 99 1. 12 . 77 1. 12	5. 58 4. 13 2. 48 7. 99	8. 68 8. 13 9. 44 9. 00	7, 90 5, 59 4, 98 8, 05	. 64 . 51 . 26 . 89	.71 .74 .50	6, 05 5, 20	14. 75 15, 33	18. 22 11. 15	. 41	. 33
Nonmanufacturing:					1	1									
1957-69 1970-80 Peaks Troughs	2.05	3. 06 3. 22 2. 93 2. 62	3. 34 2. 78 3. 17 2. 98	. 91 . 64 . 98 . 67	. 83 . 74 . 91 . 59	4. 20 3. 12 3. 60 2. 80	5. 20 5. 90 4. 97 3. 76	5. 44 4. 16 4. 08 5. 63	. 81 . 53 . 52 . 74	. 77 . 75 . 78 . 50	4.50 2.66	8, 46 11, 23	8. 25 5. 88	. 53	. 55

^{1.} See footnote 7 for definitions of peaks and troughs.

Note.—Formulas for RMSE's are as follows:

Investment plans
$$\sqrt{\frac{1}{n} \sum_{t} \frac{t I_{t-\theta} - I_t^2}{I_{t-\theta}}}$$

No-change projections
$$\sqrt{\frac{1}{n} \sum_{t} \frac{I_t - I_{t-\theta}^2}{I_{t-\theta}}}$$

Same-change projections
$$\sqrt{\frac{1}{n} \sum \left[\left(\frac{I_t - I_{t-\theta}}{I_{t-\theta}} \right) - \left(\frac{I_{t-\theta} - I_{t-2\theta}}{I_{t-2\theta}} \right) \right]^2}$$

where n=number of observations; θ =length of lags (one quarter for one-quarter-ahead projections, two quarters for two-quarter-ahead projections, and one year for year-ahead projections). See text for definitions of $I_{l-\theta}$ and $I_{l-\theta}$.

^{6.} A root-mean-square error is calculated by (a) squaring the error for each observation, (b) adding all the squared errors, (c) dividing the sum of squared errors by the number of observations to obtain the mean squared error, and (d) taking the square root of the mean squared error. The RMSE resembles an arithmetic mean of errors without respect to sign; the difference is that dispersion in the size of errors around their mean increases the RMSE but does not increase the arithmetic mean without respect to sign.

^{7.} These ratios, known as U statistics, have been analyzed extensively by Henri Theil in *Applied Economic Forecasting* (Amsterdam: North Holland Publishing Company, 1966), chap. 2.

plans for manufacturing do not represent any improvement, on the average, over "same-change" projections, as the ratio of 1.12 shows. Errors in year-ahead plans during 1970–80, in contrast, have a ratio to "same-change" errors of only 0.47.

Comparison of the 1970–80 and 1957–69 periods shows no overall pattern of higher or lower ratios of RMSE's of investment plans to the RMSE's arising from mechanical projection methods. RMSE's of plans fall from 1957–69 to 1970–80 in every case, but in some cases RMSE's of mechanical projection methods fall even more. For nonmanufacturing, the ratios are all lower during 1970–80, but for manufacturing and total nonfarm business, the results are mixed.

The table shows separately the errors and ratios of errors for selected quarters designated as peaks and troughs in investment.8 These results resemble the results for all quarters. RMSE's are of roughly the same size, and ratios of RMSE's for turning points are generally below 1.0, indicating smaller errors for plans than for mechanical projections. For manufacturing, improvement over mechanical projections is larger for peaks than for troughs; for nonmanufacturing, improvement over mechanical projections is larger for troughs.

Results for individual industries.— For individual industries, RMSE's of investment plans do not compare as favorably with "no-change" projections as they do for total nonfarm business or for manufacturing and nonmanufacturing. For one-quarter-ahead plans, as shown in table 2, most ratios of er-

rors in individual industry plans to errors in "no-change" projections tend to fall in the 0.90 to 1.10 range, both for 1957-69 and for 1970-80. Half of the ratios exceed 1.0, indicating no improvement over mechanical projections. In contrast, the ratios for total nonfarm business are 0.71 for 1957-69 and 0.66 for 1970-80. For two-quarters-ahead plans the individual industry error ratios are more favorable, but still high compared with the total nonfarm business ratios. The individual ratios tend to fall in the 0.60 to 1.00 range, compared to 0.59 (1957-69) and 0.44 (1970-80) for total nonfarm business, For year-ahead plans, individual ratios tend to fall in the 0.30 to 0.70 range, compared to 0.39 (1957–69) and 0.25 (1970– 80) for total nonfarm business. The ratios for total nonfarm business tend to be lower mainly because errors in investment plans have some tendency to cancel out between industries.

Rates of growth of investment are highly variable at the industry level. As a result, "same-change" projections tend to have much larger errors than "no-change" projections and, as table 2 shows, ratios of RMSE's of plans to RMSE's of "same-change" projections are generally lower than ratios of RMSE's of plans to RMSE's of "no-change" projections. "Same-change" projections are not nearly as exacting a standard against which to measure plans at the individual industry levels as they are for broad aggregates.

Summary.—Planned changes in investment have high correlations with subsequently reported actual changes. For total nonfarm business as well as for manufacturing and nonmanufacturing, errors in plans are usually smaller than errors arising from mechanical projections of past expenditures. This result generally holds for peaks and troughs in investment and for 1970-80 as well as 1957-69. One exception is for one-quarter-ahead plans for manufacturing during 1970-80. In contrast, for individual industries one-quarter-ahead plans tend not to be any more accurate than "no-change" projections; but twoquarters-ahead and year-ahead plans generally remain more accurate than "no-change" projections.

Investment plans and other investment determinants

The investment realization function.—Many investment forecasts use plans in combination with other determinants of investment. This section reports on results for a number of such "realization functions," with special attention to the years since 1970 and to predictions for 1980.

The idea underlying the investment realization functions reported here is that actual investment reflects not only previously reported plans but also unexpected developments that have affected the demand for capital goods since the plans were formulated. For example, actual investment might tend to exceed plans when actual sales exceed sales expectations.¹⁰ Unexpected movements in profits, in investment goods prices, or in financing costs might also cause actual investment to deviate from plans. In mathematical terms, this hypothesis about realization of plans states that:

(1)
$$I_t = {}_tI_t - {}_{\theta} + c(X_t - {}_tX_t - {}_{\theta})$$

where:

 I_t = actual investment in period t;

 $_{t}I_{t}$ =investment planned for period t, as of period $t-\theta$, with θ =one quarter for one-quarter-ahead plans, θ =two quarters for two-quarter-ahead plans, and θ =one year for year-ahead plans;

X_i = the value of some determinant of investment, e.g., sales or a price index for investment goods;

 $_{t}X_{t-\theta}$ = the value of X expected for period t, as of period $t-\theta$, with θ defined as above

Actual investment, according to the equation, is equal to planned investment plus some function of the difference between the actual value of an investment determinant and the previously ex-

^{8.} Peak quarters were defined as the quarters at, immediately preceding, and immediately following peaks in real total nonfarm business investment. Peaks in real investment were in 1957:2, 1960:2, 1966:4, 1969:3, 1974:2, and 1980:1. Trough quarters were defined as the quarters at, immediately preceding, and immediately following troughs in real total nonfarm business investment. Trough in real investment were in 1958:4, 1961:2, 1967:4, 1971:1, and 1975:4. Peaks and troughs were not defined for annual investment.

^{9.} The term "individual industries" refers to those in table 2, a mix of Standard Industrial Classification 2-digit and 3-digit groupings of manufacturing and nonmanufacturing activities. Each firm in the P&E survey sample is assigned to one industry on the basis of its principal activity (measured by sales).

^{10.} Two examples of the use of realization functions are in Robert Eisner, "Realization of Investment Anticipations," in J. Duesenberry, G. Fromm, L. Klein, and E. Kuh, eds., The Brookings Quarterly Econometric Model of the United States (Amsterdam: North Holland Publishing Company, 1965). p. 97 and F. G. Adams and V. Duggal, "Anticipations Variables in an Econometric Model: Performance of the Anticipations Version of Wharton Mark International Economic Review 15 (June 1974): 267-284. The theory underlying realization functions is developed in Franco Modigliani and Kalman J. Cohen, "The Significance and Uses of Ex Ante Data," in M. J. Bowman, ed., Expectations, Uncertainty, and Business Behavior (New York: Social Science Research Council, 1958), pp. 151-64.

pected value of that determinant. The equation is written in terms of only one investment determinant, but three such determinants will be tested—namely, real final sales, after-tax profits, and the price of investment goods.

The widely used neoclassical theory of investment demand focuses on sales and the user cost of capital as determinants of investment. The user cost of capital depends on the price of investment goods, on interest rates and other rates of return, and on the tax treatment of investment. Some tests of long-term interest rates showed that, given investment plans, unexpected interest rates were either unrelated to actual investment or related in a way opposite of that suggested by neoclassical theory. Consequently, interest rates were dropped from the analysis. The tax treatment of investment was not incorporated because there did not seem to be any realistic way to construct a quar-

terly measure of the tax treatment that was expected at the time plans were reported (and therefore, presumably, incorporated in plans). Realized profits are not a determinant of investment in the neoclassical theory; they were tested on the grounds that unexpectedly high or low after-tax profits affect the availability of internal funds, and hence might influence the timing of investment even if they do not influence the level of investment over long periods.

Table 2.—RMSE in Investment Projections, Individual Industries

		One-qua	rter-ahead p	rojections	Two-qua	rters-ahead p	rojections	Year-ahead projections			
		RMSE	Ratios of	RMSE's:	RMSE	Ratios of	RMSE's:	RMSE	Ratios of	RMSE's:	
	Time period	Invest- ment plans	Plans to "no-change" projections	Plans to "same- change" projections	Invest- ment plans	Plans to "no- change" projections	Plans to "same- change" projections	Invest- ment plans	Plans to "no-change" projections	Plans to "same- change" projections	
l'otal nonfarm business	1957-69 1970-80	2. 26 2. 17	0.71 .66	0, 83 . 86	3.47 2.73	0.59 .44	0.65 .66	3, 93 2, 94	0.39 .25	0.34	
Blast furnaces	1957-69 1970-80	11. 47 9. 68	. 84 . 97	. 63	16, 39 12, 55	. 75 . 75	. 60 . 73	14. 16 11. 69	. 46 . 43	. 3:	
Nonferrous metals	1957–69 1970–80	12. 61 9. 45	1. 12 . 86	1, 07 . 59	15. 29 13. 28	. 74 . 87	. 72 . 81	10, 82 6, 55	. 29	. 24	
Other primary metals	1957–69 1970–80	11.06 12.12	. 68 1. 02	. 49 . 70	12. 47 18, 47	. 42 1. 12	.31 .76	13, 07 11, 10	.36	. 2	
Fabricated metal	1957-69 1970-80	10. 39 7, 79	. 91 1. 32	. 60 1, 08	14. 34 8. 99	.99	.70	11.51 9.12	.71 .71	.5	
Electrical machinery	1957-69 1970-80	9. 69 6. 41	1. 19 . 92	1. 14 . 84	11. 76 8. 29	. 82 . 68	. 85 . 73	8.74 7.78	.35	.3	
Machinery, except electrical	1957–69 1970–80	8. 97 8. 95	1. 09 1. 00	1.01 .84	12. 36 12. 78	.88	.81 .72	14. 61 11. 97	.69	.59	
Motor vehicles	1957–69 1970–80	12, 17 12, 20	1. 66 1. 49	1. 44 1. 62	15. 85 14. 05	1. 29 . 94	1. 25 . 98	17. 83 8. 07	.92	.6	
Aircraft	1957-69 1970-80	11. 29 11. 63	. 81 . 91	. 66	15. 39 18. 77	. 68	.63	18. 71 22. 32	.49	.3	
Other transportation equipment	1957-69 1970-80	13. 01 20. 61	. 61 1. 08	. 39	13. 74 27. 45	. 55 1, 16	.38	14. 07 20. 53	.48	.3	
Stone, clay, and glass	1957-69 1970-80	10. 57 8. 13	1. 01 . 93	. 75 . 68	12. 36 13. 66	. 80 1. 05	. 56	9, 10 9, 16	.50	.3	
Other durable goods	1957-69 1970-80	7. 45 6. 32	1. 04 1. 04	.83	10.02 9.71	. 89 1. 01	. 69 . 81	9. 26 7. 19	.57	.5	
Food and beverage	1957-69 1970-80	7. 01 7. 03	1, 16 1, 36	. 84 . 97	8. 32 8. 93	. 97 1. 13	.81	6. 52 7. 02	.57	.5	
Textiles	1957-69 1970-80	9. 47 7. 76	. 97 1. 09	. 95 . 92	10. 03 8. 43	.58	. 57	9. 14 8. 44	.35	.2	
Paper	1957-69 1970-80	10. 49 8. 14	1. 19 1. 04	. 91 1, 00	11. 17 7. 68	. 83 . 56	.76	9. 43 6. 61	. 49	.3	
Chemicals	1957-69 1970-80	6, 86 6, 29	. 98 1, 01	1.00 1,12	9.76 8.10	. 79 . 71	.71	8. 26 9. 62	. 44	.3	
Petroleum	1957-69 1970-80	6. 13 8. 04	1. 07 1. 00	. 77 . 84	8. 63 8. 94	1.08 .68	. 89 . 68	7. 23 9. 42	. 64	.4	
Rubber	1957-69 1970-80	11.34 6.34	1.03 .69	. 70 . 58	15. 40 12, 24	1.03 .82	.86	10. 18 10. 65	.50	.3	
Other nondurable goods	1957-69 1970-80	9. 71 7. 43	1.22	.84	11, 25 10, 28	.99	.77	9. 94 6. 76	. 67	.5	
Mining	1957-69 1970-80	6. 05 6. 98	1.00	. 73 . 75	8. 60 7. 74	.98	. 67 . 74	7. 83 6. 22	.83	.5	
Transportation	1957-69 1970-80	4. 33 7. 15	.45	. 37	10. 38 10. 68	. 68	.51	9. 13 11. 99	. 48	.3	
Public utilities	1957-69 1970-80	4. 34 4. 19	. 96	.81	6. 06 4. 43	.81	.71 .77	5. 19 4. 44	.42	.5	
Wholesale and Retail Trade	1957-69 1970-80	4. 55 5. 11	.88	. 63	7. 11 6. 44	. 98 . 76	. 82 . 67	12. 02 5. 75	1. 27 . 42	.9	

Includes lumber, furniture, instruments, ordnance, and miscellaneous manufacturing.
 Includes tobacco, apparel, printing and publishing, and leather manufacturing.

Note.—For formulas for RMSE's and ratios, see note to table 1.

No attempts were made to represent supply bottlenecks that may result in unexpected shortages or delays in the completion of investment projects, because earlier econometric studies have not found that supply conditions play a significant role in realization functions.

Consistent with the use of percent changes elsewhere in this study, it is appropriate to subtract lagged investment, $I_{t-\theta}$, from both sides of equation (1) and divide by $I_{t-\theta}$:

(2)
$$\frac{I_t - I_{t-\theta}}{I_{t-\theta}} = \frac{iI_{t-\theta} - I_{t-\theta}}{I_{t-\theta}} + c \frac{X_t - X_{t-\theta}}{I_{t-\theta}}$$

In this form, the equation says that the percent change in actual investment is equal to the percent difference between planned investment and lagged investment plus a function of the difference between actual and expected values of the determinants of investment.¹¹

Evidence of systematic bias in plans.—One of the premises underlying equations (1) and (2) is that investment plans represent, as of the time they are formulated, an unbiased forecast of what investment will actually be. The uncorrected plans, however, reveal that there are discrepancies between planned and actual investment that are so regular and pervasive that they effectively refute the premise of unbiasedness. Consideration of this evidence will lead to a modification of equation (2).

Some of this evidence appears in table 3. One piece of the evidence is the systematic bias in investment plans for firms of different size; large firms almost always invest less than planned, and small firms almost always invest more than planned. Table 3 shows a sizeable difference in average bias between large and small firms. During 1970–80 for one-quarter-ahead plans, for example, large firms spent an average of 11.2 percent less than planned,

$$c\left(\frac{X_{t}-X_{t-\theta}}{X_{t-\theta}}\right)$$

This alternative form permits the coefficient c to be interpreted as an elasticity.

and small firms spent an average of 5.0 percent more than planned. The middle of table 3 shows the pervasiveness of this bias. In only 5.4 percent of the quarters (5 out of 92) did large firms invest more than they planned. Small firms, on the other hand, invested more than they planned in 71.8 percent of the quarters.

Another piece of evidence is persistent seasonal discrepancies between uncorrected plans and actual investment. Actual investment generally falls short of plans in the first three quarters of the year but exceeds plans in the fourth quarter. The bottom part of table 3 shows that, for one-quarter-ahead plans during 1957-80, the shortfall of actual investment below plans averaged 7.8, 4.1, and 7.3 percent during the first three quarters. If the plans reported in the P&E survey actually represent forecasts, it hardly seems possible that respondents would remain unaware of these regularly recurring discrepancies and fail to correct them.

An interpretation of these discrepancies is that the reported plans are not forecasts but rather are annual targets for major capital additions underway that are divided into quarters with little regard for seasonal influences on investment.¹² For those firms with comprehensive capital planning (this group includes many large firms), the principal source of systematic discrepancies between plans and actual investment is that the targets are not always met. For firms without comprehensive capital planning, a major cause of systematic discrepancies is the regular emergence of needs for replacement of, or for additions to, the capital stock that are not incorporated in plans.

If these are important causes of discrepancies between plans and actual investment, then it is unlikely that investment will respond to plans percentage-point for percentage-point, as assumed in equation (2). Furthermore, it is likely that some of the change in investment is neither reflected in plans nor due to unexpected movements of investment determinants. Accordingly, it is probably more realistic to estimate

Table 3.—Uncorrected, Not Seasonally Adjusted Investment Plans: Evidence of Systematic Bias

	Time Period	One- quarter- ahead plans	Two- quarters- ahead plans
By size of firm: 1			
Average percent difference (actual less plans):			
All firms	1959-69	-4.0	1.1
Large firms	1970-80 1959-69	-4.8 -9.5	0.3 -8.0
	1970-80 1959-69	-11.2 -8.4	-8.1 -1.0
Small firms	1970-80 1959-69 1970-80	-0.2 4.0 5.0	7. 6 12. 7 14. 4
Percent of quarters actual exceeds plans:			
All firmsLarge firms	1959-80	22.9	54. 3
Medium firms Small firms	1959-80	5. 4 31. 8 71. 8	9. 8 55. 4 95. 7
By quarter:	l '		
Average percent difference (actual less plans):			
First quarters Second quarters Third quarters	1957-80 1957-80 1957-80 1957-80 1957-80	-4.3 -7.8 -4.1 -7.3 2.0	0.5 -2.6 -1.1 -1.4 7.0

^{1.} The period starts in 1959 because earlier breakdowns by size of firm are not available.

the strength of the response of investment to plans empirically, and to add a constant term to represent the average percent change in investment due to developments not reflected in plans.

These comments apply to uncorrected, not seasonally adjusted data. They are less applicable to corrected, seasonally adjusted data, because systematic discrepancies are largely eliminated by the correction and seasonal adjustment procedures. These procedures are only approximate, however. Because they fail to remove all systematic discrepancies, it is desirable to allow for a response to plans other than one-for-one and for investment due to developments not reflected in plans. Equation (2) is therefore rewritten as:

$$(3) \quad \frac{I_{t}-I_{t-\theta}}{I_{t-\theta}} = a + b \quad \frac{iI_{t-\theta}-I_{t-\theta}}{I_{t-\theta}} + c \quad \frac{X_{t}-X_{t-\theta}}{I_{t-\theta}}$$

According to equation (3), the percent change in actual investment depends on a constant term, on the planned percent change in investment (with a coefficient to be estimated), and on a function of the difference between actual and expected values of the determinants of investment.

Investment determinants.—Equation (3) lists only one determinant of investment, labeled X; but the tests below

^{11.} The final term in the equation is the ratio of the unexpected value of an investment determinant to the level of investment. This form is used for some of the investment determinants; for others, the ratio of the unexpected value to the level of the investment determinant itself is used, i.e.,

^{12.} This is the point of view developed in Bridge, pp. 22-24.

Table 4.—Estimates of Realization Functions

[Dependent variable: percent change in actual investment]

			"Une	expected" Valı	ue Of			
	Constant term	Plans 1	Sales 2	Profits 3	Investment goods prices 4	R 2	SEE	D-W
Total nonfarm business								
One-quarter-ahead plans:								
1957-79	0. 853 (3, 6)	0. 436 (6. 3)	0. 676 (3. 5)	0. 175 (3. 3)	0. 932 (3. 3)	0. 62	1.61	1. 81
1957-69	. 502	. 454 (5. 3)	. 959 (3. 3)	. 174 (2. 4)	. 426	. 69	1.55	1.68
1970-79	1	. 385	.530	. 121	. 935	. 47	1.64	2. 1
Two-quarters-ahead plans:	(8.2)	(3. 4)	(1.7)	(1.5)	(2.1)			
1957-79	2. 868 (5. 2)	. 552 (7. 2)	1.329 (4.5)	. 373 (5. 0)	. 934 (2. 8)	.72	2, 39	1. 0
1957-69	1.872	. 600	1. 412	. 410	604	. 73	2, 52	1.00
1970-79	(2. 6) 3. 890	(6. 0) . 483	(3. 5) 1. 620	(3.7)	(9) 1.460	. 72	2, 00	1. 9
	(4.8)	(4.3)	(3. 6)	(4.3)			2,00	1.9
Year-ahead plans:	1, 073	. 786	. 454	. 637	. 372	. 88	2. 54	.9
	(1.2)	(6, 9)	(.8)	(3. 6)		.00	2.01	.,
Manufacturing One-quarter-ahead plans:								
1957-79		. 387	. 635	. 154	1.383	. 53	2. 80	1.1
1957-69	(2.5)	(4. 3) . 557	(3. 0) 1. 200	(3.4)	(2. 9) -, 166	. 58	2. 92	1.1
1070 70	(.4)	(4. 2)	(3.4)					
1970–79.	1. 489 (2. 6)	. 316 (2. 4)	. 401 (1. 3)	.148 (2.3)	1, 554 (2, 8)	. 48	2.49	1.8
Two-quarters-ahead plans:	1. 334	. 773	1.019	. 221	1.022	. 65	4, 34	
1907-19	(1.6)	(7. 5)	(3. 2)	(3.3)	(1.7)			
1957-69	047 (1)	. 915 (7. 2)	1.741 (3.9)	. 188 (2. 0)	$ \begin{array}{c c} -3.450 \\ (-2.8) \end{array} $.73	4, 20	1.0
1970-79	2, 943 (2, 5)	. 564 (3. 8)	1.093 (2.3)	.301	2. 261 (3. 4)	. 68	3, 51	1.0
Year-ahead plans:						E		
1957-79	-1.679	1. 161 (8. 3)	.099	. 440 (2. 9)	. 547	. 88	4. 19	.9
Nonmanufacturing								1
One-quarter-ahead plans:								
1957-79	1, 150 (5, 1)	. 397 (6. 4)	. 732 (3. 7)	. 195 (1. 9)	. 707 (2. 5)	. 52	1.73	2.1
1957-69	1. 111 (3. 6)	. 347 (4. 3)	. 700 (2, 2)	. 317 (2. 1)	. 661 (1. 5)	. 52	1.83	2. 1
1970-79	1. 226 (3. 2)	. 455 (4. 4)	. 780 (2. 6)	. 017	.791	. 47	1.62	2.0
Two-quarters-ahead plans:	(0.5)	(== -/	(2. 0)		(333)			
1957-79	4. 487 (9. 3)	. 326 (4. 8)	1.708 (5.9)	. 433 (3. 0)	. 852	. 59	2, 50	1.1
1957-69	1	. 269	1. 534	. 512	750		2, 71	1.2
1970-79	ł .	. 436	(3, 8) 2, 002	. 377	1.043	. 61	2.14	1.4
	(6, 6)	(4.0)	(4.3)	(2, 0)	(2.4)			
Year-ahead plans:	3, 125	. 522	1. 218	. 491	. 268	.78	2.71	1.3
	(3.4)	(4.1)	(2, 1)	(1.6)	(1.0)			

^{1.} The form of the plans variable is described in the text.
2. The variable is $((S_t - S_t^{\ell})/S_t)^*$ 100, where S_t is real final sales and S_t^{ℓ} is the expected value of S_t .

^{3.} For one-quarter-ahead plans and two-quarters-ahead plans, the variable is $((PP_{t-1}-PR_{t-1}^e)/I_{t-1})^*100$, where PR_t is after-tax profits, PR_t^e is the expected value of PR_t , and I_t is actual investment. For year-ahead plans the variable is $((PR_t-PR_t^e)/I_t)^*100$.

^{4.} The variable is $(D_t - D_t^e)$, where D_t is the percent change in the implicit price deflator for plant and equipment expenditures and D_t^e is the expected value of D_t .

Note.—For definitions of variables and derivation of expected values, see appendix. The t-statistics are in parentheses below the coefficients.

will use three investment determinants—real final sales, after-tax profits, and the implicit price deflator for business fixed investment.¹³ The coefficients of the first two variables are expected to be positive; the coefficient of the deflator can be either positive (indicating that some or all of the unexpected price shows up in current-dollar investment) or negative (indicating that the reduction in demand in response to the unexpected price more than offsets its effect on current-dollar investment).

In order to apply equation (3), it is necessary to construct an "expected" value for each of the determinants of investment. The approach used here is to assume that the expected value of each determinant depends on its past values and on a time trend, with coefficients determined by a time-series regression analysis. For sales and profits, this model is applied to levels. For prices, the model is applied to ratios of the current implicit price deflator to last quarter's deflator. The difference between the treatment of sales and profits, on the one hand, and prices, on the other, implies that businesses form expectations about levels of sales and profits but about rates of change of prices. The appendix to this article describes in detail the procedure for, and results of, calculating expected values.

Regression results.—Results of the realization equations are reported for total nonfarm business, for manufacturing, and for nonmanufacturing in table 4. The table shows results for one-quarter-ahead, two-quarters-ahead, and year-ahead plans, with the former two shown by subperiod as well as for the entire period.¹⁴

Overall, the realization equations perform as expected. The coefficients for sales and profits have the expected signs and usually have t-ratios of 2 or above. (Because, as mentioned earlier, the coefficients of prices can be either positive or negative, their signs do not provide a test of the realization func-

tion approach.) Standard errors of estimates (SEE's in the tables) of the equations can be compared to the RMSE's measuring the discrepancy between investment and plans in table 1. The standard errors of estimates are always lower than the RMSE's; generally they are a great deal lower.

Most of the constant terms of the 21 equations reported in table 4 are positive and have t-ratios of 2 or above. Evidently, some portion of the growth in investment is best summarized as a constant rate rather than an amount associated with investment plans or with unexpected values of sales, profits, or prices.

Coefficients of planned changes in investment all have t-ratios greater than 2. Of the 21 coefficients for planned changes in investment, 20 are less than 1, and 10 are less than 0.5. Evidently, a 1-percent addition to plans is typically associated with something less than a 1percent increase in investment. One of the lowest coefficients for plans applies to one-quarter-ahead plans for manufacturing in 1970-79. Heavy discounting of these one-quarter-ahead plans is consistent with their poor performance relative to mechanical projections, which was reported in the first section of this article.

Coefficients for unexpected real sales and unexpected after-tax profits are all positive and in many cases have t-ratios of 2 or above. The sales coefficients are larger for two-quarters-ahead plans than for other planning horizons. The profits coefficients tend to increase with the length of the planning horizon.

Coefficients for prices are almost all larger than zero, but vary a great deal from one equation to another. Because the dependent variable in these regressions is the percent change in current-dollar investment, a coefficient of 1.0 for the unexpected price variable implies that changes in prices are reflected fully in current-dollar investment, with no reduction in real investment. A price coefficient less than 1.0 implies that an unexpected increase in prices causes some reduction in real investment. To A

price coefficient of more than 1.0 implies, implausibly, that real investment increases in response to a price increase. There are some price coefficients of more than 1.0; but the excess of these coefficients over 1.0 is never statistically significant.¹⁶

Comparison of the 1970-79 regressions with the 1957-69 regressions reveals a number of systematic differences: (1) all constant terms are higher in 1970-79, (2) most plans coefficients are lower in 1970-79, and (3) all price coefficients are higher in 1970-79.

The higher constant terms probably reflect the high rate of inflation in the 1970's. An interpretation of the constant terms, as mentioned earlier, is that some portion of investment growth is best summarized by a constant term. If this portion of investment growth refers to real growth, as seems plausible, then the constant term should reflect the average rate of inflation necessary to translate it into current-dollar investment growth, the dependent variable in the equation. The constant term for each subperiod, under these conditions, will tend to be larger the higher the average rate of inflation during that subperiod.

The lower coefficients for investment plans in 1970-79 imply that a 1 percentage-point change in plans was associated with a smaller change in actual investment in the 1970's than in the 1957-69 period. The higher coefficients for prices imply less reduction in real investment in response to unexpectedly high investment goods prices. The reasons for these changes in coefficients are not clear.

Using the regression results.—The results of these realization equations can be used to predict future investment in two ways. The simplest way is to assume that actual sales, profits, and prices will equal expected values of these variables during the forecast period, and hence the unexpected terms in the equation will be zero. Predicted investment is then derived from plans by

The exact variables used in the regression equations are described in the appendix.

^{14.} There are not enough annual observations to estimate usable year-ahead results by subperiod. The equations were estimated through 1979, so that they could be used to provide estimates for 1980 (see below).

^{15.} The elasticity of real purchases with respect to prices is equal to the price coefficients reported in the tables minus 1.0. A negative price coefficient therefore implies a price elasticity less than -1.0.

^{16.} The test for the significance of a coefficient compared to 1.0 (rather than the usual tests compared to zero) is performed by calculating a ratio whose numerator is the coefficient minus 1 and whose denominator is the coefficient divided by its t-statistic. If this ratio exceeds 2, then the coefficient is significantly different from 1.0 at a 95 percent level of confidence.

Table 5.—Errors in Investment Predictions, 1970-79 and 1980

	One-q	uarter-ahead and	d two-quarters-al	ead plans		Year-ah	ead plans	
	RMSE of investment plans 1970-79	RMSE of investment plans 1980	Standard error of realization equations 1970-79	RMSE of equation predictions 1980	RMSE of investment plans 1970–79	Actual minus planned investment change 1980	Standard error of realization equations 1957-79	Actual minus predicted investment change 1980
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
One-quarter-ahead plans:								
Total nonfarm business Manufacturing Nonmanufacturing	3, 45	1. 93 3. 01 1. 28	1. 64 2. 49 1. 62	0. 46 1. 65 . 52				
Two-quarter-ahead plans:								
Total nonfarm business		. 67 2. 67 1. 36	2. 00 3. 51 2. 14	2. 31 2. 44 4. 28				
Year-ahead plans:								
Total nonfarm business Manufacturing Nonmanufacturing					2. 96 5. 45 2. 48	-2.70 50 -4.00	2. 54 4. 19 2. 70	-1. 20 -1. 6: -3. 02

^{1.} The entries in columns 6 and 8 are single numbers rather than RMSE's because there is only one annual prediction for 1980.

using the constant term and the coefficient of the plans variable in the relevant equation.

A more complete use of the realization equations is possible if the user has independent forecasts of real final sales, profits, and investment goods prices. These forecasts may be used as if they were actual values. Expected values of sales, profits, and prices may be estimated using the formulas for expected values explained in the appendix of this article. The entire realization equation can then be used to forecast investment.

This article reports on 1980 predictions using the simpler method. For one-quarter-ahead and two-quartersahead predictions, predictions are based on the equations for 1970–79 reported in table 4. For year-ahead predictions, where no equations are reported for 1970–79, predictions are based on equations for the entire 1957–79 period.

The results, shown in table 5, indicate that the equations lead to fairly accurate predictions in 1980. For one-quarter-ahead plans, the RMSE's of equation-based predictions (column 4) are smaller than other errors in the table—the 1970–79 RMSE's of plans (column 1), the 1980 RMSE's of plans (column 2), and the standard error of the 1970–79 realization equations (column 3). For two-quarters-ahead plans, the 1980 predictions are less successful; the prediction errors in column 4 are sometimes larger than and sometimes smaller than other errors. Year-ahead pre-

dictions are more successful than twoquarters-ahead predictions. Prediction errors for 1980 (column 8) are smaller than 1970-79 errors in plans (column 5) and standard errors of realization equations for total nonfarm business and manufacturing (column 7). The predictions from the annual equations are considerably better than the plans (column 6) for total nonfarm business and nonmanufacturing but not for manufacturing.

Summary.—Investment realization equations, relating actual investment changes to planned changes and to unexpected movements in sales, after-tax

profits, and prices, performed well for total nonfarm business, manufacturing, and nonmanufacturing. Coefficients relating actual investment changes to planned changes were almost always less than 1.0, indicating that a 1-percent addition to plans is typically associated with less than a 1-percent increase in actual investment. Coefficients for sales, after-tax profits, and prices were generally positive. Predictions for 1980 based on use of truncated realization equations were fairly accurate, more so for one-quarter-ahead plans and yearahead plans than for two-quartersahead plans.

APPENDIX: Estimating Unexpected Values of Investment Determinants

ESTIMATES of the unexpected value of each investment determinant were derived from the equations relating expected value to a weighted average of past values and a time trend. After these equations were estimated, the unexpected value of each investment determinant was calculated as the actual value less the expected value.

The investment determinants for which expected and unexpected values were constructed were real final sales, profits, and investment goods prices. The variables were:

• for total nonfarm business: final sales in constant (1972) dollars, domestic profits after tax of nonfinancial corporations, and implicit price deflator

for P&E expenditures by total nonfarm business.¹⁷

- for manufacturing: final sales of goods in constant (1972) dollars, domestic profits after tax of manufacturing corporations, and implicit price deflator for P&E expenditures by manufacturing industries.¹⁷
- for nonmanufacturing: final sales in constant (1972) dollars domestic profits after tax of nonfinancial nonmanufacturing corporations, and implicit price deflator for P&E expenditures by nonmanufacturing industries.¹⁷

^{17.} The price series used was a preliminary version of the one published in Michael J. McKelvey. "Constant-Dollar Estimates of New Plant and Equipment Expenditures in the United States, 1947-80" in the September 1981 Survey.

The estimating equation for each investment determinant expresses the value of a variable, X, as a function of past values and a time trend, as follows:

(A1)
$${}_{t}X^{a}{}_{t-1} = {}_{a_{0}}{}^{b}{}^{t}X^{\lambda}{}_{t-1}X^{\lambda^{2}}{}_{t-2}X^{\lambda^{3}}{}_{t-3}...$$
 where:

 $_{t}X^{e}_{t-1}$ = the value of X expected in period t, as of period t-1;

e=the base of natural logarithms,

t=time, with 1 in 1952:1, 2 in the following quarter, etc.,

 X_{t-i} =the actual value of X in period t-i; with i=1, 2, 3, etc.

 $a, b, \lambda =$ parameters to be estimated.

The value of a is expected to be positive and λ is expected to lie between 0 and 1.0. The weights for past values of X decline the longer the lag; the dots at the end of the equation indicate continuing lagged values with higher powers of λ as exponents.

To estimate equation A1, the actual value of X_t is substituted for the expected value $({}_{t}X^{6}{}_{t-1})$ and an error term, U_t , is added to the equation. This substitution rests on the assumption that expectations are formed in a manner that avoids bias. Making the substitution and taking logarithms of both sides leads to:

(A2)
$$\ln X_{t} = \ln a + bt + \lambda \ln X_{t-1} + \lambda^{2} \ln X_{t-2} + \lambda^{3} \ln X_{t-3} \dots + \ln U_{t}$$

where ln denotes the natural logarithm of a variable. Writing this equation for the previous period and multiplying each term by λ gives:

(A3)
$$\lambda \ln X_{t-1} = \lambda \ln a + \lambda b(t-1) + \lambda^2 \ln X_{t-2} + \lambda^3 \ln X_{t-3} + \ldots + \lambda \ln U_{t-1}$$

Subtracting (A3) from (A2) leads to:

(A4)
$$\ln X_t = (1-\lambda) \ln a + \lambda b + (1-\lambda)bt + 2\lambda \ln X_{t-1} + V_t$$

where V_t is equal to $\ln U_t - \lambda \ln U_{t-1}$ and is assumed to have zero mean and to be serially independent.

Equation (A4) was estimated separately for each investment determinant, using ordinary least squares. For real final sales and for after-tax profits, X

Table 6.—Fquations for Estimating Expected Values of Sales, Profits, and Price Change

	Estima	ated coefficie	nts	Deriv	ed parame	ters	
	$(1-\lambda)\ln a + \lambda b$	(1–λ) <i>b</i>	2λ	a	10005	λ	\mathbb{R}^2
Real final sales: ¹ Total	0. 628 (1. 6)	0. 000390 (1. 5)	0, 953 (32. 1)	3. 32	0.74	0.48	0. 999
Goods	. 794 (2, 0)	. 000504 (1. 9)	. 937 (28. 8)	4. 45	. 95	. 47	. 997
Profits after-tax: 1 Nonfinancial corporations	. 934 (2. 8)	. 002029 (3. 2)	. 900 (25, 4)	5.45	3. 69	. 45	. 984
Manufacturing corporations	1.063 (2.8)	. 002059 (3. 1)	.881 9(21.1)	6. 67	3. 68	. 44	. 968
Nonmanufacturing nonfinancial corporations.	.711 (2.6)	. 002080 (3, 1)	. 915 (27. 6)	3.70	3.83	. 46	. 989
Investment goods prices: 1, 2 Total nonfarm business	000061 (. 1)	. 000062	. 643 (9. 8)	1.00	. 09	. 32	. 577
Manufacturing	.000101	. 000049 (2. 4)	.710 (10.6)	1.00	. 08	. 36	. 637
Nonmanufacturing	000535 (, 4)	. 000079	. 547 (6. 9)	1.00	. 11	. 27	. 497

For definitions and variables, see appendix.
 For the price equations, the dependent variable is the ratio of current to lagged price level and the coefficient 2λ applies to last period's ratio.

Note.—The estimation period is 1952-1979.

and X^e refer to actual and expected levels. For prices, X and X^e refer to ratios of the current value to last quarter's value.

Regression results are shown in table 6. The constant term in these regression equations is an estimate of

$$(1-\lambda)\ln a + \lambda b$$
;

the coefficient of time, an estimate of $(1-\lambda)b$; and the coefficient of $\ln X_{t-1}$, an estimate of 2λ.

To use the results to estimate expected values of X_t , or ${}_{t}X^{e}_{t-1}$, it was assumed that actual and expected values were equal in an initial quarter-the fourth quarter of 1951. Then the logarithm of the expected value was generated sequentially by applying the formula:

$$\begin{array}{ll} \text{(A5)} & \ln_t X^{\mathfrak{e}_{t-1}} \!=\! ((1-\lambda) \! \ln\! a \! + \! \lambda b) \\ & + (1-\lambda) bt \! + \! \lambda \! \ln_{t-1} \! X^{\mathfrak{e}_{t-2}} \! + \! \lambda \! \ln\! X_{t-1} \end{array}$$

which can be derived from (A1) by the algebraic procedure used to transform (A2) into (A4).

For the one-quarter-ahead realiza-

tion equations, unexpected values of sales, profits, and prices were calculated as actual sales, profits, and prices less the expected values generated by the equations in table 6. For the two-quarters-ahead realization equations, expected values two quarters ahead were generated by applying equation (A5) twice, the first time to generate expected values one quarter ahead and the second time, letting expected values one quarter ahead serve as both lagged expected values and lagged actual values, to generate expected values two quarters ahead. Unexpected values were calculated as actual values less two-quarters-ahead expected values.18 For the year-ahead realization equations, expected values were generated by applying equation (A5) four times and then averaging the four expected values to obtain year-ahead averages.

^{18.} For profits, one-quarter-ahead unexpected values were much more closely related to investment than two-quarters-ahead values. Consequently, as noted in table 4, the two-quarters-ahead realization equations make use of unexpected profits one quarter ahead rather than two quarters ahead.

A Profile of U.S. Multinational Companies in 1977

THIS article presents a profile of U.S. multinational companies (MNC's), based on data from BEA's 1977 benchmark survey of U.S. direct investment abroad.1 It discusses industry characteristics of the MNC's, their size, the location of their operations, the U.S. parents' percentage ownership in their foreign affiliates, and the form of organization of parents and affiliates. Forthcoming studies will discuss, in greater depth, specific aspects of the MNC's, such as their growth since the last benchmark survey of 1966, sales, gross product. employment, technology, sources and uses of funds, and U.S. merchandise trade.

U.S. direct investment abroad exists when one U.S. person (U.S. parent) has a direct or indirect ownership interest of 10 percent or more in a foreign business enterprise (foreign affiliate). U.S. MNC's are U.S. companies that have direct investment abroad. An MNC consists of the U.S. parent and all of its foreign affiliates.

The 1977 benchmark survey was a census, i.e., it was intended to cover the universe of U.S. MNC's. Reports were received for 3,540 U.S. parents and their 24,666 foreign affiliates. Although a large number of very small affiliates were exempted from the survey in order to ease the reporting burden, coverage

Note.—Arnold Gilbert programmed the tables, with assistance from Richard Mauery.

The benchmark survey covered parents and affiliates in all industries. However, this article will cover only nonbank MNC's. A nonbank MNC consists of a nonbank U.S. parent that has at least one nonbank foreign affiliate, and its nonbank affiliate(s). In the 1977 benchmark survey, much more data were collected for nonbank parents and affiliates than for bank parents and affiliates, because the latter already were required to report most of the information needed for policy purposes to other U.S. Government agencies.

The 3,425 nonbank parents of nonbank affiliates accounted for 97 percent of both the number and employment, but only 73 percent of the total assets, of all U.S. parents; similarly, the 23,-641 nonbank affiliates of nonbank parents accounted for 96 percent of the number and 98 percent of the employment, but only 59 percent of the total assets, of all affiliates. Assets of nonbank parents and affiliates tended to be lower, on average, than those of bank parents and affiliates, because the assets of the latter included substantial financial claims arising from their lending activities. (Their liabilities tended to be high also, because of their sizable borrowing activities and customers' deposits.) In the remainder of this article and in all accompanying tables, the term "U.S. MNC's" refers only to nonbank MNC's, as defined above. "U.S. parents" refers only to nonbank parents of nonbank affiliates, and "foreign affiliates" refers only to nonbank affiliates of nonbank parents.

The characteristics of U.S. MNC's could be described using a number of different items, such as total assets,

sales, or employment. For simplicity, most of the discussion here is in terms of a single item—total assets. (One exception is in the discussion of industrial diversity, where some of the necessary data are available only for sales.) However, the number, sales, and employment, as well as the total assets, of MNC's are presented in most of the tables and are mentioned in the text, to the extent that they add to the discussion of a given characteristic.

Highlights of this article are:

- U.S. MNC's had worldwide consolidated assets of \$1,818.2 billion in 1977; 42 percent were in manufacturing, 23 percent in finance (except banking), insurance, and real estate, 16 percent in petroleum, and 13 percent in "other industries" (mainly transportation, communication, and public utilities). The remaining 6 percent were in trade and mining.
- A majority of affiliates were classified in the same industries as their U.S. parents, or in industries that complemented or were closely related to those of their parents.
- Industry specialization ratios—the percentage of an MNC's total sales that were in the MNC's own industry of classification—ranged from 72 percent in mining to almost 90 percent in petroleum and trade.
- The distribution of sales by MNC industry of classification did not differ significantly from that by industry of the sales themselves.
- The distribution of worldwide consolidated assets of U.S. MNC's was highly skewed toward the large MNC's. The 62 largest—those with assets of at least \$5 billion each—accounted for less than 2 percent of the number, but for 50 percent of the assets, of all MNC's.

of the universe in terms of values was virtually complete.

The benchmark survey covered par-

^{1.} The April 1981 Survey of Current Business gave a brief description of the benchmark survey and highlights of the data. See International Investment Division, "1977 Benchmark Survey of U.S. Direct Investment Abroad," Survey 61 (April 1981): 29-37. Detailed data and a more complete methodology of the survey were published in U.S. Direct Investment Abroad, 1977; copies may be obtained from the Superintendent of Documents, U.S. GPO, Washington, D.C. 20402, price \$10.00, stock number 003-010-00079-1.

- Affiliates accounted for 24 percent of the aggregated assets of U.S. parents and affiliates. By industry of MNC, affiliates' shares of aggregated assets ranged from 38 percent in petroleum to 10 percent in finance (except banking), insurance, and real estate.
- Almost three-fourths of affiliates' assets—\$359.6 billion out of \$490.2 billion—were in developed countries. Assets of affiliates in Canada, at \$86.2 billion, were the largest for any single country. Assets of European affiliates were \$206.6 billion and were mainly in the European Communities (9). Almost two-thirds of the assets of affiliates in developing countries were in Latin America.
- Nearly one-half of U.S. MNC's had affiliates in only 1 country. Only 4 percent had affiliates in more than 20 countries.
- Eighty-three percent of affiliates were majority-owned (i.e., owned more than 50 percent) by their U.S. parents; of these, 86 percent were wholly owned.
- Globally, majority-owned affiliates accounted for nearly three-fourths of total affiliate assets. Their shares of assets were significantly less in countries—such as South Korea, Japan, India, Spain, and Mexico—that maintained restrictions on majority ownership by foreign investors.
- Most U.S. parents and foreign affiliates were incorporated. Incorporated parents accounted for 99 percent of the assets of all parents, and incorporated affiliates accounted for 87 percent of the assets of all affiliates.
- Sixty-one percent of affiliates were single-establishment enterprises. Only 6 percent had 11 or more establishments.

Industry Characteristics of MNC's

Distribution of MNC assets by industry

In the 1977 benchmark survey, data were collected for, and an industry code assigned to, the U.S. parent and each of its foreign affiliates separately; the codes were based on the industry in which the individual parent's or affiliate's sales were largest. Because an MNC-wide industry code (i.e., a code based on the worldwide consolidated activities of the MNC as a whole) was not available from the survey, in what follows, each MNC is classified by industry of U.S. parent. In a majority of cases, however, the U.S. parent's industry was probably also the MNC-wide industry, because, as will be discussed later, U.S. parents normally accounted for a much larger share of total MNC operations than did their foreign affiliates, and a majority of affiliates were classified in the same industries as their parents.

Table 1 presents selected data for U.S. MNC's by industry of U.S. parent. For MNC's worldwide, total assets are shown two ways-aggregated and consolidated. Aggregated assets are the sum of the assets of U.S. parents and of their foreign affiliates, which were reported separately in the 1977 benchmark survey. This sum contains duplication because of intercompany positions between a parent and an affiliate or between two affiliates of the same parent; these positions give rise to assets on the books of both the parent and the affiliate, or of the two affiliates, involved. Consolidated assets are assets after elimination of the duplication of intercompany positions. Worldwide consolidated assets of MNC's were not reported in the 1977 benchmark survey, but the data needed to remove most of the duplication were reported. (For derivation and further explanation, see the technical note.) In 1977, consolidated assets of the MNC's were roughly approximated to be \$1,818.2 billion, compared with aggregated assets of \$2,033.4 billion. Thus, a little over 10 percent of aggregated assets were eliminated by consolidation.

By industry of U.S. parent, manufacturing accounted for 42 percent, finance (except banking), insurance, and real estate for 23 percent, petroleum for 16 percent, and "other industries" (mainly transportation, communication, and public utilities) for 13 percent, of MNC worldwide consolidated assets. The share of trade was 5 percent and that of mining less than 1 percent.

Of the manufacturing total, 21 percent was in transportation equipment, 15 percent in chemicals, 14 percent in metals, and 13 percent in nonelectrical machinery. In finance (except banking), insurance, and real estate, MNC's in insurance had the largest share of assets.

The distribution of MNC aggregated assets by industry of U.S. parent was virtually the same as that of MNC consolidated assets. However, the distributions of MNC sales and employment by industry each differed significantly from that of either asset measure.

U.S. MNC's had worldwide (aggregated) sales of \$2,060.3 billion and worldwide employment of 26,081,000 in 1977.2 MNC's in manufacturing and trade accounted for larger shares, and MNC's in finance (except banking), insurance, and real estate for smaller shares, of both sales and employment than they did of assets (chart 11). In the latter industry, ratios of sales to assets, and of employment to assets, are usually significantly lower than those in other industries; assets of enterprises in this industry often include very sizable investment portfolios, which, on average, generate lower "sales" (in this case, mainly dividend and interest receipts) and support fewer employees than other types of assets.

Petroleum MNC's accounted for a larger share of sales, but a much smaller share of employment, than of assets. Their larger share of sales probably reflected the substantial duplication in their sales data because of intercompany transactions. Before being sold to final customers, petroleum is typically resold several times within the MNC—for example, by extractive affiliates to refining affiliates, and then by refining affiliates to marketing or distribution affiliates. The smaller share of employment accounted for by petroleum MNC's mainly reflected the relatively high capital (and low labor) intensity of the petroleum industry.

Only aggregated, not consolidated, worldwide MNC sales are shown in the tables and discussed in this article. A forthcoming study will estimate consolidated worldwide MNC sales.

Table 1.—Selected Data of U.S. MNC's, 1977, by Industry of U.S. Parent

	Num	ber of:		Total a	ssets of:			Sales by:		Em	ployment o	of:	Affiliate of MN	es as a per IC's worl	rcentage dwide
Industry of U.S. parent	MNC's		MNC's w	orldwide	U.S. parents	Affiliates	MNC's world-	U.S.	Affiliates	MNC's world-	U.S.	Affiliates	Total assets,	Sales	Em- ploy-
•	ber of U.S. par-	Affiliates	Consol- idated 1	Aggre- gated ²	•		wide 3	,		wide	•		aggre- gated 4 (=col.	(=col. 9÷col. 7)	$\begin{array}{c} \text{ment} \\ (= \text{col.} \\ 12 \div \text{col.} \end{array}$
	ents)				Mill	ions of do	lars			Numl	oer of emplo	yees	6÷col. 4)		10)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
All industries.	3,425	23,641	1,818,173	2,033,418	1,543,240	490, 178	2,060,263	1, 412,293	647, 969	26, 081, 327	18, 884, 636	7, 196, 691	24, 1	31, 5	27.
Mining Metal mining Iron	29 11 2	122 46 19	10, 162 4, 562 1, 470	11,511 5,259 (D)	7, 489 2, 894 (D)	4, 022 2, 365 (D)	6,866 2,672 (D)	4, 986 1, 467	1,880 1,205 (D)	106, 484 48, 368 9, 858	65, 342 21, 796 (D)	41, 142 26, 572		45.1	54
Copper, lead, zinc, gold, and silver Bauxite, other ores, and services	6 3	23 4	3, 024 68	3,504 (D)	(D) 50	(D) (D)	1, 850 (D)	(D) 4	(D) (D)	38, 292 218	(D)	(D)	(D) 37.4	(D) 81.6	(D) (D)
Coal and other nonmetallic minerals etroleum Oil and gas extraction	18 158 85	76 2, 227 3 05	5, 600 296, 312 14, 231	6, 252 354, 536 16, 370	4, 595 218, 756 12, 448	1, 657 135, 780 3, 922	4, 194 474, 634 8, 547	3, 519 221, 757 6, 131	675 252, 878 2, 416	58, 116 1, 315, 506 85, 147	43, 546 890, 511 68, 964	424, 99	5 3 8.3	3 53.3	32
Crude petroleum (no refining) and gas- Oil and gas field services Petroleum and coal products	58 27 43	199 106 1,625	11,003 3,228 249,354	12, 722 3, 647	9, 471 2, 976	3, 251 671	6, 140 2, 407 411, 457	4, 144 1, 987	1, 996 420	46, 405 38, 742	37, 340 31, 624	9,06 7,11	5 25. 6 3 18. 4	32.5 1 17.5	19
Integrated refining and extraction Refining without extraction	36 2	1,608	248, 160 755	299, 611 298, 3 65 (D)	181, 603 180, 455 (D)	118, 008 117, 910 (D)	409, 123 (D)	181, 568 179, 389 (D)	229, 889 229, 734 (D)	1, 079, 3 85 (D) 1, 670	717, 685 709, 020 (D)	(D) (D)	39.5	56.2	(D)
Petroleum and coal products, nec Petroleum wholesale trade Other	5 19 11	14 188 109	18, 216 14, 511	22, 513 16, 042	(D) 11,572 13,134	10, 941 2, 909	(D) 42, 252 12, 379	22, 321 11, 736	(D) 19, 9 3 0 64 2	95, 915 55, 059	(D) 57, 638 46, 224		7 48.6	47.2	: 39
Manufacturing Food and kindred products	1, 841 112	15, 316 1, 388	769, 310 56, 296	892, 447 65, 095	633, 416 48, 359	259, 031 16, 736	1,037,157 110,762	739, 460 83, 422	297, 697 27, 340	17, 097, 913 1, 500, 662	11,775,031	1 5, 322, 88	2 29.0	28.7	31
Beverages	1 20	238 206	9, 451 9, 082	10, 619 10, 834	8, 182 7, 847	2, 437 2, 987	19, 132 12, 958	14, 497 9, 679	4, 635 3, 279	276, 985 183, 559	199, 016 122, 782	77, 96 60, 77	9 23. 0 7 27. 0	0 24. 2 5 25. 3	28
Other Chemicals and allied products Industrial chemicals and synthetics	. 61	944 3, 494 1, 280	37, 763 119, 050 69, 243	43, 641 144, 553 82, 346	32, 329 97, 410 54, 958	11, 312 47, 143 27, 388	78, 672 145, 821 80, 203	59, 245 96, 474 53, 985	19, 426 49, 347 26, 218	1, 040, 118 1, 954, 789 997, 058	1, 207, 675 652, 827	747, 11 344, 23	4 32. 6 1 33. 3	6 33.8 3 32.7	38
DrugsSoap, cleaners, and toilet goods Agricultural chemicals	32 42 7	1,204 615 62	23, 581 13, 981 5, 551	31, 160 16, 962 6, 179	20, 258 11, 515 4, 720	10, 902 5, 447 1, 460	27, 464 23, 729 4, 066	16, 423 14, 790 3, 303	8, 939	479, 357 302, 106 26, 985	167, 363	134,74	32.	1 37.7	7 44
OtherPrimary and fabricated metals	52	333 1,544	6, 694 105, 605	7, 905 117, 064	5, 959 87, 073	1,946 29,991	10, 360 119, 639	7, 974 94, 563	2, 386 25, 076	149, 283 1, 942, 214	1 12, 300 1, 484, 236	36,97 457,97	7 24.6 8 25.6	6 23. 0 6 21. 0	$\begin{array}{c c} 24 \\ 25 \\ \end{array}$
Primary metal industriesFerrous	. 44	788 373 415	79, 242 47, 468 31, 775	87, 161 50, 825 36, 336	64, 312 41, 180 23, 132	9,645	82, 575 52, 897 29, 678	66, 152 46, 902 19, 250		1, 275, 533 855, 335 420, 198	732, 657 257, 968	7 122, 67 3 162, 23	8 19.0 0 36 .3	0 11.3 3 35.1	3 14 1 38
Fabricated metal products	322	756 2,452	26, 36 2 103, 403	29, 902 126, 959	22, 760 82, 777		37, 064 126, 403	28, 411 80, 174	8, 652 46, 228	666, 681 2, 308, 887	1		1		
Farm and garden machinery and equipment. Construction and related machinery.	15 53	68	7, 687 20, 181	8, 537 24, 300	6, 276 17, 069	2, 261	9, 178 27, 025	6,559		126, 924	90, 583	36, 34			
Office and computing machines	208	701 1, 172	42, 492 33, 043	56, 450 37, 672	32, 629 26, 804	23, 821 10, 869	47, 858 42, 342	23, 950 31, 455	23, 909 10, 887	860, 638 865, 268	502, 823 639, 940	$\begin{array}{c c} 3 & 357,81 \\ 225,32 \end{array}$	5 42.3 8 28.3	2 50.0 9 25.7	7 2
Electric and electronic equipment Household appliances Radio, television, and communication	223 22	1,556 258	60, 025 7, 230	67, 859 8, 440	46, 749 5, 842		87, 103 11, 928		24, 472 3, 493					8 29.3	3
equipment	44 80 77	366	13,512 5,582 33,701	15, 180 6, 641 37, 598	12, 628 4, 956 23, 323	1,686	20, 442 9, 176 45, 557		2,929	263, 910	157, 109	9 106,80	1 25.	4 31.9	4(
Transportation equipment Motor vehicles and equipment	. 85 47	1, 141 679	164, 801 123, 203	186, 201 139, 484	132, 478 95, 842	53, 723 43, 642	240, 716 181, 105	165, 681 115, 877	75, 035 65, 228	3, 372, 146 2, 200, 811	2, 289, 002 1, 356, 856	$\begin{bmatrix} 1,083,14\\ 843,95 \end{bmatrix}$	4 28.5 5 31.5	9 31.2 3 36.0	2 32
Other manufacturing	. 628	3, 741	160, 130	46, 717 184, 716	36, 636 138, 571	46, 145	59, 611 206, 713		50, 198	4, 086, 530	2, 956, 983	3 1, 129, 54	7 25.	0 24.3	3 2
Tobacco manufactures Textile products and apparel Lumber, wood, furniture, and fixtures	. 98	550	23, 457	15, 001 27, 969 17, 372	11, 229 21, 410 15, 292	6,559	14, 559 30, 054 20, 493	25, 342	4,712	825, 108	667, 75	3 157, 35	5 23.	4 15.7	7 19
Paper and allied products	5.4	389	26, 473 12, 311	30, 098 13, 623 20, 334		2,091	31, 496 16, 071 25, 256	22, 570 13, 734	$\begin{bmatrix} 8,927 \\ 2,337 \end{bmatrix}$	505, 811 300, 467	341, 630 253, 418	0 164, 18 8 47, 04	1 26.1 9 15.	2 28.3 3 14.	3 3
Printing and publishing Rubber products Miscellaneous plastics products Glass products Stone, clay, cement, and concrete	37 12	147	2, 960 6, 985	3, 437 7, 902	2, 677 5, 033	760 2,869	4, 122 8, 868	3, 251 6, 053	872 2,815	83, 657 201, 082	67, 268 131, 090	8 16,38 0 69,99	9 22. 2 36.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 1 3
Instruments and related products Other	- 100	911	20,823	14, 565 25, 319 9, 095	10, 901 18, 031 7, 278	7 288	13, 912 28, 832 13, 049	19, 087	9,745	595, 920	414, 68	8 181, 23	2 I 28.	8 33.5	8 3
TradeWholesale trade	295	1, 419 1, 100	94, 863	103, 243 37, 276	84, 260	18, 983	228, 750	183, 706	45, 044 30, 532	2, 925, 779 377, 044	2, 471, 643	2 454, 13	7 18.	4 19.3 0 28.3	
Nondurable goods	. 181 114	569 531	15, 887 16, 808	18,065	13, 382 13, 826 57, 052	4,683 5,384	37, 516 70, 699	29, 252 48, 431	8, 264 22, 268	176, 495 200, 549	129, 87	9 46, 61 4 59, 43	6 25. 5 28.	0 31.	5 2
Retail trade	600	1,841	412, 126	424, 064	379, 947	44, 117	144, 650	119, 596	25, 054	1, 292, 223	862,00	4 430, 21	9 10.	4 17.	3 3
Finance except banking Insurance Real estate	51 89 18	893	337, 177 2, 320	345, 541	320, 08 2, 10	25, 460 249	123, 446 587	108,088	15, 358	1,002,387	694, 84 6, 16	4 307, 54 7 1, 03	3 7. 8 10.	4 12.	4 3
Holding companies	92 350	2 207	9,862 6,102	11, 176 6, 545	5, 93	5 5,240 6,545	5,118	1,940	3, 178 4, 321	62,860 47,683	15,54	1 47, 31 0 47, 68	9 46. 3 100.	9 62.1 0 100.	$\begin{bmatrix} 1 & 7 \\ 0 & 10 \end{bmatrix}$
Other industries Agriculture, forestry, and fishing Construction	. 13	3 79	2,060	2,403	1,76	3 640	(D)	1,533 17,165	3 25,416 3 (D) 5 (D)	(D) (D)	2, 820, 10 24, 64 283, 47	4 (D)	26. 37.	6 32.	6 6
Construction. Transportation, communication, and public utilities. Transportation	103	2 833 6 573	2 189, 532	194, 676	182, 49	9 12, 177	108,710	100, 314	8, 396			7 171, 73	5 6. 15.		
Transportation Communication and public utilities Services	20	6 26	0 147,568	149, 19	144,05	5 5,136	69,49	65, 112	2 4, 381	(D)	1,089,96	7 (D)	3.	4 6.	3

MNC = multinational company.

D Suppressed to avoid disclosure of data of individual companies.

Defined as worldwide MNC assets after consolidation to eliminate the duplication of assets that reflect intercompany positions between a parent and its affiliate or between 2 affiliates of the same parent. See text for further discussion.

Equals sum of total assets of U.S. parents (column 5) and of their foreign affiliates (column 6), which were reported separately in the 1977 benchmark survey. This sum contains duplication of assets that reflect intercompany positions between a parent and its affiliate or between 2 affiliates of the same parent. See text for further discussion.

Beguals sum of sales of U.S. parents (column 8) and of their foreign affiliates (column 9), which were reported separately in the 1977 benchmark survey. This sum contains duplication because of intercompany sales.

^{4.} Because intercompany positions between parents and affiliates give rise to assets on both the U.S. parents' and foreign affiliates' books, the decision to remove such assets from one set of books or the other in order to eliminate the duplication would be essentially arbitrary. Thus, in calculating U.S. parents' and affiliates' respective shares of worldwide MNC assets, aggregated, rather than consolidated, worldwide assets are used as the denominator.

5. Consists of U.S. parents that are individuals, estates, and trusts. Data for such U.S. parents appear as zeros because these parents were not required to report financial and operating data in the 1977 benchmark survey. Foreign affiliates were not leastified in this caregory; however, when data for affiliates are classified by industry of U.S. parent, the data for the affiliates of such parents are shown against this category.

Note.—In this table, data for U.S. MNC's are only for nonbank MNC's; data for U.S. parents are only for nonbank parents of nonbank affiliates; and data for affiliates are only for nonbank affiliates of nonbank parents.

Comparison of affiliate and parent industries

A majority of foreign affiliates were classified in the same industries as their U.S. parents, or in industries that complemented or were closely related to those of their U.S. parents. This suggests that the classification of a U.S. MNC by industry of U.S. parent, in most cases, provided an adequate description of the major industrial activity of the MNC as a whole.

Table 2 shows total assets of foreign affiliates disaggregated by industry of U.S. parent, cross-classified by industry of the affiliate itself. Affiliates classified in the same industries as their U.S. parents accounted for more than one-half of the assets of all affiliates of U.S. parents in each of the six major industries shown in table 2. Their shares of assets ranged from 84 percent in mining to 52 percent in "other industries."

Affiliates classified in manufacturing accounted for 66 percent of the assets of all affiliates of manufacturing parents. Most of the remaining assets were accounted for by affiliates in trade and in finance (except banking), insurance, and real estate (which includes holding companies); in general, these affiliates' activities complemented the MNC's manufacturing operations—by selling the goods produced, or by obtaining financing for, or holding equity interests in, the manufacturing operations.

Affiliates in petroleum accounted for 79 percent of the assets of all affiliates of petroleum parents. As in manufacturing, most of the remaining assets were accounted for by affiliates in complementary or related industries; affiliates in finance (except banking), insurance, and real estate—mainly finance and holding companies—accounted for 9 percent, and affiliates in chemical manufacturing—particularly in petrochemicals—for 4 percent.

Within manufacturing, the shares of total affiliate assets accounted for by affiliates classified in the same industries as their parents ranged from 69 percent in foods to 34 percent in electrical machinery. In each industry except metals, the remaining assets were largely accounted for by affiliates in

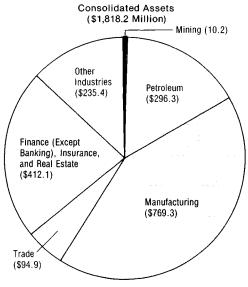
trade and in finance (except banking), insurance, and real estate; in metals, they were largely accounted for by mining affiliates. The share of remaining assets accounted for by finance affiliates was particularly large in transportation equipment, where most MNC's have established separate affiliates to handle the financing of their sales, both to final customers and to dealers. Sales financing is needed in this industry more than in most others, because of the sizeable per-unit expenditure involved in purchases of transportation equipment. In addition, a large portion of final sales are to individuals, who, compared with businesses, tend to rely more heavily on financing provided by sellers. The share of remaining assets accounted for by trade affiliates was particularly large in electrical and nonelectrical machinery.3

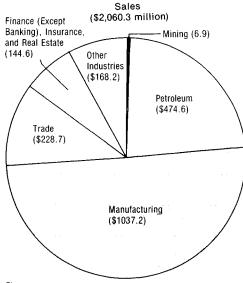
In most industries, affiliates classified in the same industries as their parents accounted for higher percentages of both the sales and employment, than they did of the assets, of all affiliates. The major exception was in finance (except banking), insurance, and real estate, where affiliates in the same industries as their parents accounted for 40 percent of sales and 17 percent of employment, compared to 67 percent of assets. In all other major industries, affiliates in the same industries as their parents accounted for at least 68 percent of the sales and 75 percent of the employment of all affiliates.

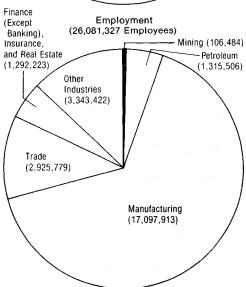
Although, in value terms, a majority of affiliates were classified in the same industries as their parents, many affiliates were not. As a result, the distribution of affiliate assets by industry of U.S. parent (first column of table 2) differed significantly from the distribution of those same assets by industry of the affiliates themselves (first row of table 2). When disaggregated by industry

CHART 11

Worldwide Consolidated Assets, Sales, and Employment of U.S. MNC's, by Industry







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

^{3.} In electrical machinery, the relatively small share of total affiliate assets accounted for by affiliates in electrical machinery, and the relatively large share of remaining assets accounted for by affiliates in trade, may have been partly due to classification problems involving a large, highly diversified, minority-owned affiliate. When this affiliate's report was filed, information from its U.S. parent indicated that it was a trade affiliate; information obtained after publication of the 1977 benchmark survey results indicated that the affiliate probably should have been classified in electrical machinery manufacturing.

try of U.S. parent, affiliate assets were more concentrated in manufacturing and, to some extent, petroleum, and less concentrated in mining, trade, and finance (except banking), insurance, and real estate, than they were when disaggregated by industry of affiliate.

Industrial diverstiy of MNC's

In the 1977 benchmark survey, each U.S. parent and foreign affiliate was required to disaggregate its sales by the industry of the sales themselves. As noted earlier, a parent or affiliate was classified in the one industry in which its sales were largest, even though it may have had significant sales outside that industry.

Table 3 shows, for MNC's, and for parents and affiliates separately, sales that were in their own industries of classification and sales that were in other industries. It also gives industry specialization ratios—defined as the ratio, in percentage terms, of sales in an MNC's, parent's, or affiliate's industry of classification to total sales by the MNC, parent, or affiliate. The higher the ratio, the more specialized are the enterprises classified in the industry.

For MNC's as a whole, specialization ratios in the six major industries shown in table 3 ranged from 72 percent in mining to almost 90 percent in petroleum and trade. In manufacturing, the ratio was 83 percent; however, the ratio was well below this in each manufacturing subindustry. Industry specialization ratios depend, at least in part, on the level of industry aggregation used for data presentation—the ratio will tend to be higher the more aggregated the industry structure used (and hence the larger the number of subindustries included in a subtotal). Accordingly, care should be taken in comparing the ratios, as shown in table 3, for industries that are at different levels of aggregation.

Foreign affiliates had higher specialization ratios than their U.S. parents in nearly every industry shown in table 3. For the six major industries, parent ratios ranged from 67 percent in mining to 91 percent in trade, whereas all affiliate ratios exceeded 92 percent.

Table 2.—Total Assets of Foreign Affiliates, 1977, Industry of U.S. Parent by Industry of Affiliate

							Indust	try of affilia	ite					
							Manu	facturing					Finance (except	
Industry of U.S. parent	All indus- tries	Mining	Petro- leum	Total	Food and kindred products	Chem- ica's and allied products	Primary and fab- ricated metals	Machin- ery, except electrical	Electric and elec- tronic equip- ment	Trans- porta- tion equip- ment	Other manu- facturing	Trade	bank- ing), in- surance, and real estate	Other in dustries
							Milli	ons of dolla	ars					
All industries	490, 178	18, 286	114, 400	190,868	14,176	38,782	21,406	28, 352	17,118	32, 108	38, 926	56, 101	76,775	33,74
Mining	. 4, 022	3, 387	261	(D)	0	0	4	2	0	0	(D)	21	(D)	7
Petroleum	. 135, 780	1,609	107, 428	5, 687	(D)	4,770	413	122	(D)	3	(D)	851	12, 206	7, 99
Manufacturing, total Food and kindred products. Chemicals and allied products. Primary and fabricated metals. Machinery, except electrical. Electric and electronic equipment. Transportation equipment. Other manufacturing	16, 736 47, 143 29, 991 44, 182 21, 110 53, 723	11, 189 0 560 8, 430 (D) (D) (D) (D) 156	2, 246 (D) 959 181 211 111 (D) 110	171, 453 12, 837 35, 653 16, 967 26, 606 9, 166 35, 398 34, 826	12, 868 11, 583 925 (D) 0 (D) 335	33, 582 624 29, 825 (D) 243 (D) 805 1, 148	18, 864 37 1, 009 14, 294 1, 669 301 613 941	27, 399 54 312 520 21, 562 621 3, 045 1, 283	10, 847 (D) (D) 504 (D) 7, 121 578 136	31, 218 (D) (D) 286 (D) 151 29, 911 241	36, 707 429 2, 206 649 1, 479 (D) (D) 30, 742	40, 821 1, 291 5, 681 1, 409 12, 957 8, 553 5, 631 5, 298	26, 015 1, 468 3, 944 1, 897 2, 499 1, 077 10, 948 4, 181	7,30 (D) 34 1,10 (D) (D) (D) 84 1,57
Trade	18, 983	(D)	242	(D)	829	279	605	126	58	(D)	532	12, 095	2, 866	870
Finance (except banking), insurance, and real estate		1,589	306	8, 048	392	(D)	1, 067	540	(D)	(D)	674	1, 696	29, 753	2,72
Other industries	28, 246	(D)	3 , 917	3 , 170	(D)	(D)	453	163	(D)	(D)	671	616	(D)	14, 77
			Assets	of affiliate	es in each i	ndustry as	a percenta	ge of assets	of all affili	iates of par	ents in a gi	ven indus	try	··
All industries	100.0	3,8	23, 3	38, 9	2, 9	7.9	4, 4	5,8	3, 5	6.6	7.9	11,5	15, 7	6.9
Mining	. 100.0	84. 2	6.5	(D)	0	0	0.1	0.1	0	0	(D)	0.5	(D)	1.8
Petroleum	100.0	1.2	79. 1	4. 2	(D)	3 . 5	0. 3	0.1	(D)	(*)	(D)	0.6	9.0	5. 9
Manufacturing, total Food and kindred products Chemicals and allied products Primary and fabricated metals Machinery, except electrical Electric and electronic equipment Transportation equipment Other manufacturing	100. 0 100. 0 100. 0 100. 0 100. 0	4. 3 0 1. 2 28. 1 (D) (D) (D) 0. 3	0.9 (D) 2.0 0.6 0.5 0.5 (D) 0.2	66. 2 76. 7 75. 6 56. 6 60. 2 43. 4 65. 9 75. 5	5. 0 69. 2 2. 0 (D) 0 0 (D) 0. 7	13. 0 3. 7 63. 3 (D) 0. 6 (D) 1. 5 2. 5	7. 3 0. 2 2. 1 47. 7 3. 8 1. 4 1. 1 2. 0	10. 6 0. 3 0. 7 1. 7 48. 8 2. 9 5. 7 2. 8	4. 2 (D) (D) 1. 7 (D) 33. 7 1. 1 0. 3	12.1 (D) (D) 1.0 (D) 0.7 55.7 0.5	14. 2 2. 6 4. 7 2. 2 3. 4 (D) (D) 66. 6	15. 8 7. 7 12. 1 4. 7 29. 3 40. 5 10. 5 11. 5	10. 0 8. 8 8. 4 6. 3 5. 7 5. 1 20. 4 9. 1	(D) 0.7 3.7 (D) (D) 1.6 3.4
Trade	100.0	(D)	1. 3	(D)	4.4	1.5	3. 2	0.7	0.3	(D)	2.8	63. 7	15. 1	4. 6
Finance (except banking), insurance, and real estate.	100.0	3.6	0.7	18. 2	0.9	(D)	2.4	1.2	(D)	(D)	1.5	3.8	67.4	6. 2
Other industries	. 100.0	(D)	13 . 9	11.2	(D)	(D)	1.6	0.6	(D)	(D)	2.4	2. 2	(D)	52. 3

^(*) Less than 0.05 percent.
(D) Suppressed to avoid disclosure of data of individual companies.

Note. -In this table, data for affiliates are only for nonbank affiliates of nonbank parents.

Table 3.—Sales by U.S. MNC's Worldwide, and by U.S. Parents and Foreign Affiliates, 1977, by Industry: Total, Amount in Industry of Classification, and Amount in Other Industries

[Millions of dollars]

		MNC'	s worldw	ride			U.S.	parents					Affiliates	5	
Industry of MNC, U.S. parent, or affiliate	Total sales	Sales in in- dustry of MNC 1 2 3	Sales in other speci- fied indus- tries ²	Sales in un- speci- fied indus- tries ²	Sales in in- dustry of MN C as per- cent- age of total ¹	Total sales	Sales in in- dustry of U.S. parent 12	Sales in other speci- fied indus- tries 2	Sales in un- speci- fied indus- tries ²	Sales in in- dustry of U.S. parent as per- cent- age of total	Total sales ⁴	Sales in in- dustry of affil- iate 124	Sales in other speci- fied indus- tries 2 4	Sales in un- speci- fied indus- tries 2 4	Sales in in- dustry of affil- iate as per- cent- age of total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
All industries		2, 025, 634	0	34,629	98. 3	1, 412, 293	1, 378, 756	0	33, 537	i i	647, 969	646, 877	0	1,092	99.8
Mining. Metal mining Iron. Copper, lead, zinc, gold, and silver. Bauxite, other ores, and services. Coal and other nonmetallic minerals. Petroleum Oil and gas extraction Crude petroleum (no refining) and gas Oil and gas field services. Petroleum and coal products. Integrated refining and extraction. Refining without extraction Petroleum and coal products, nec Petroleum wholesale trade Other	6, 866 2, 672 (D) 1, 850 (D) 4, 194 474, 634 8, 547 6, 140 2, 407 411, 457 409, 123 (D) 42, 252 12, 379	4, 952 2, 241 (D) (D) 2, 209 421, 783 6, 297 4, 157 1, 732 250, 616 (D) (D) 24, 384 7, 736	1, 914 431 (D) (D) (D) 1, 985 51, 951 2, 250 1, 983 675 159, 978 193, 124 (D) (D) 17, 868 4, 604	900 900 900 863 863 863 38	72. 1 83. 9 81. 3 58. 2 94. 8 52. 7 88. 9 73. 7 71. 9 60. 9 52. 6 60. 8 57. 7 62. 5	4, 986 1, 467 (D) 4 3, 519 221, 757 6, 131 4, 144 1, 987 181, 568 179, 389 (D) (D) 22, 321 11, 736	3, 356 1, 118 (D) (D) 3 2, 151 192, 303 5, 055 3, 400 1, 413 151, 182 149, 219 (D) (D) 17, 382 7, 699	1, 630 348 (D) (D) (D) 1, 368 28, 558 1, 076 745 573 29, 528 29, 312 (D) 4, 940 3, 999	0 0 0 0 0 895 0 0 858 858 0 0 0	67. 3 76. 3 77. 7 53. 5 73. 8 61. 1 86. 7 82. 5 82. 0 71. 1 83. 3 83. 2 97. 6 97. 6 65. 6	9, 611 7, 662 2, 154 2, 788 2, 720 1, 949 237, 346 20, 962 27, 806 3, 156 112, 877 69, 089 43, 032 757 76, 587 16, 920	8, 911 7, 118 (D) (D) 2, 472 1, 713 234, 413 30, 577 27, 561 3, 016 107, 503 67, 485 39, 297 722 74, 474 14, 950	700 544 (D) (D) 248 236 2,930 385 245 140 5,370 1,601 3,735 34 2,113 1,971	(*) 0 0 0 0 (*) 4 0 0 0 0 4 4 4 0 0	92. 7 92. 9 (D) (D) 90. 9 87. 9 98. 8 99. 1 95. 2 97. 7 91. 3 95. 4 97. 2 88. 4
Manufacturing Food and kindred products. Grain mill and bakery products. Beverages. Other Chemicals and allied products. Industrial chemicals and synthetics. Drugs. Soap, cleaners, and toilet goods. Agricultural chemicals. Other. Primary and fabricated metals. Primary metal industries. Ferrous. Nonferrous. Fabricated metal products.	1, 037, 157 110, 762 19, 132 12, 958 78, 672 145, 821 80, 203 27, 464 23, 729 4, 066 10, 360 119, 639 82, 575 52, 897 29, 678 37, 064	862, 948 83, 716 12, 301 8, 804 50, 140 94, 457 42, 417 14, 616 13, 255 2, 005 6, 543 79, 440 49, 254 33, 394 14, 243 21, 664	145, 394 22, 909 6, 400 (D) (D) 47, 388 34, 625 12, 341 10, 281 (D) 37, 662 31, 055 18, 589 14, 083 15, 129	28, 816 4, 137 482 (D) (D) 3, 976 6, 160 507 194 (D) (D) 2, 537 2, 266 914 1, 351 271	83. 2 75. 6 64. 3 67. 9 63. 7 52. 9 53. 2 55. 9 49. 3 63. 2 66. 4 59. 6 63. 1 48. 0 58. 5	739, 460 83, 422 14, 497 9, 679 59, 245 96, 474 53, 985 16, 423 14, 790 3, 303 7, 974 94, 563 66, 152 46, 902 19, 250 28, 411	649, 942 63, 417 9, 565 6, 187 39, 147 63, 594 30, 002 8, 430 7, 966 1, 704 4, 922 66, 318 42, 724 31, 717 9, 826 17, 414	61, 709 15, 879 4, 503 (D) 28, 943 20, 853 (D) 6, 631 (D) 25, 741 21, 185 14, 271 8, 096 10, 736	27, 810 4, 126 430 (D) (D) 3, 937 3, 129 (D) (D) (D) (D) 2, 503 2, 243 914 1, 329 260	87. 9 76. 0 66. 0 63. 9 66. 1 65. 9 55. 6 51. 3 53. 9 51. 6 61. 7 70. 1 64. 6 67. 6 51. 0 61. 3	246, 325 25, 604 6, 641 3, 413 15, 550 43, 326 20, 103 7, 930 7, 930 20, 035 9, 857 3, 153 6, 705 10, 177	233, 730 24, 505 5, 678 3, 164 13, 645 40, 003 17, 351 7, 045 6, 331 1, 855 5, 053 18, 106 9, 126 2, 840 6, 282 8, 790	11, 593 1, 076 961 (D) (D) 3, 286 2, 735 (D) 1, 034 (D) (D) 1, 835 729 310 423 1, 296	1,003 24 3 (D) (D) 37 17 (D) (*) (D) (*) (D) (D) (D) (D) (D) (D) (D) (D	94. 9 95. 7 85. 5 92. 7 87. 8 92. 3 86. 3 88. 8 86. 0 82. 9 88. 8 90. 4 92. 6 90. 1 93. 7 86. 4
Machinery, except electrical. Farm and garden machinery and equipment. Construction and related machinery. Office and computing machines. Other. Electric and electronic equipment. Household appliances. Radio, television, and communication equip.	126, 403 9, 178 27, 025 47, 858 42, 342 87, 103 11, 928	79, 869 5, 635 14, 952 28, 935 23, 266 47, 062 6, 895	42, 754 3, 543 11, 198 18, 621 16, 475 35, 235 4, 886	3,779 0 875 303 2,601 4,805 147	63. 2 61. 4 55. 3 60. 5 54. 9 54. 0 57. 8	80, 174 6, 559 18, 211 23, 950 31, 455 62, 631 8, 436	56, 884 4, 416 11, 112 17, 643 18, 657 37, 369 5, 161	19,657 2,142 6,245 6,074 10,252 20,696 3,127	3, 633 0 854 233 2, 546 4, 566 147	71. 0 67. 3 61. 0 73. 7 59. 3 59. 7 61. 2	33, 046 3, 446 7, 169 14, 116 8, 31 5 22, 326 3, 962	29, 834 2, 892 6, 621 11, 839 7, 667 20, 345 2, 845	3,013 554 541 2,115 620 1,713 919	199 0 8 163 28 268 198	90. 3 83. 9 92. 3 83. 9 92. 2 91. 1 71. 8
ment. Electronic components and accessories Other Transportation equipment Motor vehicles and equipment Other	20, 442 9, 176 45, 557 240, 716 181, 105 59, 611	8, 966 6, 062 14, 963 178, 013 143, 062 29, 290	11.290 3,048 26,188 58,315 37,240 26,736	186 66 4,406 4,387 803 3,585	43. 9 66. 1 32. 8 74. 0 79. 0 49. 1	16, 723 6. 247 31, 225 165, 681 115, 877 49, 804	8, 254 4, 201 12, 536 131, 418 100, 381 27, 047	8, 284 1, 981 14, 522 30, 023 14, 798 19, 215	185 66 4, 167 4, 240 697 3, 542	49. 4 67. 2 40. 1 79. 3 86. 6 54. 3	7,594 5,115 5,656 57,788 54,884 2,904	6,832 4,486 4,718 49,102 46,152 2,806	762 629 867 8,576 8,627 92	0 0 71 111 105 6	90. 0 87. 7 83. 4 85. 0 84. 1 96. 6
Other manufacturing Tobacco manufactures Textile products and apparel Lumber, wood, furniture, and fixtures Paper and allied products Printting and publishing Rubber products Miscellaneous plastics products Glass products Stone, clay, cement, and concrete Instruments and related products Other	206, 713 14, 559 30, 054 20, 493 31, 496 16, 071 25, 256 4, 122 8, 868 13, 912 28, 832 13, 049	150, 101 7, 809 20, 646 10, 829 19, 824 12, 096 16, 331 2, 317 5, 902 7, 625 16, 086 7, 341	51, 420 6, 676 7, 343 9, 290 10, 940 3, 922 8, 410 1, 315 2, 955 6, 083 12, 110 5, 674	5, 193 75 2, 065 375 733 53 515 490 12 205 637 34	72. 6 53. 6 68. 7 52. 8 62. 9 75. 3 64. 7 56. 6 54. 8 55. 8	156, 516 10, 845 25, 342 18, 218 22, 570 13, 734 16, 401 3, 251 6, 053 10, 409 19, 087 10, 607	117, 085 5, 870 18, 150 9, 673 14, 551 11, 032 10, 274 1, 778 3, 843 5, 568 11, 937 5, 960	34, 626 4, 900 5, 127 8, 171 7, 625 2, 649 5, 629 982 2, 199 4, 638 6, 541 4, 615	4, 805 75 2, 065 374 394 52 499 490 12 203 609 32	74. 8 54. 1 71. 6 53. 1 64. 5 80. 3 62. 6 54. 7 63. 5 53. 5 62. 5 56. 2	44, 200 2, 114 4, 004 2, 295 8, 101 1, 527 7, 459 1, 585 2, 828 3, 183 7, 192 3, 913	40, 689 2, 109 3, 782 1, 873 6, 966 1, 359 6, 453 1, 448 2, 550 2, 767 5, 869 3, 665	3, 241 5 220 383 1, 077 167 989 135 270 394 1, 205 244	270 0 2 39 57 1 17 2 8 21 118 4	92. 1 99. 7 94. 5 81. 6 86. 0 89. 0 86. 5 91. 3 96. 9 81. 6
Trade. Wholesale trade. Durable goods. Nondurable goods. Retail trade. Finance (except banking), insurance, and real estate. Finance, except banking. Insurance. Real estate. Holding companies. Individuals, estates, and trusts ⁸ . Other industries. Agriculture, forestry, and fishing. Construction.	228, 750 108, 215 37, 516 70, 699 120, 536 144, 650 11, 178 123, 446 587 5, 118 4, 321 168, 204 (D)	204, 890 89, 658 28, 409 54, 835 109, 992 117, 449 6, 300 101, 888 1, 932 0 140, 639 (D)	22, 334 17, 084 8, 624 14, 873 10, 489 24, 407 (D) 18, 796 139 (D) 4, 321 26, 974 (D) 8, 052	1, 527 1, 473 482 991 54 2, 794 (D) 2, 761 (D) (*) 592 (D) 87	89. 6 82. 9 75. 7 77. 6 91. 3 81. 2 56. 4 82. 5 76. 4 37. 7 0 83. 6 50. 1 70. 4	183,706 77,683 29,252 48,431 106,023 119,596 9,051 108,088 517 1,940 0 142,789 1,533 17,165	166, 618 64, 830 22, 730 37, 024 97, 475 107, 502 5, 665 95, 804 425 1, 929 0 123, 265 790 12, 549	15, 580 11, 399 6, 045 10, 431 8, 494 9, 350 (D) 9, 574 92 (D) 18, 943 (D) 4, 529	1,508 1,454 478 976 54 2,743 (D) 2,711 0 (D) 581 (D)	90. 7 83. 5 77. 7 76. 4 91. 9 89. 9 62. 6 88. 6 82. 2 99. 4 0 86. 3 51. 5 73. 1	102, 997 84, 733 45, 139 39, 594 18, 263 14, 746 3, 682 10, 072 195 797 0 36, 945 1, 463 10, 021	99, 001 80, 792 41, 554 35, 865 17, 382 14, 660 3, 627 10, 069 190 762 0 35, 796 1, 358 9, 693	3, 934 3, 879 3, 527 3, 725 881 86 55 3 5 0 1, 126 (P) 327	62 62 59 4 (*) 0 0 0 0 0 0 0 0 0 (P)	96. 1 95. 3 92. 1 90. 6 95. 2 99. 4 98. 5 100. 0 97. 6 95. 6 0 96. 9 92. 8 96. 7
Transportation, communication, and public utilities. Transportation. Communication and public utilities. Services.	108, 710 39, 217 69, 493 29, 752	88, 402 28, 671 59, 109 24, 622	(D) (D) (D) 5, 129	(D) (D) (D)	81. 3 73. 1 85. 1 82. 8	100, 314 35, 202 65, 112 23, 777	86, 112 27, 563 58, 335 19, 920	(D) (D) (D) 3,857	(D) (D) (D)	85, 8 78, 3 89, 6 83, 8	13, 205 3, 403 9, 803 12, 256	12, 589 3, 284 9, 306 11, 829	(D) (D) (D) 437	(D) (D) (D) (•)	95. 3 96. 5 94. 9 96. 4

MNC = multinational company.

* Less than \$500,000.

D Suppressed to avoid disclosure of data of individual companies.

1. When a subtotal of sales in several subindustries is given in column 2, 7, or 12 of this table, the subtotal shows sales by the MNC's worldwide, the U.S. parents, or the affiliates, respectively, in all subindustries included in the subtotal, not just in the single subindustry in which the MNC, parent, or affiliate is classified. Thus, sales in a subtotal may be larger than the sum of sales in the subindustries below the subtotal.

2. For each U.S. parent and foreign affiliate, a distribution of sales by 3-digit BEA industry was recuired in the 1977 benchmark survey. However, only the 8 largest industry categories for U.S. parents, and the 5 largest for affiliates, had to be specified. If a given parent (or affiliate) had sales in more than 8 (or 5) 3-digit categories, its reported distribution of sales would have covered less than 100 percent of its total sales. Sales in unspecified industries are shown

in columns 4, 9, and 14. In a subtotal in column 2, 7, or 12 of this table, sales in unspecified industries are excluded.

3. In this article, the industry of classification of an MNC as a whole is the industry of the U.S. parent.

4. Column 1, which is equal to the sum of U.S. parent data and foreign affiliate data, both by industry of U.S. parent, is not equal to the sum of columns 6 and 11, because the foreign affiliate data in column 11 are by industry of affiliate. Similarly, columns 2, 3, and 4 do not equal the sums of columns 7 and 12, 8 and 13, and 9 and 14, respectively.

5. See footnote 5, table 1.

Note.—In this table, data for U.S. MNC's are only for nonbank MNC's; data for U.S. parents are only for nonbank parents of nonbank affiliates; and data for affiliates are only for nonbank affiliates of nonbank parents.

Table 4.—Sales by U.S. MNC's Worldwide, and by U.S. Parents and Foreign Affiliates, 1977, by Industry of Classification and by Industry of Sales

			Millions	of dollars]	Percentage	distributio	n	
	MNC's v	vorldwide	U.S. p	arents	Affil	iates	MNC's	worldwide	U.S. p	arents	Affi	liates
Industry	Sales, by industry of MNC 1	Sales, by industry of sales 2	Sales, by industry of U.S. parent	Sales, by industry of sales ²	Sales, by industry of affili- ate	Sales, by industry of sales ²	Sales, by industry of MNC ¹		Sales, by industry of U.S. parent	Sales, by industry of sales 2	Sales, by industry of affili- ate	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
All industries.	L	2, 060, 263	1, 412, 293	1, 412, 293	647, 969	647,969	100, 0	100.0	100, 0	100, 0	100.0	100. 0
Mining. Metal mining Iron Copper, lead, zinc, gold, and silver Bauxite, other ores, and services Coal and other nonmetallic minerals. Petroleum Oil and gas extraction. Crude petroleum (no refining) and gas. Oil and gas field services. Petroleum and coal products. Integrated refining and extraction.	2, 672 (D) 1, 850 (D) 4, 194 474, 634 8, 547 6, 140 2, 407 411, 457 409, 123	20, 697 11, 314 2, 863 4, 661 3, 790 9, 383 452, 658 42, 611 35, 110 7, 501 272, 907 228, 067	4, 986 1, 467 (D) (D) 4 3, 519 221, 757 6, 131 4, 144 1, 987 181, 568 179, 389	11, 467 3, 857 719 2, 121 1, 017 7, 611 214, 110 11, 412 7, 034 4, 378 164, 263 160, 535	9, 611 7, 662 2, 154 2, 788 2, 720 1, 949 237, 346 30, 962 27, 806 3, 156 112, 877 69, 089	9, 170 7, 371 2, 117 2, 517 2, 738 1, 798 236, 423 30, 806 27, 700 3, 106 108, 140 67, 625	.3 .1 (D) .1 (D) .2 23.0 .4 .3 .1 .20.0 19.9	1.0 .5 .1 .2 .5 22.0 2.1 1.7 .4 13.2 11.1	.4 .1 (D) 0 .2 15.7 .4 .3 .1 12.9 12.7 (D)	.8 .3 .1 .2 .1 .5 15.2 .8 .5 .3 .11.6	1.5 1.2 3.4 4.3 36.6 4.8 4.3 .5 17.4	1.4 1.1 3.4 .4 .4 .3 36.5 4.8 4.3 .57
Refining without extraction Petroleum and coal products, nec Petroleum wholesale trade Other	(D) 42, 252	42, 034 2, 806 106, 624 30, 516	(D) (D) 22, 321 11, 736	1, 721 2, 007 26, 667 11, 768	43, 032 757 76, 587 16, 920	39, 715 800 78, 932 18, 545	(D) 2.1 .6	2. 0 .1 5. 2 1. 5	(D) 1.6 .8	1.9 .8	6.6 .1 11.8 2.6	6. 1 12. 2 2. 9
Manufacturing. Food and kindred products Grain mill and bakery products. Beverages. Other. Chemicals and allied products. Industrial chemicals and synthetics. Drugs. Soap, cleaners, and toilet goods. Agricultural chemicals Other.	110, 762 19, 132 12, 958 78, 672 145, 821 80, 203 27, 464 23, 729 4, 066	944, 472 108, 396 25, 014 13, 327 70, 054 135, 157 68, 529 18, 430 18, 923 10, 218 19, 057	739, 460 83, 422 14, 497 9, 679 59, 245 96, 474 53, 985 16, 423 14, 790 3, 303 7, 974	707, 970 83, 063 18, 042 10, 037 54, 984 92, 112 49, 238 10, 894 11, 779 7, 665 12, 536	246, 325 25, 604 6, 641 3, 413 15, 550 43, 326 20, 103 7, 930 7, 365 2, 238 5, 690	237, 841 25, 526 6, 992 3, 310 15, 224 43, 033 19, 341 7, 497 7, 118 2, 568 6, 509	50.3 5.4 .9 .6 3.8 7.1 3.9 1.3 1.2 .2	45.8 5.3 1.2 .6 3.4 6.6 3.3 .9 .9	52.4 5.9 1.0 .7 4.2 6.8 3.8 1.2 1.0	50.1 5.9 1.3 .7 3.9 6.5 3.5 .8 .8	38.0 4.0 1.0 .5 2.4 6.7 3.1 1.2 1.1 .3	1.1
Primary and fabricated metals Primary metal industries Ferrous Nonferrous Fabricated metal products	82, 575 52, 897 29, 678	106, 581 62, 051 39, 898 22, 152 44, 530	94, 563 66, 152 46, 902 19, 250 28, 411	87, 132 52, 390 36, 942 15, 449 34, 742	20, 035 9, 857 3, 153 6, 705 10, 177	19,760 9,878 3,169 6,710 9,882	5.8 4.0 2.6 1.4 1.8	5. 2 3. 0 1. 9 1. 1 2. 2	6. 7 4. 7 3. 3 1. 4 2. 0	6. 2 3. 7 2. 6 1. 1 2. 5	3. 1 1. 5 .5 1. 0 1. 6	1.0
Machinery, except electrical. Farm and garden machinery and equipment. Construction and related machinery Office and computing machines. Other. Electric and electronic equipment. Household appliances. Radio, television, and communication equipment. Electronic components and accessories. Other. Transportation equipment. Motor vehicles and equipment. Other.	9, 178 27, 025 47, 858 42, 342 87, 103 11, 928 20, 442 9, 176 45, 557 240, 716 181, 105	117, 471 13, 964 24, 800 33, 441 45, 267 77, 705 12, 293 24, 721 14, 722 25, 970 196, 736 155, 713 41, 023	80, 174 6, 559 18, 211 23, 950 31, 455 62, 631 8, 436 16, 723 6, 247 31, 225 165, 681 115, 877 49, 804	84, 141 9, 740 17, 247 20, 804 36, 351 55, 976 9, 041 17, 547 9, 141 20, 247 147, 191 109, 118 38, 073	33, 046 3, 446 7, 169 14, 116 8, 315 22, 326 3, 962 7, 594 5, 115 5, 656 57, 788 54, 884 2, 904	33, 410 4, 228 7, 559 12, 590 9, 033 21, 789 3, 266 7, 186 5, 561 5, 777 49, 817 46, 647 3, 170	6. 1 . 4 1. 3 2. 3 2. 1 4. 2 . 6 1. 0 . 4 2. 2 11. 7 8. 8 2. 9	5.7 1.2 1.6 2.2 3.8 .6 1.2 2.7 1.3 9.5 7.6 2.0	1.7 2.2 4.4 .6 1.2 .4 2.2 11.7 8.2	1. 5 2. 6 4. 0 . 6 1. 2 . 6 1. 4 10. 4 7. 7	.6 1.2 .8 .9 8.9	1. 1. 1. 3. 1. 7.
Other manufacturing Tobacco manufactures Textile products and apparel Lumber, wood, furniture, and fixtures Paper and allied products Printing and publishing Rubber products Miscellaneous plastics products Glass products Stone, clay, cement, and concrete Instruments and related products Other	14, 559 30, 054 20, 493 31, 496 16, 071 25, 256 4, 122 8, 868 13, 912 28, 832	27, 464	156, 516 10, 845 25, 342 18, 218 22, 570 13, 734 16, 401 3, 251 6, 053 10, 409 19, 087 10, 607	158, 355 6, 705 24, 010 16, 301 27, 283 14, 197 11, 470 7, 177 6, 309 9, 132 20, 541 15, 230	44, 200 2, 114 4, 004 2, 295 8, 101 1, 527 7, 459 1, 585 2, 828 3, 183 7, 192 3, 913	44, 505 2, 180 3, 935 2, 339 8, 103 1, 535 6, 747 2, 258 2, 638 3, 188 6, 961 4, 590	1. 0 1. 5 .8 1. 2 .2 .4 .7 1. 4	.9 1.7 .8 .9 .5 .4 .6 1.3	.8 1.8 1.3 1.6 1.0 1.2 .2 .4 .7	.5 1.7 1.2 1.9 1.0 .8 .5 .4 .6	.3 .6 .4 1.3 .2 1.2 .2 .4 .5	1. 1. 1. 1. 1.
Trade Wholesale trade Durable goods Nondurable goods Retail trade Banking Finance (except banking), insurance, and real estate Finance, except banking Insurance Real estate Holding companies Individuals, estates, and trusts 3. Other industries Agriculture, forestry, and fishing Construction Transportation, communication, and public utilities Transportation Communication and public utilities Services	228, 750 108, 215 37, 516 70, 699 120, 536 11, 178 123, 446 123, 446 124, 321 168, 204 (10) 108, 710 39, 217 69, 493	182, 544 92, 182 90, 362 133, 772 1, 218 130, 065 14, 195 109, 832 2, 967 3, 071 194, 835 3, 991 27, 434 112, 095 37, 679 74, 416	142, 789 1, 533 17, 165 100, 314 35, 202 65, 112	0 155, 804 2, 407 17, 239 99, 487 34, 269	102, 997 84, 733 45, 139 39, 594 18, 263 0 14, 746 3, 682 10, 072 195 797 0 36, 945 1, 463 10, 021 13, 205 3, 403	3 14, 914 3, 844 10, 990 214 767 0 39, 523 1, 577 10, 160 13, 109 9, 513	5.3 1.84 5.9 0 7.0 5.5 6.0 2.2 8.2 (D) (D) 5.3 1.9 3.4	8.9 4.44 6.5 6.3 7 5.3 1 9.5 1.3 5.4 1.8 3.6	5.5 2.1 3.4 7.5 0 8.5 6 7.7 10.1 1.1 2.5 4.6	6. 4 2. 8 8. 2 1 8. 2 7 7. 1 2 0 11. 0 2 1. 2 7. 0 2 2 2 2 2 2 2 2 2 2 4 2 2 2 4 2 2 2 2	13. 1 7. 0 6. 1 2. 8 0 2. 3 . 6 1. 6 0 5. 7 . 2 1. 5 2. 0 . 5 1. 5	14. 8. 6. 6. 2. 9 0 2. 1 1. 0 0 6. 1. 1. 2. 1

sales for which no industry was specified were allocated among industries in the same proportion as the shares of these industries in sales for which an industry was specified. The unspecified sales were thus given the same distribution as the specified sales.

3. See fortnote 5, table 1.

NOTE.—In this table, data for U.S. MNC's are only for nonbank MNC's; data for U.S. parents are only for nonbank parents of nonbank affiliates; and data for affiliates are only for nonbank affiliates of nonbank parents.

MNC = multinational company.

D Suppressed to avoid disclosure of data of individual companies.

1. For an MNC as a whole, the industry of classification in this article is the industry of the U.S. parent.

2. For each U.S. parent and foreign affiliate, a distribution of sales by 3-digit BEA industry was required in the 1977 benchmark survey. However, only the 8 largest industry categories for U.S. parents, and the 5 largest for foreign affiliates, had to be specified. If a given parent (or affiliate) had sales in more than the 8 (or 5) 3-digit categories specified, its reported distribution of sales would have covered less than 100 percent of its total sales. In columns 2, 4, and 6,

Within manufacturing, most parent ratios ranged from 50 to 80 percent, whereas nearly all affiliate ratios exceeded 80 percent. The higher affiliate ratios partly reflected the fact that, as discussed in the next section, affiliates tended to be much smaller than their U.S. parents. Smaller companies are generally less diversified than larger ones, because, in most cases, only the larger ones can simultaneously produce a number of different products on an economically efficient scale. In addition, the types of capital, labor, and natural resources available for production and thus the types of goods that can be profitably produced by a given company—are more limited in many foreign countries than in the United States.

The higher specialization ratios for affiliates also partly reflected the lower level of consolidation permitted, in the 1977 benchmark survey, for affiliates than for their U.S. parents. In general, for a multi-industry enterprise, the lower the level of consolidation, the higher the ratio. In the benchmark survey, affiliates in a given country could be consolidated only if they were in the same industry or were integral parts of the same business operation. In contrast, U.S. parents were defined as fully consolidated domestic enterprises, and corporations required to be consolidated with the parents were not limited as to industry classification.4

Because of industrial diversity, analyses of the industry distribution of MNC's based solely on data disaggregated by industry of classification may be misleading. The extent to which this is the case is indicated by comparing the distribution of MNC sales by industry of classification with that by industry of the sales themselves. For MNC's as a whole, and for U.S. parents and foreign affiliates separately, the distribution of sales by industry of classification did not differ significantly from

that by industry of sales, at least for most major industries (table 4). In general, industries that had large percentage differences in sales between the two distributions accounted for small shares of total sales. For most other industries, gains and losses of sales due to redistribution of sales from industries of classification to industries of the sales themselves were largely offsetting.

For MNC's as a whole, manufacturing accounted for 50 percent of total sales by industry of classification and 46 percent of total sales by industry of sales; the comparable percentages for trade MNC's were 11 and 15 percent, respectively. The shares for petroleum MNC's were virtually identical—23 percent and 22 percent, respectively. Among petroleum subindustries, however, there were significant, but nearly offsetting, differences in shares between the two distributions. The share of petroleum and coal products was higher— 20 percent compared to 13 percent—and the shares of petroleum wholesale trade, oil and gas extraction, and "other petroleum" somewhat lower, when sales were distributed by industry of classification rather than by industry of sales.

Size of MNC's

MNC's as a whole

The distribution of the worldwide consolidated assets of U.S. MNC's by asset size class was highly skewed—a small number of MNC's accounted for a disproportionately large share of assets (table 5 and chart 12). The 62 largest MNC's—those with worldwide consolidated assets of at least \$5 billion each—accounted for less than 2 percent of the number, but for 50 percent of the consolidated assets, of all MNC's. At the other end of the distribution, 54 percent of MNC's had consolidated assets below \$50 million each, but they accounted for less than 2 percent of total MNC consolidated assets. For all MNC's, average consolidated assets were about \$530 million, while median consolidated assets were under \$50 million.

The asset size distribution of U.S. MNC's was skewed in each major industry as well. In manufacturing, MNC's with consolidated assets of at

least \$5 billion accounted for 1 percent of the number, but for 32 percent of the consolidated assets, of all manufacturing MNC's. In finance (except banking), insurance, and real estate, MNC's with at least \$5 billion of consolidated assets accounted for 4 percent of the number, but for 72 percent of the consolidated assets, of all MNC's. In petroleum, they accounted for 10 percent of the number, but 78 percent of the consolidated assets.

Of total consolidated assets of the 62 largest MNC's, finance (except banking), insurance, and real estate—mainly insurance—accounted for about one-third. The relatively large assets of insurance MNC's reflected the sizable financial investments that these companies made with the revenues obtained from policy premiums. (However, in most cases, these companies' liabilities, which consist primarily of expected claims against policies, were almost as large as their assets, so that net assets tended to be small.)

Manufacturing and petroleum each accounted for about one-fourth of the consolidated assets of the 62 largest MNC's. Of the manufacturing total, 46 percent was in transportation equipment, 15 percent in nonelectrical machinery, 13 percent in chemicals, and 12 percent in metals.

The 62 largest MNC's accounted for 42 percent of the sales and 29 percent of the employment—compared with 50 percent of the consolidated assets—of all MNC's. Their much smaller share of employment reflected the fact that many of these MNC's were classified either in finance (except banking), insurance, and real estate or in petroleum, which are industries with relatively low ratios of employment to total assets.

US. parents and foreign affiliates

The asset size distributions of U.S. parents and of foreign affiliates were also highly skewed toward the larger parents or affiliates (table 6).

For U.S. parents, the distribution was roughly similar to that for the MNC's as a whole. There were 50 parents with assets of at least \$5 billion each; they accounted for 1 percent of the number, but 47 percent of the assets,

^{4.} In addition, if a U.S. corporation was normally excluded from full consolidation in reports to stockholders because its operations were largely unrelated to those of the owning enterprise, the benchmark survey nevertheless required it to be consolidated (or aggregated, if consolidation would have caused an undue burden) with the owning enterprise. See technical note for further explanation.

of all U.S. parents. In addition, the distribution was skewed in each major industry, as shown in table 6. Parents with assets of at least \$5 billion accounted for 1 percent of the number, but 26 percent of the assets, of all manufacturing parents; 4 percent of the number, but 74 percent of the assets, of all parents in finance (except banking), insurance, and real estate; and 7 percent of the number, but 66 percent of the assets, of all petroleum parents. Of the assets of the 50 largest parents, finance (except banking), insurance, and real estate accounted for 39 percent, manufacturing for 23 percent, and petroleum for 20 percent.

Primarily because foreign affiliates served smaller markets than their U.S. parents, the average asset size of affiliates was considerably smaller than that of parents-\$21 million compared with \$451 million. As a result, foreign affiliates were much more highly concentrated in the smaller size classes shown in table 6. Only 1 affiliate out of 23,641 had assets of at least \$5 billion. Nevertheless, the skewness of the affiliates' asset size distribution is evident. There were 837 affiliates with assets of \$100 million or more each. They accounted for 4 percent of the number, but 59 percent of the assets, of all affiliates. By industry, they accounted for 3 percent of the number, but 48 percent of the assets, of all manufacturing affiliates; 12 percent of the number, but 81 percent of the assets, of all petroleum affiliates; and 6 percent of the number, but 65 percent of the assets, of all affiliates in finance (except banking), insurance, and real estate. Of the assets of the 837 largest affiliates, petroleum and manufacturing each accounted for 32 percent; finance (except banking), insurance, and real estate and "other industries" each accounted for about 18 percent.

Location of MNC Operations

U.S. and foreign operations compared

In terms of assets, U.S. MNC's generally had significantly larger operations in the United States than abroad. Of total MNC aggregated assets of \$2,033.4 billion, U.S. parents acounted for 76 percent and foreign affiliates 24 percent (table 1). Aggregated rather than consolidated assets are used in this discussion because of the difficulty in calculating shares based on the latter. As noted above, intercompany positions between a parent and affiliate give rise to assets on the books of both enterprises; a decision to remove these assets from the books of one enterprise or the other to calculate the parents' and affiliates' respective shares of the totals, would have been highly arbitrary.

When MNC aggregated assets were classified by industry of U.S. parent, the affiliate shares of the industry totals so obtained were highest—38 and 35 percent, respectively-in petroleum and mining. In these industries, companies often need to operate abroad in order to secure natural resource supplies.

Affiliate shares were lowest-11 and 10 percent, respectively—in finance (except banking), insurance, and real estate and in "other industries." In the

Table 5.—Selected Data of U.S. MNC's Worldwide, 1977, Industry of U.S. Parent by Size of MNC's Worldwide Consolidated Assets

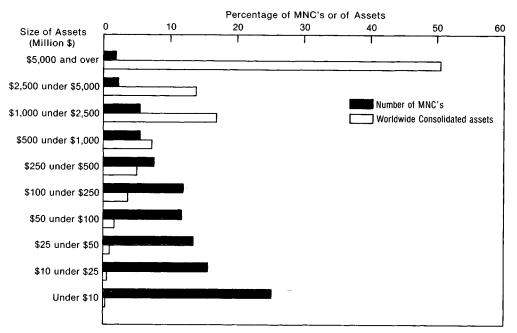
		Worldwide	total assets		Worldwide
Industry of U.S. parent and size of MNC's worldwide consolidated assets	Number of MNC's	Consoli- dated ¹	Aggre- gated ²	Worldwide sales ³	employ- ment
		Mi	llions of doll	ars	Number of employees
All industries Under \$10 million \$10 million under \$25 million \$25 million under \$25 million \$25 million under \$20 million \$100 million under \$250 million \$250 million under \$250 million \$250 million under \$250 million \$300 million under \$2.5 billion \$300 million under \$2.5 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$300 million under \$250 million \$350 million under \$300 million \$350 million under \$300 million \$350 million under \$300 million \$350 million under \$300 million \$350 million under \$300 million \$350 million under \$300 million \$350 million under \$300 million \$350 million under \$300 million \$350 million under \$300 million \$350 million under \$300 million \$350 million under \$300 million \$350 million under \$300 million	360 52 30 28 30 24 21 23	1, 818, 173 3, 457 8, 830 16, 651 29, 320 64, 706 90, 113 130, 840 304, 592 251, 612 918, 053 296, 312 899 189 1511 1, 792 4, 733 6, 073 8, 755 15, 845 26, 232 232, 093 769, 310 1, 564 5, 577 10, 620 17, 25, 843 194, 044 123, 164 249, 496 412, 126 829 829 849, 866 1, 066 1, 967 5, 091 8, 726 15, 147 41, 298 39, 866 297, 331 340, 424	2,033,418 4,018 9,842 18,694 32,788 71,791 100,974 145,889 344,764 283,633 1,021,026 354,536 127 5,252 7,053 9,954 18,194 29,767 281,319 892,447 1,781 1,894 19,432 244,223 62,559 83,246 225,282 144,090 293,760 424,064 965 5,490 9,052 2,286 6,019	2,060,263 6,083 14,667 27,317 48,660 96,876 131,926 188,004 384,635 2290,950 871,146 474,634 114 136 258 1,439 5,742 7,650 9,832 16,773 36,313 396,378 1,037,157 2,801 17,396 27,675 60,164 82,905 60,164 82,905 109,177 273,245 152,147 302,427 144,650 806 805 722 1,293 2,434 3,831 5,782 8,575 1,575 15,778 8,575 15,778 8,575 15,778 8,575 15,778 8,575 15,778 8,575 15,778 8,575 15,778 8,575 15,778 8,575 15,778 8,575 15,778 8,575 15,778 8,575 15,778 8,575 15,778 8,575 15,778 8,575 15,778 8,186 8,186 8,186 8,186	26, 081, 327 155, 231 291, 364 558, 539 959, 842 1, 797, 994 2, 199, 782 2, 850, 279 5, 819, 648 1, 046 1, 046 2, 282 4, 593 14, 906 33, 164 44, 754 39, 533 81, 969 120, 033 973, 223 17, 097, 913 64, 37 202, 252 359, 543 1, 187, 896 4, 683, 381 1, 1879, 896 4, 683, 381 1, 292, 223 3, 164, 675 1, 183, 655 1, 640, 653 1, 1879, 896 4, 683, 381 1, 2432, 923 4, 100, 988 1, 292, 223 1, 292, 233 1, 3, 683 2, 3, 683 2, 3, 683 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3
Under Industries Under \$10 million \$10 million under \$25 million \$25 million under \$50 million \$50 million under \$100 million \$100 million under \$200 million \$250 million under \$250 million \$250 million under \$500 million \$500 million under \$50 billion \$1.0 billion under \$2.5 billion \$2.5 billion under \$5.0 billion \$3.5 billion under \$5.0 billion	195 136 124 109 98 58 49	340, 424 974 2, 197 4, 514 8, 136 15, 203 20, 417 34, 094 53, 405 62, 351 139, 132	362, 372 1, 145 2, 470 5, 064 9, 064 16, 825 22, 310 36, 670 59, 368 68, 375 141, 082	403, 821 2, 362 4, 456 8, 941 18, 253 28, 536 37, 539 63, 826 79, 041 86, 710 74, 155	5, 373, 636 75, 784 185, 431 364, 069 554, 014 465, 240 880, 172 927, 513 1, 301, 458 1, 555, 598

MNC = multinational company.

NOTE.—In this table, data for U.S. MNC's are only for nonbank MNC's.

^{1.} See footnote 1, table 1.
2. Equals sum of total assets of U.S. parents and of their foreign affiliates, as reported in the 1977 benchmark survey. This sum contains duplication of assets that reflect intercompany positions between a parent and its affiliate or between 2 affiliates of the same parent. See text for further discussion.
3. Equals sum of sales of U.S. parents and of their foreign affiliates, as reported in the 1977 benchmark survey. This sum contains duplication because of intercompany sales.

Number and Worldwide Consolidated Assets of U.S. MNC's, by Asset Size



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

81-10-12

CHART 12

former, the low share was mainly attributable to affiliates of MNC's in insurance. Insurance MNC's have tended to concentrate their overseas efforts on reinsuring policies written by unaffiliated foreign companies, rather than on establishing affiliates to write insurance policies directly. In some countries, foreign ownership of insurance companies is restricted or prohibited. In addition, per capita purchases of insurance generally have been lower abroad than in the United States. In "other industries," the affiliate share was particularly low in transportation, communication, and public utilities industries that are often government owned or controlled abroad, so that opportunities for foreign investment are relatively limited.

The affiliate share of MNC assets in manufacturing, which accounted for 44 percent of all MNC aggregated assets, was 29 percent. Among the major industries within manufacturing, the affiliate shares were highest in nonelectrical machinery (35 percent) and lowest in food, metals, and "other manufacturing" (about 25 percent each).

In general, large U.S. parent com-

panies tended to have relatively large total foreign operations, as measured by the combined assets of each parent's foreign affiliates; conversely, small U.S. parent companies tended to have relatively small total foreign operations (table 7). For example, of the 281 U.S. parents in the three largest size classes i.e., parents with assets of \$1 billion or more each—79 percent had foreign operations with combined assets of \$100 million or more, whereas 8 percent had foreign operations with combined assets of under \$25 million; a majority of the large parents with large foreign operations were in manufacturing. In contrast, of the 1,955 U.S. parents in the 3 smallest size classes—i.e., parents with assets under \$50 million each—less than 1 percent had foreign operations with combined assets of \$100 million or more, whereas 95 percent had foreign operations with combined assets of under \$25 million.

Area distribution of the foreign operations

By area, more U.S. MNC's had foreign affiliates in developed countries than in developing countries; 2,592 MNC's had affiliates in developed countries and 1,870 had affiliates in developing countries (table 8). There were 187 MNC's with affiliates in "international"—i.e., with affiliates whose operations spanned more than one country and that were engaged in oil and gas drilling, petroleum shipping, other water transportation, or petroleum trading. (If an MNC had affiliates in more than one area, the MNC was counted once in each area. Thus, the sum of MNC's with affiliates in the three major areas exceeds the total number of MNC's. For the same reason, the number of MNC's in the other country or industry cells in table 8 may not add to the subtotals or totals of those countries or industries.)

By country, Canada was host to the largest number of U.S. MNC's—1,907. The United Kingdom was second with 1,238. Other countries where a large number of U.S. MNC's had affiliates were Germany (821), France (689), and Mexico (660).

In terms of assets, the foreign operations of U.S. MNC's were also more heavily concentrated in developed countries than in developing countries. Almost three-fourths of affiliates' assets-\$359.6 billion out of \$490.2 billion—were in these countries (tables 9 and 10). Of the developed countries total, manufacturing affiliates accounted for 42 percent, petroleum affiliates for 21 percent, and affiliates in trade and in finance (except banking), insurance, and real estate for about 13 percent each. Assets of Canadian affiliates at \$86.2 billion, were larger than those of affiliates in any other single country. Manufacturing accounted for about one-third of their assets, and petroleum and finance (except banking), insurance, and real estate for about one-fifth each. In Europe, affiliates had assets of \$206.6 billion. The European Communities (9) accounted for about 80 percent of the assets, of which over one-half were in manufacturing; the United Kingdom, Germany, and France had the largest shares. Japanese affiliates had assets of \$41.8 billion.

Assets of affiliates in developing countries were \$115.8 billion. These assets were less concentrated in manufac-

turing and trade, and more concentrated in finance (except banking), insurance, and real estate, than were assets of affiliates in developed countries. The greater concentration of assets in finance (except banking), insurance, and real estate largely reflected the tendency of MNC's to locate their finance and holding company affiliates in certain developing countries—Bermuda, the Netherlands Antilles, and Panama, in particular—in response to incentives, such as tax benefits, offered by the countries. Almost two-thirds of all assets in developing countries were in Latin America; assets were largest in Brazil

and Bermuda—with just over \$17 billion each. Most of the assets in Brazil were in manufacturing, while most of those in Bermuda were in finance (except banking), insurance, and real estate.

The number, sales, and employment, as well as the assets, of affiliates were heavily concentrated in developed countries; affiliates in these countries accounted for 66 percent of the number, and 69 percent of both the sales and the employment, of all affiliates.

The geographical diversity of individual U.S. MNC's is reflected in table 11, which shows the number of MNC's

Table 6.—Number and Total Assets of U.S. Parents and of Foreign Affiliates, 1977, Industry of U.S. Parent or Affiliate by Size of Total Assets

	U.S. p	arents	Affili	ates
Industry and size of total assets of U.S. parent or affiliate	Number of U.S. parents	Total assets (millions of dollars)	Number of affiliates	Total assets (millions of dollars)
All industries. Under \$10 million \$10 million under \$25 million. \$25 million under \$50 million \$30 million under \$100 million \$100 million under \$250 million \$250 million under \$250 million \$250 million under \$500 million \$500 million under \$50 billion \$1.0 billion under \$2.5 billion \$2.5 billion under \$5.0 billion \$3.5 billion under \$5.0 billion \$5.0 billion under \$5.0 billion	3, 425 1, 002 516 437 369 391 243 186 169 62 50	1, 543, 240 3, 025 8, 592 15, 858 26, 989 62, 344 84, 557 132, 167 278, 179 211, 355 720, 175	23, 641 17, 525 3, 090 1, 342 847 529 176 87 39	490, 178 48, 189 48, 820 46, 474 59, 466 80, 844 60, 521 59, 339 60, 765 (D)
Petroleum Under \$10 million \$10 million under \$25 million \$25 million under \$50 million \$50 million under \$100 million \$100 million under \$250 million \$250 million under \$250 million \$250 million under \$300 million \$100 million under \$250 million \$250 million under \$10 billion \$1,0 billion under \$2,5 billion \$1,0 billion under \$2,5 billion \$2,5 billion under \$5,0 billion \$3,0 billion under \$5,0 billion \$3,0 billion under \$5,0 billion	158 22 15 14 17 30 16 12 11 10	218, 756 84 274 493 1, 337 5, 096 5, 653 8, 158 18, 706 34, 291 144, 664	1, 927 1, 148 280 160 117 120 57 29 13 3 0	114,400 3,158 4,588 5,650 8,305 18,977 19,893 20,686 (D)
Manufacturing Under \$10 million \$10. million under \$25 million \$25 million under \$50 million \$50 million under \$100 million \$100 million under \$250 million \$250 million under \$250 million \$250 million under \$500 million \$250 million under \$500 million \$250 million under \$1.0 billion \$1.0 billion \$2.5 billion \$2.5 billion under \$5.0 billion \$3.0 billion under \$5.0 billion	110 107	633, 416 1, 726 5, 676 10, 544 16, 756 38, 725 50, 916 78, 820 171, 832 94, 457 163, 963	9,702 6,701 1,605 683 405 212 55 28 13 0 0	190, 868 22, 502 25, 424 23, 536 28, 378 32, 171 19, 066 18, 961 20, 829 0
Finance (except banking), insurance, and real estate Under \$10 million \$10 million under \$25 million. \$25 million under \$50 million. \$50 million under \$100 million \$100 million under \$250 million. \$250 million under \$250 million. \$250 million under \$500 million. \$500 million under \$50 million. \$1.0 billion under \$2.5 billion. \$2.5 billion under \$2.5 billion. \$2.5 billion under \$5.0 billion.	425 22 21 15 25 24 18	379, 947 205 361 746 1, 178 4, 363 8, 809 13, 161 37, 280 31, 413 282, 431	2, 353 1, 514 366 193 137 88 32 15 6 2 0	76,775 4,114 5,937 6,733 9,806 13,289 11,334 9,485 (D)
Other industries Under \$10 million \$10 million under \$25 million \$25 million under \$50 million \$50 million under \$100 million \$100 million under \$100 million \$250 million under \$500 million \$250 million under \$500 million \$500 million under \$1.0 billion \$1.0 billion under \$2.5 billion \$2.5 billion under \$2.5 billion \$2.5 billion under \$5.0 billion	114 104 91 - 53 - 46	311, 121 1, 010 2, 282 4, 074 7, 719 14, 161 19, 179 32, 028 50, 360 51, 193 129, 116	9,659 8, 162 839 306 188 109 32 15 7 0	108, 134 18, 415 12, 872 10, 555 12, 978 16, 407 10, 228 10, 207 (D)

D Suppressed to avoid disclosure of data of individual companies.

with affiliates in various numbers of countries. Overall, MNC's were not highly diversified geographically. Of the 3,425 MNC's, 49 percent had affiliates in only 1 country and 31 percent in only 2 to 5 countries; in contrast, 10 percent of the MNC's had affiliates in 6 to 10 countries, 7 percent in 11 to 20 countries, and 4 percent in more than 20 countries. The single most geographically diversified MNC had affiliates in 86 countries.

Among the industries shown in table 11, the geographical diversity of MNC's varied considerably. MNC's in chemical manufacturing were the most diversified. Compared with other industries, the percentage of MNC's that had affiliates in only 1 country was the lowest—26 percent—in this industry. Also in this industry, the percentage of MNC's that had affiliates in more than 20 countries was the highest—19 percent. Other industries in which MNC's were highly diversified geographically were food and transportation equipment manufacturing, and petroleum.

MNC's in finance (except banking), insurance, and real estate and in trade were the least geographically diversified. Compared with other industries, the percentages of MNC's that had affiliates in only 1 country were the highest—77 and 59 percent, respectively—and the percentages that had affiliates in more than 20 countries were the lowest—about 1 percent each—in these industries.

U.S. Parent's Percentage Ownership of Foreign Affiliates

As noted previously, ownership by a U.S. person of 10 percent or more of the voting securities, or the equivalent, of a foreign business enterprise is considered evidence of the lasting interest, in or degree of influence over the management of, the enterprise that characterizes U.S. direct investment abroad. However, U.S. parents may not have actual control over the operations of a foreign business enterprise until their ownership exceeds 50 percent. A foreign affiliate in which the combined ownership of all U.S. parents exceeds 50 percent is referred to as a majorityowned foreign affiliates (MOFA).

 $[\]label{eq:Note:encoder} \textbf{Note:}.-- \textbf{In this table, data for U.S. parents are only for nonbank parents of nonbank affiliates and data for affiliates are only for nonbank affiliates of nonbank parents.}$

Of the 23,641 affiliates, 19,524—or 83 percent—were majority owned; 4 percent were owned at least 10 but under 25 percent, 8 percent were owned at least 25 but under 50 percent, and 5 percent were owned exactly 50 percent (table 12). MFA's accounted for 74 percent of total affiliates assets. Their shares of sales and employment were 80 and 78 percent, respectively. Wholly owned affiliates—those owned 100 per-

cent by their U.S. parents—accounted for 86 percent of the number and 79 percent of the assets of all MOFA's. Their share of sales was 82 percent and of employment 75 percent.

The remainder of this section discusses data only for the larger MOFA's—those with assets, sales, or net income over \$3 million (see addendum to table 12). In the 1977 benchmark survey, much more detailed data were collected for this group of affiliates than for any other. The larger MOFA's accounted for 61 percent of the number, but for almost all of the value, of all MOFA's. As a result, their

shares of the assets, sales, and employment of all affiliates, regardless of ownership—72, 78, and 75 percent, respectively—were only slightly lower than the corresponding shares for all MOFA's.

By industry, the shares of total affiliate assets accounted for by the larger MOFA's were lowest in mining (49 percent) and metal manufacturing (47 percent) (tables 9 and 13). In many countries, mining and the primary metal industries were subject either to government restrictions on, or to strong national sentiment against, ma-

(Text continued on p. 53)

Table 7.—Number of U.S. Parents in Various Asset Size Classes, 1977, Industry of U.S. Parent by Size of the Combined Assets of the U.S. Parent's Foreign Affiliates

			Numbe	r of U.S. pare	nts having af	filiates whose	combined as	ssets are:	
Industry and size of total assets of U.S. parent	Number of U.S. parents, total	Under \$10 million	\$10 million under \$25 million	\$25 million under \$50 million	\$50 million under \$100 million	\$100 million under \$250 million	\$250 million under \$500 million	\$500 million under \$1.0 billion	\$1. 0 billion and over
All industries. Under \$10 million. \$10 million under \$25 million. \$25 million under \$50 million. \$50 million under \$50 million. \$100 million under \$250 million. \$250 million under \$500 million. \$250 million under \$500 million. \$300 million under \$500 million. \$500 million under \$2.50 billion. \$1.0 billion under \$2.50 billion. \$2.5 billion under \$2.50 billion. \$3.0 billion under \$3.0 billion.	3, 425 1, 002 516 437 369 391 243 186 169 62 50	2,003 908 445 289 175 117 37 20 10 2	465 55 52 103 97 88 38 21 4 5	270 21 11 28 62 75 42 19 8 8	212 9 6 13 28 65 45 23 16 5	193 7 2 2 5 38 57 52 22 4 4	106 1 0 1 2 7 16 35 36 4 4	84 0 0 0 0 1 7 13 44 14	9 2 2 2 3
Petroleum Under \$10 million Under \$10 million \$25 million \$10 million under \$25 million \$25 million under \$50 million \$50 million under \$100 million \$100 million under \$250 million \$250 million under \$500 million \$300 million under \$1.0 billion \$1.0 billion under \$2.5 billion \$2.5 billion under \$2.5 billion \$2.5 billion under \$5.0 billion \$3.0 billion under \$5.0 billion	158 22 15 14 17 30 16 12 11 10	63 21 10 7 12 7 3 2 1 0 0	22 1 3 2 2 8 4 2 0 0 0	18 0 1 2 3 7 3 2 0 0	12 0 1 3 0 4 1 0 2 0 1	9 0 0 0 3 1 3 2 0	8 0 0 0 0 1 2 1 1 2 1	9 0 0 0 0 0 2 1 4 2	1
Manufacturing Under \$10 million \$10 million under \$25 million \$25 million under \$50 million \$50 million under \$500 million \$30 million under \$100 million \$200 million under \$250 million \$250 million under \$500 million \$300 million under \$1.0 billion \$3.0 billion under \$2.5 billion \$3.0 billion under \$2.5 billion \$3.0 billion under \$5.0 billion	1,841 326 340 288 233 245 150 110 107 28 14	1,013 319 306 193 105 69 14 7 0 0	259 7 29 74 71 51 20 6 1	153 0 4 17 39 54 25 8 5 1 0	124 0 1 3 18 46 33 15 6 2	111 0 0 0 0 0 21 45 34 10	74 0 0 1 0 3 11 29 29 1 0	52 0 0 0 1 2 9 34 6	2 1 1
Finance (except banking), insurance, and real estate. Under \$10 million \$10 million under \$25 million \$25 million under \$50 million \$50 million under \$50 million \$100 million under \$250 million \$250 million under \$250 million \$250 million under \$500 million \$300 million under \$1.0 billion \$1.0 billion under \$2.5 billion \$3.0 billion under \$2.5 billion \$3.0 billion under \$3.0 billion \$3.0 billion under \$3.0 billion	600 425 22 21 15 25 24 18 20 9	415 360 14 10 4 9 9 2 7 7 0 0	71 34 4 5 3 7 5 6 3 2 2	35 17 0 2 5 1 3 2 2 1 2	27 8 3 2 0 6 3 4 0 1	25 5 1 1 1 2 2 2 2 6 1	6 0 0 2 0 1 0 1 0 2 2 0 2 2 0 2 0 2 0 1 0 0 1 0 1	12 0 0 0 0 0 0 1 2 1 3 5	
Other industries. Under \$10 million \$10 million under \$25 million \$25 million under \$50 million \$50 million under \$100 million \$100 million under \$100 million \$100 million under \$250 million \$250 million under \$500 million \$500 million under \$500 million \$500 million under \$1.0 billion \$500 million under \$5.0 billion \$500 million under \$5.0 billion	826 229 139 114 104 91 53 46 31 15	512 208 115 79 54 32 11 9	113 13 16 22 21 22 9 7 0 3	64 4 6 7 15 13 11 7 1 0	49 1 1 5 10 9 8 4 8 2	48 2 1 1 4 12 9 13 4 2	18 1 0 0 0 3 2 5 5 1	11 0 0 0 0 0 0 0 2 1 5 3 0	1: (((((((((((((((((((

Note.—In this table, data for U.S. parents are only for nonbank parents of nonbank affiliates

^{5.} If more than one U.S. parent owned at least 10 percent of a foreign affiliate, the ownership percentages of all the parents were combined in table 12. However, in 1977, only 346 affiliates—just over 1 percent of all affiliates—had multiple U.S. parents.

Table 8.—Number of U.S. MNC's That Had Foreign Affiliates in Given Countries and Industries, 1977, Country by Industry of Affiliate 1

]						Manufa	eturing	, — — — — — — — — — — — — — — — — — — —				Finance	
Country of affiliate	All indus- tries	Mining	Petro- leum	Total	Food and kindred products	Chemicals and allied products	Primary and fabri- cated metals	Machin- ery, except elec- trical	Elec- tric and elec- tronic equip- ment	Trans- porta- tion equip- ment	Other manu- factur- ing	Trade	(except bank- ing), insur- ance, and real estate	Other indus- tries
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
All countries	3, 425	106	271	1,861	162	302	389	412	270	128	815	1, 292	745	924
Developed countries	2, 592	56	155	1,475	106	251	301	364	197	94	620	1,063	45 8	585
Canada	1, 907	53	158	1,004	80	162	199	157	113	65	405	584	222	291
Europe. European Communities (9) Belgium. Denmark. France. Germany. Ireland. Italy Luxembourg. Netherlands. United Kingdom Other Europe.	2, 412 2, 199 510 151 689 821 142 439 47 501 1, 238	25 19 1 0 2 1 2 0 0 0 3 3	146 123 14 11 11 27 11 16 5 29 62 52	1, 404 1, 313 241 344 342 414 102 244 13 215 710	95 88 13 7 26 27 13 17 1 21 43 36 7	235 220 61 8 80 18 60 2 54 124 86	283 265 31 4 58 67 11 27 1 36 122 52	343 326 46 2 71 92 15 48 7 42 169 53	187 176 20 6 31 47 9 30 1 13 91	88 81 6 1 21 22 3 14 0 6 6 34 23	583 540 78 10 115 147 37 69 4 70 257	976 876 206 83 297 364 19 155 6 203 392 374	412 316 34 4 50 46 10 15 24 61 152 167	519 450 100 22 133 111' 77 9 233
Austria Greece Norway Portugal Spain Sweden Switzerland Turkey Other	124 73 124 61 305 222 464 28 93	0 1 2 0 2 0 0 1	4 5 26 4 14 5 16 6	37 33 25 33 188 76 93 13	7 3 1 3 24 4 3 3 0	10 11 8 14 57 19 18 3	1 3 3 2 22 22 12 7 7 0 3	5 0 0 1 20 16 16 2	3 2 3 13 4 14 2 2	1 0 0 2 13 4 0 0	10 13 11 8 57 21 38 3 7	70 24 53 22 73 119 237 5	7 7 4 3 19 8 126 0	2: 4: 3: 10:
Japan	540	0	15	293	26	88	39	51	34	12	88	242	24	81
Australia, New Zealand, and South Africa. Australia New Zealand South Africa.	702 599 140 276	37 27 2 11	35 25 9 7	374 302 66 148	34 27 10 12	92 73 25 52	51 34 5 21	67 53 4 22	36 25 7 13	24 20 3 9	132 105 13 33	273 197 50 97	73 56 10 17	12- 10- 13- 33
Developing countries	1,870	73	177	1,009	109	195	188	185	157	76	410	590	474	47
Latin America South America Argentina Brazil Chile Colombia Ecuador Peru Venezuela Other Central America Mexico Panama Other Other Western Hemisphere Bahamas Bermuda Netherlands Antilles Trinidad and Tobago Other	1, 465 776 200 472 57 165 61 105 277 70 660 168 197 531 100 227 112 55 155	63 40 11 14 13 0 6 1 6 24 17 1 13 2 2 0 0 1 0 8	124 90 111 1122 7 7 23 10 13 19 19 19 32 2 12 10 10 14 49 9 9 9 10 114 7	831 506 143 316 27 99 28 43 161 28 578 512 22 21 114 132 66 17 65	96 61 13 25 3 9 7 6 6 23 7 61 47 47 24 22 20 0 22 19	177 137 50 80 12 41 7 155 54 9 123 115 10 36 227 2 0 2 6 14	159 91 14 38 4 8 3 4 14 5 92 82 0 6 17 0 0	151 102 14 60 2 8 0 3 12 2 78 45 0 4 11 0 0 2	111 61 9 34 2 7 3 4 11 2 76 70 11 11 11 0 0 3 7	70 46 16 23 1 4 2 3 15 2 44 40 0 0 0 0 0 0	331 193 37 95 55 27 7 8 44 197 162 5 5 37 51 3 2 2 2 2	445 273 34 88 12 26 16 33 37 71 113 199 112 26 43 21 26 6 7	426 130 111 53 3 111 4 3 24 9 110 38 66 12 2299 44 185 82 4 31	333 155 2:77 7, 4 1:157 7, 33 50 12(2) 22(2) 133
Other Africa Saharan Egypt Libya Other Sub-Saharan Liberia Nigeria Other	219 83 43 23 51 184 32 59 128	15 0 0 0 0 15 4 0	52 39 25 17 22 37 3 20 25	73 20 1 2 16 64 1 14 56	10 4 0 0 4 8 0 1	13 4 1 0 2 11 0 7	11 3 0 0 3 10 0 1	10 3 0 1 2 7 0 0 0 6	6 1 0 0 1 6 0 2 5	3 0 0 0 0 3 0 0	29 5 0 1 4 27 1 3 21	42 10 4 2 9 38 3 14 26	26 3 1 0 2 24 14 1 11	55 18 12 44 12 14 12 20
Middle East	289 67 214 111 139 36	3 0 3 2 1 0	53 2 46 27 32 9	90 41 50 33 16 8	12 5 6 3 3 2	25 11 15 12 3 0	11 4 5 4 1	9 2 8 5 2 1	11 7 5 4 1 1	7 3 3 2 1 1	26 14 10 4 5 2	56 11 40 19 24 9	26 10 13 4 9 5	107 13 91 44 67
Other Asia and Pacific Hong Kong India Indonesia Malaysia Philippines Singapore South Korea Taiwan Thailand Other	224 117 114 83 168 170 61 105 82	10 0 0 5 2 1 0 0 4 2	84 6 8 45 11 15 19 5 9 8	338 64 99 40 39 94 59 37 69 38 28	27 2 2 3 4 18 6 5 4 8 2	70 14 32 18 9 30 10 12 14 12	39 4 11 3 3 7 10 1 1 4 1	50 6 22 1 2 2 10 2 1 0 3	75 20 11 4 16 8 12 8 33	12 1 4 1 1 3 2 3 4 1 1	98 19 21 11 6 29 10 6 13 10	219 108 7 6 26 38 65 7 24 28	69 31 2 4 3 16 13 5 5 4	13: 44: 22: 10: 28: 30: 11: 13: 14:
International	187	1	55	19	2	2	1	3	2	1	8	19	6	10:
Addendum-OPEC 2	531	6	77	228	31	61	27	22	16	17	73	132	47	14

 $MNC\!=\!$ multinational company.
1. A U.S. MNC that had affiliates in more than one country or industry is counted once in each country or industry in which it had affiliates. Thus, the numbers appearing in individual country/industry cells do not add to the subtotals and totals.

Note.—In this table, data for U.S. MNC's are only for nonbank MNC's.

^{2.} Members of the Organization of Petroleum Exporting Countries (OPEC) are: Algeria' Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigerian, Qatar, Saudi Arabia' Venezuela, and United Arab Emirates.

Table 9.—Selected Data of Foreign Affiliates, 1977, by Country of Affiliate

		All a	ffiliates		Majorit	y-owned affil	iates 1	Majority-ow centa	ned affiliates ge of all affili	ates a per-
Country of affiliate	Number of	Total assets	Sales	Employ- ment	Total assets	Sales	Employ- ment	Total	Sales	Employ-
. •	affiliates	Millions	of dollars	Number of employees	Millions	of dollars	Number of employees	assets		ment
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
All countries	23, 641	490, 178	647, 969	7, 196, 691	352, 357	597, 019	5, 368, 826	71.9	78, 2	74.
eveloped countries	15, 603	359, 583	449, 015	4, 980, 691	256, 233	338, 336	3,817,712	71,3	75, 4	76.
Canada	3, 271	86, 223	94, 876	1, 064, 467	74, 384	84, 658	915, 740	86.3	89. 2	86.
Europe	9, 940	206, 605	276, 275	3, 110, 471	157, 800	220, 213	2, 532, 118	76.4	79.7	81.
European Communities (9)	7,686	164, 950	225, 909	2, 688, 914	130, 287	183, 849	2, 245, 221	79.0	81.4	83.
Denmark	.1 202	12, 091 1, 947	16, 998 3, 452	157, 002 20, 317	10, 344 1, 640	14, 768 3, 052	123, 785 15, 822	85.6 84.2	86. 9 88. 4	78 77
France Germany	1, 227 1, 368	24, 315 37, 796	34, 747 60, 435	470, 886 587, 405	17, 481 28, 922	28, 509 48, 026	359, 992 507, 721	71. 9 76. 5	82. 0 79. 5	76 86
Ireland	208	2,084	2,009	27, 555	1, 918	1,836	23, 944	92.0	91. 4	86
Italy Luxembourg	. 68	12, 218 1, 294	15, 899 696	212, 848 7, 548	10, 339 1, 087	14, 067 661	179, 244 7, 353	84.6 84.0	88. 5 95. 0	84 97
Netherlands	821	18, 486	27,008	136, 063	12, 380	17,070	101, 746	67.0	63, 2	74 86
United KingdomOther Europe	2, 254	54, 719 41, 655	64, 666 50, 366	1, 069, 290 421, 577	46, 176 27, 513	55, 860 36, 364	925, 614 286, 897	84. 4 66. 1	86. 4 72. 2	68
Austria	182	2, 542 849	3, 180 1, 498	32, 129 16, 601	1, 269 658	2, 282 1, 346	21, 596 13, 012	49.9 77.5	71. 8 89. 9	678 78
Norway	178	5, 784	3,945	21, 632	4, 128	3, 419	17, 939	71.4	86. 7	85
PortugalSpain		576 11, 890	803 12, 202	19, 372 216, 721	438 4, 769	669 5, 674	12, 489 130, 981	76.1 40.1	83, 3 46, 5	8- 6-
Sweden	296	4,044	4,921	42,864	3, 014	4, 156	32, 938	74.5	84.5	7: 8:
Switzerland Turkey		14, 179 674	21, 373 1, 079	47, 109 14, 566	11, 851 492	16, 627 950	38, 767 11, 514	83. 6 73. 0	77. 8 88. 0	79
Other	137	1, 117	1, 364	10, 563	895	1, 240	7, 661	80.1	90. 9	72
Japan	870	41, 776	51,895	389, 123	6, 710	13, 232	65, 507	16. 1	25. 5	16
Australia, New Zealand, and South AfricaAustralia	1, 522 929	24, 979 18, 336	25, 970 18, 125	416, 630 269, 344	17, 339 13, 374	20, 233 14, 452	304, 347 206, 124	69. 4 72. 9	77. 9 79. 7	73
New Zealand South Africa	180 413	1, 022 5, 621	1, 393 6, 453	21, 245 126, 041	812 3, 152	1, 168 4, 613	15, 839 82, 384	79. 5 56. 1	83. 9 71. 5	74 65
eveloping countries		115,822	183, 219	2, 175, 096	83, 103	154, 260	1,515,734	71.8	84. 2	69
Latin America.	1	75, 041	l '	1, 347, 036	54, 665	58, 208	964, 601	72.8	79.4	71
South America	2,094	31, 717	73, 287 35, 331	771,000	23, 534	29, 463	605, 815	72.8 74.2	83. 4	78
Argentina Brazil	. 767	2, 959 17, 331	4, 075 19, 340	108, 039 435, 661	2, 585 13, 384	3, 615 16, 630	95, 442 352, 570	87.3 77.2	88. 7 86. 0	88
Chile	. 72	397 1, 914	610 2, 410	10, 121 61, 276	335 1, 407	533	7, 995 40, 253	84.5	87. 3 77. 6	6
Ecuador	. 80	463	629	9, 622	332	1, 869 514	5, 659	73. 5 71. 7	81.7	5
Peru Venezuela		1, 725 6, 135	1, 021 6, 436	26, 324 101, 241	1, 554 3, 300	867 4, 713	20, 156 68, 561	90. 1 53. 8	85. 0 73. 2	7
Other.	. 110	794	810	18, 716	637	723	15, 179	80.2	89. 2	8
Central America. Mexico	1, 752 1, 078	14, 831 9, 515	15, 083 10, 833	480, 374 370, 115	8, 482 4, 289	9, 264 5, 860	285, 895 202, 815	57. 2 45. 1	61, 4 54, 1	5 5
Panama	246	3,482	1,681	20, 828	3, 053	1, 340	15, 233	87.7	79.7	7
Other Western Hemisphere	. 1 958	1, 834 28, 493	2, 569 22, 873	89, 431 95, 6 2	1, 140 22, 648	2, 064 19, 481	67, 847 72, 891	62. 2 79. 5	80. 3 85. 2	7
Bahamas Bermuda	145 342	1, 974 17, 241	2, 425 14, 414	7, 595 2, 481	1, 770 12, 959	2, 367 11, 925	6, 402 1, 765	89. 7 75. 2	97. 6 82. 7	8 7
Netherlands Antilles	146	5, 473	2, 160	4, 560	5, 201	2,057	3, 409	95.0	95. 2	7
Trinidad and TobagoOther	66 259	1, 483 2, 322	1, 3 95 2, 47 8	15, 707 65, 319	1, 080 1, 637	1, 154 1, 977	10, 954 50, 361	72. 8 70. 5	82. 7 79. 8	6 7
Other Africa.	683	9, 716	16, 662	161, 129	6, 834	14. 410	91, 364	70.3	86. 5	5
Saharan	. 171	2, 751	6, 758 839	25, 934	2, 452 1, 067	6, 360	17, 572	89. 1	94, 1	6 8
Egypt Libya	. 26	1, 0 92 1, 0 97	5, 068	5, 705 5, 032	1, 032	829 5, 050	5, 012 4, 819	97. 7 98. 7	98. 8 99. 6	9
OtherSub-Saharan	85 512	562 6, 965	850 9, 904	15, 197 135, 195	302 4, 382	481 8, 050	7, 741 73, 792	53. 7 62. 9	56. 6 81. 3	5 5
Liberia	. 52	928	268	29, 766	717	152	22, 318	77. 2	56. 5	7
NigeriaOther		1, 786 4, 250	4, 808 4, 828	17, 907 87, 522	1, 484 2, 182	4, 571 3, 327	11, 057 40, 417	83. 1 51. 3	95. 1 68. 9	6
Middle East		14, 576	66, 607	138, 317	11, 205	62, 922	89, 445	76. 9	94. 5	6
Israel	102	1, 128	995	21, 155	574	568	8, 612	50.9	57. 1	4
OPECIran		12, 403 3, 460	63, 660 11, 675	104, 877 38, 047	9, 941 1, 934	60, 620 (D)	73, 219 16, 862	80. 2 55. 9	95. 2 (D)	6 4
Other		8, 943 1, 046	51, 984 1, 952	66, 830 12, 285	8,007 691	(D) 1,734	56, 357 7, 614	89. 5 66. 1	(D) 88. 8	8 6
Other Asia and Pacific		16,489	26,664	528, 614	10, 399	18,720	370, 324	63, 1	70, 2	7
Hong Kong	. 318	2,631	5, 301 2, 287	44,847	2,300	4,931	35, 349	87. 4	93. 0	7
IndiaIndonesia		1, 802 3, 085	2, 287 5, 605	94, 622 52, 465	425 2, 792	513 5, 468	35, 621 45, 415	23. 6 90. 5	22. 4 97. 6	8
Malaysia	. 107	878	1,245	35, 969	790	1,148	32, 159	90, 0 65, 3	92. 2 67. 0	8 7
PhilippinesSingapore	. 227	2,059 1,549	3, 080 2, 554	111,768 44,184	1,345 1,238	2,062 2,113	84, 894 38, 536	79. 9	82. 8	8
South Korea	_ 70	2, 293 1, 000	3,511	31,058	166	219	12,898	7. 2	6. 2 77. 0	4 8
TaiwanThailand	. 101	657	1,304 1,070	68, 040 27, 337	598 482	1,004 916	60, 315 17, 561	59. 7 73. 4	85. 5	6
Other	103	535	707	18, 324	263	347	7, 576	49. 2	49. 2	4
ternational		14,773	15, 734	40,904	13,022	14, 422	35, 380	88. 1	91. 7	8
ddendum—OPEC.	1,211	25, 524	86, 879	304, 937	19, 149	81,306	214, 281	75. 0	93. 6	7

Note.—In this table, data for affiliates are only for nonbank affiliates of nonbank parents.

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

1. For purposes of this table, consists of affiliates that were owned more than 50 percent by all U.S. parents combined and that had assets, sales, or net income of more than \$3 million in 1977.

^{2.} See footnote 2, table 8.

Table 10.—Total Assets of Foreign Affiliates, 1977, Country by Industry of Affiliate

							Manufac	turing					Finance	
Country of affiliate	All indus- tries	Mining	Petro- leum	Total	Food and kindred products	Chemicals and allied products	Primary and fabri- cated metals	Machin- ery, except elec- trical	Elec- tric and elec- tronic equip- ment	Trans- porta- tion equip- ment	Other manu- factur- ing	Trade	(except bank- ing), insur- ance, and real estate	Other indus- tries
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
All countries	490, 178	18, 286	114, 500	190, 868	14, 176	38, 782	21, 406	28, 352	17, 118	32, 108	38, 926	56, 101	76, 775	33, 748
Developed countries	359, 583	12, 246	76, 238	152, 520	10, 809	28, 227	16, 837	25, 348	13, 042	26, 869	31, 387	47, 912	49, 474	21, 194
Canada	86, 223	6, 648	18, 109	30, 796	2, 617	5, 460	3, 428	2, 474	2, 104	5, 615	9, 097	6, 263	18, 613	5, 794
European Communities (9) Belgium	206, 605 164, 950 12, 091	224 88 (D)	41, 914 31, 304	97, 549 84, 834 6, 502	6, 447 5, 367 271	17, 802 15, 620 2, 508	11, 477 8, 646 287	19, 512 18, 391 670	9, 461 7, 799 1, 297	15, 376 14, 019	17, 474 14, 992 (D)	27, 643 17, 544 2, 070	25, 365 19, 510 1, 339	13, 909 11, 669 (D)
Denmark France	1, 947 24, 315	(D) 0	1, 497 (D) (D)	393 15, 818	99 915	(D) 2, 197	(D) 3, 082	4,082	151 1,042	(D) 2 2,025	75 2, 475	538 3, 355	1, 355 154 1, 106	(D)
GermanyIreland	37, 796 2, 084	(D)	7, 030 355	21, 484 1, 417	953 182	2, 197 2, 863 420	1, 828 53	4, 730 166	1, 042 1, 889 63	6, 600 26	2, 621 507	2, 943 103	3, 019 185	(Ē)
Italy	12, 218 1, 294	5 0 0	2, 381 34	7, 455 544	446 2	1, 445 (D)	477 (D)	2, 111 73	1, 372	448 0	1, 155 (D)	1, 551 75	311 639	520
LuxemburgNetherlandsUnited Kingdom	18, 486 54, 719	0	4, 453 12, 033	6, 123 25, 098	603 1, 896	2,076 3,915	546 2, 324	963 5, 591	(D) 1, 767	(D) 4, 053	1, 228 5, 553	1, 717 5, 193	2, 942 9, 814	3, 251 2, 576
Other Europe	41, 655 2, 542	136	10, 610 (D)	12, 715	1,080	2, 182 54	2, 831 33	1, 121 75	1,661	1, 357 (D)	2, 482 (D)	10, 099 561	5, 855 (D)	2, 240 116
Austria Greece Norway	5, 784	(D) 4	203 4, 543	529 470 617	52 37 (D)	138 41	(D) 33 (D)	(D) 0	(D) 51	0	(D) 108	118 399	(D) 36	16 155
PortugalSpain.	576 11, 890	(D) 0	122 2,711	312 7, 262	37 640	66 1, 360	(D)	307	(D) 835	(D) 1, 219	(D) 63	104 979	(D) 255	(D) 100 (D)
SwedenSwitzerland	4, 044 14, 179	0	1, 197 786	1, 651 1, 446	154 (D)	309 159	160 45	501 126	143 240	43	342 (D)	797 6, 629	185 4, 322	213 996
TurkeyOther	674 1, 117	(D) 0	(P) 166	244 183	14	(D) (D)	0 3	(D) (D)	(D) (D)	(D) 0	(D) 65	53 459	200	(D) 109
Japan	41, 776	0	12, 952	14, 610	799	3, 313	787	2,332	745	3, 702	2, 932	11, 583	2, 225	407
Australia, New Zealand, and South				·						-			·	
AfricaAustralia	24, 979 18, 336	5, 374 4, 092	3, 263 2, 040	9, 565 6, 774	945 623	1, 652 1, 226	1, 145 869	1, 030 730	733 443	2, 176 1, 559	1, 884 1, 323	2, 423 1, 688	3, 271 2, 833	1, 084 910
New Zealand South Africa	1, 022 5, 621	(D)	(D)	398 2, 393	55 268	78 348	270	10 290	28 261	(D) (D)	(D)	203 532	95 343	28 145
Developing countries	115,822	6, 040	28, 001	28, 348	3, 367	10, 555	4, 569	3, 004	4, 076	5, 239	7, 539	8, 189	27,.301	7, 942
Latin AmericaSouth America	75, 041 31, 717	3, 746 2 373	7, 986 2, 628	28, 966 19, 790	2,752 1,582	7, 523 4, 976	3, 439 1, 881	2, 462 1, 998	2, 355 1, 679	4, 406 3, 422	6, 029 4, 252	5, 363 2, 761	25, 373 2, 567	3, 608 1, 598
Argentina Brazil	2, 959 17, 331	2, 373 (D) 1, 295	348 865	2, 115 12, 451	132 899	506 3, 330	69 891	257 1,654	122 1, 311	602 2, 017	426 2, 34 8	288 898	82 1, 329	(D) 493
Chile	397 1, 914	(D) (D)	97 344	157 1,044	10 73	61 364	(D) 63	2 11	(^D) 58	(D)	(D) 43	(D) 193	87	(D) 52
Ecuador Peru	463 1,725	(D) 0	186 371	205 268	42 45	43 70	(D) 43	0 3	16 16	(D)	(D) 72	(D) 47	(D) 6	18 24
VenezuelaOther	6, 135 794	(*) 20	228 188	3, 206 344	334 48	586 16	570 (D)	69	137 (D)	(D) 595	(D) 915	1, 117 69	ì, 003	(D) 579
Central America Mexico	14, 831 9, 515	577 (D)	807 107	8, 402 7, 507	840 543	2, 309 2, 042	1, 545 1, 519	462 458	662 602	984 969	1, 600 1, 374	1, 715 896	2, 317 337	(D)
PanamaOther	3, 482 1, 834	(D) 4	483 218	183 712	(D) (D)	67 199	0 25	0 4	1 59	0 15	(D)	629 190	1,890 90	(D) 293
Other Western Hemisphere Bahamas	28, 493 1, 974	(D) 796	4, 550 (D)	774 95) 330 (D)	238 (D)	13 0	0	14 1	(*)	(D)	887 225	20, 490 516	(D) 997
Bermuda	17, 241 5, 473	(D) 0	1, 684 583	6 14	0 4	(D) 0	0	2 0	0	0	(D) 4	412 34	14, 947 4, 710	(D) 193
Trinidad and TobagoOther	1, 483 2, 322	775	1, 179 (D)	188 471	(D) 307	(Þ) 36	(D)	0	(D) (D)	(*)	(D) 108	19 198	23 294	(D) 75
Other Africa	9, 716	2,045	4, 657	1,032	140	182	(D)	18	130	54	(D)	429	712	840
Saharan Egypt	2, 751 1, 092	0	2, 300 962	(D) (D)	15 0	(D) 41	0	(D)	5	(D) 0	(D) 0 (D)	(D) (D)	1	205 102
Other	1, 097 562	0 0	1, 077 260	133	0 15	(D)	0 6	(D) 3	0 5 124	(D) (D)	49 197	66 34 5	0 3 708	100 635
Sub-SaharanLiberia	6, 965 928 1, 786	2,045 (D)	2, 357 (D)	875 3	125 3 (D)	140 0 66	(D) 0	0	(D)	0 0	0 34	(D) 119	551 (D)	153
Nigeria Other	4, 250	(D) 0	1, 134 (D)	197 675	(B)	74	(D)	3	(D)	(D) (D)	163	(D)	(<u>a</u>)	(D)
Middle East Israel	14, 576 1, 128	25 0	9, 254 (D)	1, 665 560	(D) 52	350 148	433 (D)	97 (D)	297 (D)	(D) (D)	(D) 81	658 95	608 (D)	2, 366
OPECIran.	12, 403 3, 460	(P) 25	8, 587 1, 670	844 777	(D) 32	199 161	(D) (D)	(D)	(D) 58	(D)	(D) (D)	508 422	(D) 18	(D)
Other	8, 943 1, 046	(b)′ 0	6, 917 (D)	6 7 261	(D)	39 2	(D) (D)	(D) (*)	(D)	(D) 0	(D) 0	86 54	(D) 57	(D) .
Other Asia and Pacific.	16, 489	224	6, 105	6, 684	423	2, 500	(D)	427	1, 295	(D)	1, 109	1, 740	608	1, 128
Hong KongIndia	2, 631 1, 802	0	569 211	518 1, 484	(D)	128 648	(D) 21	38 193	175 148	71	(D) (D)	838 17	362 (D)	(D) 343
Indonesia	3, 085 878	(D) (D)	2, 327 437	375 287	11 18	87 46	15 9	(D) 1	(D) 166	3 5	(D) (D)	28 93	11	(D) (D)
Philippines Singapore	2, 059 1, 549	(*) ₀	(D) 577	956 574	238 11	180 12	98 69	168	92 263	(D)	(D) (D)	207 250	114 38	(D) 110
South KoreaTaiwan	2, 293 1, 000	ő	945 45	1, 215 848	18 40	865 351	$\frac{1}{2}$	(D) (D)	67 315	(D) 77	(D) (D)	72 9 4	28 8	33 6
mh atland	657	13	241	240	37	46	29	0	25 (D)	1 0	`102 (^D)	111 30	5	46 110
ThailandOther	535	(4)	(1)	187	(D)	137	0	(')	(~)	0 1	(-)	00	(D)	110
Other	535 14,773	(D) 0	(D) 10, 161	0	0	0	0	(*)	0	0	0	0	0	4,611

Less than \$500,000.
 D Suppressed to avoid disclosure of data of individual companies.
 See footnote 2, table 8.

Note.—In this table, data for affiliates are only for nonbank affiliates of nonbank parents.

(Text continued from p. 49)

jority ownership by foreign investors. The shares of assets accounted for by the larger MOFA's were highest in food and non-electrical machinery (84 percent each) and in electrical machinery (81 percent).

By area, the larger MOFA's accounted for nearly the same shares of assets in the developed and developing countries-71 and 72 percent, respectively. Among the individual countries shown in tables 9 and 13, however, the shares of the larger MOFA's varied widely. They were highest—99 and 98 percent, respectively—in Libya and Egypt, countries in which most of the assets were in petroleum. They were lowest— 7 percent—in South Korea. Other countries where MOFA shares of assets were relatively low were Japan, India, Spain, and Mexico.

Each of the countries with low MOFA shares maintained restrictive policies, as of 1977, toward majority ownership by foreign investors. In South Korea, investments had to be approved by the Government. Foreign equity usually could not exceed 50 percent except in very capital intensive or high technology industries, or in certain industries that did not compete with existing South Korean firms.

In Japan, as in South Korea, all foreign investments were subject to Government approval. Until the early 1970's, foreign equity participation was limited to 50 percent in new, and 25 percent in existing, companies. Although these limits were raised to 100 percent by 1977, approval of investment proposals with up to 100-percent foreign participation was not assured.

In India, firms were required to dilute foreign equity participation to no more than 40 percent, with exceptions in high priority, high technology, and export industries. Large firms, and firms that had not reached the required equity dilution, needed Government consent before significant capital expansion could be undertaken. In Spain. Government approval was generally required for investments with 50-percentor-more foreign ownership. Exceptions were made, especially for firms that

Table 11.—Number of U.S. MNC's Having Affiliates in Various Numbers of Countries, 1977, by Industry of U.S. Parent

	Number	N	umber of M	INC's havin	g affiliates i	n:
Industry of U.S. parent	of MNC's, total	Only 1 country	2 to 5 countries	6 to 10 countries	11 to 20 countries	More than 20 countries
All industries	3, 425	1,686	1,049	327	226	137
Mining	29	15	9	5	0	C
Petroleum	158	60	60	13	10	15
Manufacturing Food and kindred products. Chemicals and allied products Primary and fabricated metals. Machinery, except electrical. Electric and electronic equipment Transportation equipment. Other manufacturing.	194 277 3 22 22 3 85	732 35 50 133 128 83 24 279	623 38 49 91 107 83 28 227	221 13 34 29 43 28 14 60	168 15 25 16 31 23 13 45	97 11 36 8 13 6 6
Trade	375	221	113	24	14	3
Finance (except banking), insurance, and real estate	600 422	463 195	110 134	15 49	3 31	9

MNC = multinational company.

NOTE.—In this table, data for U.S. MNC's are only for nonbank MNC's.

Table 12.—Selected Data of Foreign Affiliates, 1977, by U.S. Parent's Percentage Ownership in Affiliate 1

	Number of	Total assets	Sales	Employment
U.S. parent's percentage ownership in affiliate	affiliates	Millions	of dollars	Number of employees
1. All affiliates. 2. Owned 10 percent under 25 percent. 3. Owned 25 percent under 50 percent. 4. Owned 50 percent. 5. Owned over 50 percent. 6. Owned over 50 percent under 75 percent. 7. Owned 75 percent under 100 percent. 8. Owned 100 percent.	19, 524 1, 178	490, 178 46, 795 56, 129 26, 815 360, 440 29, 759 46, 237 284, 445	647, 969 40, 519 57, 960 33, 534 515, 957 30, 265 60, 709 424, 982	7, 196, 691 537, 062 777, 647 253, 268 5, 628, 714 543, 230 864, 369 4, 221, 115
Addendum: 9. Affiliates owned over 50 percent with assets, sales, or net income greater than \$3 million 2	11, 909	3 52, 3 57	507, 019	5, 368, 826

1. In cases where more than one U.S. parent has ownership of 10 percent or more in a foreign affiliate, this table shows the ownership of all of the U.S. parents combined.

2. In the 1977 benchmark survey, the most extensive and detailed data were obtained for this group of affiliates. Thus, in the b. nchmark survey publication U.S. Direct Investment Abroad, 1977 and in tables 9 and 13 of this article, data for "majority-owned foreign affiliates" are for these affiliates, rather than for all affiliates owned over 50 percent.

Note.—In this table, data for affiliates are only for nonbank affiliates of nonbank parents.

created at least 100 jobs or favorably affected Spain's balance of payments. In Mexico, a 1973 law restricted foreign ownership of new investments in most industries to 49 percent.

Form of Organization of Parents and Affiliates

Legal form of organization

Of the 3,425 U.S. parents, 3,001, with assets of \$1,534.7 billion, were incorporated and 74, with assets of \$8.5 billion. were unincorporated (mainly partnerships). The remaining 350 parents were individuals, estates, and trusts that directly owned foreign affiliates. Because

these parents did not have to report financial and operating data in the 1977 benchmark survey, their U.S. assets were considered zero.6

Of the 23,641 foreign affiliates, 20,-498, with assets of \$428.1 billion, were incorporated and 3,143, with assets of \$62.1 billion, were unincorporated (table 14). Branches accounted for nearly all—89 and 93 percent, respectively—of both the number and total

^{6.} However, if a U.S. individual, estate, or trust held its investments abroad indirectly through a U.S. business enterprise, the U.S. business enterprise, rather than the individual, estate, or trust, was considered the U.S. parent; in this case, the enterprise's domestic assets were reported and were classified according to the enterprise's form of or ganization.

Table 13.—Total Assets of Majority-Owned Foreign Affiliates as a Percentage of Total Assets of All Foreign Affiliates, 1977, Country by Industry of Affiliate ¹

						 	Man	afacturing	,				Finance (except	
Country of affiliate	All indus- tries	Mining	Petro- leum	Total	Food and kindred products	Chemicals and allied products	Primary and fabri- cated metals	Machin- ery, except elec- trical	Electric and elec- tronic equip- ment	Trans- porta- tion equip- ment	Other manufac- turing	Trade	bank- ing), in- surance, and real estate	Other indus tries
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
All countries	71,9	48,7	74.9	72, 3	83.9	68. 5	46. 8	83, 5	81.0	74. 4	72, 1	67.1	79. 3	6
eveloped countries	71.3	53, 4	68, 1	74.7	84.3	73. 2	49. 3	84.5	83.8	75. 4	73.9	66, 1	80.3	5
Canada	86.3	63.7	83. 0	89.4	99.2	76.8	90.0	96.4	93.0	99.8	84.8	73.7	96. 5	8
EuropeEuropean Communities (9)	76. 4 79. 0	48.1	76. 2 83. 2	79. 0 82. 1	85. 8 92. 8	81.7 85.2	43. 2 52. 1	86. 8 87. 0	88.4 87.3	82, 4 82, 3	80. 4 83. 5	85. 7 84. 4	72. 4 74. 8	(D)
Belgium Denmark	85. 6 84. 2	100.0	94. 9 93. 9	82. 7 78. 6	64. 8 100. 0	84. 5 88. 9	93. 1 70. 0	94. 0 65. 9	67. 6 73. 3	(D) 0	(D) 61.5	91. 3 86. 4	93. 5 (D)	(D)
France	71.9	0	89.1	68.9	85.0	84.0	11.0	79. 5	88.6	89.7	78.6	81.7	52.7	
Germany Ireland	76. 5 92. 0	99. 3 52. 7	73. 4 98. 7	86. 4 92. 3	95. 8 99. 2	89. 2 90. 3	82. 5 89. 8	92. 9 96. 9	93. 9 89. 7	76. 4 (D)	90.8 (D)	86.1 (D)	66. 2 (D)	
Italy Luxembourg	84. 6 84. 0		88. 2 (D)	82. 7 99. 4	98.6 0	90. 1 100. 0	63. 7 100. 0	72. 5 99. 5	89. 3 100. 0	74.7	88.9 99.6	90.8 (D)	90. 1 70. 2	
Netherlands	67. 0	01.0	` 59, 2	81. 2 85. 7	99, 2 94, 8	94, 2	95. 0 63. 5	95. 1 90. 2	95. 4 92. 4	4.8 97.0	62. 3 84. 3	88.0 79.2	76. 8 76. 3]
United KingdomOther Europe	84. 4 66. 1	81. 9 (D)	92. 9 55. 6	58. 2	51, 3	75. 6 56. 8	16.0	83.6	93. 5	83. 9	61.5	87.9	64.4	(D
AustriaGreece	49.9 77.5	100.0	44. 9 97. 5	81. 5 68. 8	85.4 67.3	91. 2 96. 0	87. 1 51. 0	99. 1	98. 1 33. 8	100.0	62. 8 67. 2	88. 7 75. 2	89.8	(D
Norway Portugal	71. 4 76. 1	97. 4	71. 1 97. 4	65. 8 64. 8	0 70.7	89. 9 88. 2	46.7 100.0	100.0	100.0 18.2	100.0	52. 4 42. 7	88.7 (D)	94.4	
Spain	40.1	0	4.4	45.8	38.9	46.0	(D) 96, 2	` 81.0	99.3	83.4	(D)	85.9	57. 3	(D
Sweden	74. 5 83. 6		73. 1 85. 1	74. 6 87. 7	(D) 98.8	56. 9 88. 8	(D) 90. 2	97. 6 91. 0	100.0 95.1	62.7	(¤)	80. 7 89. 4	74. 7 74. 6	
TurkeyOther	73. 0 80. 1	100.0	85. 4 91. 5	53. 2 46. 4	(D)	94. 2 12, 4	69.1	0	100. 0 100. 0	100.0	(D) 51. 3	(D) 85, 2	(D)	(D
apan	16. 1		14.0	16. 9	16.8	20.7	4.5	55. 2	12.8	.1	8.0	11.6		,
ustralia, New Zealand, and South	69. 4	40, 9	96.1	71.7	89.8	75. 5	19.4	79.7	70, 6	91.6	64.2	84. 2	77.4	
Australia	72.9	51.5	95.5	74.3	94.0	78. 2	15.8	78.7	72.9	98.9	69.0	85.3	83.0	Œ
New ZealandSouth Africa	79. 5 56. 1	96. 7 6. 6	87. 7 99. 9	77. 1 63. 5	57. 4 86. 6	75. 7 65. 9	31.7	97.3 81.6	63. 9 67. 6	98. 9 66. 2		71. 5 85. 7		(6)
eloping countries	71,8	39, 2	86, 9	62, 7	82, 4	55, 7	37.8	74, 9	71.8	69, 1	64,7	72, 7	77.4	
atin America	72.8	46.7	88.2	68.2	85.3 92.4	64.6 75.3	39. 5 56. 4	78. 3 86. 8	70. 2 74. 7	78. 5 85. 6		75. 2 71. 1		
Argentina	74. 2 87. 3	46. 5 99. 1	95, 9 97, 7	78. 0 88. 1	91.5	87.8	81.5	93.9	82.6	91.7	81.4	87.8	27.4	
Brazil	77. 2 84. 5	4.9 97.0	97. 7 86. 1	82. 3 79. 4	92.3 100.0	76. 7 77. 4	64.6 (D)	87.8	71. 9 100. 0	89. 2 100. 0		76. 2	0	(E
Colombia Ecuador.	73. 5 71. 7	91.4	91. 6 98. 5	75. 5 48. 6	98. 0 83. 1	74. 1 71. 3	57. 1 92. 6	28.7	70, 2 (D)	88.5	73. 6 14. 0		(D)	1) (1
Peru	90.1	97.4	(D)	61. 3	64.2	51.1	(D)	78. 1	100.0	96.1	(D)	(D)	(D)	
VenezuelaOther	53. 8 80. 2	(D)	95. 4 (D)	57. 1 94. 4	96. 2 96. 0	61. 6 24. 9	23. 6 99. 3	49. 5 0	90, 9 86, 5	67. 9 100. 0	97.4	57.0 (D)	48.4	(E
Central America	57. 2 45. 1	9.0 (D)	73.0 46.9	46. 4 43. 3	77.9 77.9	44. 3 39. 6	(D) 17. 4	42. 2 42. 6	59. 3 56. 1	54. 1 54. 6		73.8 64.2		(1
Panama Other	87. 7 62. 2	100.0	67. 9 97. 0	75. 6 71. 1	72.3 80.5	80, 2 79, 6	(D)	0	92.4	17. 4	_ 82.9		91.6	(1
Other Western Hemisphere	79. 5	(D) 74. 6	86.4	52, 9	70.1	38.1	(D)	ŏ	39.0	0.4	(a)	90.9	79. 2	,
BahamasBermuda	89. 7 75. 2	100.0	99. 8 88. 2	61. 1 0	100.0	100.0		0	. 0		35.6	97. 3	73.1	
Netherlands Antilles Trinidad and Tobago	95.0 72.8	100.0	(D)	88. 8 25. 7	(D) 43.0	100.0	0	·	(D)		- 0 43.3	92. 5 (D)	(D)	(E
Other	70. 5	73. 9	(D)	61. 7	(D)	49.9			(D)	0	(D)	(D)	(D)	1) (1
Saharan Egypt	70.3 89.1 97.7	20.7	92, 0 93, 1 98, 8	73. 7 53. 0 84. 1	78. 7 32. 6	65. 1 59. 5 84. 1	94. 9 69. 8	(D) (D)	83.7	(D)	(D) 83. 2	58.8 77.1 95.8	0	(E
Libya Other	98. 7 53. 7		99. 4 46. 2	44. 4 50. 3	32.6	46, 2	69. 8	100.0		0	- (D)	100.0 (D)		(E
Sub-SaharanLiberia	62. 9 77. 2	20. 7 16. 2	91. 0 100. 0	77. 4 100. 0	84. 1 100. 0	66. 7	95. 4	Ö	87. 2	55.8	(D)	54.3 89.3	92, 5	1
Nigeria Other	83. 1 51. 3	21. 2	98. 3 84. 1	85. 2 75. 0	(D)	99. 5 37. 2	(D) 96. 3	0	97. 9 73. 3	55. 8	(D)	69. 7 43. 9	87.5	
Iiddle East	76.9	12. 2	92.8	18.0	(D)	51.3	0	(D)	16. 2	0	(D)	37.6	68.8	
IsraelOPEC	50. 9 80. 2	12. 2	98. 4 92. 6	(D) 10. 0	67.1	69. 4 37. 2	0 0	85.9 (D)	(D) (D)	0	28. 5 0	(D) 25.7	(D) (D)	(E
Iran Other	55.9	(D)	(D) (D)	(D) (D)	0	(D)	0 0	(P)	8.9	0	0	15. 2 76. 9	(D)	'
Other	89. 5 66. 1		93. 5	(D)	73, 6	100.0	ŏ	100.0	ŏ	0	0	(D)	65. 5	
ther Asia and Pacific	63. 1 87. 4	86.9	72. 6 100. 0	48. 6 81. 3	(D) 23.1	29. 1 92. 3	28. 3 (D)	65, 6 98, 0	86. 2 97. 6	29. 1 0	50, 2	81. 7 90. 5		
India	23.6		(D)	23, 9	100, 0	17.4	0	30.9	(D)	0	(0)	(D)	95. 3	
Indonesia Malaysia	90, 5 90, 0	99. 6 93. 7	96.8 99.1	59. 0 83. 3	39. 1 (D)	82.8 73.6	(D) 46.0		100. 0 91. 2	100.0				(D
Philippines	65. 3 79. 9	0	70.9 73.4	69. 7 90. 3	80.9 11.9	93. 0 (D)		95, 6	54. 5 98. 7	96, 9 100, 0	(D)	59. 6 81. 4	23. 0 (D)	(D
South Korea	7, 2		0	9.5	90.4	(a)	0 0	100.0	58, 3	0	48.8 (D)	(D)	(D)	
TaiwanThailand	59. 7 73. 4	(D)	56, 0 (P)	56.8 55.0	100. 0 39. 4	83. 2	(D)	100.0	86.5	(D) 0	(D)	90. 8 90. 0	0	(D
Other	49. 2	0	(D)	52, 5	76. 5	60. 2		. 0	67.4		- (D)	(D)	83. 4	
ernational	88.1		93.0		.	.	.	-	-		-	-	-	
dendum—OPEC 2	75.0	(D)	93.8	49.7	83.4	61.4	20.9	29.8	77.6	45. 6	45.0	50. 5	34.9	(D

D Suppressed to avoid disclosure of data of individual companies.

1. For purposes of this table, majority-owned foreign affiliates consist of affiliates that were owned more than 50 percent by all U.S. parents combined and that had assets, sales, or net income of more than \$3 million in 1977.

2. See footnote 2, table 8.

Note.—In this table, data for affiliates are only for nonbank affiliates of nonbank parents.

assets of unincorporated affiliates; partnerships accounted for most of the remainder.

By industry, incorporated affiliates' shares of the assets of all affiliates were highest-97 and 94 percent, respectively-in manufacturing and trade, and were lowest—69 and 75 percent, respectively-in mining and petroleum. Within manufacturing, these affiliates' shares were consistently high—over 90 percent—in each industry. The relatively low share in petroleum was almost entirely attributable to affiliates engaged in oil and gas extraction. Incorporated affiliates accounted for only 44 percent of the assets of these affiliates, compared with 87 percent of the assets of affiliates in petroleum and coal products. In the past, tax advantages encouraged the organization of affiliates engaged in petroleum extraction as branches. Although these advantages had been largely eliminated by 1977, their elimination apparently did not result in the reorganization of a significant number of affiliates.

By area, incorporated affiliates accounted for a larger share of the assets of all affiliates in developed countries than in developing countries—91 percent compared with 74 percent. Among developing countries, incorporated affiliates' shares of assets were lowest in countries where petroleum extraction and mining were the dominant affiliate industries.

Number of affiliate establishments

A given affiliate may consist of more than one establishment. A question in the 1977 benchmark survey asked the "number of separate (noncontiguous)

physical locations where business is conducted, goods are produced, or services or industrial operations are performed" by the affiliate. Of the 97 percent of affiliates from which responses were obtained, 61 percent were single-establishment enterprises; 28 percent had 2 to 5 establishments, 5 percent had 6 to 10 establishments, and 6 percent had 11 or more establishments (table 15).

By major industry, the percentage of affiliates that were single-establishment enterprises was lowest (48 percent) in mining; most other affiliates in that industry had two to five establishments. The percentage was highest (78 percent) in finance (except banking), insurance, and real estate, which includes holding companies (92 percent of which had only one establishment).

Among major industries, petroleum had the highest percentage of affiliates

Table 14.—Number and Total Assets of Foreign Affiliates, 1977, Industry and Country of Affiliate by Form of Organization

	All af	filiates	Incorporate	ed affiliates			Unincorpora	ted affiliates		
		Total		Total	To	tal	Brar	nches	Ot	her
Industry or country of affiliate	Number of affiliates	assets	Number of affiliates	assets	Number of	Total assets	Number of	Total assets	Number	Total assets
		Millions of dollars		Millions of dollars	affiliates	Millions of dollars	affiliates	Millions of dollars	affiliates	Millions of dollars
Total	23, 641	490, 178	20, 498	428, 082	3, 143	62, 096	2, 805	57, 988	338	4, 108
By industry Mining	292	18, 286	193	12, 546	99	5, 740	81	5, 077	18	663
Petroleum	1, 927	114, 400	1, 125	85, 882	802	28, 518	756	27, 227	46	1, 291
Manufacturing Food and kindred products Chemicals and allied products. Primary and fabricated metals. Machinery, except electrical. Electric and electronic equipment. Transportation equipment Other manufacturing.	9, 702 845 2, 263 1, 120 1, 275 990 473 2, 736	190, 868 14, 176 38, 782 21, 406 28, 352 17, 118 32, 108 38, 926	9, 214 768 2, 106 1, 089 1, 214 946 462 2, 629	185, 801 13, 437 37, 383 20, 700 27, 319 16, 870 31, 931 38, 161	488 77 157 31 61 44 11	5, 067 738 1, 398 706 1, 034 248 177 766	437 72 147 25 55 39 10 89	4, 453 707 1, 235 535 (D) 203 (D) 649	51 5 10 6 6 5 1	614 31 163 171 (D) 45 (D)
Trade	5, 797	56, 101	5, 111	52, 705	686	3, 396	671	3, 299	15	97
Finance (except banking), insurance, and real estate	2, 353	76, 775	2, 033	61, 859	320	14, 916	290	14, 401	30	515
Other industries	3, 570	33, 748	2, 822	29, 288	748	4, 460	570	3, 532	178	928
By area										,
Developed countries	15, 603 3, 271 9, 940 7, 686 2, 254 870	359, 583 86, 223 206, 603 164, 950 41, 655 41, 776	14, 037 2, 931 9, 031 6, 958 2, 073 728	328, 860 76, 613 189, 529 151, 937 37, 592 40, 884	1, 566 340 909 728 181 142	30, 723 9, 610 17, 076 13, 014 4, 063 892	1, 382 313 781 629 152 129	28, 696 9, 404 15, 387 11, 616 3, 772 854	184 27 128 99 29 13	2, 028 206 1, 689 1, 398 291 38
Africa	1, 522	24, 979	1, 347	21, 834	175	3, 145	159	3, 050	16	95
Developing o untries. Latin Amer.ca. Other Africa. Middle East. Other Asia and Pacific.	7, 627 4, 804 683 544 1, 596	115, 822 75, 041 9, 716 14, 576 16, 489	6, 067 4, 101 445 300 1, 221	85, 826 61, 800 5, 819 4, 740 13, 467	1, 560 703 238 244 375	29, 997 13, 241 3, 896 9, 836 3, 023	1, 411 626 223 212 350	(D) 12,510 (D) 9,240 2,714	149 77 15 32 25	(D) 731 (D) 596 309
International	411	14,773	394	13, 397	17	1, 376	12	(D)	5	(D)
Addendum: OPEC 1	1, 211	25, 524	803	12, 012	408	13, 512	362	12, 651	46	862

 $^{^{\}mathbf{D}}$ Suppressed to avoid disclosure of data of individual companies. 1. See footnote 2, table 8.

Note.—In this table, data for affiliates are only for nonbank affiliates of nonbank parents.

with 11 or more establishments—14 percent. Within petroleum, affiliates with 11 or more establishments accounted for particularly large proportions of all affiliates in petroleum and coal products (which includes integrated refining and extraction) and petroleum wholesale trade. In the major industries outside petroleum, affiliates with 11 or more establishments accounted for 6 percent or less of all affiliates. However, in a few individual industries, such as retail trade, office and computing machines, and rubber products, the percentages were much higher—well over 20 percent each.

Technical Note

For this article, MNC worldwide consolidated assets were roughly approximated as the sum of total assets of U.S. parents and of their foreign affiliates, as reported in the 1977 benchmark survey and as shown in table 1, column 4, less: (1) U.S. parents' receivables from, and equity investment in, foreign affiliates, (2) affiliates' receivables from U.S. parents, and (3) affiliates receivables from, and equity investment in, other foreign affiliates of their U.S. parents.

For several reasons, the worldwide consolidated assets of a given MNC, as calculated for this article, may be higher than they would have been if calculated by the MNC itself. First, the assets of all foreign business enterprises owned at least 10 percent by their U.S. parent have been included in MNC worldwide consolidated assets in this article in order to conform to U.S. direct investment concepts. In contrast, under U.S. generally accepted accounting principles (GAAP), only MOFA's—affiliates owned more than 50 percent by their U.S. parent—would be included in a U.S. company's worldwide consolidation.

Second, a given MNC's worldwide consolidated assets, as calculated here, may be higher than under GAAP because of the consolidation rules applied to U.S. parents in the 1977 benchmark survey. In the survey, a U.S. parent was defined as a fully consolidated U.S. business enterprise. According to the survey rules, the U.S. enterprise, under certain circumstances, had to include U.S. subsidiaries in its consolidation that would normally have been excluded under GAAP. Specifically, if a U.S. subsidiary was owned more than 50 percent by the enterprise, but was normally excluded from full consolidation in reports to stockholders—because, for

Table 15.—Number of Affiliates Having Operations at 1, 2 to 5, 6 to 10, or 11 or More Physical Locations, 1977, by Industry of Affiliate

	Number of	Number of		which respon locations wa	se to questions obtained:	n on number
Industry of affiliate	affiliates, total	Total	With 1 location	With 2 to 5 locations	With 6 to 10 locations	With 11 or more locations
	(1)	(2)	(3)	(4)	(5)	(6)
All industries	23, 641	22, 992	14, 135	6,355	1, 154	1,348
Mining	292 215	276 201	133 99	121 87	9	13 11
Iron	38 83 94	36 76 89	18 34 47	15 35 37	$\begin{array}{c c} & 1\\ & 1\\ & 2 \end{array}$	2 6 3
Coal and other nonmetallic minerals	77	75	34	34	5	3 2
Petroleum	1, 927 999 631	1, 853 963 609	980 557 383	520 294 164	103 45 16	250 67 46
Oil and gas field services Petroleum and coal products	368 180	354 175	174 76	130 49	29 7	21 43
Integrated refining and extraction	30 100 50	28 97 50	40 32	8 29 12	1 4 2	15 24 4
Petroleum wholesale tradeOther	478 270	466 249	206 141	118 59	39 12	103 37
ManufacturingFood and kindred products	9, 702 845	9, 473 821	5, 4 21 388	3, 073 311	534 65	445 57
Beverages	176 148	174 138	68 59	70 55	19 14	17 10
OtherChemicals and allied productsIndustrial chemicals and synthetics	521 2, 263 676	509 2, 222 664	261 1, 239 332	186 810 276	32 103 31	30 70 25
DrugsSoap, cleaners, and toilet goods	636 405	629 397	395 232	196 143	25 17	13 5
Agricultural chemicalsOther	101 445	98 434	$\frac{51}{229}$	36 159	3 27	8 19
Primary and fabricated metals Primary metal industries	1, 120 277	1,081 265	713 147	297 97	43 9	28 12
Ferrous NonferrousFabricated metal products	145 132 843	135 130 816	76 71 566	51 46 200	4 5 34	4 8 16
Machinery except electrical	1, 275	1, 249	750	336	81	82
Farm and garden machinery and equipment. Construction and related machinery	57 282 113	57 277 112	32 154 51	18 80 23	3 24 5	19 33
Office and computing machines Other Electric and electronic equipment	823 990	803 972	513 560	215 298	49 62	26 52
Household appliancesRadio, television, and communication equip-	99	93	43	29	8	13
ment Electronic components and accessories Other	161 358 372	158 355 366	72 262 183	54 76 139	14 11 29	18 6 15
Other Transportation equipment Motor vehicles and equipment	473 414	460 406	265 232	132 114	33 32	30 28
Other manufacturing	59 2, 736	54 2, 668	33 1,506	18 889	117	126
Textile products and apparel	61 355	60 345	22 203	24 120	6 19	8 3 7
Lumber, wood, furniture, and fixtures Paper and allied products	153 302	144 296 190	74 143	57 117 60	6 21 5	15
Printing and publishing	192 161 222	154 217	119 46 144	47 61	25 11	6 36 1
Stone, clay, cement, and concrete.	91 198	89 191	57 81	25 82	4 17	3 11
Instruments and related productsOther	497 504	490 492	292 325	154 142	20 13	24 12
Trade	5, 797 5, 277 3, 412	5,710 5,194	3, 662 3, 466	1, 424 1, 287	270 233	354 208
Nondurable goods	1, 865 520	3, 353 1, 841 516	2, 172 1, 294 196	848 439 137	170 63 37	163 45 146
Finance (except banking), insurance, and realestate	2, 353	2, 247	1, 764	304	75	104
Finance, except banking	581 699	566 683	436 434	80 147	17 42	33 60
Real estate Holding companies	179 894	172 826	135 759	28 49	12	5 6
Other industries	3, 570 253	3, 433 239	2, 175 145	913 81	163 9	182 4
Construction. Transportation, communication, and public	411	403	231	134	22	16
utilities Transportation	611 505 106	563 460 103	336 281 55	161 136 25	29 18 11	37 25 12
Services	2, 295	2, 228	1, 463	537	103	î 2

Note.—In this table, data for affiliates are only for nonbank affiliates of nonbank parents.

example, it was a finance company, but the owning enterprise was a manufacturer, or its operations were otherwise unrelated to those of the owning enterprise—the benchmark survey nevertheless required its data to be consolidated (or aggregated, if consolidation would have caused an undue burden) with those of the enterprise. It should be noted that, if the subsidiary in question were aggregated, rather than consolidated, the U.S. parent's assets would be further overstated because, in aggregation, the duplication caused by intercompany assets would not be eliminated. (In addition, this consolidation (or aggregation) would affect the distribu-

tion of U.S. parent (and, hence, MNC) data by industry, if the corporation being consolidated (or aggregated) were in a different industry from the owning enterprise.)

Third, MNC worldwide consolidated assets, as calculated here, may include the assets of some foreign affiliates that, even if majority owned, are not normally included in an MNC's worldwide consolidation. For example, affiliates whose activities are unrelated to those of their U.S. parents, or whose status is in doubt because of unstable conditions in foreign host countries, may not normally be consolidated by the MNC.

Finally, some intercompany assets of U.S.

parents and their foreign affiliates that normally would be eliminated in consolidation were not separately identified in the 1977 benchmark survey. Thus, the duplication caused by these intercompany assets, which was probably small, could not be entirely eliminated in deriving MNC worldwide consolidated assets for this article.

Affiliates' receivables from other foreign affiliates were reported only for MOFA's. Thus, consolidated worldwide assets, as defined here, are overstated to the extent minority-owned affiliates had receivables due from other foreign affiliates of their U.S. parents.

Capital Expenditures by Majority-Owned Foreign Affiliates of U.S. Companies, 1981 and 1982

M AJORITY-owned foreign affiliates of U.S. companies plan to increase capital expenditures 6 percent in 1982, to \$53.3 billion, following a planned 18-percent increase this year. In 1980, spending increased a record 30 percent (table 1 and chart 13).

Slowdowns in spending growth this year and in 1982, following 2 years of rapid expansion, are widespread by industry and area. Many affiliates are reducing their capital spending in response to slack demand and continued high interest rates in most developed countries.

Petroleum affiliates plan a 14-percent increase, to \$21.5 billion, in 1982, following a 28-percent increase this year. Manufacturing affiliates plan a 2-percent increase, to \$22.7 billion, following a 14-percent increase. In contrast, affiliates in trade plan a somewhat faster increase next year—10 percent, to \$4.4 billion—compared with 6 percent in 1981

By area, affiliates in developed countries plan a 7-percent increase in 1982, to \$38.7 billion, following a 13-percent

Note.—Earl F. Holmes, Jr. supervised the data collection and assisted in the preparation of the estimates. Smith W. Allnutt III designed the computer programs for data retrieval and analysis.

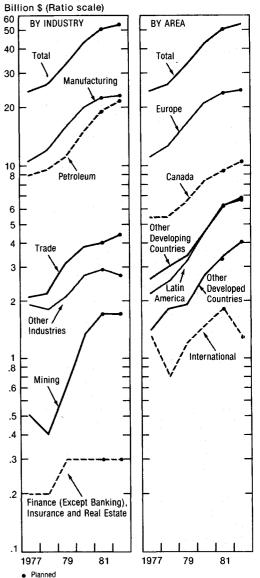
increase this year. In developing countries, a 9-percent increase, to \$13.4 billion, is planned, compared with a 36-percent increase. Affiliates in "international"—those whose operations span more than one country and are engaged in oil and gas drilling, petroleum shipping, other water transportation, or petroleum trading—plan a 29-percent increase, to \$1.3 billion, following a 19-percent increase.

In addition to the estimates of planned expenditures for 1981 and 1982, this article presents revised estimates of actual spending for 1977-80 (tables 2-5). The estimates for all years incorporate the results of BEA's 1977 benchmark survey of U.S. direct investment abroad.² Previously published estimates were linked to the 1966 benchmark survey. A technical note at the end of this article summarizes the major differences in definitions, concepts, and presentation between the previous and revised series, and describes the procedure used to expand sample data to universe estimates for intercensal years.

In the past, spending estimates were adjusted in an attempt to eliminate or reduce bias caused by systematic overpredicting or underpredicting of actual expenditures by reporters. Beginning with this article, the estimates will no longer be adjusted. The technical note explains the previous bias adjustment procedure and the reasons for its discontinuation.

Capital Expenditures by Majority-Owned Foreign Affiliates

of U.S. Companies



Prainted
 Note. – Estimates are for nonbank foreign affiliates of nonbank
 U. S. parents.

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

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^{1.} Capital expenditure estimates are for nonbank foreign affiliates of nonbank U.S. parents. Capital expenditures are expenditures that are made to acquire, add to, or improve property, plant, and equipment, and that are charged to capital accounts. They are on a gross basis; sales and other dispositions of fixed assets are not netted against them. Capital expenditures are reported to BEA in current dollars; they are not adjusted for price changes in host countries or for changes in the value of foreign currencies, because the data needed for the adjustments are unavailable.

^{2.} Detailed findings and a methodology of the 1977 benchmark survey were published in U.S. Direct Investment Abroad, 1977, U.S. Department of Commerce, Bureau of Economic Analysis. Copies may be obtained from the Superintendent of Documents, U.S. GPO, Washington, D.C. 20402, price \$10.00, stock number 003-010-00079-1.

Petroleum

Petroleum affiliates plan to increase spending 14 percent, to \$21.5 billion, compared with a 28-percent increase this year. (The 1982 estimates may be substantially revised in later surveys because several major U.S. companies could not provide reliable estimates so far in advance of actual expenditures.) Much of the increase is in Canada, Australia, and "other Africa." The size of the increase was moderated by slower growth in the United Kingdom and "other Asia and Pacific."

In developed countries, affiliates plan to increase spending 15 percent, to \$14.0 billion, following a 23-percent increase

in 1981 (tables 6 and 7). Canadian affiliates plan to step-up spending 32 percent, to \$4.3 billion, after a 5-percent increase this year. The sharp 1982 increase is mainly for improvement of downstream facilities, including modernization and expansion of refineries and new petrochemical facilities. It is planned despite the year-old Canadian National Energy Program (NEP), which calls for increased Canadian ownership of the domestic oil and gas industry, the provision of new incentives to encourage exploration by Canadian-controlled companies, and increased federal energy taxes. Although the NEP appeared to be an important factor in recent decisions by several U.S. companies to sell Canadian oil and gas properties, it does not seem to be dampening affiliates' investment in downstream facilities in Canada.

In the North Sea area, British affiliates plan to maintain spending at \$4.9 billion in 1982. Norwegian affiliates plan a 16-percent increase, to \$1.6 billion, following a similar increase this year; the 1982 increase is for continued development of offshore oilfields and gasfields. After doubling expenditures this year, Australian affiliates plan a further 44-percent increase in 1982. The increases are for development of both offshore and shale oil reserves, and re-

(Text continued on p. 66)

Table 1.—Capital Expenditures by Majority-Owned Foreign Affiliates of U.S. Companies, 1977-82

		Percent cha	inge from pre	ceding year				Billions of d	lollars		
	Act	ual expendit	ures	Latest	plans 1		Actual exp	enditures		Latest	plans 1
	1978	1979	1980 1	1981	1982	1977	1978	1979	1980 1	1981	1982
Total	9	25	30	18	6	24, 1	26, 1	32, 6	42, 4	50, 1	53, 8
By industry											
MiningPetroleum	-14 7	51 16	89 34	33 28	2 14	.5 8.9	. 4 9. 5	11. 0	1.3 14.8	1. 7 19. 0	1. 7 21. 8
Manufacturing	14	29	27	14	2	10.5	12.0	15. 4	19. 5	22, 2	22.7
Food and kindred products Chemicals and allied products Primary and fabricated metals Machinery except electrical Electric and electronic equipment Transportation equipment Other manufacturing	17 -8 7 22 23 18	25 38 11 31 26 54 3	28 14 37 18 24 49 29	12 19 27 -4 8 34 12	-2 15 19 7 9 -13 -1	2.0 .5 3.0 .7 1.6 1.8	. 9 1. 9 . 6 3. 6 . 9 1. 9 2. 1	1. 2 2. 6 . 6 4. 7 1. 1 2. 9 2. 2	1.5 3.0 .9 5.6 1.4 4.4 2.8	1. 7 3. 5 1. 1 5. 3 1. 5 5. 9 3. 2	1.7 4.1 1.3 5.7 1.6 5.1 3.2
Trade	9	37	25	6	10	2. 1	2, 2	3, 1	3.8	4.0	4.4
Finance (except banking), insurance and real estate Other industries	$-10 \\ -6$	49 22	7 28	-12 7	(*) -9	1.9	. 2 1. 8	. 3 2. 1	.3 2.7	. 3 2. 9	2. 7
By area											
Developed countries	10	25	29	13	7	18.0	19.8	24.8	31. 9	36. 1	38. 7
CanadaEurope	1 13	20 30	29 27	13 11	11 4	5. 4 11. 2	5. 4 12. 6	6. 5 16. 4	8. 3 20. 8	9. 4 23. 2	10. 4 24. 2
European Communities (9) ²	13 1 34 20 -7 9	28 26 28 27 31 42	27 23 17 33 28 26	7 -3 1 10 14 35	4 5 2 5 1 8	9. 6 1. 4 2. 0 3. 9 2. 4 1. 5	10. 9 1. 4 2. 6 4. 7 2. 2 1. 7	14. 0 1. 8 3. 4 6. 0 2. 9 2. 4	17. 8 2. 2 3. 9 8. 0 3. 7 3. 0	19. 1 2. 1 4. 0 8. 8 4. 2 4. 1	19. 8 2. 2 4. 0 9. 2 4. 3 4. 4
Japan Australia, New Zealand and South Africa	32 20	15 7	42 40	(*) 37	13 18	1. 0	. 6 1. 2	. 6 1. 3	.9 1.8	. 9 2. 5	1. 0 3. 0
Developing countries	16	20	38	36	9	4.8	5. 5	6. 6	9.0	12, 2	13. 4
Latin AmericaOther Africa	17 14 -10 56	27 12 -27 52	$\begin{bmatrix} 42 \\ 44 \\ -10 \\ 47 \end{bmatrix}$	35 38 -29 54	7 43 15 -5	2. 2 . 7 1. 2 . 7	2. 5 . 8 1. 1 1. 1	3. 2 . 9 . 8 1. 7	4. 6 1. 3 . 7 2. 5	6. 2 1. 8 . 5 3. 8	6. 6 2. 5 . 6 3. 7
International	-38	51	22	19	-29	1.3	.8	1.2	1. 5	1.8	1. 3
Addenda European Communities (10) 3 OPEC 4	10	-2	13	28	4 17	1.7	1.9	1. 9	2. 1	19. 2 2. 7	19. 9 3. 2

^{*} Less than 0.5 percent (±).

1. Based on the BEA survey taken in June 1981.

2. European Communities (9) consists of Belgium, Denmark, France, Germany, Ireland, Italy, Luxembourg, Netherlands, and the United Kingdom.

European Communities (10) consists of European Communities (9) and Greece.
 OPEC consists of Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, Venezuela, and the United Arab Emirates.

Note.-Estimates are for nonbank foreign affiliates of nonbank U.S. parents.

Table 2.—Capital Expenditures by Majority-Owned Foreign Affiliates of U.S. Companies in 1977 1 [Millions of dollars]

					[Millions	of dollar	:8]							
							Manufa	acturing					Finance (except	
	All indus- tries	Mining	Petro- leum	Total	Food and kindred products	Chemi- cals and allied products	Primary and fabri- cated metals	Machin- ery, except elec- trical	Elec- tric and elec- tronic equip- ment	Trans- porta- tion equip- ment	Other manu- factur- ing	Trade	bank- ing), insur- ance, and real estate	Other indus- tries
All countries	24, 051	516	8,856	10, 522	810	2,043	545	2,968	705	1,617	1,836	2, 053	234	1,869
Developed countries	i i	422	5, 677	8,875	581	1,611	448	2,754	533	1, 451	1, 497	1,731	213	1,095
Canada	-,	282	1,954	2,275	168	409	161	283	94	534	626	245	67	551
European Communities (9)	l '	9	3,438	5,875	341	1, 116 1, 039	276 248	2, 164	403 337	784 744	791 741	1, 272 901	112 108	490 427
Belgium. Denmark France. Germany. Ireland Italy. Luxembourg. Netherlands. United Kingdom.	703 116 1, 407 1, 950 248 583 17	0 0 1 1 0 0 0 3	2, 724 30 29 (D) 229 (D) 49 1 138 2, 028	5, 482 466 18 1, 041 1, 495 99 418 16 482 1, 447	302 111 8 43 49 8 222 0 388 123	(D) 89 174 28 34 (D) 179 168	(*) 18 95 3 11 (*) 33 76	2,071 16 (*) 571 571 4 (D) 3 (D) 455	23 6 47 109 5 32 (*) 8 107	7 7 0 163 364 3 17 0 1 190	(D) 111 134 48 (D) (D) (D) (D) 327	144 65 169 167 (D) 71 (*) (D) 227	(P)	(D) 3 82 49 (D) 40 (D) 186
Other Europe	75 34 721 27 316 158 165 6 46	2 0 1 1 0 0 0 0 0 (*)	714 (D) 7 643 2 (D) 23 8 1 (D)	393 27 19 36 12 166 98 31 2	39 3 5 0 1 26 1 2 (*)	77 3 4 (D) (D) 42 7 6 (*)	(P) 28 (P) 2 (*) 8 8 1 0 (*)	(D) 93 (P) (*) (*) 13 (D) 3 0 0	(b) (c) (d) (e) (e) (e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	40 1 0 0 (*) 35 4 0 (*) 0	(D) 8 6 (D) 16 (D) 7 1 1	371 41 6 34 13 116 29 95 2	(*) 0 0 0 2 (*) 2 0 (*) (*)	(P) (*) 7 (D) 7 (P) (P) (P) (P) (P) (P) (P) (P) (P) (P)
Japan	418	0	(D)	325	6	(D)	1	(D)	8	(*)	(D)	27	(D)	(D)
Australia, New Zealand and South Africa	743 55	131 122 2 8	(D) 148 18 (D)	400 314 19 67	67 54 1 12	(D) 53 (D) 9	10 6 0 4	(D) 18 1 (D)	28 14 1 13	132 115 (D) (D)	(D) 54 (D) (D)	187 122 11 54	(D) 6 (D)	(D) 30 (D) 4
Developing countries	4,754	94	2, 388	1,647	229	432	96	213	173	166	339	322	22	281
Latin America	,	51	409	1, 355	191	337	91	191	82	163	299	216	9	124
South America. Argentina. Brazil. Chile. Colombia. Ecuador Peru. Venezuela. Other. Central America.	172 965 16 91 21 132 185 93	33 3 4 (*) 3 0 21 0 1	285 48 29 3 26 (D) (D) 21 (D)	1, 148 94 857 4 47 10 8 105 22	136 6 97 1 4 (P) 20 (P)	292 18 230 1 14 4 1 23 (*)	(P) 1 (D) 1 (D) 1 5 (D) 15	184 27 157 0 (*) (*) (*) (*)	63 2 50 (*) 1 1 (*) 8 (*)	148 11 118 (*) 5 0 (*) 13 (*)	249 24 161 (D) 22 1 3 36 (D)	151 211 48 5 12 (P) (D) 50 3	(*) 1 0 1 0 0 0 0 0 1 (*) 2	54 5 26 2 (D) (D) 8 (D)
Mexico Panama Other	233 12 95	(*) 0 3	7 2 35	164 3 28	(*) 38 9	35 1 7	14 0 1	7 0 0	14 0 4	16 0 (*)	40 1 6	49 3 8	1 1 1	12 4 20
Other Western Hemisphere Bahamas Bermuda Netherlands Antilles Trinidad and Tobago Other	11 3 12 (D)	15 2 0 (*) 0 13	80 3 (*) (P) (P) 3	(*) 12 0 1 2 9	(*) 7 (D) (D) (D)	(*) 2 (D) (D) (D) (D)	(*) 0 0 0 0 (*)	0 0 0 0 0	(*) 0 0 (*)	0 0 0 0 0	(D)	(*) (*) 1 1 2	(*) 0 (*) 3	(P) (P)
Other Africa. Saharan Egypt Libya. Other. Sub-Saharan Liberia. Nigeria. Other.	700 385 235 103 47 316 (D) (D) 216	(P) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	587 355 224 103 29 232 (*) 68 164	31 3 1 (*) 3 27 1 13 14	(*) 0 0 (*) 5 1 1 4	7 1 1 0 (*) 6 0 5 2	(*) 0 (*) 2 0 (*) 2	(*) (*) 0 0 0 0	(D)	(*) 0 0 0 (*) 0 (*)	7 2 0 0 2 5 0 (D)	(D) (D) (D) (D) (D) (D) (D) 7	4 0 0 0 0 0 4 3 (*)	999 9999 98999
Middle East. Jsrael. OPEC. Other.	1, 176 59 1, 076 41	1 0 1 0	1,012 2 985 25	37 32 5 (*)	(D) 0 (D) 0	(D) (D) (D)	0 0 0	4 3 1 (*)	(D) (D) (D)	0 0 0	1 1 0 0	(D) 17	(*) (*)	(D) 69
Other Asia and Pacific. Hong Kong India. Indonesia Malaysia Philippines Singapore South Korea Taiwan Thailand Other	43 18 245 137 78 77	(P) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	380 (D) 210 (D) (D) (D) 28 0 (*) 4 9	224 17 16 18 22 43 33 32 27 11	(P) (P) (P) (P) (P) (P) (P) (P) (P) (P)	(D) 5 1 8 (P) 4 5 (D)	(*) (*) (*) (*) 1 1 0 0 (*)	(*) 0 (*) 0 11 2 (*) 0	(D) 2 18 4 17 (D) 19 2 (D)	(*) 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(D) 10 3 7 1 (D) 1 2 0	48 9 (*) 1 (D) 5 (D) (D) 9 3 (*)	(*) (*) (*) (*) 0 0	(P) 2 (P) (P) (P) (P) (P) 5
International	1, 283		790											493
Addendum-OPEC 2	1,747	(D)	1, 413	151	24	40	7	1	18	13	48	80	2	(D)

Note.—Estimates are for nonbank foreign affiliates of nonbank U.S. parents.

The capital expenditures data have been revised back to and including the year 1977 (see text for discussion).
 OPEC consists of Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, Venezuela, and the United Arab Emirates.

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

Table 3.—Capital Expenditures by Majority-Owned Foreign Affiliates of U.S. Companies in 1978 ¹ [Millions of dollars]

					<u></u>	fillions of d	louarsj							
							Manufa	cturing					Finance (except	
	All indus- tries	Mining	Petro- leum	Total	Food and kindred products	Chemicals and allied products	Primary and fabri- cated metals	Machin- ery except elec- trical	Elec- tric and elec- tronic equip- ment	Trans- porta- tion equip- ment	Other manu- factur- ing	Trade	bank- ing), insur- ance, and real estate	Other indus- tries
All countries	26, 120	442	9, 519	11, 959	948	1,884	583	3, 630	865	1, 911	2, 138	2, 230	211	1,759
Developed countries	19, 820	354	6, 393	10, 104	670	1,487	456	3, 323	665	1,716	1,787	1,838	161	970
Canada	5, 404	144	2, 011	2,405	168	430	136	340	108	450	774	257	82	504
European Communities (9) Belgium Denmark France. Germany Ireland Italy Luxembourg Netherlands United Kingdom	12, 639 10, 949 412 139 1, 421 2, 618 171 681 15 803 4, 691	4 2 0 0 1 1 (*) 0 0 0 2 2	4,041 3,210 36 33 (D) 301 56 (D) 1 179 2,420	6, 841 6, 420 246 26 1, 072 2, 122 102 522 13 536 1, 780	(D) 15 41 59 (D) 24 0 63 159	953 863 103 1 92 162 48 42 3 155 257	304 283 111 (D) 17 114 (*) 16 (D) 40 82	2, 538 (D) (*) 620 828 (D) (D) 2 222 527	516 443 24 6 59 142 6 42 (*) 12 153	1,084 1,047 13 1 93 627 (*) 21 0 4 287	923 862 50 (P) 149 189 37 (P) (D) 40 315	897 104 76 185 161 8 61 (*) 47 255	(P) (*) (9 27 1 (P) (*) 4 27 (P)	(D) (24 3 (D) 32 3 (D) (*) 37 208
Other Europe. Austria. Greece. Norway. Portugal. Spain. Sweden. Switzerland. Turkey. Other.	1, 690 82 43 821 30 292 158 208 10 46	(*) 1 0 0 0 0 (*) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	832 10 9 743 1 14 32 15 1 6	421 26 28 31 16 173 98 43 5 2	37 4 5 0 3 21 1 1 3 (*) 0	90 3 18 7 7 9 41 5 6 1 (*)	(D) 2 (D) 4 3 2 0 (*) (*) (D) (D)	(P) 0 (*) (*) 24 (D) 2 0 0 314	(P) 2 30 (D) 15 1 (*) 19	37 1 0 0 1 33 3 (*) 0	61 4 3 7 1 20 5 16 4 1	372 44 6 44 13 92 22 113 4 34	(*) (*) (*) (*) (*) (*) (*) (*)	(b) 2 (*) 3 (*) 12 7 (b) (*) 3 12 12
Australia, New Zealand and South	1 000	•	970	150		ca		***					_	4.
Africa Australia New Zealand South Africa	1, 226 983 54 189	204 189 1 14	278 223 (D) (D)	456 375 20 61	66 51 2 13	63 48 7 8	(D) 5 0 (D)	30 21 1 8	23 16 1 6	181 165 (D) (D)	(D) (D)	240 158 14 69	7 7 1 (*)	(D) (D)
Developing countries	5, 504	88	2, 787	1,855	278	397	127	307	199	195	351	391	51	331
Latin America	2, 529	54	611	1, 491	212	299	121	290	79	183	307	239	14	12
South America Argentina Brazil Chile Colombia Ecuador Peru Venezuela Other	1, 967 229 1, 010 43 129 31 185 266 74	24 3 3 (D) (D) 0 7 0 1	463 82 67 3 68 13 160 22 49	1, 267 117 886 23 48 11 6 164 11	149 11 91 1 5 3 (*) 33 4	252 20 174 1 14 4 1 37 (*)	101 (D) 85 (D) (D) (*) (*) 5	281 47 234 0 (*) (*) (*) (*) (*)	58 3 42 (*) 1 1 1 1 9 (*)	160 (D) 102 (D) (D) (*) 37 1	266 (D) 159 (D) 20 2 3 45	160 22 27 7 9 6 12 73 5	(*) 1 0 1 0 (*) (*) (*) (*)	52 5 26 (D) (D) 2 (*) 7 9
Central America. Mexico. Panama. Other.	373 254 18 101	(*) 5 0 5	29 7 2 20	213 167 4 41	55 37 1 17	46 39 1 6	20 20 0 (*)	9 9 0 0	21 12 (*)	23 23 0 (*)	40 28 3 9	74 62 4 9	8 6 1 1	44 11 8 25
Other Western Hemisphere	189 11 3 (D) (D) 72	25 1 0 (*) 0 25	119 (*) (D) (D) (D) 18	11 1 0 1 1 1 9	(*) 8 0 1 (*) 7	(*) (*) (*) (*) (*)	(*) 0 0 0 0 (*)	0 0 0 0 0	(*) 0 0 0 (*) (*)	0 0 0 0 0	(*) 1	(*) (*) 2 1 3	(*) (*) (*) (*) (*) 3	24 4 2 1 1 15
Other Africa Saharan Egypt Libya Other Sub-Saharan Liberia Nigeria Other	799 443 240 153 50 356 12 126 218	22 0 0 0 0 22 1 0 21	685 422 234 153 35 264 (*) 99 164	47 6 2 (*) 4 40 1 19 21	(*) 0 0 (*) 10 1 1 9	10 2 2 0 (*) 7 0 6 2	(*) 0 0 (*) 4 0 (D) (D)	(*) (*) 0 0 0 0	(*) 0 (*) 11 (D) (D)	(*) 0 0 0 (*) 0 (*)	11 3 0 0 3 8 0 2 5	26 10 1 (*) 9 16 1 8 8	(*) 1	14 5 2 0 2 9 6 (*)
Middle East Israel OPEC Other	1,062 80 921 62	(*) (*) 0	865 (D) 802 (D)	44 33 11 (*)	3 3 0 (*)	33 24 9 (*)	(*) (*) 0	5 3 1 (*)	(*) 2 0	0 0 0	1 1 0 0	(D) 38	(*) (*)	85 11 70 5
Other Asia and Pacific Hong Kong India Indonesia Malaysia Philippines Singapore South Korea Taiwan Thailand Other	1, 113 95 18 384 219 135 96 48 44 27 47	11 0 0 11 (*) 0 0 0 0 0 0 (*)	626 3 0 332 (D) 32 53 (*) (D) 5 18	273 13 18 17 (D) 70 34 34 (D) 16 4	52 1 (*) 1 (*) 40 (*) 1 4 6	55 1 3 3 1 12 (*) 26 2 5 3	(*) 0 (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)	12 2 5 (*) (*) 0 3 2 1 0 0	107 4 (D) 6 (D) 6 29 4 (D) 3 (*)	12 0 0 0 5 5 1 0 (*) (*)	(D) 33 7 1 2 (D) 3 0	(P) (D) (D) (D) (D) (D) (D) (E) (E) (E) (E) (E) (E) (E) (E) (E) (E	(P) (P) (P) (P) (P) (P)	(D) 112 (D) 1 (D) 4 (D) 0 1 5
International	796		339							•••				457
Addendum—OPEC 2	1, 913	11	1, 445	222	38	58	6	2	25	37	56	130	1	105

 $\label{eq:note-estimates} \textbf{Note.} \textbf{—} \textbf{Estimates are for nonbank foreign affiliates of nonbank U.S. parents.}$

 $^{^{\}bullet}$ Less than \$500,000. D Suppressed to avoid disclosure of data of individual companies.

See footnote 1, table 2.
 See footnote 2, table 2.

Table 4.—Capital Expenditures by Majority-Owned Foreign Affiliates of U.S. Companies in 1979 1 [Millions of dollars]

]	Manufactu	ring					Finance	
	All indus- tries	Mining	Petro- leum	Total	Food and kindred prod- ucts	Chemicals and allied products	Primary and fabri- cated metals	Machine- ry except elec- trical	Electric and elec- tronic equip- ment	Transportation equipment	Other manu- fac- turing	Trade	(except banking), insura- ance, and real estate	Other indus- tries
All countries	32, 626	666	11,036	15, 419	1, 184	2, 594	649	4,749	1,089	2, 945	2, 209	3,052	315	2, 138
Developed countries		525	7,368	12, 958	828	2, 036	526	4, 474	824	2, 483	1,787	2, 582	275	1, 135
Canada	1	263	2, 403	2,776	213	553	156	403	137	605	710	380	106	542
Europe		6	4,664	9, 224	519	1,358	357	3,694	611	1, 693	992	1,818	150	561.
European Communities (9) Belgium Denmark.	692	(*) 5	3, 595 34 62	8, 692 473 21	465 16 10	1, 243 232	338	3, 548 (D)	525 39 8	1, 669 62 1	(D) 1	1, 188 150 119	(D) 1	(D) 33
France	1, 793	0	(D) 350	1, 273 2, 826	50	100 240	(*) 24 112	(*) 790 1,137	73 161	67	169 224	238 143	(D) a	(D) 33
IrelandItaly	272	1 0	(D) 83	213 634	63 7 27	88 50	1 25	(D) (D)	12 52	(D)	(D) 84	21 85	(D) 6	19
Luxembourg Netherlands	27 885	0	161	25 631	0 89	3 137	36		1 13	0 4	(D) 54	(*) 52	(*) ₁	1 41
United Kingdom	1	3	2, 682	2, 596	204	391	130	834	166	606	265	380	28	281
Other Europe Austria Greece	131	(*)	1, 069 20 11	532 25 27	54 4 6	115 1 16	19 2 2	(D) 0	(D)	24 1 0	88 4 2	631 82 8	(P) (*)	(D) 4
NorwayPortugal	1,069	1 0	980	35 14	0 1	9 7	(D)	(0)	(D) 3	(*) 1	8 2	52 27		
Spain Sweden	449 226	ŏ		213	38	55 18	(D) (D)	(D) (D)	39	17 5	36 (D)	195 35		22
Switzerland Turkey	360 14	(*)	7	157 51 7	(*)	(*)	1 0		(D) 14	(*)	(D) 22	182 5 45	(D) 0	(D) (*)
Other	59	0	1	2	0	1	(*)	0	` ′	0	2	ł	1	4
Japan	634	0	58	462	13	58	3	337	47	2	2	94	4	16
Africa Australia	1,315 1,021	256 241	242 195	496 381	83 66	68 45	9 7			183 151	83 59	290 186	15 14	16
New Zealand South Africa	67	14	(D)	27 87	14	11 12	0 2	1	(D)	(D)	8	20	1	(D) (D)
Developing countries		141	2,933	2, 461	356	558	123		1 ''	462	422	t	1	534
Latin America		92	718	1,957	263	421	115	257	109	427	366	295	26	133
South America	2, 467	64		1,566	178	352	87	246		321	300			(D) 50
Argentina	. 1,074	(D) (*) (D)	106 54 3	217 964 11	109 2	239 2	(D) 52		57	27 166 2	177 (D)		1	(D) 14
Colombia Ecuador	122	4	47	47 13	7	20 6	3		1	(*) 0	17	21	1	3
Peru Venezuela.	. 353	11	314 32	276	(*)	43	(*)	(*)	1 12	(*)	61	20	(*)	(•)
Other	70		22	31	6	(*)	(D)		(*)	1	(D)	4		12
Central America Mexico	. 466	(*)	8	378 332	75 54	67 60	28 28	11	18		57	93	11	56 21
Panama Other				41 41	21	5	(*)			(•)	6	3	1	28
Other Western Hemisphere Bahamas				13 1	(*)	(*)	(*)			0		(*)	10	27
Bermuda Netherlands Antilles	. 4		(D) 1	0	0	0	ŏ) 0	0	0	(•)		
Trinidad and TobagoOther		0		1 10	(*)	(*)	(*)	6		0		(*)	(*) 7	16
Other Africa	. 893			47	16	10			3	(*)	12			19
Saharan Egypt Libya	. 220) 0	212	(*)	(*)	2 2 0	Ī) () (*) 0	(*)	0 0	3	0	
Other Sub-Saharan	- 63	: 0	43	4	(*)	(*)	1 1	. (0		13	0	1 1
Liberia Nigeria	- 16 - 172	$\begin{bmatrix} 2 \\ 1 \end{bmatrix}$	(*)	1 8	1 1	0	(*)		0 (*)	0	0	1	3	(*)
Other	- 285			32	i		1) 3		5		2	
Middle East	- 92	2 0	4	45	(D)	33	1 1 0		[a	0	1 2	(P)	3	(D)
OPECOther				(*)	(D) (*)	(*)	(*)	(D) (*)	0					(D) 45
Other Asia and Pacific				402 17		93		12		35		(D) 98	5 4	(D) 32:
IndiaIndonesia	. 18 481	3 0 1 42	0 395	17 19		4	· (*)	(*)	(D) 4	0	(D)	(•)	(*)	1:
Malaysia Philippines	. 293	(*)	(D) 58	(D) 123	(*)	20	: 1	• •	1 (D) 31	(D)	(D) 8	(D) 8		(D)
Singapore South Korea	. [83	3 ((*)	(D)	(*)	(*)) 3	3 45 3 (D)	20	1 1	(D) 9	0 0	(*)
TaiwanThailand	. 57	7 (*)	(D)	11	. 3	1 2	(*)		28	(*)	3	(D)	0 0	
Other	1		735		1	5	(*)	1 '	0 1	0	") 1	. (*)	46
**************************************	-1 4,400	-	130	1	-	-		-			-	-	-	1 204

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

See footnote 1, table 2.
 See footnote 2, table 2.

Note.—Estimates are for nonbank foreign affiliates of nonbank U.S. parents.

SURVEY OF CURRENT BUSINESS

Table 5.—Capital Expenditures by Majority-Owned Foreign Affiliates of U.S. Companies in 1980 $^{\rm 1}$

[Millions of dollars]

	·				[Millior	s of dollars	3] 							
							Manuf	acturing				ļ	Finance	
	All indus- tries	Mining	Petro- leum	Total	Food and kindred prod- ucts	Chemicals and allied products	Primary and fabri- cated metals	Machin- ery except elec- trical	Elec- tric and elec- tronic equip- ment	Trans- porta- tion equip- ment	Other manu- fac- turing	Trade	(except banking), insur- ance, and real estate	Other indus- tries
All countries	42, 441	1, 259	14, 776	19, 540	1, 521	2, 965	886	5, 589	1, 350	4, 381	2,848	3,802	336	2, 728
Developed countries	31, 924	947	9, 921	16, 155	999	2, 357	658	5, 144	984	3,692	2, 321	3, 111	281	1, 510
Canada	8, 339	426	3, 089	3,728	224	494	226	499	187	1, 162	937	389	106	602
Europe.	20,838	10	6, 500	11, 127	672	1,701	416	4,099	684	2, 263	1, 292	2, 238	161	801
European Communities (9) Belgium Denmark	17, 816 878	(*) 7	5, 159 63	10, 312 610	62 3 22	1, 5 3 9 196	396 7	3,941 (D)	563 45	2, 070 (D)	1, 180 48	1, 488 176	(D) (E)	(D) 2
FranceGermany	245 2, 209 3, 9 3 1	0	(D) 381	32 1, 582 3, 223	13 60 88	130 360	30 100	(*) 977	13 109 138	1 103 1,050	173 313	107 305 241	3 4	(P) 8
Ireland	273 1, 172	2 2 0	(D) 162	207 870	21 56	85 100	100 1 38	1, 174 33 (D)	3 46	(D) 26	(D) (D)	30 109	(D)	3
Luxembourg Netherlands	17 1, 134	0	219	15 768	108	180	50	300	17	0	110	(*)	(*)	(*)
United Kingdom	7, 956	3	4, 016	3, 005	256	482	170	784	192	699	423	434	86	41
Other Europe Austria Greece	3, 022 191	3 0	1, 341 (D)	815 72	49 4	162 5	20 4	158	(D)	(D)	112 7	750 98	(*)	(D) (D)
NorwayPortugal	1, 3 16 60	(*) 2 0	1, 205	21 53 23	6 0 1	11 2 3	(*) 5 (*)		(D) 1 (D)	(*) 7	(D) (D)	18 52 34	1 5 0	(A)
Spain Sweden	706	ŏ	50 32	396 169	33 1	114 18	8	(Þ) (D)	(D) 53	(D) 4	(D) 22	240 46	(*)	20
Switzerland Turkey	259 368 10	0	(D) 1	77	(*)	(*) ¹⁰	0	4 0	`´17 1	(*) 0	42 1	207	0	(P) (*) (*)
Other Japan	69 903	0	(D)	2 707	10	(*)	(*) 3	(D)	(D)	(D)	1 13	53 125	(*)	(*) (D)
Australia, New Zealand and South	200	•	(2)	101	10	88		(2)	(2)		13	120	3	(-)
Africa	1,844 1,457	511 481	(D) 255	593 453	94 65	73 52	14 8 0	(D) (D)	(D) (D)	(D) (D)	79 49	359 208	11 10	(D) 50
New Zealand South Africa	79 308	28	(D) 14	23 117	3 26	5 16	0 6	(Þ) 18	1 5	(D) 22	5 24	35 117	(*)	(D)
Developing countries	9, 048	312	3, 901	3,386	522	609	228	445	366	689	5 2 7	691	56	703
Latin America	4, 576	230	902	2,760	355	511	212	411	137	675	459	463	38	183
South America	3, 309 678	(D)	688 158	2, 079 426	200 29	439 86	160 4	388 (D)	(D) 86	441 (D)	366 50	278 52	(*)	(D)
BrazilChile	1, 435 207	(D) 1	(D) 59	1, 286 15	105 2	253 4	102 2	(D) (D)	(D) (*)	327 (*)	227 7	72 26	5 0	(D)
Colombia Ecuador Peru	219 66 312	(D) 6	(D) 247	64 41	13 11	25 7 2	(b)	(*) (*)	(D) 2	(D) 0	(D) 10 2	(D) (D)	0	(*)
VenezuelaOther	293 98	0 2	40 39	5 189 52	27 12	63 (*)	(Þ) (D)	(*)	(*) ¹ 12	(*) 31 2	(D) 46	56		(*)
Central America	979	9	55	665	148	70	52	23	50	234	87	176	`´,	65
MexicoPanama	830 41	2 0	11 2	624 14	(D)	(D)	52	23 0	(*) 47	234	83 1	158 9	3 3	31 13
Other Western Hemisphere	108 288	7 24	42 159	26 17	(D) 8	(D) 2	(*) (*)	0	3 1	(*) 0	6	9	25	23 56
Bahamas Bermuda	30 25	5	(P) 1	(*) i	(D) 0	(D) 2 0	0	ŏ	0	ŏ	(*)	(*)	(D) 20 (D	(D) 16
Netherlands Antilles Trinidad and Tobago	14 131	(*) ₀	(D) 125	(•) 3	(*)	(*)	ŏ	ŏ	(*)	Ŏ O	0 3	(*)		(Þ) 2
Other Africa	1 989	19 5	1 179	12	(D)	(D)	(*)	0	1	0	3	5	4	32
Other Africa Saharan Egypt	1, 289 495 292	0	1, 178 475 281	51 6 2	(*) 14 0	8 3 2	(*) 10 0		(*) 7 0	(*) 0	11 2 0	25 9 4	0 0	26 5 4
Libya Other	150 53	ŏ	149 45	(*) 3	(*)	0 1	(*) ŏ	(°) 0	(*)	ŏ	0 2	(*) 5	ŏ	0 1
Sub-Saharan Liberia	795 20	5 2	(*)	46 1	14 1	5 0	10	0	7	(*) ₀	9	16 1	4 2	21 13
NigeriaOther	272 502	(*) 3	253 449	8 37	11	3 2	10	0	(*) 7	(*)	3 6	4 11	(D)	(D)
Middle East Israel OPEC Other	701 92 574 35	1 0 1 0	531 6 498 27	36 33 3 (*)	5 5 1 (*)	20 20 (*) (*)	(*) (*) 0	7 5 2	3 3 0	0 0 0	(*) (*) 0	(D) 30	3 3 (*)	(D) 42
Other Asia and Pacific	2,482	76	1, 291	538	147	69	5	27	218	15	57	135	11	432
Hong KongIndia.	427	0	8 0	31 16	1 0	4 7	3 0	3 2	12 5	0	8 2	(D) (*)	(D) 0	(D) (*)
Indonesia Malaysia	750 312	(*) ⁷⁵	615 (D)	(D) 32	(*) 1	(D) 1	(*) (*)	(*) 2	3 51	0 4	(D) 28	(D) 7		(D) 8
Philippines	298 342	0	227	208 73	(*) 132 7	19 2	$\begin{bmatrix} 1 \\ 1 \\ 0 \end{bmatrix}$	15	44 46	7	9 1	(D) (D) (D)	(Þ)	(D) 18
South Korea Taiwan Thailand	55 88 162	0	(*) (D) 1	(D) (D)	3 3	(D) (D) (D)	0 0	3 1 0	13 40 3	(*) 0	(E) 3	(B) 7	0	(*)
Other	31	ō	13	8	1	6	8	ŏ	1	0	(*)	í	(*)	9
International Addendum-OPEC 2	1, 469		954	070					(D)		·	100		515
Addendum-OPEC 2	2, 116	76	1, 579	273	40	74	(D)	3	(D)	31	(D)	106	1	80

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

Note.—Estimates are for nonbank foreign affiliates of nonbank U.S. parents.

Based on the BEA survey taken in June 1981.
 See footnote 2, table 2.

Table 6.—Capital Expenditures by Majority-Owned Foreign Affiliates of U.S. Companies in 1981 [Millions of dollars]

	1		l		Millions of	ionarsj							I I	=
	All]			ecturing	l				Finance (except	Other
	indus- tries	Mining	Petro- leum	Total	Food and kindred prod- ucts	Chemicals and allied products	Primary and fabri- cated metals	Machin- ery except elec- trical	Elec- tric and elec- tronic equip- ment	Trans- porta- tion equip- ment	Other manu- fac- turing	Trade	bank- ing), in- surance, and real estate	indus- tries
All councies	50, 087	1, 671	18, 969	22, 217	1, 699	3, 524	1, 126	5, 340	1, 453	5,881	3, 195	4,016	295	2, 918
Developed countries	36,071	1, 245	12, 202	17, 685	1, 108	2,715	743	4,877	922	4,798	2, 522	3, 212	250	1,477
Canada	9, 429	560	3, 250	4,408	227	701	230	615	191	1, 400	1,045	438	86	687
Europe	23, 208	10	8, 277	11, 826	768	1,806	469	3,702	652	3, 785	1,354	2,270	144	683
European Communities (9) Belgium	19, 129 999	(*)	6,666 123	10, 168 701	707 13	1, 614 183	438 14	3,574 (D)	554 (D)	2, 029 310	1, 252 60	1, 583 153	(D) 1	(D) 20
Denmark France	281 2, 135	0	(D)	26 1, 409	13 86	178	1 45	(*) 755	7 86	1 84	1 175	109 368	(D) 3	(D) (D)
Germany Ireland	3, 968 247	(*)	591 (D)	3, 071 181	97 16	299 51	127	1, 104 26	160	927 (D)	358 (D) 75	257 19	(D) 3	(D) 44
Italy Luxembourg	1,309 43	0	209	922 39	57 0	129 3	35 0	(D)	(D)	(D) 0	(~)	(*) 89		(*)
Netherlands United Kingdom	1, 370 8, 776	0 1	449 4, 895	771 3, 048	123 302	241 530	29 184	263 776	15 182	649	97 426	89 448	76	58 3 08
Other Europe	4, 079 402	5	1,611	• 1,658	61	192	31	128	(D) 98	1,046	102	686 83	(D) (*)	(D) (D)
AustriaGreece	55 1, 518	(*) ⁰ 5	(D) 9 1, 405	284 30	4 4	$\begin{array}{c} 3 \\ 22 \\ 2 \end{array}$	(D) 5	(*)	(D) 1	(D) 0	(D) 3 11	(D)	(P) 1	(*)
Norway Portugal Spain	1, 318 89 1, 294	0 0	(D) 64	44 34 1, 032	1 45	5 134	(*) (D)	(D) 1	(D) 3	(D) 15	(D) 8	(D) 173	(*) 0	3
Sweden Switzerland	268 368	Ŏ	50 14	151 79	3 4	20	3 3	(D) 6	(D)	(*) 2	(D) 41	58 226	(*) (D)	(D)
TurkeyOther	11 75	i	1 24	2	(*)	(*) Ž	(*) 0	ŏ	(*) 1	0	(*) 2	6	(*)	(*)
Japan	905	اه	(D)	643	(D)	76	(D)	(D)	45	(D)	14	177	3	(D)
Australia, New Zealand and South		, i			,		',							
AfricaAustralia	2, 529 2, 088	675 647	(D) 5 4 9	809 593	(D) 68	133 100	(D) (D)	(D) 60	34 23 2	(D) (D)	109 67	327 211	17 16	(D) 72
New Zealand South Africa	99 341	(*) 28	(D) (D)	38 177	(D) 3	8 25	0 15	(D) (D)	9	(D) 46	12 30	27 89	(*)	(D) (D)
Developing countries	12, 265	427	5, 556	4, 532	591	809	383	463	530	1,083	673	805	45	900
Latin America	6, 160	325	1, 215	3, 780	472	662	363	412	233	1,059	579	527	31	281
South America	4, 353	291	1,003	2, 654	302	557	283 (D)	379	124	612	398	321	11	72 8
ArgentinaBrazil	854 1, 805 271	(D) 1	211 50 12	581 1, 641	77 121 2	129 334	207	(D) 0	94	(D) 408	(D) 75 2	(D) 78	(*)	21
Colombia.	415 65	9 0	297 24	12 68 28	16 9	6 25	3	(*)	(*) 4 2	(b) 0	(D) 2 9	(D) 36	1 0	21
Peru	402 383	(P) 0	287 54	28 14 227	2 53	5 5 52	2 12	(*) 3	2 12	(*) 61	33	(D) 13	(*)	(*)
VenezuelaOther	160	2	68	84	23	(*) 32	(D) 12	(*)	(*)	1	(D) 33	88 5	8	(*)
Central America Mexico	1, 515 1, 318	(*)	54 13	1, 100 1, 064	159 142	98 92	79 79	34 34	108 102	447 447	175 169	200 183	9 3	139 56
PanamaOther	72 125	12	3 39	14 22	(D)	(D) (D)	0	0	(*)	(*)	(*) 6	9 8	(*) 6	40
Other Western Hemisphere		22	157	26	111	7	(*)	0	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	6	6	11	71
Bahamas Bermuda	51 11	2 0	(*) ¹¹	(D) (*)	1 0	(D) 0	0	0	0	0	(*)	(*)	(D) (D)	(D)
Netherlands Antilles Trinidad and Tobago	34 110	(*)	(D)	(*) (D)	(*)	(*) (D)	0	0	(*)	0	0 4 2	(D) (D) (D)	(*) (D)	(D) (D)
Other	86	19	14	17	10	3	(*)	0	1	0	1	` `	(D)	26
Other Africa	1,780 611	23 0	1, 635 585	75 8	25 1	(D) 1	15	(*)	(*)	4	9	28 10	0	17
Libya	365 189	0 0	347 188 50	(*) 4 3	0	(*)	0 0 1	(*) 0	(*)	0	0	6	0 0	(4)
OtherSub-Saharan	1, 169 12	23	1 051	68 1	$\begin{bmatrix} 1\\24\\1\end{bmatrix}$	(D) 1	14 0	0		(*)	1 8 0	18	2	(*)
Liberia Nigeria Other	358 799	(D) (*) (D)	(*) 339 711	13 53	2 21	(D) 8	(*)	0	(*) (P)	(*)	3 5	(D) 5	(*)	i
Middle East	496	2	284	35	6	(D)	(*)	7	(D)	0		(D)	2	(D)
Israel OPEC	96 36 6	0 2	7 249	32 3	5 1	(D) (*)	(*)	5 2	(D)	ŏ	(2)	(D)	(*) 2	(D) 65
Other	35	ő	28	(*)	(*)	€	(0	(*)	ŏ	ŏ	ŏ	5	8	2
Other Asia and Pacific	3,828 600	77	2, 421 (D)	641 30	(*) 88	128 7	(*)	44 8	272 7	20 0	85 8	(D)	(D) 10	(D) (D)
IndiaIndonesia	30 1, 334	0 76	0 1, 224	30 22	0	8 3	0 2	(*)	(D) (D)	0	(D) (D)	(*) 7	(*)	(*)
MalaysiaPhilippines	606 311	(*)	(D) 112	(D) 161	(*)	(D) 23	(*)	(*) 3	59 39	(D) 3	16 24	(D) 12	(*)	(D) 7
SingaporeSouth Korea	437 72	0	308 (*)	101 (D)	(*) 5	(D) 3	2 0	18 7	69 14	(P) 0	(D) 3	(D) 17	(D) 0	(b) (*)
Taiwan Thailand	128 235	0	(D) 2	(D)	4 4	(D) 22	(*)	0	62 3	(*)	11 3	(D) 25	0	
Other	75	0	50	15	2	8	(*)	Ö	4	0	1	1	(*)	9
International	1,752		1, 211											541
Addenda—European Communities (10) 2	19, 184	4	6, 675	10, 198	711	1, 636	439	3, 575	555	2, 029	1, 255	1, 598	(D)	(D)
OPEC 3	2, 716	78	2,099	293	66	69	17	3	(D)	61	(D)	160	1	85

 $\label{eq:note:loss} \textbf{Note.} \textbf{—} \textbf{Estimates are for nonbank foreign affiliates of nonbank U.S. parents.}$

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

Based on the BEA survey taken in June 1981.
 Consists of European Communities (9) and Greece.
 See footnote 2, table 2.

Table 7.—Capital Expenditures by Majority-Owned Foreign Affiliates of U.S. Companies in 1982 ¹

[Millions of dollars]

					[171.	illions of do	maroj							
							Manufa	eturing				1	Finance	
	All indus- tries	Mining	Petro- leum	Total	Food and kindred prod- ucts	Chemicals and allied products	Primary and fabri- cated metals	Machin- ery except elec- trical	Electric and electronic equipment	Trans- porta- tion equip- ment	Other manu- fac- turing	Trade	(except banking), insur- ance, and real estate	Other industries
All countries	53, 295	1,699	21,548	22, 662	1,669	4,065	1,342	5,738	1,577	5, 106	3, 166	4,424	294	2,667
Developed countries	38,680	1,343	14,018	17, 903	1,074	3, 112	785	5, 233	1,045	4, 199	2,456	3,511	247	1,657
Canada	10,418	374	4, 296	4, 397	243	798	296	697	245	1,038	1,081	468	86	797
Europe	24, 247	10	8,804	12,020	705	2,072	451	3,942	715	2,891	1, 244	2,476	147	790
European Communities (9) Belgium Denmark France Germany Ireland Italy Luxembourg Netherlands United Kingdom	19, 810 832 305 2, 244 4, 035 221 1, 353 27 1, 558 9, 236	(*) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6, 948 134 151 258 740 38 173 4 560 4, 891	10, 362 516 30 1, 459 2, 990 144 969 23 826 3, 405	656 12 18 84 75 9 33 0 108 316	1,765 192 1 218 264 38 107 5 349 591	411 15 1 19 121 3 (P) 0 30	3, 806 64 (*) 780 1, 125 (D) (D) (D) 2 264 920	613 45 8 78 165 (D) 51 (D) 18 238	1, 987 136 1 105 957 (D) (D) 0 3	1, 123 52 1 174 284 40 (D) (D) 54 412	1, 699 164 118 377 254 34 177 (*) 102 473	(D) 1 (D) 3 (D) (*) (*) (*) (D) 82	(D) 16 (D) 147 (D) 4 34 (*) (D) 384
Other Europe Austria Greece Norway Portugal Spain Sweden Switzerland Turkey Other	4, 437 427 64 1, 775 115 1, 215 298 451 13 78	(*) 5 0 0 0 0 0 1	1,856 61 12 1,634 20 28 56 (D) (D) 27	1, 658 260 36 51 37 1, 016 162 91 2	(P) 49 (0) (*) 33 (D) 4 (*) 0	308 2 25 2 2 237 21 16 2 (*)	39 5 1 (P) (*) (D) 3 3 0 (*)	(D) (*) (*) (*) (*) (D) (D) (D) (D)	102 (D) (*) (D) (D) (D) (D) (D) (D) (D) (D	(D) 0 2 2 1 (D) 1 (*) 0 0	(P) 6 13 7 (D) 5 46 (*) 2	778 96 16 (D) 57 141 68 286 (D) 48	(P) (P) (P) (P) (P) (P) (P) (P) (P) (P)	(D) 11 (*) 1 1 31 11 (D) (*) 1
Japan	1,023	0	(D)	698	(D)	71	15	(D)	46	(D)	19	229	(*)	(D)
Australia, New Zealand and South Africa	2, 991 2, 558 92 341	959 932 (*) 27	(D) 788 (D) (D)	787 571 33 183	(D) 68 (D)	170 133 7 30	24 14 0 9	(D) 49 1 (D)	38 30 2 7	(D) 200 (D) (D)	112 76 5 31	338 224 30 84	(*) (*)	(D) (D) (D)
Developing countries	13, 363	356	6, 605	4,760	595	953	558	505	533	907	709	913	46	683
Latin America	6, 595	273	1,459	4,014	487	803	529	453	233	890	619	617	32	200
South America Argentina Brazil Chile Colombia Ecuador Peru Venezuela Other	4, 764 802 2, 174 209 468 62 399 487 164	225 5 1 132 (D) 0 (D) 0 3	1, 099 245 83 16 344 27 274 60 51	3,018 491 1,974 19 74 23 20 313 104	306 50 152 2 19 9 1 52 20	661 134 402 11 25 3 10 75 (*)	453 2 344 3 6 1 (D) (D)	(*) (*) (*) (*) (*) (*) (*) (*)	117 8 (D) (*) 3 2 (D) (*)	(D) 445 (*) (D) (*) (*) 109 5	406 48 288 3 (D) 8 4 35 (D)	354 49 86 34 (D) 12 (D) 104 6	(*) (D) (D) (D) (*) (*) (*) (*)	52 11 (D) 8 (D) (*) 1 10
Central America	1, 370 1, 242 40 89	10 1 0 9	42 15 3 25	969 931 15 22	172 155 (D) (D)	135 129 (D) (D)	76 75 0 (*)	29 29 0 0	115 109 (*) 7	238 238 0 (*)	204 197 (*)	256 235 13 8	8 3 5 (*)	85 57 3 25
Other Western Hemisphere	461 44 7 38 268 104	(D) 0 (D) 0 35	317 9 (*) 34 259 15	28 3 (*) (*) 7 18	(*) (*) (*) 8	(*) 2 4	(*) 0 0 0 0 (*)	0 0 0 0 0	(*) 1	0 0 0 0 0	(*) 9 0 0 5 4	7 1 1 2 (*) 3	8 1 2 (*) (*) 5	(D) 4 (D) 2 29
Other Africa Saharan Egypt Libya Other Sub-Saharan Liberia Nigeria Other	2,546 711 474 185 52 1,835 16 611 1,208	(P) (D)	2,398 694 465 184 45 1,704 (*) 590 1,114	87 4 1 (*) 3 83 1 15 66	(*) 0 0 (*) 21 1 2 18	(P) (*) (*) (D) (P)	24 1 0 0 1 23 0 1 23	(*) (*) 0 0 0 0 0	(P) (*) (*) (P) (P) (P)	(*)	18 1 0 0 1 16 0 4 13	25 9 5 1 4 16 (D) 4 (D)	(*)	15 4 4 4 0 (*) 11 10 (*)
Middle East Israel OPEC Other	570 109 421 41	2 0 2 0	359 8 319 32	39 35 3 1	6 5 1 (*)	(D) (D) (*)	(*) (*) 0	7 5 2 (*)	(D) 0	0 0 0 0	(*) (*) 0	(D) 38	(*) (*)	(D) 59
Other Asia and Pacific Hong Kong India Indonesia Malaysia Philippines Singapore South Korea Taiwan Thailand Other	3,653 427 34 1,387 615 287 289 69 161 274	63 0 0 0 62 (*) 0 0 0 0 0 0 0 1	2,389 17 0 1,294 (D) (D) 183 (*) 3 236 94	620 29 34 19 (D) 148 75 (D) 126 12 8	(*) 0 1 (*) 71 (*) 1 4 2 2	130 9 7 3 (D) 18 (D) (D) 17 4 3	(*) 0 1 1 2 0 0 (*) (*) (*) (*)	(D) (*) (D) (*) (D) (*) 21 3 1 0 0	272 (D) (D) 51 40 38 18 92 4 2	16 0 0 0 (D) 4 (D) 4 (D) 0 (*)	73 73 3 (D) 18 15 (D) 3 12 3 (*)	(D) (D) (D) (D) (D) (D) (D) (D) (D) (D)	(D) (O) (O) (O) (O) (O) (O) (O) (O) (O) (O	(D) (D) (*) (*) (*) (*) (*) (*) (*) (*) (*) (*
International. Addenda—European Communities (10) 2. OPEC 3.	1,252 19,874 3,163	4 64	925 6, 960 2, 485	10, 398 373	660 64	1, 790 91	412 (D)	3, 807 6	613 (^D)	1, 987 109	1, 129 (^D)	1,715 166	(D) 1	327 (D) 74

Note.—Estimates are for nonbank foreign affiliates of nonbank U.S. parents.

 $^{^{\}bullet}$ Less than \$500,000. $^{\rm D}$ Suppressed to avoid disclosure of data of individual companies.

Based on the BEA survey taken in June 1981.
 Consists of European Communities (9) and Greece.
 See footnote 2, table 2.

(Text continued from p. 59)

flect Australia's drive for energy self-sufficiency.

In developing countries, affiliates plan a 19-percent increase, to \$6.6 billion, after a 42-percent increase in 1981. The increase is centered in "other Africa"—particularly Nigeria, Ivory Coast, and Cameroon-where affiliates plan to continue exploration, partly to secure supplies from sources other than the Middle East. In Latin America, a large spending increase is planned by affiliates in Trinidad and Tobago for development of offshore natural gasfields. After nearly doubling expenditures for offshore oilfield and gasfield development this year, affiliates in "other Asia and Pacific"-mainly in Indonesia and Malaysia—plan to maintain their spending at \$2.4 billion in 1982.

Affiliates in "international" are planning to reduce spending 24 percent, to \$0.9 billion, in 1982, following a 27-percent increase in spending this year. The reduction reflects a decline in demand for tankers resulting from reduced demand for Middle East crude oil and some shift to pipeline transportation, mainly in the Middle East.

Manufacturing

Manufacturing affiliates plan to increase spending 2 percent, to \$22.7 billion, compared with a 14-percent increase this year. Smaller increases, or declines, are expected in all industries within manufacturing except nonelectrical machinery and electric and electronic equipment. A particularly large decline is expected in transportation equipment.

After 3 years of rapid growth, affiliates in transportation equipment plan a 13-percent decrease in spending, to \$5.1 billion, in 1982. The decrease partly reflects near-completion of several projects involving construction of assembly and parts production facilities for development of "world cars." Plans for further expansion have been dampened by recent weak worldwide demand for autos. Affiliates in food products and "other manufacturing" also plan cuts in spending—2 percent and 1 percent, respectively—after 12-percent increases

in each industry in 1981. The cuts reflect completion of several new plants and expansion projects.

Affiliates in chemicals plan a 15-percent increase in spending, to \$4.1 billion, compared with this year's 19percent increase; most of the increase in both years is for construction of petrochemical plants. Affiliates in primary and fabricated metals also plan a strong, but smaller, increase next year. In contrast, affiliates in nonelectrical machinery plan to step up spending 7 percent, to \$5.7 billion, compared with a 4-percent cut this year. The step-up is mainly for increased capitalization of computer equipment for rental. Affiliates in electric and electronic equipment plan a 9-percent increase, to \$1.6 billion, about the same increase as this year.

In developed countries, manufacturing affiliates plan a 1-percent increase, to \$17.9 billion, following a 9-percent increase in 1981. Canadian affiliates plan to maintain spending at \$4.4 billion for 1982. A large decline in spending by transportation equipment affiliates is expected to offset increases in every other manufacturing industry. The decline follows 3 years of programs to expand and modernize assembly and parts facilities and, in part, reflects sluggish North American demand for autos.

In Europe, German affiliates plan a 3-percent decrease in spending, to \$3.0 billion, following a 5-percent decrease this year; most of the decrease is in "other manufacturing" and reflects completion of a cigarette manufacturing plant this year. British affiliates plan a 12-percent increase, to \$3.4 billion. The increase is centered in nonelectrical machinery, mainly reflecting the increased capitalization of computer equipment for rental, and in transportation equipment, reflecting modernization of passenger car assembly facilities. French affiliates plan a 4-percent increase, to \$1.6 billion; affiliates in chemicals, machinery, and transportation equipment account for most of the increase. In "other Europe," affiliates plan no increase in 1982, following a doubling of expenditures, to \$1.7 billion, this year. Much of this year's particularly large increase is by transportation equipment affiliates in Spain and Austria for construction of assembly plants and parts facilities.

In developing countries, affiliates plan a 5-percent increase, to \$4.8 billion, following a 34-percent increase in 1981. The largest increase is in Brazil, where affiliates in primary and fabricated metals plan to explore for and develop bauxite reserves, and affiliates in chemicals plan to construct industrial gas plants. The increase in Brazil is partly offset by a moderate decline in Mexico, where cuts in spending are planned in transportation equipment, as a result of the completion of a new engine plant and assembly facilities.

Other industries

Mining affiliates plan to increase spending 2 percent, to \$1.7 billion, following 3 years of sizable increases. Declines in spending in Canada and Chile, reflecting completion of major expansion projects, will be offset by an increase in Australia, where affiliates are attracted by cheap, abundant power, plentiful bauxite supplies, and a favorable investment climate.

Trade affiliates plan a 10-percent increase, to \$4.4 billion, following a 6-percent increase this year. The 1982 increase is spread among several European countries, Japan, and Mexico; most of the spending is by affiliates that market information systems.

Spending by affiliates in finance (except banking), insurance, and real estate will remain at \$0.3 billion in 1982, reflecting small offsetting increases and decreases among several countries.

Affiliates in "other industries"—agriculture, construction, transportation, communication, public utilities, and other services—plan to cut spending 9 percent, to \$2.7 billion, compared with a 7-percent increase this year. Large cuts are expected by affiliates in "international," reflecting the purchase of new and used bulk ore and grain carriers this year, and in Hong Kong, where an electric power plant is to be completed this year. In contrast, a moderate increase is planned in Canada, mainly for modernization of communication equipment.

Technical Note

Beginning with 1977, estimates of capital expenditures by foreign affiliates have been revised to incorporate the results of the 1977 benchmark survey of U.S. direct investment abroad. The 1977 survey was a census, which, in terms of value, covered virtually the entire direct investment universe; reports for 14,727 majority-owned nonbank foreign affiliates of nonbank U.S. parents were received. The revisions to the expenditure estimates resulted primarily from "benchmarking" reported sample data from the capital expenditures survey (BE-133C) to the universe data from the 1977 survey.

Previously published estimates for 1977 forward were linked to the last benchmark survey, which covered 1966. Table 8 shows capital expenditures for 1977 on both bases—as reported in the 1977 benchmark survey and as previously estimated by linking to the 1966 benchmark survey. In the table, data on the two bases are not strictly comparable because of differences in definition, classification, and presentation, as summarized below. Present estimates for 1967–76 continue to be linked to the 1966 benchmark survey.

Changes in definition, classification, and presentation

Definition of majority ownership.—Prior to the 1977 benchmark survey, a majority-owned foreign affiliate was defined as an affiliate in which a single U.S. parent had an ownership interest of at least 50 percent. In the revised series, an affiliate is defined as majorityowned if the combined ownership of all U.S. parents exceeds 50 percent. Thus, the definition changed in two ways. First, the combined ownership interest of all U.S. parents, rather than the interest of a single parent, now determines majority-ownership. This change had little impact on the data because there are very few foreign affiliates with more than one U.S. parent. Second, for an affiliate to be considered majority-owned, U.S. ownership in it must now exceed 50 percent, rather than be 50 percent or more. This change had a major impact on the data, because of the significant number and size of foreign affiliates that were exactly 50 percent owned. Exclusion of these affiliates from the revised series accounts for nearly one-half of the difference between the 1977 estimate linked to the 1966 base and that linked to the 1977 base. By country, the largest changes were for Japan, the United Kingdom, the Netherlands, Germany, France, and

Industry classification.—In the previous series, the industry classification of a given affiliate was based on the affiliate's description of its operations and the products it sold, and other data from the 1966 benchmark sur-

Table 8.—Capital Expenditures in 1977 as Estimated by Linking to the 1966 Benchmark Survey and as Reported in the 1977 Benchmark Survey

[Billions of dollars]

	Estimated by linking to the 1966 survey	Reported in the 1977 survey				
Total	27, 5	24. 1				
By industry						
Mining Petroleum Manufacturing Trade Other industries ¹	1.8	. 5 8. 9 10. 5 2. 1 1. 9				
By area						
Developed countries	20.4	18. 0				
Canada Europe Japan Australia, New Zealand and South Africa	6. 2 12. 4 . 8 1. 1	5. 4 11. 2 . 4 1. 0				
Developing countries	5.6	4.8				
Latin America. Other Africa. Middle East. Other Asia and Pacific.	2.6 .7 1.4 .8	2. 2 . 7 1. 2 . 7				
International	1.5	1.3				

^{1.} Consists of finance (except banking), insurance, and real estate; agriculture; construction; transportation; communication; public utilities; and services.

vey. In the revised series, each affiliate is classified in the industry in which its sales or gross operating revenues were largest. For 1977, the classification was based on the affiliate's sales distribution, as reported in the 1977 benchmark survey. If, after 1977, an affiliate's major activity significantly changed, its industry classification was changed accordingly.

Format of published tables.—The detail by industry in tables 2–7 differs slightly from that published previously. "Paper and allied products" and "rubber products," which previously were shown separately, are now part of "other manufacturing." "Finance (except banking), insurance, and real estate," previously part of "other industries," is now shown separately.

The detail by country has been expanded from that in previously published tables. Also, Latin American countries are now grouped strictly along geographical lines; that is, according to whether they are located in South America, Central America, or "other Western Hemisphere." "Other Africa" is now divided into "Saharan" and "Sub-Saharan."

Table 1 previously showed "earlier plans" as well as "latest plans." In this article, these references to, and estimates of, "earlier plans" have been omitted, because those estimates were based on the 1966 benchmark survey and would not be comparable to the estimates of "latest plans," which are based on the 1977 benchmark survey.

Estimation procedure

For 1977, the data are those reported in the benchmark survey. The data cover majorityowned nonbank affiliates of nonbank U.S. parents. For years beginning with 1978, universe estimates were obtained by extrapolating forward the 1977 benchmark survey data, based on annual sample data collected in those years. Universe estimates were generally obtained as the sum of three components: (1) current-year data for a matched sample of affiliates—that is, for affiliates that reported in both the prior and current years, (2) current-year data for affiliates new to the sample, and (3) an estimate of current-year data for affiliates that existed in both years, but were not in the matched sample. The third component was obtained as the product of two factors: (1) the prior-year universe estimate, adjusted to exclude data for affiliates sold or liquidated since the prior year, less prioryear data for affiliates in the matched sample, and (2) the ratio of current-to-prior-year data for the matched sample. The first factor is an estimate of prior-year data for affiliates existing in both periods, but not in the matched sample. Its multiplication by the second factor assumed that the data for these affiliates grew in the current year at the same rate as the data for affiliates in the matched sample. Adjustments were made where this assumption appeared to be invalid.

Beginning with the June 1981 sample survey, U.S. respondents have increased from approximately 325 to 1.335; as a result, majority-owned foreign affiliates covered by the survey have increased from 5.000 to nearly 8.000. The sample size was increased to raise the percentage of the universe covered by the matched sample, thereby permitting more accurate estimation. This increase was necessary because, in recent years, the deterioration of the sample had lowered the coverage significantly—to 66 percent for the 1981 estimate published last March. The increased coverage will only affect the estimates for 1981 on, because 1981 is the first year for which both current-and-prior year data are available for these additional affiliates. For the 1981 estimate, the percentage of the universe covered by the sample has been raised to 88 percent.

Bias adjustment

For a given year, four estimates of projected spending are made: the A and B estimates are prepared from data reported in June and December, respectively, of the preceding year, and the C and D estimates are prepared from data reported in June and December, respectively, of the current year.

Prior to this article, the estimates of projected spending were adjusted to eliminate or reduce bias—that is, the systematic overpredicting or underpredicting of actual expenditures by reporters. For the C and D estimates, the bias adjustment procedure in-

volved calculating ratios of planned spending to actual spending (i.e., to the final, or E, estimate) for each of the previous 5 years, for each country-industry data cell shown in the tables. The adjustment for the A and B estimates involved calculating these same ratios for the first 5 of the previous 6 years; no ratio was calculated for the immediately preceding year, because actual data for that year would not yet have been available. An adjustment was made in a country-industry data cell if there was a deviation of planned from actual spending in the same direction in at least 4 of the 5 years. Cells were not adjusted when

data were below \$10 million. When an adjustment was necessary, the median ratio of planned spending to actual spending over the 5-year period was applied as an adjustment factor.

Beginning with this article, the adjustment for bias will no longer be made. Even though bias may exist, it is increasingly difficult to separate it from changes in plans due, for example, to changes in economic or operating conditions. In addition, there was a substantial amount of subjective judgment exercised by data editors as to whether or not to apply the adjustment factor. In recent years, the

adjustments have become larger in proportion to the unadjusted estimates of projected spending. Also, the adjustment to a given estimate (i.e., the A. B, C, or D) of projected spending for successive years has shown significantly more variability than in the past. At times, this resulted in large changes in the estimates at the global level, which were difficult to explain. Also, as mentioned earlier, U.S. respondents have increased from approximately 325 to 1,335. The bias adjustment procedure could not be employed for the 1,010 new respondents because data for prior years are unavailable.

CURRENT BUSINESS STATISTICS

THE STATISTICS here update series published in the 1979 edition of Business Statistics, biennial statistical supplement to the Survey of Current Business. That volume (available from the Superintendent of Documents for \$8.50, stock no. 003-010-00089-9) provides a description of each series, references to sources of earlier figures, and historical data as follows: For all series, monthly or quarterly, 1975 through 1978, annually, 1947-78; for selected series, monthly or quarterly, 1947-78 (where available).

The sources of the series are given in the 1979 edition of BUSINESS STATISTICS; they appear in the main descriptive note for each series, and are also listed alphabetically on pages 171-172. Series originating in Government agencies are not copyrighted and may be reprinted freely. Series from private sources are provided through the courtesy of the compilers, and are subject to their copyrights.

Unless otherwise stated in footnotes below, data	1978	1979	1980 1978 1979						19	80		1981				
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS			IV	I II III IV			IV	I	I II III			I II I		III	IV	
GENERAL BUSINESS INDICATORS—Quarterly Series																
NEW PLANT AND EQUIPMENT EXPENDITURES †																
Unadjusted quarterly or annual totals: Total nonfarm business bil. \$. Manufacturing do. Durable goods industries ¶	231.24 79.72 40.43	270.46 98.68 51.07	295.63 115.81 58.91	67.57 24.45 12.46	57.26 19.65 10.04	66.81 23.68 12.31	68.39 24.93 12.99	77.99 30.42 15.73	65.18 24.10 12.54	74.02 28.86 14.79	74.12 28.98 14.49	82.31 33.87 17.09	69.75 26.90 13.24	79.60 31.39 15.83 15.56	15.59	36.66 18.26
Nondurable goods industries ¶ do Nonmanufacturing do Mining do Railroad do Air transportation do Other transportation do	39.29 151.52 10.21 3.48 3.09 4.10	47.61 171.77 11.38 4.03 4.01 4.31	56.90 179.81 13.51 4.25 4.01 3.82	12.00 43.12 2.90 0.98 0.83 1.22	9.61 37.61 2.59 0.86 0.80 0.82	11.37 43.13 2.81 1.00 1.19 1.08	11.94 43.47 2.87 1.04 0.91 1.18	14.69 47.57 3.11 1.12 1.10 1.23	11.56 41.08 2.74 0.99 0.90 0.84	14.06 45.16 3.27 1.06 1.27 0.98	14.50 45.13 3.50 1.00 0.93 1.07	16.78 48.44 4.01 1.20 0.91 0.94	13.66 42.85 3.69 0.96 0.88 0.74	48.21 4.28 1.12 0.97 1.03	16.25 48.58 4.05 1.05 0.65 1.04	18.40 55.07 4.45 1.30 1.09 1.31
Public utilities do Electric do Gas and other do Trade and services do Communication and other do	29.95 24.63 5.32 68.66 32.02	33.96 27.65 6.31 79.26 34.83	35.44 28.12 7.32 81.79 36.99	8.83 7.28 1.55 19.47 8.90	7.19 6.15 1.05 17.63 7.72	8.58 7.05 1.53 19.76 8.70	8.80 7.03 1.77 19.87 8.79	9.38 7.42 1.96 22.01 9.62	8.01 6.64 1.37 19.08 8.52	8.84 7.07 1.77 20.23 9.52	8.97 6.89 2.08 20.38 9.28	9.62 7.53 2.10 22.09 9.67	7.95 6.36 1.59 19.41 9.23	9.47 7.37 2.10 21.44 9.90	9.28 7.21 2.07 21.52 10.99	10.21 7.89 2.32 24.93 11.78
Seas. adj. quarterly totals at annual rates: Total nonfarm business				247.36 86.15 43.88 42.27	255.55 90.75 46.38 44.37	265.24 94.71 49.25 45.47	273.15 100.11 52.13 47.97	284.30 106.57 55.03 51.55	291.89 111.77 58.28 53.49	294.36 115.69 59.38 56.32	296.23 116.40 58.19 58.21	299.58 118.63 59.77 58.86	312.24 124.50 61.24 63.27	316.73 125.49 63.10 62.40	1322.96 128.72 63.07 65.65	1332.69 128.11 64.06 64.05
Nonmanufacturing do Mining do Railroad do Air transportation do Other transportation do				161.21 11.03 3.68 3.41 4.36	164.80 11.23 3.90 3.49 4.04	170.52 11.01 3.83 4.03 4.16	173.04 11.40 4.13 3.95 4.60	177.73 11.86 4.24 4.55 4.41	180.13 11.89 4.46 3.90 4.11	178.66 12.81 4.06 4.27 3.76	179.83 13.86 3.98 4.06 4.18	180.95 15.28 4.54 3.77 3.39	187.74 16.20 4.23 3.85 3.66	191.24 16.80 4.38 3.29 4.04	194.23 16.12 4.22 2.84 4.00	204.58 16.70 4.84 4.44 4.60
Public utilities do. Electric do. Gas and other do. Trade and services do. Communication and other do.				32.13 26.65 5.48 73.32 33.28	32.40 26.85 5.55 76.03 33.71	34.02 27.88 6.14 79.03 34.44	35.05 28.71 6.35 78.86 35.05	34.08 27.16 6.92 82.69 35.90	36.26 28.98 7.28 82.17 37.34	35.03 27.91 7.12 81.07 37.66	35.58 28.14 7.44 81.19 36.97	34.96 27.54 7.41 82.91 36.11	36.05 27.69 8.36 84.43 40.32	37.84 29.32 8.53 85.88 39.02	36.79 29.41 7.38 86.55 43.70	37.00 28.84 8.16 92.68 44.31
U.S. INTERNATIONAL TRANSACTIONS Quarterly Data Are Seasonally Adjusted (Credits +; debits —)																
Exports of goods and services (excl. transfers under military grants) mil. \$. Merchandise, adjusted, excl. military do Transfers under U.S. military agency sales contracts mil. \$.	221,021 142,054 8,090	228,925 184,473 6,609	344,667 223,966 8,231	61,041 38,904 2,056	65,424 42,036 1,894	68,890 43,834 1,705	74,718 47,236 1,599	79,894 51,367	85,764 54,898	83,617 55,667 2,085	86,655 56,252 2,272	88,636 57,149 2,136	94,431 61,098 2,131	94,845 60,477 2,279		
Receipts of income on U.S. assets abroad do Other services	43,265 27,614 -230,030	66,700 31,145 -281,917	75,936 36,536 -333,888	12,795 7,286 -60,606	14,111 7,383 –62,885	15,582 7,769 -68,188	18,055 7,828 -72,265	18,952 8,164 -78,582	20,465 8,663 -85,981	16,860 9,005 -82,830	18,850 9,281 -80,177	19,764 9,587 -84,902	21,566 9,636 -89,641	22,235 9,854 -92,242		
Merchandise, adjusted, excl. military	-175,813 -7,352 -21,865 -25,000	-211,819 -8,556 -33,236 -28,307	-249,308 -10,746 -43,174 -30,660	-45,715 -2,045 -6,315 -6,531	-46,766 -2,028 -7,352 -6,739	-51,117 -2,029 -7,949 -7,093	-54,210 -2,164 -8,734 -7,157	-59,726 -2,334 -9,203 -7,319	-65,024 -2,656 -10,629 -7,672	-62,411 -2,512 -10,342 -7,565	-59,154 -2,727 -10,697 -7,600	-62,719 -2,851 -11,507 -7,825	-65,775 -2,699 -12,513 -8,654	-67,391 -2,865 -13,587 -8,398		
Unilateral transfers (excl. military grants), net mil. \$ U.S. Government grants (excl. military) do Other	-5,067 -3,183 -1,884	-5,593 -3,536 -2,058	-7,056 -4,659 -2,397	-1,318 -800 -518	-1,311 -854 -457	-1,381 -911 -470	-1,401 -881 -520	-1,501 -890 -611	-1,878 -1,336 -542	-1,332 -787 -545	-1,503 -912 -591	-2,344 -1,624 -720	-1,527 -977 -550	-1,530 -994 -536		
U.S. assets abroad, net	-61,070 732	-62,639 -1,133	-84,776 -8,155	-30,593 182	-8,057 -3,585	-15,639 322	-24,942 2,779	-14,003 -649	-12,639 -3,268	-24,837 502	-19,302 -1,109	-27,995 -4,279	-22,397 -4,529	-21,521 -905		
assets, net	-4,644 -57,159 -16,056	-3,767 -57,739 -23,949	-5,165 -71,456 -18,546	-991 -29,784 -4,812	-1,093 -3,379 -5,496	-971 -14,990 -7,097	-778 -26,943 -6,214	-925 -12,429 -5,142	-1,456 -7,915 -4,863	-1,187 -24,152 -2,710	-1,427 -16,766 -3,851	-1,094 -22,622 -7,122	-1,395 -16,473 -1,552	-1,475 -19,141 -3,627		
Foreign assets in the U.S., net	63,748 33,561 30,187 7,897	38,946 -13,757 52,703 11,877	50,261 15,492 34,769 10,854	27,964 18,434 9,530 1,608	2,259 -8,688 10,948 1,553	7,007 -9,785 16,792 3,353	24,345 6,011 18,334 3,382	5,335 -1,295 6,630 3,588	7,509 -7,462 14,971 2,221	7,232 7,557 -326 3,884	11,651 7,686 3,965 2,690	23,870 7,711 16,158 2,060	7,140 5,503 1,637 2,487	12,810 -3,009 15,819 2,877		
Allocation of special drawing rights	11,398	1,139 21,140	1,152 29,640	3,513	1,139 3,430	9,309	- 4 55	8,857	1,152 6,073	18,151	2,676	2,736	1,093 10,901	7,637		
Memoranda: Balance on merchandise trade	-33,759 -9,008 -10,892 -14,075	-27,346 7,008 4,950 1,414	-25,342 10,779 8,382 3,723	-6,811 435 -83 -883	-4,730 2,539 2,082 1,228	-7,283 702 232 -679	-6,974 2,453 1,933 1,052	-8,359 1,312 701 -189	-10,126 -217 -759 -2,095	-6,744 787 242 -545	-2,902 6,478 5,887 4,975	-5,570 3,734 3,014 1,390	-4,677 4,790 4,240 3,263	-6,914 2,603 2,067 1,073		

See footnotes at end of tables.

		T														:
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980			1980							1981				
in the 1979 edition of BUSINESS STATISTICS	Anı	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
	GENE	RAL	BUSI	NESS	IND	ICAT	ORS-	-Mo	nthly	Serie	es					
PERSONAL INCOME BY SOURCE †	T	Γ														
Seasonally adjusted, at annual rates: † Total personal incomebil. \$	1,943.8	2,160.2	2,179.4	2,205.7	2,234.3	2,257.6	2,276.6	2,300.7	2,318.2	2,340.4	2,353.8	2,367.4	2,384.3	^r 2,418.2	¹ 2,441.0	2,460.€
Wage and salary disbursements, total do	1,236.1	1,343.7	1,342.4	1,356.8	1,381.7	1,400.4	1,411.2	1,433.1	1,442.8	1,452.8	1,459.6	1,467.3	1,473.9	1,484.9	1,499.5	1,509.1
Commodity-producing industries, total do Manufacturing	437.9 333.4 303.0	350.7	460.0 346.7 329.4	467.7 352.5 332.6	475.8 358.8 338.6	485.2 366.2 341.4	491.1 369.9 341.7	500.5 375.6 348.4	500.3 377.2 352.6	503.2 379.4 354.8	504.8 383.7 357.0	508.1 387.8 357.7	511.5 388.8 358.7	*517.0 *391.7 *360.7	520.9 r394.4 r365.3	523.4 397.5 368.0
Service industries do	259.2	295.7	298.9	301.7	305.6	310.5	313.7	318.3	322.6	326.5	328.4	330.9	332.2	r334.4	r339.7	340.5
Govt. and govt. enterprises	236.1 118.6			254.7 140.4	261.7 141.9	263.3 143.5	264.8 145.0	265.9 146.6	267.2 148.0	268.4 149.5	269.4 150.9	270.5 151.6	271.7 153.0	272.8 154.8	'273.6 156.3	277.8 157.8
Farm do	30.8 100.7		22.0 106.3	21.9 111.4	$\frac{22.2}{111.5}$	22.6 111.5	22.6 111.6	19.9 112.8	18.7 112.6	18.2 114.2	20.2 113.0	21.7 112.2	23.2 112.2	'23.4 '112.2	r23.3 r112.4	22.5 112.4
Rental income of persons with capital consumption adjustmentbil. \$	30.5	31.8	32.0	32.2	32.3	32.4	32.5	32.5	32.7	32.9	33.1	33.3	33.5	33.7	33.9	34.1
Dividends do do Personal interest income do	48.6 209.6	54.4	55.2 261.7	55.4 263.2	55.5 265.6	55.9 269.4	56.7 274.1	57.4 281.8	58.2 289.1	58.3 295.2	59.4 297.9	60.2 300.6	61.1 304.1	62.4 r309.2	63.0 315.7	63.5 322.3
Transfer payments do Less: Personal contrib. for social insur do	249.4 80.6	294.2	309.0 88.3	313.4 89.1	313.8 90.4	313.2 91.4	314.7 91.9	318.4 101.9	318.4 102.3	321.9 102.6	322.5 102.9	323.5 103.1	326.5 103.3	r341.9	r342.0 r105.1	344.2 105.4
Total nonfarm income do	1,892.9			2,158.7	2,186.8	2,209.7	2,228.5	2,254.8	2,273.2	2,295.4	2,306.4	2,318.1	2,333.1	⁷ 2,366.4	12,388.9	2,408.9
DISPOSITION OF PERSONAL INCOME * Seasonally adjusted, at annual rates:																
Total personal income	1,943.8 302.0	338.5	341.7	2,205.7 346.5	2,234.3 354.1	2,257.6 359.9	2,276.6 363.5	2,300.7 369.3	2,318.2 371.6	2,340.4 375.1	2,353.8 378.2	2,367.4 382.5	2,384.3 388.0	r393.7	r2,441.0 r400.5	2,460.6 405.3
Equals: Disposable personal income	1,641.7 1,555.5	1,720.4	1,730.3	1,859.2 1,742.4	1,880.2 1,778.1	1,897.7 1,800.3	1,913.1 1,819.7	1,931.4 1,847.8	1,946.6 1,855.6	1,965.4 1,873.2	1,975.6 1,869.6	1,984.9 1,875.5	1,996.3 1,891.9	1,915.3	1,952.4	2,055.3 1,951.8
Personal consumption expenditures do Durable goods	1,510.9 212.3 602.2	211.9	1,683.4 210.5 674.4	1,695.2 205.2 680.9	1,729.9 222.3 690.5	1,752.0 223.4 706.8	1,771.0 224.2 713.1	1,799.3 236.6 721.5	1,806.9 237.7 726.9	1,824.1 240.5 729.6	1,820.0 229.4 733.9	1,825.7 226.4 731.5	1,841.6 226.1 740.6	'1,864.7 '230.0 '746.8	'1,901.1 '250.8 '750.6	1,900.1 239.3 752.9
Services do Interest paid by consumers to	696.3		798.4	809.1	817.1	821.9	833.7	841.2	842.4	853.9	856.6	867.9	874.9	1887.9	r899.8	908.0
business do do	43.7	46.4	45.9	46.2	46.5	46.7	47.1	47.4	47.7	48.2	48.6	48.8	49.3	49.6	¹ 50.3	50.7
foreigners (net) do	1.0		1.0	1.0	1.6	1.6	1.6	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0 *88.0	1.0 103.5
Equals: personal saving	. 86.2 . 5.2	İ	107.4 6.1	116.8 5.8	102.1 5.6	97.4 5.1	93.3 4.9	83.6 4.6	91.0	92.2 4.9	106.0 5.2	109.4	104.4	'109.2 '5.0	4.9	103.5
Disposable personal income in constant (1972)		Ì														
dollars	1,011.5	1		1,018.6	1,023.6	1,026.4 947.6	1,027.4	1,030.4 959.9	1,034.1 959.8	1,035.3 960.9	1,036.8	1,036.5	1,037.3 956.9	r1,041.4 r959.2	1,044.0 972.7	
constant (1972) dollars	146.6 354.6	135.8		928.8 129.3 353.2	941.8 139.1 356.0	139.0 362.4	951.1 139.2 362.8	146.0 364.8	146.8 365.5	147.7 363.1	955.1 139.6 366.5	953.4 136.6 365.5	136.0 368.9	137.0	148.6 369.2	
Services do	429.6		442.8	446.3	446.7	446.2	449.1	449.1	447.6	450.1	449.0	451.3	452.0	453.4		
expenditures index, 1972=100	162.3	178.9	180.5	182.5	183.7	184.9	186.2	187.4	188.3	189.8	190.6	191.5	192.5	194.4	195.5	
INDUSTRIAL PRODUCTION Federal Reserve Board Index of Quantity Output	1				İ											
Not Seasonally Adjusted																
Total index	152.5	147.0	143.7	148.9	150.0	149.3	145.8	146.4	151.7	152.7	151.5	152.6	156.5	'150.8	₽154.9	°156.5
By market groupings: Products, total	150.0 147.2		147.4 145.6	152.6 151.3	151.7 150.2	148.7 147.4	143.5 141.9	143.9 142.7	149.3 148.0	150.2 148.9	149.5 148.0	150.9 149.5	'156.0 '155.0	'151.3 '149.8	°155.5 °154.0	°158.3 °157.9
Consumer goods do Durable consumer goods do	150.8 155.8	145.4	147.5	154.1 139.3	152.5 148.4	147.4 144.9	138.1 132.1	140.8 134.1	147.0 142.8	148.1 148.3	147.2 148.3	148.4 150.5	'154.4 '153.6	r147.2	°153.8	
Nondurable consumer goods do Equipment do	148.8 142.2	148.9 145.2	157.7 143.0	160.0 147.4	154.1 147.1	148.5 147.3	140.5 147.0	143.5 145.3	148.7 149.4	148.0 149.9	146.7 149.1	147.6 151.0	154.8 155.9	152.1 153.3	P160.5 P154.4	*162.8 *158.6
Intermediate products do Materials do	160.5 156.4			157.7 143.2	157.4 147.3	153.6 150.3	149.7 149.6	148.1 150.4	154.1 155.4	155.1 156.7	155.2 154.5	155.9 155.1	'159.7 157.2	157.0 150.1	P160.8 P154.0	°159.6 °153.9
By industry groupings: Mining and utilities	144.7	149.5	156.0	151.4	144.9	148.0	153.1	158.6	158.1	154.4	145.2	145.5	r155.6	r161.4	P164.1	°159.6
Manufacturing do do Nondurable manufactures do	153.6 164.0		142.0 162.2	148.6 168.3	150.7 168.1	149.5 164.0	144.9 156.5	144.8 156.9	150.7 164.3	152.5 164.8	152.4 165.3	153.4 166.1	156.6 170.5	149.3 163.6	₽153.6 ₽171.5	°155.9 °174.1
Durable manufactures do	146.4	136.7	128.1	134.9	138.6	139.5	137.0	136.4	141.3	144.1	143.4	144.7	147.0	139.5	₽141.2	*143.4
Seasonally Adjusted Total indexdo	152.5	147.0	142.2	144.4	146.6	149.2	150.4	151.4	151.8	152.1	151.9	152.7	152.9	'153.8	₽153.3	*152.1
By market groupings: Products, total	150.0		1		!		149.4	149.9	150.2	150.7		152.3	152.2	r152.8	₽152.3	°151.4
Final products	147.2 150.8	145.3	144.5 143.3 142.9	145.6 144.1 144.5	147.1 145.7 146.3	148.7 147.4 148.1	147.8 147.1	149.9 147.8 146.9	148.2 147.8	149.0 148.3	151.3 149.9 148.9	151.3 150.7	152.2 151.4 150.3	151.9	P151.3 P149.0	°151.4 °151.0 °148.5
Durable consumer goods do	155.8	136.7	128.3	133.5	139.0	143.4	141.3	140.1	141.2	143.6	144.3	147.3	°147.9	⁷ 146.4	₽142.0	°141.3
Automotive products do Autos and utility vehicles do	167.7 154.3		120.7 93.1	131.2 106.5	140.9 119.2	146.1 125.4	139.0 116.2	130.4 102.7	133.9 108.5	139.2 116.1	142.9 120.2	151.8 129.1	⁷ 153.1 131.4	147.9 123.0	P137.0	°137.9 °109.9
Autosdo Auto parts and allied goodsdo	136.7 201.5	103.6 190.4	90.1 190.9	98.9 193.9	109.7 196.1	115.4 198.6	105.9 197.0	93.3 200.8	101.1 198.4	107.8 197.5	113.2 200.8	120.0 209.5	122.2 208.0	118.1 210.9	°103.9 °211.2	*103.4 *209.0
Home goods do Appliances, air cond., and TV do	. 149.2 . 127.4	117.3		134.7 115.8	137.8 122.2	141.8 128.4	142.6 126.4	145.6 132.2	145.2 125.8	146.1 129.1	145.0 121.2	144.8 121.4	°145.0 °120.0	145.6 123.6	°144.9 °125.9	*143.2 *122.7
Carpeting and furniture do Nondurable consumer goods do	. 173.0 . 148.8	1	142.1 148.7	147.8 148.9	150.2 149.3	154.1 150.0	157.3 149.3	156.2 149.6	160.4 150.5	160.2 150.1	165.2 150.7	163.1 152.1	166.3 151.2	'163.2 '151.7	P160.1 P151.7	°151.4
Clothing do Consumer staples do	131.9	126.0	125.6 155.2	123.5 156.0	122.5 156.7	125.5 156.7	121.0 157.2	121.2 157.5	120.9 158.6	118.9 158.8	120.6 159.0	122.1 160.3	'120.9 '159.6	121.2 160.2	P160.2	°160.0
Consumer foods and tobacco do Nonfood staplesdo	. 145.0 163.4		146.3 165.4	147.5 165.8	148.9 165.8	149.1 165.6	149.0 166.6	149.3 167.0	150.5 168.1	150.5 168.4	150.2 169.3	151.3 170.8	*149.6 *171.3	150.0 171.9	P149.6 P172.6	°172.8
Equipment do do do	142.2 171.3	145.2	143.7 171.1	143.6 170.7	144.8 171.9	146.5 173.9	148.8 177.1	149.1 177.7	148.7 177.5	150.0 179.3	151.4 181.0	152.1 182.0	153.0 183.6	°154.3 °185.1	₽154.6 ₽185.3	°154.3 °184.7
Industrial equipment #	152.2 206.3	156.5	155.4 243.8	154.0 242.5	171.9 153.5 242.8	173.9 155.3 247.9	159.1 253.3	161.5 264.0	163.4 270.4	164.6 276.6	165,9 281.7	167.0 286.4	*169.0 *289.7	169.6 1291.3	P170.8	*170.4 *293.4
Manufacturing equipment do	130.3	128.2	125.5	124.0	123.1	124.3	128.5	127.7	128.4	128.6	128.5	128.4	130.6	r130.8	P131.5	°130.8
Commercial, transit, farm eq. # do Commercial equipment	193.4 228.1	237.8		189.9 237.6	193.1 242.0	195.4 244.8	198.0 248.5	196.6 249.3	193.7 250.4	196.2 252.7	198.6 254.5	199.4 258.0	200.4 259.9	*202.9 *264.7 *128.4	P202.0 P265.8 P195.3	*201.2 *266.3 *122.9
Transit equipment do Defense and space equipment do	151.6		Į.	134.6 98.1	135.6 99.2	137.5 100.3	139.0 101.0	133.1 100.9	124.8 100.5	127.8 100.7	131.5 101.5	130.0 102.0	129.7 101.7	1	°125.3	°122.9
See footnotes at end of tables.		_			_	-			·							

See footnotes at end of tables.

Unless otherwise stated in footnotes below, data	1979	1980			1980							1981				~_===
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Anı	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
	GE	NERA	L BU	SINE	SS II	NDIC	ATOI	RS—C	Contir	nued				<u> </u>		
INDUSTRIAL PRODUCTION—Continued Seasonally Adjusted—Continued																
By market groupings—Continued Intermediate products	160.5 158.0 163.1	151.9 140.9 162.8	134.1 163.6	151.2 138.5 163.7	140.6 164.1	153.4 142.6 164.2	155.4 145.2 165.5	157.5 148.4 166.6	148.9 166.4	157.1 149.0 165.1	156.3 147.9 164.7	156.1 146.5 165.6	*154.9 *143.4 *166.2	'156.3 '144.1 '168.3	P155.7 P143.0 P168.3	°153.0 °138.2
Materials do. Durable goods materials # do. Durable consumer parts do. Equipment parts do. Nondurable goods materials # do. Textile, paper, and chemical do. Energy materials do.	156.4 157.8 137.1 189.9 175.9 183.7 128.9	107.8 187.2 171.5 177.7	131.3 96.8 176.3 161.3 164.8	142.5 133.9 102.8 176.6 171.3 176.5 127.6	145.9 139.5 108.3 179.1 174.3 180.8 126.2	150.1 146.1 113.1 184.2 175.1 182.4 128.9	152.2 147.4 113.8 186.1 179.6 187.8 129.6	153.8 150.0 114.7 189.7 180.2 187.6 130.2	150.6 114.3 188.9 179.9 187.3	154.4 152.2 118.4 191.1 177.5 185.1 130.9	152.9 151.8 119.7 192.8 179.3 186.8 123.1	153.4 152.8 121.1 194.0 179.0 187.3 123.0	154.0 *152.4 *123.1 *193.2 *176.9 *183.7 *129.3	155.4 153.4 123.1 193.7 176.9 184.1 133.5	P154.8 P153.3 P120.8 P194.1 P176.4 P183.8 P131.7	*153.1 *150.5 *117.3 *192.5 *176.6 *184.3 *130.2
By industry groupings: Mining and utilities	144.7 125.5 127.0 135.6 121.7 94.6 109.2 137.6 166.0 185.8	146.7 133.3 94.9 111.1	149.9 129.6 71.2 153.0 133.4 93.5 105.1 125.3 172.6 196.6	149.5 130.7 72.8 149.1 134.7 94.4 109.5 129.7 170.6 193.7	148.9 132.1 90.8 149.7 134.5 93.5 110.8 129.8 167.7 189.6	151.5 135.1 107.2 151.7 136.1 93.2 111.9 132.7 169.9 192.6	152.4 138.6 122.2 153.5 138.4 95.1 114.4 137.4 167.9 189.5	153.3 140.4 125.5 147.5 141.4 95.4 113.3 138.4 167.6 189.3	154.1 143.1 134.1 159.0 142.2 95.0 108.7 140.0 166.4 187.1	154.8 143.2 131.1 151.2 144.1 95.7 111.8 138.8 167.8 188.9	150.5 135.2 123.1 75.9 146.1 96.3 112.7 133.7 167.6 188.6	152.1 135.4 125.0 77.0 146.2 95.2 111.8 132.2 170.7 192.9	96.2	*159.1 *146.6 *123.1 *170.0 *147.9 96.1 *133.1 *173.1 *196.2	°158.1 °146.3 °121.9 °168.4 °148.2 °95.8 °131.7 °171.3 °193.4	*157.7 *145.9 *161.0 *149.0 *170.8 *192.6
Manufacturing do Nondurable manufactures do Foods do Tobacco products do Textile mill products do Apparel products do	153.6 164.0 147.5 117.8 145.0 134.4		141.2 157.6 148.7 118.7 134.8 125.5	143.9 161.0 149.9 119.7 133.2 123.5		148.9 163.0 151.6 123.5 136.4 125.7	150.4 165.0 151.0 118.8 135.6 122.7	151.1 165.6 151.9 123.5 138.4 123.8	151.2 166.2 152.5 125.4 139.3 121.6	151.6 165.3 152.4 125.7 136.2 120.2	152.0 165.9 151.9 122.2 138.9 121.6	152.8 166.4 152.2 122.3 138.8 122.6	r152.4 r165.8 r151.3 r120.9 r138.3 121.1	'153.1 166.9 '151.5 122.2 '140.0 122.2	P152.7 P166.7 P150.8	e151.4 e166.4
Paper and products do Printing and publishing do Chemicals and products do Petroleum products do Rubber and plastics products do Leather and products do	134.4 151.0 136.9 211.8 143.9 272.2 71.7	151.1 139.6 207.1 132.9 255.7 70.1	141.7 198.2 124.4 243.3 67.9	153.6 140.9 208.2 129.0 254.4 67.5	153.4 142.5 209.4 128.0 258.8 70.1	154.3 142.1 211.7 128.6 258.9 71.0	143.0 220.5 131.3 262.3 67.9	123.6 156.5 143.9 218.9 133.1 264.0 68.9	156.0 144.8 219.8 131.5 270.2 68.3	157.6 142.7 218.5 130.3 269.5 68.8	157.0 141.6 219.8 130.0 275.2 68.9	155.9 141.3 220.6 129.8 280.3 69.8	121.1 153.4 *143.1 *218.4 129.3 *285.1 *68.4	154.9 144.4 *220.5 *128.7 *285.3 *70.1	P155.4 P145.0 P221.0 P131.4 P283.0 P70.2	*157.1 *145.4 *131.0
Durable manufactures	146.4 75.2 136.9 161.5	136.7 78.5 119.3	129.9 78.1 120.2 140.8	132.1 78.9 121.6 144.5	135.7 79.4 121.4 146.7	139.2 79.7 123.7	140.3 79.6 123.6 148.6	141.0 78.6 127.4 150.0	140.8 78.4 126.2 154.3	142.1 78.5 125.6 155.6	142.5 79.8 126.3 158.7	143.5 80.9 126.2 158.9	r143.2 80.9	*143.6 *80.6 *122.9 *164.9	P142.9 P82.1 P117.5 P161.4	*141.0 *82.8
Clay, glass, and stone products do Primary metals do Iron and steel do Nonferrous metals do Fabricated metal products do Nonelectrical machinery do Electrical machinery do	163.9 121.3 113.2 135.8 148.5 163.7 175.0	147.5 102.3 92.4 119.8 134.1 162.8 172.8	137.1 86.9 76.0 106.3 124.8 159.6 166.8	143.8 90.6 80.4 107.2 128.8 159.5 167.4	146.2 99.6 92.0 113.2 131.7 160.9 169.8	148.8 113.2 107.6 123.2 132.3 162.9 173.0	153.0 111.5 103.0 127.1 135.7 166.9 175.1	156.8 114.1 108.7 124.1 135.8 167.3 177.6	156.4 114.5 108.4 125.9 137.6 168.3 174.9	154.6 114.9 108.0 127.7 139.2 169.2 177.4	154.3 110.6 103.4 122.2 139.5 169.7 178.8	151.7 111.9 105.6 121.6 138.4 172.1 179.9	148.1 107.4 98.5 123.1 139.3 174.1 180.1	*148.9 *109.2 99.7 *132.2 *140.0 *176.7 *180.9	P147.4 P112.1 P104.6 P127.1 P139.2 P176.7 P181.8	*107.3 *137.5 *175.4 *179.7
Transportation equipment do Motor vehicles and parts do Instruments do BUSINESS SALES	135.4 159.9 174.9	116.9 119.0 171.1	108.5 104.1 168.6	113.3 113.7 168.1	118.3 123.2 169.6	121.8 129.2 170.0	120.4 125.7 171.9	117.4 120.0 173.9	116.1 119.9 171.1	119.5 127.1 170.0	121.3 130.7 170.0	123.7 136.4 170.6	123.4 137.5 171.3	*119.8 *130.5 *172.1	P115.4 P122.8 P171.7	°114.8 °122.1 °170.3
Mfg. and trade sales (unadj.), total ‡	3,536,797 13,536,797 11,727,291	13,846,477	315,874 317,906 151,188	327,758	350,330 335,873 161,038	336,636 339,049 162,384	343,752			349,898	· '	353,099 349,245 167,527	354,442	r341,248 r354,503 r170,068	350,813	
Durable goods industries do Nondurable goods industries do Retail trade, total §	909,631 817,660 1894,343 304,809	936,030 909,906 1956,655 297,926	75,485 75,703 79,829 24,593	79,735 77,180 80,620 25,094	82,518 78,521 81,552 25,293	83,229 79,155 82,764 26,007	83,482 80,236 83,443 25,983	83,329 81,259 85,463 27,075	84,215 81,293 86,810 28,328	85,058 80,746 87,608 28,429	86,327 81,164 85,855 26,356	86,664 80,863 85,501 26,536	88,770 82,724 87,384 27,532	*87,063 *83,005 *87,350 *27,753	85,827 82,827 88,449 28,441	
Nondurable goods stores do Merchant wholesalers, total @	589,534 1915,163 410,079 505,084	658,729 11,043,886 438,439 605,447	55,236 86,889 35,353 51,536	55,526 90,223 36,937 53,286	56,259 93,282 38,110 55,172	56,757 93,901 38,799 55,102	57,460 96,591 39,403 57,188	58,388 98,967 40,370 58,597	58,482 98,016 41,511 56,505	59,179 96,486 39,907 56,579	59,499 97,577 40,299 57,278	58,965 96,217 40,584 55,633	59,852 95,564 41,045 54,519	r59,597 r97,085 r41,244 r55,841	60,008 93,710 40,164 53,546	
Mfg. and trade sales in constant (1972) dollars (seas. adj.), total *			152.9 70.8 45.4 36.7	156.8 73.6 45.4 37.7	158.6 74.6 45.4 38.6	158.8 74.4 45.9 38.4	159.4 74.4 45.7 39.2	160.5 73.9 46.7 39.9	161.4 74.3 47.1 40.1	160.4 74.3 46.8 39.2	159.8 74.8 46.0 39.0	158.5 74.2 45.7 38.5	160.2 75.7 46.4 38.1	*158.9 74.5 *45.9 38.5	157.2 73.2 46.7 37.2	
Mfg. and trade inventories, book value, end of year or month (unadj.), total ‡ mil. \$	440,354	470,769	464,625	467,343	475,798	480,304	470,769	476,328	483,898	489,556	490,985	492,671	494,485	°495,544	497,562	
Mfg. and trade inventories, book value, end of year or month (seas. adj.), total †	444,224 241,572 161,390 80,182	475,202 257,979 171,603 86,376	468,943 256,740 170,540 86,200	471,500 256,837 170,163 86,674	256,218	474,884 257,042 170,275 86,767	475,202 257,979 171,603 86,376	478,451 261,752 174,223 87,529	484,069 264,496 175,620 88,876	485,467 266,524 176,229 90,295	487,060 267,506 177,123 90,383	490,254 269,260 177,635 91,625	494,226 269,709 178,676 91,033	r271,872	272,640 182,005	
Retail trade, total \$	108,835 53,274 55,561 93,817	111,694 51,853 59,841 105,529	110,283 51,675 58,608 101,920	111,711 51,738 59,972 102,953	113,106 52,006 61,040 104,293	112,639 52,209 60,430 105,203	111,694 51,853 59,841 105,529	111,790 52,234 59,556 104,909	113,507 52,374 61,133 106,066	113,404 51,791 61,613 105,539	113,963 52,306 61,657 105,591	115,426 53,529 61,897 105,568	117,307 54,880 62,427 107,210	°119,824 56,199 °63,625 °106,402	121,393 57,067	
Durable goods establishments	60,291 33,526	67,938 37,591	65,387 36,533	65,461 37,492	65,951 38,342	66,955 38,248	67,938 37,591	67,319 37,590	68,482 37,584	68,571 36,968	69,174 36,417	69,876 35,692	70,589 36,621	⁷ 69,841 ⁷ 36,561	70,862 36,781	
end of year or month(seas.adj.),total* bil. \$ Manufacturing *do			264.4 146.4 64.7 53.3	264.2 145.9 65.1 53.3	264.3 145.2 65.7 53.5	264.1 145.1 65.4 53.6	263.0 145.0 64.6 53.4	262.8 145.5 64.3 52.9	262.9 145.8 63.9 53.1	262.6 146.1 63.5 53.0	263.2 146.4 63.8 53.0	263.9 146.6 64.3 53.1	265.4 146.3 65.2 53.8	r266.7 r146.9 66.5 r53.3	146.8 66.6	

Unless otherwise stated in footnotes below, data	1979	1980			1980							1981				
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
	GEI	NERA	L BU	SINE	SS IN	IDIC	ATOF	RS—C	ontin	ued						
BUSINESS INVENTORY-SALES RATIOS Manufacturing and trade, total ‡ratio	1.41	1.45	1.48	1.44	1.41	1.40	1.38	1.37	1.38	1.39	1.39	1.40	1.39	1.41	1.43	
Manufacturing, total †	1.57 1.98 0.65 0.85 0.48	1.65 2.16 0.70 0.96 0.50	1.70 2.26 0.71 1.02 0.53	1.64 2.13 0.67 0.96 0.50	1.59 2.06 0.65 0.93 0.48	1.58 2.05 0.64 0.93 0.48	1.58 2.06 0.64 0.93 0.48	1.59 2.09 0.66 0.96 0.47	1.60 2.09 0.66 0.95 0.47	1.61 2.07 0.65 0.95 0.47	1.60 2.05 0.65 0.94 0.47	1.61 2:05 0.64 0.92 0.46	1.57 2.01 0.63 0.92 0.46	1.60 *2.08 0.65 0.94 0.48	1.62 2.12 0.66 0.97 0.49	
Nondurable goods industries do Materials and supplies do Work in process do Finished goods do	1.12 0.46 0.18 0.47	1.13 0.46 0.18 0.48	1.14 0.46 0.18 0.50	1.12 0.45 0.18 0.49	1.10 0.45 0.18 0.48	1.10 0.45 0.17 0.48	1.08 0.44 0.18 0.46	1.08 0.44 0.18 0.46	1.09 0.45 0.18 0.47	1.12 0.45 0.18 0.48	1.11 0.45 0.18 0.48	1.13 0.45 0.19 0.49	1.10 0.44 0.18 0.49	1.10 0.44 0.17 0.49	1.09 0.44 0.18 0.48	
Retail trade, total §	1.45 2.08 1.11	1.41 2.09 1.10	1.38 2.10 1.06	1.39 2.06 1.08	1.39 2.06 1.09	1.36 2.00 1.07	1.34 2.00 1.04	1.31 1.93 1.02	1.31 1.85 1.05	1.29 1.82 1.04	1.33 1.98 1.04	1.35 2.02 1.05	1.34 1.99 1.04	1.37 *2.02 1.07	1.37 2.01 1.07	
Merchant wholesalers, total @ do Durable goods establishments do Nondurable goods establishments do Manufacturing and trade in constant (1972) dollars,	1.17 1.64 0.77	1.16 1.71 0.74	1.17 1.85 0.71	1.14 1.77 0.70	1.12 1.73 0.69	1.12 1.73 0.69	1.09 1.72 0.66	1.06 1.67 0.64	1.08 1.65 0.67	1.09 1.72 0.65	1.08 1.72 0.64	1.10 1.72 0.64	1.12 1.72 0.67	°1.10 °1.69 °0.65	1.15 1.76 0.69	
total * do. Manufacturing * do. Retail trade * do. Merchant wholesalers * do.			1.73 2.07 1.43 1.45	1.69 1.98 1.43 1.41	1.67 1.95 1.45 1.39	1.66 1.95 1.43 1.40	1.65 1.95 1.41 1.36	1.64 1.97 1.38 1.33	1.63 1.96 1.36 1.33	1.64 1.97 1.36 1.35	1.65 1.96 1.39 1.36	1.67 1.98 1.41 1.38	1.66 1.93 1.41 1.41	1.68 *1.97 1.45 *1.38	1.70 2.00 1.43 1.45	
MANUFACTURERS' SALES, INVENTORIES, AND ORDERS Manufacturers' export sales:																
Durable goods industries: Unadjusted, total	82,988	97,078	7,276 7,983	9,025 9,270	9,216 8,941	8,772 8,635	9,578 9,181	7,540 8,571	9,900 9,703	10,253 9,598	9,885 9,615	9,647 9,395	10,572 9,613			
Shipments (not seas. adj.), total †	1,727,291 909,631 44,239	1,845,936 936,030 45,519	147,823 71,609 3,907	163,812 83,673 4,221	167,307 86,823 4,259	161,492 82,459 3,977	157,597 79,978 3,665	152,094 75,385 3,476	167,163 84,746 3,903	175,250 91,521 4,277	170,022 88,627 4,364	169,040 88,289 4,279	95,046 4,592	*156,408 *78,497 *4,151	165,937 82,431 4,306	
Primary metals	136,201 66,902 115,159 166,680 112,482 200,538	134,052 62,481 116,869 182,838 125,908 191,388	9,953 4,390 9,414 13,860 10,263 12,452	11,088 5,055 10,286 16,316 11,169 17,736	11,446 5,430 10,829 16,243 11,459 19,643	11,190 5,556 10,232 15,349 11,201 18,256	10,981 5,639 10,010 16,545 10,596 16,653	11,353 5,765 9,263 15,160 9,986 15,535	12,253 6,108 10,405 16,982 11,293 17,706	12,559 6,392 11,078 18,412 11,812 20,522	12,431 6,437 10,724 17,194 11,301 19,872	12,267 6,364 10,800 16,869 11,338 20,067	12,628 6,617 11,300 18,736 12,330 21,924	*10,806 *5,736 *9,701 *15,465 *10,351 *16,373	11,511 5,925 10,540 15,927 11,258 16,349	
Motor vehicles and parts	133,099 39,343 817,660	114,909 45,994 909,906	6,824 3,872 76,214	10,796 4,166 80,139	12,908 4,124 80,484	11,594 4,104 79,033	9,860 4,059 77,619	9,980 3,641 76,709	11,236 4,027 82,416	12,912 4,327 83,729	12,664 3,979 81,395	13,045 4,148 80,751	14,397 4,552 84,932	*10,228 *3,894 *77,911	9,857 4,179 83,506	
Nondurable goods industries, total do Food and kindred products do Tobacco products do Textile mill products do	240,821 11,009 44,558	254,745 12,467 46,167	22,021 1,100 3,735	23,002 1,028 4,075	22,677 1,167 4,006	22,574 1,091 3,902 5,980	22,383 1,159 3,689	20,901 1,037 3,684	22,348 1,058 4,130 6,679	22,860 1,060 4,558	22,312 1,101 4,225 6,587	21,749 1,046 4,409	23,171 1,149 4,755	r21,057 r1,186 r3,755	22,639 1,218 4,437	
Paper and allied products do Chemical and allied products do Petroleum and coal products do Rubber and plastics products do	66,040 153,849 134,297 48,944	71,660 167,101 176,599 48,061	6,015 13,185 14,466 4,106	6,347 14,697 14,493 4,160	6,269 14,331 14,977 4,344	13,619 15,653 4,027	5,855 14,609 15,880 3,530	6,036 14,074 16,866 3,617	15,250 17,091 3,869	6,799 16,472 16,109 4,017	15,607 15,723 4,133	6,553 15,413 16,236 3,915	6,720 16,153 16,491 4,227	r6,106 r14,180 r15,772 r3,732	6,614 14,810 16,571 4,075	
Shipments (seas. adj.), total †			75,485 3,647 10,322 4,526	79,735 3,917 10,970 5,020	82,518 3,929 11,323 5,452	83,229 4,009 11,762 5,949	163,719 83,482 4,124 11,849 6,077	164,588 83,329 4,170 12,304 6,286	165,508 84,215 4,216 11,896 5,896	85,058 4,211 11,321 5,622	86,327 4,293 11,691 6,101	86,664 4,180 11,824 6,209	88,770 4,207 11,810 6,172	*170,068 *87,063 *4,250 *11,971 *6,228	168,654 85,827 4,021 11,935 6,115	
Fabricated metal products do Machinery, except electrical do Electrical machinery do Transportation equipment do Motor vehicles and parts do Instruments and related products do			9,305 14,726 10,511 15,733 9,658 3,874	9,900 15,880 10,573 16,684 9,968 3,901	10,325 16,047 10,899 17,854 11,129 3,974	10,472 16,081 11,049 17,605 10,922 3,996	10,693 16,196 10,756 17,560 11,034 4,065	10,211 16,636 10,777 16,941 10,543 4,039	10,518 16,573 11,041 17,338 10,909 4,129	10,550 16,919 11,284 18,453 11,285 4,136	10,459 16,836 11,373 18,961 11,987 4,030	10,594 16,775 11,597 19,130 12,257 4,208	10,591 17,303 11,679 20,440 13,378 4,257	"10,547 "17,070 "11,713 "18,711 "12,134 "4,308	10,439 16,915 11,538 18,981 11,979 4,186	
Nondurable goods industries, total # do Food and kindred products do Tobacco products do Textile mill products do Paper and allied products do Chemicals and allied products do Petroleum and coal products do Rubber and plastics products do			75,703 22,086 1,072 3,719 5,825 13,636 14,405 4,022	77,180 22,047 1,045 3,825 6,186 14,217 14,437 4,044	78,521 21,996 1,103 3,765 6,179 14,680 15,157 4,132	79,155 22,165 1,069 3,835 6,151 14,538 15,706 4,154	80,236 22,274 1,133 3,857 6,397 15,610 15,573 3,920	81,259 22,476 1,079 4,078 6,279 14,865 16,883 3,924	81,293 22,121 1,122 4,167 6,575 14,911 16,747 3,730	80,746 21,930 1,086 4,235 6,525 15,166 16,153 3,766	81,164 22,700 1,095 4,195 6,536 14,704 15,969 3,962	80,863 21,931 1,034 4,350 6,426 14,875 16,404 3,850	82,724 22,676 1,154 4,467 6,392 15,296 16,357 4,074	*83,005 *22,638 *1,195 *4,496 *6,493 *15,459 *15,859 *4,129	82,827 22,708 1,186 4,422	
By market category: † Home goods and appare! do Consumer staples do Equipment and defense prod., exc. auto do Automotive equipment do Construction materials and supplies do Other materials and supplies do Supplementary series:	125,499 1307,267 1246,683 153,819 146,246 1747,777	135,305 1329,448 1277,290 134,880 143,461 1825,553	10,936 28,380 22,511 11,353 11,476 66,533	11,370 28,572 24,178 11,731 12,075 68,989	11,812 28,372 23,895 12,892 12,642 71,426	11,617 28,178 24,210 12,698 12,805 72,876	11,554 29,024 24,217 12,764 12,854 73,306	11,869 28,882 24,233 12,225 13,062 74,316	12,173 28,759 24,315 12,738 13,040 74,484	12,054 28,366 25,641 13,017 13,100 73,626	12,282 29,003 25,185 13,827 13,056 74,137	12,235 28,207 25,241 14,134 12,812 74,898	12,572 29,344 25,938 15,230 12,696 75,714	*12,792 *29,219 *25,208 *14,125 *12,754 *75,970	12,234 28,975 25,767 13,848 12,304 75,526	
Household durables do Capital goods industries do. Nondefense do. Defense do	¹ 55,039 ¹ 277,017 ¹ 242,591 ¹ 34,426	¹ 57,950 ¹ 308,369 ¹ 267,211 ¹ 41,158	4,652 24,870 21,478 3,391	4,898 26,619 22,966 3,653	5,108 26,610 22,958 3,653	4,944 26,910 23,153 3,757	4,910 26,838 23,156 3,683	5,124 26,721 23,156 3,564	5,322 26,923 23,062 3,861	5,292 28,159 23,999 4,161	5,547 27,773 23,810 3,964	5,291 27,982 24,041 3,941	5,403 28,714 24,602 4,112	r5,512 r28,160 r23,931 r4,229	24,236	
Inventories, end of year or month: † Book value (unadjusted), total do Durable goods industries, total do Nondurable goods industries, total do	240,407 159,631 80,776		255,938 170,295 85,643	254,207 168,308 85,899	254,257 167,617 86,640	255,399 168,354 87,045	256,583 169,616 86,966	262,735 174,255 88,480	266,053 176,849 89,205	267,908 177,879 90,029	269,614 179,091 90,523	179,959 91,650	90,518	'180,681 '90,327	181,757 90,129	
Book value (seasonally adjusted), total † do By industry group: Durable goods industries, total # do Stone, clay, and glass products do Primary metals do Blast furnaces, steel mills do	241,572 161,390 5,726 21,446 11,792	257,979 171,603 6,145 21,976 11,844	256,740 170,540 6,071 22,261 12,393	256,837 170,163 6,016 22,022 12,152	256,218 169,781 6,058 21,900 11,949	257,042 170,275 6,062 21,919 11,881	257,979 171,603 6,145 21,976 11,844	261,752 174,223 6,223 22,771 12,190	264,496 175,620 6,369 23,240 12,454	266,524 176,229 6,398 23,640 12,722	267,506 177,123 6,390 23,402 12,362		269,709 178,676 6,599 23,334 12,169	*271,872 *180,855 *6,642 *23,926 *12,556	272,640 182,005 6,772 24,391 12,715	
Fabricated metal products do Machinery, except electrical do Electrical machinery do Transportation equipment do Motor vehicles and parts do Instruments and related products do	19,888 37,468 22,749 32,166 10,887 8,209	19,773 39,189 24,373 36,810 9,694	19,570 39,837 24,310 35,132 9,394 9,076	19,395 39,726 24,350 35,442 9,409 9,037	19,117 39,265 24,425 35,851 9,324 9,137	19,522 39,313 24,396 35,786 9,147 9,239	19,773 39,189 24,383 36,810 9,694 9,281	20,129 39,317 24,756 37,623 9,612	20,034 39,582 25,083 37,810 9,568 9,372	19,812 39,618 25,057 38,111 9,605 9,380	19,799 39,705 25,589 38,305 9,489 9,581	19,796 40,070 25,457	19,973 40,342 25,689 38,628 9,275 9,603	*20,031 *41,036 *25,987 *38,949 *9,397 *9,569	20,297 41,262 26,169 38,674 9,071	

YI-landa Alban	1979	1980			1980	* *		ļ				1981				
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Anr	l	Aug	Sont	<u> </u>	Nou	Dog	Jan.	Fob	Mon	Anu		June	Tule		Sont
		NERA	I Aug.	Sept.	Oct.	Nov.	Dec.	<u> </u>	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
MANUFACTURERS' SALES, INVENTORIES,	G13.									lucu						
AND ORDERS †—Continued Inventories, end of year or month †—Continued Book value (seasonally adjusted) †—Continued By industry group—Continued Durable goods industries—Continued							;									
By stage of fabrication: † Materials and supplies	53,496 8,225 10,905 7,103 9,042	53,808 8,924 10,993 7,229 8,836	53,734 9,041 11,250 7,381	53,587 9,000 11,176 7,379 8,274	53,338 8,974 11,066 7,391 8,281	53,181 8,868 11,050 7,321 8,262	53,808 8,924 10,993 7,229 8,836	55,293 9,429 11,003 7,491 9,123	55,870 9,522 10,942 7,488 9,258	55,495 9,401 10,843 7,340 9,594	55,857 9,135 11,123 7,577 9,627	55,282 8,695 11,069 7,556 9,549	55,816 8,849 11,212 7,581 9,762	*56,867 *9,074 *11,150 *7,626 *10,394	56,664 9,097 11,163 7,801 9,843	
Transportation equipment do Work in process # do Primary metals do Machinery, except electrical do Electrical machinery do Transportation equipment do	70,462 8,045 17,120 11,058 19,277	77,935 7,960 17,556 12,452 23,902	8,367 76,705 8,165 17,944 12,067 22,626	76,691 7,999 17,791 12,116 23,156	76,588 7,817 17,476 12,247 23,473	77,298 7,979 17,578 12,315 23,577	77,935 7,960 17,556 12,452 23,902	79,743 8,463 17,759 12,582 24,625	80,090 8,648 17,884 12,866 24,622	80,584 8,951 17,844 12,893 24,600	81,000 8,958 17,671 13,136 24,807	81,933 9,157 18,000 13,098 25,107	81,769 9,107 17,828 13,290 25,022	782,431 79,315 718,327 713,465	82,902 9,562 18,472 13,368 24,975	
Finished goods #	37,434 5,176 9,443 4,588 3,847	39,860 5,092 10,640 4,702 4,072	40,101 5,055 10,643 4,862 4,139	39,885 5,023 10,759 4,855 4,012	39,855 5,109 10,693 4,787 4,097	39,797 5,072 10,685 4,760 3,947	39,860 5,092 10,640 4,702 4,072	39,188 4,879 10,555 4,683 3,875	39,660 5,070 10,756 4,729 3,930	40,149 5,288 10,931 4,824 3,917	40,265 5,309 10,911 4,876 3,871	40,420 5,311 11,001 4,803 3,771	41,091 5,378 11,302 4,818 3,844	*41,557 *5,537 *11,559 *4,896 *3,793	42,439 5,732 11,627 5,000 3,856	
Nondurable goods industries, total # do Food and kindred products do Tobacco products do Textile mill products do Paper and allied products do Chemicals and allied products. do Petroleum and coal products. do Rubber and plastics products do	80,182 21,308 3,487 6,047 7,079 17,001 6,594 5,568	86,376 22,325 3,507 6,386 7,798 18,489 8,240 5,279	86,200 21,950 3,574 6,053 7,848 18,503 8,746 5,261	86,674 22,368 3,628 6,102 7,818 18,478 8,805 5,232	86,437 22,460 3,668 6,178 7,775 18,385 8,339 5,272	86,767 22,648 3,697 6,263 7,822 18,591 8,122 5,238	86,376 22,325 3,507 6,386 7,798 18,489 8,240 5,279	87,529 22,133 3,699 6,439 8,090 18,879 8,422 5,321	88,876 22,074 3,604 6,525 8,233 19,201 9,117 5,539	90,295 22,237 3,689 6,518 8,286 19,488 9,885 5,538	90,383 22,055 3,643 6,545 8,246 19,490 9,932 5,652	91,625 22,114 3,699 6,562 8,224 20,029 10,278 5,616	91,033 21,862 3,570 6,604 8,332 20,218 9,996 5,634	*91,017 *21,836 *3,765 *6,608 *8,429 *20,116 *9,604 *5,677	90,635 21,603 3,931 6,559 8,455 20,220 9,149 5,578	
By stage of fabrication: Materials and supplies	33,362 12,871 33,949	35,572 14,108 36,696	34,683 13,892 34,625	35,114 13,957 37,603	35,222 13,825 37,390	35,294 13,832 37,641	35,572 14,108 36,696	36,113 14,401 37,014	36,381 14,682 37,813	36,412 14,782 39,103	36,656 14,799 38,927	36,673 14,979 39,973	36,311 14,607 40,115	r36,786 r14,573 r39,658	36,227 14,696 39,712	
Home goods and apparel mil. \$ Consumer staples do Equip, and defense prod., exc. auto do Automotive equipment do Construction materials and supplies do Other materials and supplies do	19,814 30,685 61,876 13,488 20,694 95,015	20,663 32,201 69,908 11,872 21,266 102,070	20,498 31,994 69,293 11,621 20,970 102,365	20,395 31,988 69,288 11,589 20,809 102,767	20,487 32,254 69,516 11,471 20,686 101,804	20,539 32,602 69,616 11,287 20,989 102,010	20,663 32,201 69,908 11,872 21,266 102,070	20,873 32,522 70,784 11,819 21,372 104,382	21,022 32,553 71,469 11,717 21,532 106,203	21,201 32,880 71,400 11,775 21,602 107,666	21,420 32,693 72,284 11,666 21,660 107,783	21,761 32,891 72,697 11,592 22,055 108,264	21,410 32,658 73,240 11,530 22,393 108,478	r21,637 r32,826 r73,756 r11,688 r22,613 r109,352	21,960 32,956 74,083 11,352 22,747 109,542	
Supplementary series: Household durables do Capital goods industries do Nondefense do Defense do	9,978 69,027 60,421 8,606	9,992 78,245 67,224 11,021	10,080 77,072 66,735 10,337	9,980 77,469 67,021 10,447	9,956 77,707 67,009 10,698	9,941 77,933 67,118 10,815	9,992 78,245 67,224 11,021	10,065 79,571 68,154 11,418	10,139 80,243 68,616 11,628	10,236 80,456 68,473 11,984	10,360 81,266 69,100 12,165	10,323 81,608 69,335 12,273	10,250 82,376 69,676 12,700	'10,446 '83,283 '70,602 '12,681	10,615 83,625 70,929 12,696	
New orders, net (not seas. adj.), total † do Durable goods industries, total do Nondurable goods industries, total do New orders, net (seas. adj.), total † do	1,770,917 952,236 818,681 11,770,917	1,860,708 951,169 909,539 11,860,708	147,422 71,133 76,289 152,657	165,215 84,947 80,268 159,496	170,629 90,114 80,515 161,924	160,864 82,107 78,757 163,020	161,700 83,964 77,736 166,900	157,134 80,159 76,974 165,423	169,653 86,993 82,659 166,987	177,003 93,232 83,771 167,361	171,926 90,242 81,684 168,584	168,602 87,680 80,922 169,340	178,014 93,280 84,734 170,913	"156,831 "79,035 "77,796 "172,355	164,145 80,707 83,438 169,163	
By industry group: Durable goods industries, total do Primary metals	1952,236 139,164 167,296 157,112	1951,169 134,057 163,213 158,694	76,785 11,176 5,612 4,678	82,162 12,214 6,068 5,068	83,364 12,908 6,666 5,124	83,971 12,629 6,720 4,783	86,577 11,634 5,788 4,718	81,336 10,617 5,317 4,223	85,446 11,872 5,951 4,943	86,729 11,739 6,024 4,580	87,180 11,831 6,337 4,475	88,164 11,809 6,076 4,612	88,303 11,324 6,040 4,235	789,440 712,466 76,436 74,842	86,325 11,598 6,065 4,508	
Fabricated metal products do Machinery, except electrical do Electrical machinery do Transportation equipment do Aircraft, missiles, and parts do	1118,122 174,481 1118,430 1222,639 165,198	1182,782 1130,744 1202,676 163,658	11,050 16,437 4,569	9,375 16,316 10,513 18,141 4,989	11,366 16,780 3,615	16,333 11,693 16,592 3,693	11,051 18,177 4,465	17,718 11,416 17,825 5,111	11,290 18,633 5,118	16,740 11,666 19,428 6,324	10,291 17,504 11,960 18,698 3,777	10,607 17,082 11,721 20,093 5,803	12,600 19,057 4,083	r16,376 r12,055 r20,653 r6,116	9,828 17,189 11,718 20,110 5,233	
Nondurable goods industries, total	1818,681 170,301 1648,380	1909,539 1184,074 1725,465	75,872 15,213 60,659	77,334 15,958 61,376	78,560 15,717 62,843	79,049 15,691 63,358	80,323 16,072 64,251	81,216 16,123 65,093	81,541 16,936 64,606	80,632 16,666 63,966	81,404 17,083 64,321	81,176 17,052 64,124	82,610 16,814 65,796	r82,915 r17,213 r65,702	82,838 17,024 65,814	
By market category: † Home goods and apparel do Consumer staples	125,037 1307,300 1272,908 1152,456 1146,659 1766,557	'134,892 '329,506 '291,959 '133,322 '142,793 '828,236	10,960 28,389 23,770 11,179 11,336 67,024	11,384 28,568 25,902 11,854 11,985 69,804	11,755 28,361 23,535 13,105 12,812 72,356	11,516 28,169 24,406 12,874 12,821 73,235	11,623 29,035 27,534 12,828 12,857 73,023	12,009 28,908 26,746 12,281 12,869 72,611	12,494 28,746 24,742 12,922 13,001 75,082	12,245 28,376 26,834 13,089 13,154 73,662	12,328 29,075 25,606 13,822 12,843 74,909	12,083 28,188 25,365 14,258 12,755 76,691	12,776 29,384 25,025 15,083 13,166 75,479	"12,828 "29,253 "26,944 "14,218 "12,900 "76,212	12,123 28,985 27,157 13,944 11,994 74,960	
Supplementary series: Household durablesdo Capital goods industriesdo Nondefensedo Defensedo	155,000 1310,832 1270,115 140,717	158,183 1326,752 1270,571 156,181	4,719 26,198 21,283 4,915	4,945 28,187 22,518 5,669	5,100 25,611 21,625 3,986	4,861 26,707 23,350 3,357	5,040 29,656 24,664 4,991	5,264 29,353 24,823 4,530	5,675 27,436 21,185 6,251	5,473 29,307 24,460 4,848	5,603 28,699 24,723 3,976	5,119 29,248 23,865 5,383	5,625 28,186 23,230 4,956	r5,510 r29,708 r24,226 r5,482	4,996 30,025 24,195 5,830	
Unfilled orders, end of year or month (unadjusted), total †	302,889 291,856 11,033	317,661 306,995 10,666	309,461 298,796 10,665	310,864 300,070 10,794	314,186 303,361 10,825	313,558 303,009 10,549	317,661 306,995 10,666	322,700 311,769 10,931	325,192 314,017 11,175	326,943 315,727 11,216	328,847 317,342 11,505	328,411 316,736 11,675	326,446 314,968 11,478	r326,866 r315,502 r11,364	325,082 313,785 11,297	
Unfilled orders, end of year or month (seasonally adjusted) total †	304,963 293,668	319,729 308,815	312,446 301,705	304,133	315,912 304,978	305,720	319,729 308,815	320,566 309,695	310,926	312,598	324,694 313,450	326,508 314,954	325,918 314,477	r328,206	328,710 317,347	
Primary metals	30,220 16,684 8,795 31,062	30,248 17,439 9,008 30,189	26,766 14,694 8,323 30,326	28,010 15,742 8,476 29,800	29,596 16,956 8,846 29,941	30,463 17,728 8,936 29,971	30,248 17,439 9,008 30,189	28,561 16,469 8,391 30,041	28,536 16,524 8,499 30,127	28,955 16,926 8,557 30,134	29,095 17,161 8,572 29,964	29,080 17,028 8,712 29,975	28,595 16,897 8,425 30,362	r29,090 r17,105 r8,599 r30,620	17,054 8,423 30,007	
Machinery, except electrical do Electrical machinery do Transportation equipment do Aircraft, missiles, and parts do Nondur, goods ind. with unfilled orders ‡do do	74,318 42,335 101,898 75,867 11,295	74,396 47,225 113,043 88,371 10,913	72,215 45,879 113,057 90,121 10,740	72,650 45,819 114,513 90,466 10,895	72,310 46,286 113,439 89,376 10,933	72,562 46,930 112,426 88,440 10,827	74,396 47,225 113,043 88,371 10,913	75,478 47,863 113,928 89,122 10,870	74,781 48,112 115,223 89,993 11,119	74,602 48,494 116,198 91,299 11,005	75,270 49,082 115,934 90,249 11,244	75,580 49,207 116,900 91,319 11,554	75,578 50,124 115,515 90,504 11,441	774,885 750,466 7117,456 792,166 711,353	50,645 118,586 92,574	
Home goods, apparel, consumer staples do Equip. and defense prod., incl. auto do Construction materials and supplies do Other materials and supplies do	4,393 173,693 18,276 108,600	3,988 186,876 17,587 111,277	4,075 181,426 17,489	4,085 183,272 17,399 110,270	4,017 183,124 17,569 111,201	3,907 183,496 17,585	3,988 186,876 17,587 111,277	4,153 189,446 17,394 109,572	4,462 190,058 17,355 110,170	4,664 191,324 17,409 110,206	4,782 191,739 17,195 110,978	4,609 191,990 17,137 112,772	4,854 190,926 17,607 112,531	r4,922 r192,756 r17,752 r112,776	4,819 194,242	
Supplementary series: Household durables do Capital goods industries do Nondefense do Defense do	3,302 197,598 144,066 53,532	2,954 216,028 147,673	3,076 212,846 147,749 65,097	3,084 214,413 147,300	3,026 213,413 145,968	2,886 213,211 146,165	2,954 216,028 147,673	3,094 218,661 149,340	3,447 219,174 147,463	3,628 220,323 147,924 72,398	3,684 221,248 148,838 72,410	3,511 222,518 148,666	3,732 222,984 147,288	r3,728 r223,533 r147,581	3,632 224,926 147,540	

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Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980			1980							1981				
in the 1979 edition of BUSINESS STATISTICS	Anr	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
	GE	NERA	L BU	SINE	SS IN	DIC	ATOF	RS—C	ontin	ued						
BUSINESS INCORPORATIONS ‡ New incorporations (50 States and Dist. Col.): Unadjustednumber Seasonally adjusteddo INDUSTRIAL AND COMMERCIAL FAILURES ‡	524,565 	533,520	41,865 43,266	44,923 46,488	49,023 47,225	39,691 43,834	48,940 51,807	46,960 45,864	42,935 47,662	51,278 47,927	52,032 49,574					
Failures, total number. Commercial service do Construction do Manufacturing and mining do Retail trade do Wholesale trade do	7,564 930 1,378 1,165 3,183 908	11,742 1,594 2,355 1,599 4,910 1,284	1,009 126 221 160 400 102	926 121 190 134 363 118	1,323 211 282 147 532 151	860 130 168 104 373 85	1,015 150 190 150 421 104	1,109 155 229 150 468 107	1,133 153 228 156 494 102	1,212 173 228 180 505 126						
Liabilities (current), total thous. \$. Commercial service do. Construction do. Manufacturing and mining do. Retail trade do. Wholesale trade do.	2,667,362 347,749 291,323 970,178 636,859 421,253	413,502 752,109	345,408 46,133 60,678 108,231 81,870 48,496	1,002,944 26,842 41,318 804,390 56,491 73,903	359,242 50,288 59,971 106,539 86,849 55,595	239,344 54,564 29,822 59,565 62,195 33,198	288,298 27,466 46,720 65,828 124,397 23,887	421,360 124,915 69,030 98,765 99,301 29,349	34,309 54,401	485,335 40,629 51,853 219,521 87,064 86,268						
Failure annual rate (seasonally adjusted) No. per 10,000 concerns	¹27.8	142.1	45.4	45.0	56.8	39.2	46.8	48.6	47.8	47.6						
			C	OMM	ODI	ry Pi	RICE	\mathbf{s}								
PRICES RECEIVED AND PAID BY															l -	
FARMERS ¶ Prices received, all farm products1910-14=100	602	615	643	651	651	660	661	659	657	655	653	650	649	646	r628	6
Crops #	501 548 490 360 403 534	541 562 602 417 452 469	568 549 676 446 455 448	582 573 687 458 458 472	582 552 636 465 482 500	607 615 655 479 499 483	612 640 683 490 498 428	622 695 649 491 497 432	621 796 603 492 492 415	632 833 610 491 486 458	619 662 618 492 486 445	619 648 610 494 471 511	594 594 600 478 439 470	589 658 593 463 436 403	r560 r607 r549 r430 r432 r464	£ 5 5 4 4 4
Tobacco do Livestock and products # Dairy products do Meat animals do Poultry and eggs do Prices paid:	1,145 708 736 937 252	1,219 691 798 878 255	1,204 721 783 930 274	1,291 721 807 914 285	1,243 724 838 909 280	1,226 715 856 879 290	1,300 711 863 864 298	1,296 697 863 848 279	1,296 693 856 845 275	1,297 677 844 822 270	1,300 687 832 851 264	1,304 680 826 845 254	1,304 704 820 890 261	1,369 704 820 885 270	r699 r820 r877	1,4
All commodities and services	725 720 850 71	810 802 955 64	819 810 965 67	828 822 974 67	835 828 981 66	847 836 989 67	851 838 993 67	862 851 1,016 65	(2) 854 1,020 65	858 1,026 64	868 1,033 63	868 1,035 63	871 1,039 62	864 1,037 62	862 1,039 '60	1,0
Parity ratio \$	71	04	67	61	00	67	67	68	63	64	03	63	62	62	100	
ALL ITEMS, WAGE EARNERS AND CLERICAL WORKERS, REVISED (CPI-W)1967 = 100	217.7	247.0	249.6	251.9	254.1	256.4	258.7	260.7	263.5	265.2	266.8	269.1	271.4	274.6	276.5	
ALL ITEMS, ALL URBAN CONSUMERS (CPI-U)	217.4	246.8	249.4	251.7	253.9	256.2	258.4	260.5	263.2	265.1	266.8	269.0	271.3	274.4	276.5	
All items less shelter	210.8 213.0 216.1		238.5 246.3 248.1	241.0 248.6 250.4	242.1 250.9 252.6	243.6 253.2 254.9	245.2 255.5 257.1	247.6 257.6 259.2	251.2 260.4 261.9	253.3 262.3 263.7	254.9 264.2 265.4	256.2 267.0 267.6	257.8 269.5 269.9	259.9 272.7 273.0	261.4 274.9 274.9	
Commodities do Nondurables do Nondurables less food do Durables do Commodities less food do	208.4 215.9 198.7 191.1 195.1	233.9 245.0 235.2 210.4 222.0	236.7 248.3 237.8 212.4 224.2 272.5	239.0 250.2 239.3 215.3 226.6	240.7 251.0 239.6 218.1 228.3	242.5 252.4 240.5 220.6 230.0	243.8 254.1 242.0 221.1 231.0	245.4 256.9 245.3 221.0 232.4	248.3 262.3 253.2 220.3 235.4	249.8 265.2 257.5 219.8 237.0	250.8 265.9 258.1 221.1 238.0	251.9 265.8 258.2 223.9 239.6	253.2 266.2 258.0 226.6 241.1	255.0 267.1 257.5 229.6 242.6	256.2 268.1 258.4 230.9 243.8	
Services do Services less rent do Food # do	234.2 244.9 234.5	270.3 285.1 254.6	287.4 258.7	274.8 289.8 261.1	277.9 293.2 262.4	280.9 296.4 264.5	284.7 300.7 266.4	287.7 304.2 268.6	290.1 306.9 270.8	292.5 309.5 272.2	295.4 312.8 272.9	299.6 317.4 272.5	303.5 321.9 273.6	308.8 328.1 276.2	312.2 331.7 277.4	
Food at home do.	232.9 227.6 239.7 176.0 262.4 239.3 403.1 257.8	251.5 263.3 281.7 191.6 314.0 278.6 556.0 301.8	256.3 265.8 283.3 193.2 315.4 286.8 561.5 316.1	258.9 267.7 285.3 195.1 317.6 288.2 561.5 318.4	260.0 271.1 290.4 197.1 323.8 287.6 558.7 317.1	262.1 273.8 294.7 198.3 329.4 285.7 567.0 310.5	263.9 276.9 298.5 199.6 334.2 289.9 585.3 313.9	265.6 279.1 300.1 200.9 335.8 296.7 625.9 318.5	267.3 280.9 300.5 201.9 335.8 304.5 675.6 322.9	268.6 282.6 301.6 203.0 336.8 308.4 693.4 326.7	268.7 284.8 303.8 204.2 339.3 310.5 690.6 330.6	267.7 288.5 308.4 205.9 345.0 314.9 685.8 339.6	268.7 292.2 312.6 206.8 350.4 320.2 682.0 350.2	271.6 297.0 318.5 207.8 358.0 325.1 677.9 357.6	299.7 322.0 210.3 361.8 327.8 674.6 360.8	
Household furnishings and operation	190.3 166.6 212.0 212.3 166.0 201.0 200.3 239.7	205.4 178.4 249.7 249.2 179.3 208.1 251.6 265.9	207.2 178.6 252.7 251.6 181.1 206.4 261.5 268.4	209.2 182.2 254.7 253.2 181.7 214.6 271.0 270.6	210.1 183.9 256.1 254.5 181.9 222.7 273.6 272.8	211.0 184.8 259.0 257.4 184.3 230.8 277.0 274.5	211.6 183.9 261.1 259.4 184.5 234.4 280.1 275.8	212.6 181.1 264.7 262.9 185.3 234.0 286.4 279.5	214.9 182.0 270.9 269.4 184.8 234.3 288.1 282.6	216.9 185.1 273.5 271.7 182.9 235.4 293.9 284.7	219.2 186.4 275.3 273.4 186.1 239.1 297.2 287.0	220.1 186.4 277.8 276.0 190.9 245.2 297.7 289.0	221.1 185.8 279.9 277.9 192.2 252.9 303.9 291.5	222.4 184.7 282.6 279.6 192.5 260.3 323.1 295.6	222.9 187.4 283.7 280.5 191.9 266.9 326.5 299.3	
Seasonally Adjusted				1.0	ا , ا		1.0	^-		0.0	٥.	0.7				
1 1 1 1 1 1 1 1 1 1			0.8 235.9 223.4 257.6 254.6 179.4	238.9 225.9 262.0 259.8 180.9	1.0 241.1 228.0 264.4 262.2 182.1	1.1 243.5 230.0 267.6 265.6 182.8	1.0 245.2 231.3 270.2 268.0 182.8	0.7 246.6 233.6 269.8 266.9 182.5	1.0 249.2 236.8 270.6 266.8 184.0	0.6 250.5 238.1 271.6 267.9 185.8	0.4 250.5 238.1 271.6 267.3 186.1	0.7 250.9 239.0 271.0 266.0 185.7	0.7 251.8 239.9 271.5 266.2 185.8	1.2 253.7 241.6 273.8 268.6 186.8	275.9	
			250.4 249.4 182.6	254.0 252.6 184.9 274.6	256.6 255.1 183.3 277.9	259.9 258.4 183.5 281.5	262.4 260.9 183.3 285.5	267.0 265.3 183.5	273.4 272.0 183.3	275.9 274.2 182.5 292.6	275.7 273.8 185.7 295.4	276.5 274.7 190.1	277.2 275.0 192.2	279.4 276.1 193.3 308.5	281.1 277.7 193.4	

		T			****											
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	1979	1980			1980							1981				···
m the 1970 edition of Desirities STATISTICS	Anr	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
		CC)MM(DDIT	YPK	ICES	—Coı	ntinu	ed						r	
PRODUCER PRICES § (U.S. Department of Labor Indexes)																
Not Seasonally Adjusted																
Spot market prices, basic commodities: 22 Commodities	1277.1	1283.5	288.7	292.8	296.6	298.4	287.7	281.7	273.4	275.1	276.0	269.7	(²)	*************		
9 Foodstuffs	1255.6 1293.0	1264.3 1297.9	283.7 292.1	284.8 298.3	290.3 300.8	289.4 304.7	272.6 298.4	267.7 291.6	258.5 284.2	255.0 289.8	253.0 293.0	244.0 288.9	(2) (2)			
All commodities	235.6	268.8	273.8	274.6	277.8	279.1	280.8	284.8	287.6	290.3	293.4	°294.1	294.5	296.0	296.2	295.5
Crude materials for further processing do Intermediate materials, supplies, etc do	274.3 243.2	304.2 280.1	317.0 284.3	319.3 285.3	322.8 287.7	324.6 289.1	323.5 291.9	328.0 296.1	336.5 298.3	334.2 302.0	336.3 305.8	r334.4 r306.7	334.3 307.1	336.2 308.6	333.2 309.9	327.7 309.6
Finished goods #	217.7 217.9	246.8 248.8	251.4 254.1	251.4 254.1	255.4 257.0	256.2 257.9	257.2 258.9	260.9 262.5	263.3 265.0	266.0 268.2	268.5 270.6	r269.9 r271.5	269.9 271.5	271.3 272.8	271.2 272.6	271.1 272.6
Capital equipment do By durability of product:	216.5	239.5	241.9	241.8	249.2	250.2	250.9	254.6	256.7	258.1	260.8	r262.5	264.0	265.7	265.9	265.6
Durable goods do Nondurable goods do Total manufactures do	226.9 241.7 228.8	251.5 282.4 261.5	253.1 290.3 265.7	253.7 291.2 265.8	258.4 293.0 269.6	258.6 295.2 270.5	261.0 296.3 272.0	262.7 302.6 277.3	263.8 306.8 279.3	264.9 310.9 282.3	267.8 314.2 285.3	r268.6 r314.8 r286.2	268.9 315.1 286.7	270.7 316.3 288.0	271.8 315.9 288.4	271.7 314.6 288.1
Durable manufactures do Nondurable manufactures do	226.1 231.1	250.8 273.0	252.7 279.5	253.1 279.5	257.8 282.1	257.9 284.0	260.4 284.3	262.3 293.5	263.4 296.4	264.4 301.7	267.2 304.9	r268.2 r305.7	268.7 306.2	270.6 306.8	271.6 306.6	271.6 305.9
Farm prod., processed foods and feeds do	229.8	244.7	255.1	256.5	259.4	260.5	257.0	257.9	255.1	253.5	253.8	r252.9	254.1	256.6	253.9	250.0
Farm products # do Fruits and vegetables, fresh and dried do	241.4 229.0	249.4 238.6	263.8 254.0	267.0 266.2	263.6 240.9	264.9 246.6	265.3 245.1	264.5 258.7	262.4 275.1	260.7 292.8	263.3 286.1	r259.6 273.9	260.3 258.6 257.1	263.1 265.0	257.8 257.3 242.7	251.0 251.9 227.0
Grains do Live poultry do Livestock do	214.8 194.3 260.3	239.0 202.1 252.7	256.5 224.5 275.7	260.6 241.0 266.8	269.2 222.9 263.0	270.9 221.0 254.8	265.2 218.9 251.4	277.7 213.1 244.3	267.5 220.8 244.6	261.8 213.5 239.3	264.7 195.4 246.6	257.7 207.2 251.8	210.0 263.0	257.4 215.3 266.5	210.3 262.0	196.7 257.3
Foods and feeds, processed # do	222.5	241.2	249.4	249.8	256.1	257.2	251.5	253.3	250.2	248.5	247.6	r248.2	249.7	252.1	250.7	248.4
Beverages and beverage materials do Cereal and bakery products do	210.7 210.3	233.0 236.0	237.1 235.8	236.1	239.5 241.5	240.6 245.3 240.2	240.5 248.7 242.3	243.0 251.5	244.8 252.1 245.0	245.4 252.2 245.1	246.0 253.9 245.4	1247.6 1256.3 245.0	245.5 256.0 245.6	246.3 257.2 245.5	246.3 256.6 245.6	245.6 258.0 246.0
Dairy products	211.2 221.9 242.0	230.6 228.7 243.1	232.6 230.7 259.9	233.7 231.3 257.8	238.0 233.8 256.0	234.7 250.9	236.6 248.1	244.7 238.4 248.1	243.7 243.6	255.2 242.0	258.0 239.1	260.1 245.2	263.3 248.3	266.5 257.1	267.6 254.2	270.3 253.3
Industrial commodities	236.5	274.5	278.2	278.8	282.0	283.4	286.6	291.5	295.7	299.6	303.5	1304.7	304.7	306.0	307.0	307.2
Chemicals and allied products #	222.3 214.4	260.3 257.1	264.4 260.0	263.4 260.6	264.8 260.6	266.7 261.1	268.1 263.3	274.3 267.6	277.6 271.6	280.4 275.8	286.0 277.8	⁷ 288.6 ⁷ 279.1	290.3 288.9	291.4 288.9	293.2 293.8	293.3 292.3
Chemicals, industrial do Drugs and pharmaceuticals do do do do do do do do do do do do do	264.0 159.4	324.0 174.5	330.0 176.1	327.5 176.8	330.0 178.4	332.7 181.1	334.6 182.6	344.5 184.7	352.1 187.3	354.5 189.3	362.4 191.0	366.6 192.4	369.4 193.2	370.4 195.4	371.9 195.6	372.0 197.1
Fats and oils, inedible do	376.7 204.4	298.0 235.3	307.6 238.8	304.5 239.3	302.0 239.3	308.2 241.4	$317.1 \\ 241.4$	310.7 242.9	289.7 246.6	295.7 246.6	312.7 248.1	312.1 250.4	303.1 250.4	290.9 251.0	305.6 251.0	$\frac{285.6}{251.0}$
Fuels and related prod., and power # do	408.1 450.9	574.0 467.3	590.6 468.7	593.5 471.3	592.9 470.7	600.2 475.4	615.7 475.3	634.6 477.8	667.5 480.8	696.5 481.1	707.2 486.1	709.0 487.7	704.9 491.8	703.4 505.7	704.1 507.3	703.2 510.6
Electric power do Gas fuels do	270.2 544.1	321.6 760.7	333.6 772.6	338.3 786.2	337.4 802.2	333.8 825.5	337.6 844.3	341.4 857.1	346.2 881.6	351.2 889.9	355.5 907.8	360.7 933.9	366.9 931.6	374.9 946.6	383.6 952.4	382.0 979.7
Petroleum products, refined do	444.8	674.7	697.6	696.4	690.4	697.6	717.0	736.9	769.6	825.5	840.9	¹ 835.3	827.7 197.1	818.4	813.4	805.7
Furniture and household durables # do Appliances, household	171.3 160.9 186.3	187.7 174.2 204.8	188.9 176.3 208.0	189.5 177.2 208.5	190.9 177.5 209.8	191.5 178.5 210.9	193.1 179.5 212.1	194.0 182.2 212.9	195.2 183.5 213.8	195.8 184.2 214.5	196.4 185.1 216.5	197.4 184.2 217.6	184.8 218.9	198.9 187.5 220.4	199.5 187.7 221.4	200.7 188.3 223.3
Home electronic equipment do	91.3	91.4	91.3	91.6	91.5	91.2	91.0	91.1	91.3	91.4	90.9	91.0	86.9	87.1	87.5	87.8
Hides, skins, and leather products # do	252.4 218.0	248.9 233.1	251.3 233.7 398.4	247.8 235.5	251.2 236.6 381.5	255.4 237.5 409.1	256.9 236.9 392.8	258.2 238.4 377.5	257.7 240.7 367.4	261.2 240.4 (²)	263.5 241.1	r263.7 241.1	262.8 241.0	262.1 241.9	261.7 242.3	263.0 242.0
Hides and skins	535.4 356.7 300.4	370.9 310.6 288.9	314.2 296.1	356.1 298.1 292.2	301.9 289.0	317.3 293.4	332.4 299.4	332.6 296.5	310.0 294.7	322.5 294.4	337.8 299.4	337.0	321.0 297.9	317.4 295.5	312.2 294.3	311.7 289.1
Lumber do	354.3	325.8	333.7	328.0	320.6	324.9	333.0	331.3	326.9	326.2	333.6	r336.3	335.0	330.1	329.3	319.7
Machinery and equipment #	213.9 232.1 256.2	239.8 259.2 289.4	242.6 259.9 293.4	244.7 263.9 295.7	246.8 265.4 299.1	248.3 271.6 300.1	249.8 272.9 301.4	253.3 276.4 305.9	255.3 278.4 310.0	257.5 279.8 312.8	259.6 282.5 317.0	r260.7 284.4 318.3	261.9 285.9 320.0	264.5 287.3 324.0	266.0 289.3 324.9	267.8 292.0 326.6
Construction machinery and equip do Electrical machinery and equip do Metalworking machinery and equip do	178.9 241.3	201.7 274.4	205.0 278.8	206.0 280.2	207.0 282.5	207.5 283.9	208.9 285.7	211.9 289.7	213.7 291.6	216.0 294.9	217.4 298.7	217.5 299.9	219.0 300.9	221.0 303.0	222.8 303.6	224.1 305.3
Metals and metal products # do	259.3	286.4	285.1	287.3	291.9	291.1	290.6	294.0	294.0	296.4 219.5	298.8 219.8	299.1 221.7	298.5 222.9	302.5 225.7	304.3	305.1 227.9
Heating equipment do Iron and steel do Nonferrous metals do	187.1 283.5 261.7	206.5 305.2 305.0	208.0 302.6 298.4	208.8 304.5 302.2	210.6 310.5 309.4	212.0 312.7 302.1	214.0 316.4 293.4	216.6 323.0 292.1	217.6 323.2 287.4	328.2 286.5	331.0 288.4	r330.4 r287.7	329.9 284.9	338.7 283.3	227.2 339.7 287.7	339.7 290.0
Nonmetallic mineral products # do	248.6	283.0	286.0	286.8	288.6	288.7	291.2	296.6	297.9	300.9	310.8	'312.0	312.8	313.9	314.0	313.1
Clay prod., structural, excl. refrac	217.9 244.1 252.3	231.5 273.9 256.3	229.7 276.0 251.8	230.1 277.3 251.8	233.3 277.5 249.5	233.5 277.7 253.3	233.6 277.6 252.7	239.5 286.2 259.6	239.8 286.6 257.3	244.6 286.9 257.6	246.0 289.9 256.8	249.6 290.7 261.1	249.5 293.2 260.7	250.3 293.0 259.7	250.4 293.0 255.3	254.8 292.9 252.9
Pulp, paper, and allied products do Paper do	219.0 229.6	249.2 256.8	252.4 258.6	252.8 258.7	254.3 262.1	255.0 264.1	256.7 269.4	264.4 271.7	267.2 272.9	269.0 273.8	271.4 275.2	r272.1 276.1	272.7 278.8	273.8 280.0	275.7 283.8	276.9 287.1
Rubber and plastics products	194.3 205.9	217.4 236.9	220.5 238.0	222.0 242.1	222.8 245.2	223.4 245.2	223.3 245.2	224.8 240.9	226.4 243.5	228.4 248.6	230.8 250.7	⁷ 231.8 250.8	233.7 250.8	°233.5 251.0	234.4 251.0	$236.0 \\ 256.5$
Textile products and apparel do Synthetic fibers Dec. 1975=100	168.7 119.0	183.5 134.7	185.6 137.5	186.6 139.5	188.1 140.2	189.6 140.7	190.4 140.8	193.1 146.5	193.9 147.1	195.2 148.9	197.6 151.5	r199.2 156.7	199.5 158.2	200.5 158.6	201.4 162.0	$202.5 \\ 162.3$
Processed yarns and threads	109.2 127.1	122.5 138.1	123.2 137.5	124.3 141.0	125.1 143.5	125.8 145.0	$128.2 \\ 144.0$	129.8 143.6	130.3 144.0	134.6 144.7	135.0 146.6	137.1 146.1	138.9 146.6	139.0 147.4	139.3 148.2	141.8 148.1
Finished fabrics do Apparel 1967 = 100.	107.4 160.4	115.7 172.4	116.8 175.1	117.0 175.0	118.3 176.2	119.1	120.1 177.5	122.2	122.9 180.7	123.2 181.4	124.9 184.3	124.7 182.4 231.1	124.8 185.0 228.1	125.2 186.2	125.9 186.5	126.2 187.2 236.6
Textile house furnishings	190.4 188.1	206.9 207.0	211.0 208.8	212.9	213.8 217.4	213.8 217.8	214.3 224.3	219.8 227.4	221.3 229.1	221.3 228.1	222.1 231.9	⁷ 233.6	234.1	231.6 235.3	231.6 235.8	231.7
Transportation equipment #Dec. 1968=100 Motor vehicles and equip 1967=100 Seasonally Adjusted ‡	190.5	208.8	211.7	205.6	218.2	218.6	226.2	229.0	230.9	229.5	233.9	r236.0	236.4	237.5	238.1	232.6
Finished goods, percent change from previous						_										
month By stage of processing: †		' i	1.2	0.3	0.9	0.7	0.4	1.2	0.8	1.2	0.8	10.4	0.3	0.4	0.3	0.2
Crude materials for further processing 1967 = 100. Intermediate materials, supplies, etc			317.5 283.7 252.0	321.8 285.2 252.7	327.2 287.6 255.1	330.7 290.2 256.9	328.1 293.5 257.8	328.8 297.4 260.8	332.4 298.5 262.8	328.1 301.6 266.0	332.8 304.6 268.1	r331.3 r306.1 r269.1	334.1 306.7 269.8	335.9 307.9 271.0	333.9 309.2 271.8	330.2 309.4 272.3
Finished goods #			254.3 247.0	255.1 248.3	257.1 250.0	258.9 250.8	259.7 250.9	262.7 251.1	264.6 249.5	268.1 251.9	270.2 251.6	r270.9 r251.8	271.3 252.2	272.2 255.9	272.9 256.4	273.5 256.5
Finished goods, exc. foods			252.3 209.4	252.8 209.1	254.8 212.3	260.1 213.3	261.2 212.9	265.3 213.6	268.7 214.7	272.6 214.0	275.7 215.7	276.6	277.0 218.6	276.8 218.1	277.5 219.4	$278.3 \\ 218.7$
Nondurable do Capital equipment do			289.1 243.6	290.3 243.9	291.4 248.1	294.8 249.7	297.4 250.8	303.9 253.7	309.0 256.1	316.3 258.0	320.4 260.4	r320.4 r262.3	320.7 264.3	320.6 266.2	320.8 267.7	$\frac{322.9}{267.8}$
See footnotes at end of tables.																

	1979	1980			1980							1981				
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann		Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
					Y PR											
PRODUCER PRICES Continued						1020										
PRODUCER PRICES—Continued (U.S. Department of Labor Indexes)—Continued	ļ											! !				
Seasonally Adjusted																
By durability of product: Total manufactures			266.0	265.7	268.5	270.5	273.3	(²)								
Durable manufactures do Nondurable manufactures do			253.0 279.5	252.8 279.4	255.7 282.4	257.4 285.3	261.2 285.9	(2) (2)								
PURCHASING POWER OF THE DOLLAR																
As measured by: Producer prices	0.459 0.460	0.405	0.398 0.401	0.398 0.397	0.392	0.390	0.389 0.387	0.383 0.384	0.380	0.376 0.377	0.372	°0.371	0.371 0.369	0.369 0.364	0.369 0.362	0.369
Consumer prices do	0.460	0.405			0.394 ON A	0.390 ND B			0.380 A TIE	0.377	0.375	0.372	0.369	0.364	0.362	
CONSTRUCTION DUTE IN DIAGE		CON	SINC	JOIN	JN A	א טא	EAL	ESI	AIL							
CONSTRUCTION PUT IN PLACE New construction (unadjusted), total mil. \$	230,781	230,273	20,500	21,309	21,477	20,319	19,696	16,882	16,184	18,020	19,254	°19,978	r21,297	⁷ 21,603	21,526	
Private, total # do	181,691	174,897	14,978	15,527	16,132	15,702	15,413	13,190	12,689	14,182	15,088	15,565	16,355	16,563	16,550	
Residential	99,030 78,587	87,261 63,139	7,560 5,415	7,938 5,850	8,248 6,165	8,292 6,199	7,480 5,424	6,623 4,920	6,178 4,668	6,924 5,242	¹ 7,584 5,524	7,883 5,613	78,001 75,810	'8,051 '5,697	7,924 5,456	
Nonresidential buildings, except farm and public utilities, total # mil. \$	47,298	52,434	4,522	4,547	4,664	4,570	4,536	4,110	4,042	4,450	4,614	4,716	5,073	⁷ 5,333	5,445	
Industrial do Commercial do	14,950 24,924	13,837 29,945	1,138 2,645	1,165 2,610	1,129 2,729	1,132 2,636	1,228 2,548	1,093 2,324	1,063 2,283	1,252 2,457	1,239 2,609	1,283 2,698	1,370 2,875	1,492 3,028	1,634 3,010	
Public utilities: Telephone and telegraph	6,343	6,733	564	595	617	528	545	456	455	588	557	566	611	590		
Public, total # do	49,090	55,376	5,522	5,782	5,345	4,617	4,283	3,693	3,496	3,839	°4,166	r4,414	r4,941	r5,039	4,976	
Buildings (excluding military) # do Housing and redevelopment do	15,857 1,211	18,864 1,648	1,804 133	1,828 144	1,665 162	1,612 149	1,620 152	1,499 150	1,361 140	1,508 147	1,493 159	'1,507 '158	1,553 155	°1,597 °145	1,638 150	
Industrial do	1,411	1,788	145	201	107	111	174	180	135	178	170	191	187	182	157	
Military facilities	1,647 11,996	1,880 13,785	199 1,543	175 1,666	157 1,627	152 1,145	149 824	140 664	170 594	135 653	7168 880	181 1,061	182 1,465	'166 '1,530	161 1,449	
New construction (seasonally adjusted at annual rates), totalbil. \$			217.9	224.6	228.9	234.3	245.4	259.0	254.5	250.3	⁷ 246.5	r235.9	r234.0	r234.8	231.0	
Private, total # do			163.5	169.1	174.9	180.9	187.9	193.9	193.2	189.6	r189.9	r184.1	r181.8	183.4	181.9	
Residential do New housing units do			79.3 56.3	84.5 60.7	89.8 64.2	95.6 68.1	98.9 70.4	100.7 74.2	99.7 75.1	96.3 73.0	795.2 72.9	r89.7 67.7	⁷ 86.0 ⁷ 64.3	r85.4 60.5	83.8 57.2	
Nonresidential buildings, except farm and public utilities, total # bil. \$			50.1	50.2	50.3	51.4	54.3	58.2	58.4	58.3	58.1	56.8	58.4	r60.5	60.7	
Industrial do Commercial do do do do do do do do do do do do do			12.8 29.0	12.9 28.7	12.4 29.1	12.9 29.6	14.3 30.8	15.3 33.0	15.1 33.4	15.4 33.3	15.5 33.4	15.5 32.4	16.2 32.4	°17.2 °34.0	18.4 33.1	
Public utilities: Telephone and telegraphdo			6.3	6.6	6.2	6.3	6.2	7.1	7.3	7.1	6.9	7.0	6.5	6.8		
Public, total # do			54.4	55.5	54.0	53.4	57.6	65.2	61.3	60.6	r56.6	⁵ 1.8	r52.2	r51.4	49.1	
Buildings (excluding military) # do Housing and redevelopment do			19.4 1.6	19.4 1.5	18.8 1.7	19.2 1.8	20.4 1.8	20.7	19.7 1.9	20.4 1.9	'18.6	17.9 1.9	r17.6 r1.8	'17.4 1.5	17.7 1.8	
Industrial do			1.6	2.1	1.5	1.5	2.2	2.3 2.3	1.9	2.0	2.0 2.0	2.2	2.0	2.1	1.8	
Military facilities			$\frac{2.2}{12.7}$	1.9 13.6	2.0 13.0	1.8 12.8	1.7 13.1	1.8 19.4	2.2 17.8	1.7 16.2	'2.1 15.1	'2.1 12.4	'2.3 13.3	11.9 13.2	1.8 12.1	
CONSTRUCTION CONTRACTS																
Construction contracts in 50 States (F.W. Dodge Division, McGraw-Hill):																
Valuation, total mil. \$ Index (mo. data seas. adj.) 1972=100	168,446 1186	147,164 1162	15,448 192	13,077 163	13,886 167	13,296 205	12,513 193	10,467 192	10,405 177	13,904 183	14,378 172	13,350 160	14,919 170	13,651 153	12,289 156	
Public ownership mil. \$ Private ownership do	46,646 121,800	41,351 105,813	'3,536 '11,912	3,559 9,518	3,459 10,428	3,367 9,929	3,238 9,275	3,242 7,225	3,007 7,399	3,649 10,255	3,703 10,675	3,236 10,113	3,407 11,512	3,292 10,360	3,336 8,953	
By type of building: Nonresidential do	50,206	52,345	4,258	4,419	5,025	5,008	4,709	4,122	4,085	5,345	5,272	5,050	5,560	5,572	5,270	
Residential do Non-building construction do	74,557 43,683	63,206 31,613	r6,092 r5,098	6,069 2,589	6,785 2,076	5,847 2,441	5,570 2,235	4,207 2,139	4,206 2,114	5,929 2,630	6,569 2,537	5,887 2,413	5,904 3,454	5,853 2,227	4,894 2,126	
New construction planning (Engineering News-Record) §	135,005	149,143	8,997	9,821	13,580	17,200	13,071	14,991	12,449	11,212	15,545	14,093	11,684	12,897	11,890	
HOUSING STARTS AND PERMITS	,	,	,	,	,	ĺ	·	ĺ	,	,	,	,	ĺ	ĺ	,	
New housing units started: Unadjusted:																
Total (private and public)thous Privately owned	1,760.0 1,745.1	1,312.6 1,292.2	131.7 129.9	147.0 138.3	153.7 152.7	113.5 112.9	96.3 95.9	85.2 84.5	72.4 71.9	108.9 107.8	124.0 123.0	110.6 109.9	107.0 105.8	'101.1 '99.9	r86.5 r85.5	84.5
One-family structures do	1,194.1	852.2	92.0	95.0	97.5	71.2	56.6	48.0	48.0	70.5	83.6	73.8	72.5	¹ 69.5	r56.3	
Seasonally adjusted at annual rates: Total privately owned			1,411	1,482	1,519	1,550	1,535	1,660	1,215	1,297	1,332	1,158	1,039	*1,047	F934	918
One-family structuresdo New private housing units authorized by building		***************************************	971	1,032	1,009	1,019	974	993	791	838	897	764	688	. 104	r598	615
permits (16,000 permit-issuing places): Monthly data are seas. adj. at annual rates:		ļ														
Totalthous One-family structures	1,552 982	1,191 710	1,355 840	1,518 884	1,351 820	1,366 809	1,249 753	1,214 715	1,165 677	1,153 678	1,186 689	1,167 654	963 567	913 528	r865 r494	844 448
Manufacturers' shipments of mobile homes			20.0			17.8						22.9				}
Unadjustedthous Seasonally adjusted at annual rates do	277.4	221.5	20.0 208	21.5 239	23.6 236	239	16.0 261	15.8 233	17.3 256	21.5 255	24.0 265	22.9 255	23.0 246	21.7 268	22.3 230	

October 1981			JIC V E	71 01	CON		DO	J11 113K								
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980			1980							1981				
in the 1979 edition of BUSINESS STATISTICS	Anı	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
	CON	STRU	CTIO	N AN	ND R	EAL :	ESTA	TE—	Conti	inued						
CONSTRUCTION COST INDEXES		}												1		
Dept. of Commerce composite 1977 = 100.	128.7	143.3	144.8	145.0	145.6	146.7	147.8	149.2	149.7	152.1	r151.2	r150.7	r150.3	150.9	150.8	
American Appraisal Co., The: 1913=100. Average, 30 cities 1913=100. Atlanta do. New York do. San Francisco do. St. Louis do.	2,357 2,506 2,431 2,498 2,424	2,553	2,551 2,735 2,589 2,732 2,398	2,545 2,717 2,577 2,717 2,384	2,547 2,711 2,575 2,730 2,395	2,738	2,566 2,723 2,587 2,744 2,406	2,578 2,773 2,621 2,820 2,396	2,581 2,781 2,639 2,821 2,357	2,576 2,788 2,629 2,834 2,346	2,600 2,807 2,644 2,855 2,361	2,635 2,805 2,640 2,855 2,485	2,655 2,784 2,631 2,821 2,476	2,678 2,894 2,653 2,915 2,467	2,679 2,896 2,668 2,909 2,505	2,67 2,89 2,65 2,89 2,49
Boeckh indexes:	2,121	2,010	2,000	2,004	2,000	1,000	2,100] _,,,,,	2,001	2,010	2,001	2,100	2,110	2,10	2,000	1 2,40
Average, 20 cities: Apartments, hotels, office buildings 1977=100. Commercial and factory buildings	*114.7 *117.1 *119.0	"125.1 "127.7 "128.9		r129.6 r132.0 r127.2		*130.5 *132.9 *128.9		r131.1 r133.9 r129.7		r132.6 r135.3 r131.3		r135.4 r138.1 r134.4		r139.7 r141.9 r138.3		142. 145. 140.
Engineering News-Record: Building	269.3 279.5	287.7 301.4	292.1 307.6	292.4 309.0	292.5 309.7	296.0 312.5	298.6 314.3	298.2 313.9	298.4 314.0	298.0 315.0	305.5 321.4	307.3 323.3	308.3 326.8	312.1 331.6	313.5 332.8	¹316. ¹336.
Federal Highway Adm.—Highway construction: Composite (avg. for year or qtr.) 1977=100 CONSTRUCTION MATERIALS	142.6	163.0		163.1			161.8			160.0			152.4			
Output indexes: Iron and steel products	165.6 191.2 225.2															
REAL ESTATE ¶																
Mortgage applications for new home construction: FHA net applicationsthous. units. Seasonally adjusted annual ratesdo	133.8		15.6 186	16.5 185	12.9 137	9.6 133	11.3 176	7.4 129	8.3 119	13.0 148	11.3 125	8.8 87	7.4 80	6.2 66	7.2 85	5.4 60
Requests for VA appraisals	216.1	202.2	21.0 243	20.3 242	19.8 211	12.9 188	11.3 169	12.5 177	14.9 191	17.3 190	18.2 194	15.5 183	14.2 154	13.7 152	11.9 138	
Home mortgages insured or guaranteed by: Fed. Hous. Adm.: Face amount mil. \$ Vet. Adm.: Face amount § do	18,166.74 16,505.50	16,458.53 13,855.54	1,506.58 944.00	1,461.37 1,623.90	1,584.55 1,133.39	1,242.93 1,135.18	1,351.14 954.90	955.33 917.26	849.36 745.20	983.70 706.41	1,121.55 769.70	983.42 583.44	978.02 875.83	793.47 644.07	622.98 696.21	1,014.7 660.1
Federal Home Loan Banks, outstanding advances to member institutions, end of period mil. \$	41,838	48,963	42,605	44,161	46,115	47,322	48,963	48,581	48,206	49,175	51,530	53,148	56,095	59,475	62,471	64,34
New mortgage loans of all savings and loan associations, estimated total	100,546	72,537	8,339	9,500	9,336	6,574	6,942	4,285	3,676	4,923	5,533	5,730	6,047	r4,983	3,755	
Home construction do Home purchase do All other purposes do	20,583 62,740 17,223	14,946 42,957 14,634	1,556 5,208 1,575	1,803 5,708 1,989	1,886 5,552 1,898	1,391 3,821 1,362	1,454 3,748 1,740	1,029 2,315 941	888 1,966 822	1,224 2,538 1,161	1,366 2,826 1,341	1,247 3,129 1,354	1,186 3,432 1,429	*1,003 *2,768 *1,212	723 2,139 893	
				DOM	ESTI	C TR	ADE									
ADVERTISING	T											1			-	
McCann-Erickson national advertising index, seasonally adjusted: Combined index	974		906	314	294			***************************************								
Network TV doSpot TV do	312 293		326 370 349	363 360	330 354											
Magazines do Newspapers do	235 246		280 291	253 265	227 259											
Magazine advertising (Publishers Information Bureau): Cost, total mil. \$	2.634.0	2,846.1	175.3	251.0	275.2	311.5	254.3	184.3	225.7	268.0	288.3	297.9	267.1	196.6	210.9	
Apparel and accessories	91.9 212.6	111.7 229.5	7.8 8.4	15.9 12.0	13.0 24.3	11.9 27.3	9.7 22.1	6.7 14.8	6.2 24.0	12.1 25.7	14.4 27.2	11.1 31.0	7.4 29.0	6.4 17.6	12.9 17.4	
Building materials do Drugs and toiletries do	46.4 262.1	48.3 284.2	2.9 23.6	5.2 27.8	4.6 25.9	3.9 27.4	2.4 22.6	2.3 18.1	3.2 24.9	3.2 27.4	4.8 31.6	7.4 31.3	5.3 27.4	3.6 21.4	4.8 22.3	
Foods, soft drinks, confectionery do Beer, wine, liquors do	200.5 234.0	211.6 238.9	13.4 11.9	14.4 16.7	19.6 22.0	29.4 27.6	18.4 36.9	9.0 11.5	17.9 14.4	18.4 17.8	19.4 19.6	17.5 19.0	19.5 25.7	17.6 15.0	15.8 14.3	
Houshold equip., supplies, furnishings do Industrial materials	132.5 69.9 35.0 278.2	138.8 70.8 29.8 289.7	7.9 4.0 2.3 23.1 69.9	12.3 7.4 3.3 25.6	14.6 7.2 3.1 24.9	18.4 7.6 2.9 24.2	10.8 4.5 1.4 23.4	8.9 4.3 1.9 20.7	7.8 3.8 1.9 24.8	11.6 5.8 2.1 30.0	14.8 6.0 3.0 29.8	18.4 7.2 3.4 24.8	12.3 5.4 2.0 28.5	9.9 4.3 1.4 25.5	4.0 1.9 27.5	
All otherdo Newspaper advertising expenditures (Media	1,070.8	1,198.0	69.9	110.5	116.0	131.2	102.2	86.0	96.8	113.9	117.8	126.8	104.5	73.4	80.7	
Records Inc.): Total	7,641.3 196.0	8,192.3 183.6	675.0 13.6	650.2 15.2	738.4 15.6	810.0 16.7	680.5 11.3	671.2 16.2	703.8 19.4	840.3 22.5	816.6 18.4	884.5 21.3	772.2 15.7	707.3 15.8		
Classified do	2,179.3 243.8	2,191.8 298.0	196.8 16.0	180.8 21.9	183.8 27.7	185.3 24.4	136.2 27.9	197.7 33.9	199.2 24.6	235.0 31.2	215.6 30.9	240.2 26.0	217.1 28.0	208.8 29.7	238.8 35.2	
General do Retail do	982.1 4,040.1	1,122.7 4,396.3	78.1 370.5	93.2 339.2	105.9 405.4	113.7 469.9	76.6 428.5	100.6 322.7	113.3 347.4	136.2 415.4	126.5 425.2	134.9 462.1	114.0 397.4	94.1 358.9	92.8	
WHOLESALE TRADE †																
Merchant wholesalers sales (unadj.), total mil. \$ Durable goods establishments do Nondurable goods establishments do	915,163 410,079 505,084	1,043,886 438,439 605,447	86,311 36,010 50,301	90,715 38,112 52,603	99,023 41,298 57,725	91,328 36,679 54,649	97,659 38,598 59,061	93,845 35,927 57,918	89,641 37,054 52,587	101,273 41,991 59,282	99,081 41,934 57,147	96,676 40,679 55,997	98,639 43,152 55,487	r96,072 r41,459 r54,613		
Merchant wholesalers inventories, book value, end of year or month (unadj.), total	93,778 59,198 34,580	105,449 66,716 38,733	100,205 65,894 34,311	101,310 65,273 36,037	104,277 65,137 39,140	65,857	66,716	105,446 66,230 39,216	107,209 68,251 38,958	107,907 69,208 38,699	106,420 69,673 36,747	105,985 71,113 34,872	106,915 71,821 35,094	'105,556 '70,729 '34,827	106,452 71,490 34,962	
See footnotes at end of tables.	, 03,000	JU, 133 I	07,011	50,0011	00,1401	30,0001	00,100 I	00,2101	00,000 I	00,0001	00,1411	0-2,0161	00,0341	0-2,0411	04,0021	

Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980			1980				 ,			1981		-		
in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
		Γ	OME	STIC	TRA	DE-	-Cont	inuec	1							
RETAIL TRADE All retail stores: †				·												
Estimated sales (unadj.), total † mil. \$ Durable goods stores # do	894,343 304,809	956,655 297,926	81,740 25,256	77,579 24,506	84,000 26,698	83,816 25,121	100,755 28,093	77,361 23,239	74,321 23,857	84,652 28,295	85,770 27,688	87,383 27,669	87,784 29,130	r88,768	789,426 729,432	186,244 128,236
Building materials, hardware, garden supply, and mobile home dealers #	50,272 35,255 7,838	48,210 33,682 7,743	4,289 3,071 641	4,434 3,215 642	4,672 3,398 692	4,152 2,936 659	3,971 2,616 825	3,351 2,360 565	3,359 2,360 538	4,043 2,785 655	4,524 3,038 771	4,798 3,221 809	4,993 3,463 809	r4,769 r3,361 r784	r4,627 3,256 763	14,589
Automotive dealers # do Motor vehicle dealers do Auto and home supply stores do	177,251 161,110 16,141	167,017 148,799 18,218	14,211 12,600 1,611	13,489 11,965 1,524	15,027 13,330 1,697	13,264 11,699 1,548	13,016 11,365 1,651	13,351 11,926 1,425	14,370 13,011 1,359	17,336 15,745 1,591	16,279 14,563 1,716	15,791 14,154 1,637	16,794 15,042 1,752	r16,922 r15,050 r1,872	17,348 15,498 1,850	116,307
Furniture, home furn., and equip # do Furniture, home furnishings stores do Household appliance, radio, TV do	41,868 25,692 12,428	43,198 26,228 13,190	3,712 2,244 1,119	3,626 2,170 1,083	3,822 2,309 1,126	4,048 2,421 1,207	4,905 2,566 1,634	3,616 2,152 1,074	3,351 2,020 976	3,716 2,260 1,088	3,608 2,229 1,047	3,662 2,300 1,043	3,819 2,351 °1,154	r3,779 r2,281 r1,182	'3,890 2,341 1,213	13,842
Nondurable goods stores do General merch, group stores do Department stores do Variety stores do	589,534 109,740 ² 88,520 8,385	658,729 116,287 94,185 8,856	56,484 9,640 7,834 741	53,073 8,923 7,299 635	57,302 10,105 8,198 735	58,695 11,821 9,642 787	72,662 18,365 14,859 1,397	54,122 7,279 5,873 566	50,464 7,160 5,783 557	56,357 8,972 7,337 663	58,082 9,961 8,093 787	59,714 10,241 8,359 738	58,654 10,011 8,220 716	759,730 79,530 77,757 7716	*59,994 *10,344 *8,470 *758	158,008 19,825 18,047
Food stores do Grocery stores do Gasoline service stations do	195,826 182,365 73,202	217,511 202,065 94,470	19,115 17,812 8,470	17,712 16,474 7,982	18,853 17,561 8,244	18,485 17,195 7,951	20,212 18,506 8,350	19,195 17,830 8,047	17,477 16,133 7,616	18,837 17,410 8,380	19,383 17,839 8,492	20,387 18,941 8,734	19,792 18,338 8,996	*21,038 *19,557 *9,173	r20,257 r18,817 r9,003	119,876 114,422 18,618
Apparel and accessory stores # do Men's and boys' clothing do Women's clothing, spec. stores, furriers do,	42,375 7,830 15,802	44,487 8,025 16,991	3,913 683 1,468	3,586 608 1,409	3,931 702 1,546	4,179 801 1,582	6,335 1,283 2,339	3,279 565 1,258	2,911 494 1,141	3,448 552 1,355	3,972 621 1,532	3,735 615 1,470	3,632 626 1,404	r3,598 r565 r1,439	*4,077 636 1,580	13,856
Shoe stores	7,127 79,576	8,040 86,612	7,920	7,276	7,518	7,142	7,510	7,065	530 6,742	7,710	7,897	728 8,344	690 8,264	7660 78,524	763	17,887
Drug and proprietary stores	28,107 15,294	31,557 16,556	2,563 1,420	2,507 1,277	2,693 1,347	2,655 1,407	3,775 1,926	2,722 1,275	2,530 1,195	2,701 1,247	2,769 1,285	2,810 1,381	2,758 1,367	r2,769 r1,448	1,402	12,722
Estimated sales (seas. adj.), total †			79,829 24,593	80,620 25,094	81,552 25,293	82,764 26,007	83,443 25,983	85,463 27,075	86,810 28,328	87,608 28,429	85,855 26,356	85,501 26,536	87,384 27,532	'87,350 '27,753	⁷ 88,449 ⁷ 28,441	188,838 128,796
and mobile home dealers # mil. \$ Building materials and supply stores do Hardware stores			3,844 2,670 633	4,039 2,820 639	4,084 2,863 646	4,251 2,963 662	4,261 2,963 689	4,596 3,246 731	4,596 3,233 738	4,481 3,126 731	4,427 3,087 732	4,399 3,127 718	4,381 3,040 740	r4,260 r2,910 r735	r4,144 2,814 766	¹4,179
Automotive dealers do Motor vehicle dealers do Auto and home supply stores do			13,940 12,389 1,551	14,173 12,661 1,512	14,258 12,695 1,563	14,593 13,042 1,551	14,413 12,827 1,586	14,965 13,355 1,610	16,315 14,603 1,712	16,330 14,688 1,642	14,572 12,945 1,627	14,786 13,167 1,619	15,603 13,967 1,636	r15,998 r14,212 r1,786	16,722 14,945 1,777	116,965
Furniture, home furn., and equip. # do Furniture, home furnishings stores do Household appliance, radio, TV do			3,628 2,168 1,099	3,702 2,233 1,097	3,682 2,210 1,093	3,802 2,267 1,137	3,817 2,241 1,151	4,016 2,404 1,201	3,888 2,319 1,163	3,897 2,313 1,185	3,822 2,286 1,166	3,794 2,323 1,103	3,873 2,337 1,170	r3,719 r2,215 r1,163	3,859 2,300 1,214	13,850
Nondurable goods stores do General merch, group stores do Department stores do Variety stores do	(²)		55,236 9,722 7,905 740	55,526 9,649 7,840 722	56,259 9,940 8,045 739	56,757 10,025 8,171 732	57,460 10,093 8,146 738	58,388 9,994 8,078 775	58,482 10,306 8,381 770	59,179 10,306 8,443 762	59,499 10,563 8,610 792	58,965 10,350 8,452 748	59,852 10,674 8,754 763	*59,597 *10,409 *8,496 *768	r60,008 r10,701 r8,759 782	160,042 110,506 18,552
Food stores			18,405 17,078 7,998	18,577 17,250 7,990	18,592 17,267 8,090	18,808 17,457 8,130	19,098 17,709 8,284	19,072 17,601 8,497	19,112 17,632 8,596	19,522 18,098 8,613	19,672 18,185 8,595	19,506 18,091 8,513	19,850 18,430 8,633	*19,939 *18,467 *8,541	'20,352 '18,874 '8,526	120,341 118,779 18,653
Apparel and accessory stores #			3,785 736 1,435 677	3,724 699 1,416 670	3,771 702 1,431 672	3,777 683 1,438 687	3,789 666 1,450 677	3,945 642 1,549 728	4,022 681 1,557 755	3,947 660 1,502 745	3,931 646 1,547 734	3,923 666 1,534 739	4,000 674 1,572 750	'4,013 '662 '1,580 '750	'4,003 694 1,583 735	13,983
Eating and drinking places			7,135 2,623 1,367	7,276 2,667 1,348	7,371 2,742 1,369	7,416 2,760 1,371	7,563 2,755 1,386	7,885 2,815 1,390	7,876 2,768 1,404	8,006 2,770 1,386	7,842 2,831 1,401	7,902 2,830 1,396	7,893 2,826 1,368	7,799 2,837 1,376	r7,733 r2,875 1,384	¹ 7,895 ¹ 2,917
Estimated inventories, end of year or month: † Book value (unadjusted), total	106,169 52,691 8,609 26,763 8,146	108,717 51,159 8,695 24,457 8,008	108,482 49,619 8,902 22,159 8,380	111,826 49,678 8,927 21,821 8,420	117,264 51,457 8,975 22,913 8,671	119,039 52,807 8,909 24,031 8,525	108,717 51,159 8,695 24,457 8,008	108,147 51,904 8,816 24,931 7,975	110,635 52,409 9,151 24,783 8,146	113,741 53,018 9,590 24,624 8,374	114,951 53,868 9,642 25,539 8,358	115,877 55,033 9,849 26,470 8,431	r117,342 r55,969 r9,711 27,503 8,472	118,952 56,238 9,487 27,893 8,382		
Nondurable goods stores #	53,478 18,628 13,734 11,517 8,547	57,558 19,894 14,819 12,471 9,120	58,863 21,898 15,933 11,791 9,388	62,148 23,439 17,031 12,003 10,088	65,807 25,328 18,461 12,673 10,493	66,232 25,460 18,824 12,957 10,556	57,558 19,894 14,819 12,471 9,120	56,243 19,397 14,366 12,167 8,624	58,226 20,593 15,190 12,527 9,060	60,723 22,054 16,289 12,892 9,436	61,083 22,499 16,783 12,891 9,453	60,844 22,575 16,893 12,822 9,265	*61,373 *22,960 *16,989 *12,814 *9,325	62,714		
Book value (seas. adj.), total	108,835 53,274 8,986 26,524 8,287	111,694 51,853 9,076 24,263 8,163	110,283 51,675 8,965 24,191 8,372	111,711 51,738 9,008 24,138 8,328	113,106 52,066 9,102 24,298 8,346	112,639 52,209 9,082 24,447 8,285	111,694 51,853 9,076 24,263 8,163	111,790 52,234 9,061 24,491 8,196	113,507 52,374 9,096 24,273 8,346	113,404 51,791 9,302 23,385 8,450	113,963 52,306 9,298 24,184 8,316	115,426 53,529 9,590 25,066 8,423		119,795 56,199 9,487 27,672 8,458		
Nondurable goods stores #	55,561 20,456 14,993 11,414 8,875	59,841 21,861 16,178 12,372 9,470	58,608 21,549 15,791 11,983 9,195	59,972 21,991 16,128 12,112 9,481	61,040 22,581 16,439 12,292 9,487	60,430 22,310 16,326 12,411 9,518	59,841 21,861 16,178 12,372 9,470	59,556 21,614 15,980 12,315 9,394	61,133 22,386 16,583 12,795 9,679	61,613 22,646 16,690 12,840 9,638	61,657 22,644 16,817 12,930 9,646	61,897 22,846 17,012 12,925 9,512	r62,427 r23,304 r17,248 r12,840 r9,643	63,596 23,795 17,691 13,038 9,859		
Firms with 11 or more stores: Estimated sales (unadjusted), total mil. \$	296,593	324,279	27,678	25,927	28,491	30,205	39,694	25,080	23,689	27,291	28,755	29,643	^r 29,017			
Durable goods stores	22,568 3,338	23,390 3,501	1,935 306	1,904 293	2,057 321	2,175 303	3,101 320	1,606 260	1,565 250	1,863 288	2,039 324	2,148 315	r2,206 r343	2,171 339		
Nondurable goods stores # do. General merchandise group stores do Department stores do Variety stores do. Miscellaneous general stores do.	274,025 95,933 83,857 6,258 5,818	300,889 101,963 89,229 6,627 6,107	25,743 8,477 7,438 555 484	24,023 7,842 6,914 482 446	26,434 8,837 7,757 551 529	28,030 10,448 9,127 610 711	36,593 16,193 14,054 1,085 1,054	23,474 6,314 5,564 414 336	22,124 6,268 5,491 416 361	25,428 7,955 6,977 511 467	26,716 8,776 7,677 593 506	27,495 9,043 7,930 563 550	548	8,387 7,367 530		

October 1981		50	JRVE	Y OF	CUR	REN	BUS	211/E2	55							2-11
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980			1980	,	,		1			1981				
in the 1979 edition of BUSINESS STATISTICS	Anr	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
		Ι	OME	ESTIC	TRA	DE-	-Cont	inue	 d			•	•	•		
RETAIL TRADE—Continued								Γ	T				T		T	
Firms with 11 or more stores—Continued Estimated sales (unadjusted)—Continued Nondurable goods stores—Continued Food stores	102,496 101,270	113,214 111,857	9,898 9,788	9,209 9,105	9,940 9,832	9,764 9,653	10,652 10,486	10,281 10,153	9,207 9,058	9,883 9,743	10,128 9,960					1
Apparel and accessory stores # do Women's clothing, specialty stores, furriers mil. \$ Family clothing stores do Shoe stores do	14,285 5,876 3,455 3,420	15,204 6,191 3,664 3,707	1,404 554 347 345	1,227 496 282 325	1,354 555 325 332	1,468 595 359 343	2,312 912 630 460	979 384 240 251	926 384 216 235	1,206 501 276 311	1,459 594 325 407	1,330 552 311 344	'523 307	1,225 528 295 292		
Eating places do Drug stores and proprietary stores do	15,165 13,720	17,011 15,665	1,567 1,292	1,427 1,233	1,502 1,297	1,447 1,330	1,505 2,055	1,413 1,317	1,336 1,226	1,548 1,344	1,547 1,392	1,645	1,610			
Estimated sales (sea. adj.), total #			27,344 298 7,475 556 9,512	27,368 296 7,418 550 9,604	27,752 293 7,620 565 9,630	28,074 295 7,768 558 9,672	28,359 298 7,735 557 9,883	28,474 308 7,696 572 9,810	29,091 329 7,958 585 9,899	29,252 304 8,010 575 10,128	29,618 303 8,150 614 10,132	29,418 307 8,002 575 10,147	r8,290 585	316		
Apparel and accessory stores			1,278 513 311 1,328	1,257 513 307 1,340	1,291 518 313 1,360	1,297 526 314 1,361	1,324 528 317 1,361	1,328 538 317 1,395	1,387 573 342 1,390	1,402 574 342 1,393	1,407 593 345 1,444	1,394 566 358 1,427	1,410	1,428 580 358 1,411		1
All retail stores, accts, receivable, end of yr. or mo.: Total (unadjusted)	40,387 11,391 28,996 12,268		(2) (2) (2) (2)													
Total (seasonally adjusted) do	28,119 37,437 11,194		(2) (2) (2)													
Nondurable goods stores	26,243 11,743 25,694		(2) (2) (2)													
nistaimient accounts		OR FO		EMI	PT.O.Y	MEN	T A		ARN	INGS					***************************************	1
POPULATION OF THE UNITED STATES				, 231.23			, , , ,									
Total, incl. armed forces overseas ‡mil LABOR FORCE	r1225.06	1227.66	227.86	228.09	228.30	228.50	228.67	228.83	228.98	229.12	229.28	229.44	229.62	229.80	230.03	230.26
Not Seasonally Adjusted Labor force, total, persons 16 years of age and over thous. Armed forces do Civilian labor force, total do Employed do Unemployed do	104,996 2,084 102,908 96,945 5,963	106,821 2,102 104,719 97,270 7,448	108,240 2,114 106,126 98,115 8,011	106,841 2,121 104,720 97,256 7,464	107,536 2,121 105,415 97,933 7,482	107,406 2,119 105,287 97,801 7,486	106,902 2,124 104,778 97,545 7,233	106,796 2,125 104,671 96,128 8,543	106,929 2,121 104,808 96,383 8,425	107,533 2,128 105,405 97,318 8,087	107,807 2,129 105,678 98,282 7,396	108,474 2,127 106,347 98,803 7,545	2,131 107,621 99,341	110,547 2,139 108,408 100,474 7,934	109,931 2,160 107,771 100,013 7,758	2,165 105,964 98,277
Seasonally Adjusted ¶			104,945	104,980	105,167	105,285	105,067	105,543	105,681	106,177	106,722	107,406	106,176	106,464	106,602	106,236
Civilian labor force, total	63.7 59.3 3,297 93,648	58.5 3,310 93,960	63.8 97,003 58.2 3,210 93,793	63.8 97,180 58.3 3,399 93,781	63.8 97,206 58.2 3,319 93,887	63.8 97,339 58.2 3,340 93,999	63.6 97,282 58.1 3,394 93,888	63.8 97,696 58.3 3,403 94,294	63.8 97,927	64.0 98,412 58.6 3,276 95,136	64.3 98,976	64.6 99,235 59.0 3,353 95,882	63.8 98,392	63.9	64.0 98,944 58.6 3,370 95,574	63.7 98,270 58.1
Unemployed, total	1,202	1,829	7,942 2,150	7,800 2,295	7,961 2,292	7,946 2,329	7,785 2,378	7,847 2,358	7,754 2,250	7,764 2,192	7,746 2,105	8,171 2,168	7,784 2,315	7,502 2,100	r7,657 2,194	7,966 2,212
All civilian workers Men, 20 years and over Women, 20 years and over Both sexes, 16-19 years	5.8 4.1 5.7 16.1	7.1 5.9 6.3 17.7	7.6 6.5 6.5 18.8	7.4 6.6 6.2 17.8	7.6 6.4 6.7 18.5	7.5 (6.4 (6.7 (18.6 (7.4 6.2 6.8 17.8	7.4 6.0 6.7 19.0	7.3 6.0 6.5 19.3	7.3 5.9 6.6 19.1	7.3 5.8 6.6 19.1	7.6 6.3 6.8 19.5	7.3 6.1 6.5 19.0	7.0 5.6 6.7 18.1	7.2 5.9 6.5 18.8	7.5 6.2 6.8 19.3
White Black and other Black and other Married men, spouse present Married women, spouse present Women who maintain families	5.1 11.3 2.7 5.1 8.3	6.3 13.2 4.2 5.8 9.1	6.7 13.7 4.8 6.0 9.0	6.5 14.1 4.7 5.7 9.0	6.6 14.2 4.6 6.0 10.2	6.6 14.0 4.4 5.9 9.9	6.5 14.0 4.3 5.8 10.4	6.7 12.9 4.2 6.2 10.5	6.6 13.1 4.1 5.8 9.6	6.5 13.7 4.1 6.0 9.4	6.5 13.2 3.8 5.9 9.8	6.8 13.6 4.1 5.9 10.3	6.4 14.2 4.2 5.6 10.6	6.2 13.6 3.9 5.6 11.5	6.1 15.0 3.9 5.3 9.8	6.5 15.1 4.3 5.9 10.6
Occupation: White-collar workers	3.3 6.9	3.7 10.0	3.7 11.1	3.8 10.8	3.9 10.8	3.9 10.7	4.0 10.5	3.9 10.2	3.7 10.1	3.9 9.8	4.0 9.6	4.1 10.0	3.8 9.8	4.1 9.4	3.9 ¹ 9.3	4.1 10.2
Private wage and salary workers	5.7 10.2 5.5 5.0	7.4 14.2 8.5 8.9	8.0 17.3 9.3 10.1	7.8 15.9 9.2 10.0	7.8 14.6 9.2 9.5	7.8 14.8 8.9 9.0	7.7 13.8 8.8 9.0	7.5 13.3 8.4 8.3	7.5 13.2 8.4 8.5	7.3 14.7 8.0 7.9	7.2 14.4 7.4 7.3	7.8 16.3 7.9 7.3	7.4 16.6 7.6 7.4	7.2 15.0 7.3 7.3	7.2 16.7 7.0 6.4	7.6 16.3 7.8 7.6
EMPLOYMENT † Employees on payrolls of nonagricultural estab.: Total, not adjusted for seasonal variationthous Private sector (excl. government)	89,823 73,876	90,564 74,316	89,969 74,539	90,638 74,797	91,244 74,913	91,599 75,126	91,750 75,315	89,988 73,772	90,138 73,680	90,720 74,227	91,337 74,880	91,848 75,434	92,481 76,278	r91,600 r76,213	'91,626 '76,473	°92,026 °76,600
Seasonally Adjusted † Total employees, nonagricultural payrolls do Private sector (excl. government)	89,823 73,876	90,564 74,316	90,219 74,030	90,461 74,268	90,668 74,419	90,844 74,602	90,949 74,713	91,091 74,868	91,258 75,018	91,347 75,143	91,458 75,288	91,564 75,433	91,615 75,575	75,888	r91,920 r76,007	°91,875 °76,107
Nonmanufacturing industries do Goods-producing do Mining do Construction do	52,836 26,461 958 4,463	54,016 25,718 1,020 4,399	54,040 25,322 1,008 4,324	54,208 25,445 1,023 4,362	54,309 25,521 1,032 4,379	54,414 25,629 1,052 4,389	54,538 25,631 1,069 4,387	54,694 25,647 1,083 4,390	54,841 25,657 1,091 4,389	54,952 25,705 1,098 4,416	54,956 25,700 950 4,418	55,019 25,705 957 4,334	55,151 25,818 1,110 4,284	r55,353 r25,939 r1,132 r4,272	*55,490 *25,941 *1,152 *4,272	P55,571 P25,949 P1,160 P4,253

Unless otherwise stated in footnotes below, data	1979	1980			1980							1981			·	
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ıual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
LAB	OR FO	RCE,	ЕМР	LOYI	MENT	Γ, AN	D EA	RNI	NGS-	-Con	tinue	d				
EMPLOYMENT †—Continued																
Seasonally Adjusted † Employees on nonag. payrolls—Continued Goods-producing—Continued								İ								
Manufacturing thous. Durable goods do. Lumber and wood products do. Furniture and fixtures do. Stone, clay and glass products do. Primary metal industries do. Fabricated metal products do. Machinery, except electrical do. Electric and electronic equipment @ do. Transportation equipment \$ do. Miscellaneous manufacturing do.	21,040 12,760 767 498 709 1,254 1,718 2,485 2,117 2,077 691 445	20,300 12,181 690 469 666 1,144 1,609 2,497 2,103 1,875 708 419	19,990 11,907 671 456 651 1,077 1,567 2,454 2,074 1,839 707 411	20,060 11,968 680 462 656 1,092 1,575 2,463 2,078 1,843 709 410	20,110 12,013 679 462 655 1,108 1,578 2,481 2,087 1,848 709 406	20,188 12,090 683 463 658 1,126 1,582 2,489 2,096 1,874 712 407	20,175 12,077 687 464 655 1,137 1,581 2,490 2,103 1,839 712 409	20,174 12,084 689 464 654 1,137 1,579 2,487 2,110 1,840 713 411	20,177 12,074 691 466 654 1,140 1,577 2,481 2,110 1,833 711 411	20,191 12,099 692 467 651 1,141 1,581 2,480 2,117 1,849 712 409	20,332 12,207 702 478 656 1,145 1,595 2,491 2,134 1,878 714 414	20,414 12,254 710 484 658 1,142 1,604 2,511 2,143 1,872 716 414	20,424 12,278 699 486 658 1,144 1,604 2,521 2,148 1,886 717 415	*20,535 *12,333 *702 *488 *658 *1,140 1,614 *2,533 2,163 *1,886 *723 *426	*20,517 *12,336 *687 *488 *660 *1,148 *1,610 *2,543 *2,166 *1,890 *727 *417	P20,536 P12,326 P677 P487 P656 P1,149 P1,609 P2,544 P2,168 P1,888 P731 P417
Nondurable goods do Food and kindred products do Tobacco manufactures do. Textile mill products do. Apparel and other textile products do. Paper and allied products do. Printing and publishing do. Chemicals and allied products do. Petroleum and coal products do. Rubber and plastics products, nec do. Leather and leather products.	8,280 1,733 70 885 1,304 707 1,235 1,109 210 782 246	8,118 1,711 69 853 1,266 694 1,258 1,107 731 233	8,083 1,720 68 844 1,263 687 1,256 1,097 208 708 232	8,092 1,712 68 843 1,261 689 1,261 1,101 208 717 232	8,097 1,711 69 845 1,256 691 1,262 1,102 208 722 231	8,098 1,705 71 844 1,253 692 1,265 1,103 209 725 231	8,098 1,701 71 842 1,250 692 1,269 1,105 209 729 230	8,090 1,696 71 841 1,244 691 1,269 1,106 211 730 231	8,103 1,705 72 839 1,243 691 1,272 1,109 210 731 231	8,092 1,691 72 838 1,243 689 1,276 1,108 210 734 231	8,125 1,697 72 842 1,250 691 1,280 1,107 211 744 231	8,160 1,703 71 843 1,258 694 1,283 1,109 213 753 233	8,146 1,673 71 846 1,264 695 1,284 1,111 212 757 233	8,202 *1,691 71 *856 1,278 696 *1,290 *1,110 212 760 *238	*8,181 *1,672 *73 *850 *1,272 699 *1,294 *1,109 212 763 *237	P8,210 P1,672 P72 P852 P1,281 P705 P1,302 P1,116 P211 P763 P236
Service-producing do Transportation and public utilities do Wholesale and retail trade do Wholesale trade do Retail trade do Finance, insurance, and real estate do Services do Government do Federal do State and local do do	63,363 5,136 20,193 5,204 14,989 4,975 17,112 15,947 2,773 13,174	64,847 5,143 20,386 5,281 15,104 5,168 17,901 16,249 2,866 13,383	64,897 5,126 20,413 5,274 15,139 5,188 17,981 16,189 2,808 13,381	65,016 5,124 20,450 5,290 15,160 5,206 18,043 16,193 2,784 13,409	65,147 5,129 20,461 5,296 15,165 5,221 18,087 16,249 2,795 13,454	65,215 5,114 20,464 5,296 15,168 5,235 18,160 16,242 2,796 13,446	65,318 5,118 20,470 5,300 15,170 5,254 18,240 16,236 2,800 13,436	65,444 5,124 20,529 5,305 15,224 5,268 18,300 16,223 2,799 13,424	65,601 5,135 20,600 5,313 15,287 5,283 18,343 16,240 2,795 13,445	65,642 5,139 20,635 5,316 15,319 5,293 18,371 16,204 2,781 13,423	65,758 5,161 20,636 5,333 15,303 5,316 18,475 16,170 2,767 13,403	65,859 5,148 20,714 5,346 15,368 5,326 18,540 16,131 2,779 13,352	65,797 5,149 20,717 5,349 15,368 5,331 18,560 16,040 2,781 13,259	r65,941 r5,167 r20,796 r5,369 r15,436 r5,344 r18,642 r15,992 2,777 r13,215	r65,948 r5,168 r20,871 r5,378 15,493 r5,354 r18,673 r15,882 r2,730 r13,152	P65,926 P5,179 P20,866 P5,375 P15,491 P5,356 P18,757 P15,768 P2,760 P13,008
Production or nonsupervisory workers on private nonagric. payrolls, not seas. adjustedthous	60,367 15,068	60,457 14,223	60,617 13,907	60,855 14,131	60,948 14,141	61,124 14,190	61,279 14,126	59,760 13,975	59,633 13,971	60,115 14,049	60,736 14,127	61,204 14,195	61,911 14,325	r61,814 r14,108	⁷ 62,047 ⁷ 14,241	P62,208 P14,463
Seasonally Adjusted † Production or nonsupervisory workers on private																
nonagricultural payrolls † thous Goods-producing do Mining do Construction do Manufacturing do Durable goods do Lumber and wood products do Furniture and fixtures do Stone, clay, and glass products do Frimary metal industries do Fabricated metal products § do Machinery, except electrical do Electric and electronic equipment @ do Transportation equipment § do Instruments and related products do Miscellaneous manufacturing do	60,367 19,351 3,565 15,068 9,110 654 406 559 986 1,299 1,634 1,388 1,423 422 339	60,457 18,442 757 3,461 14,223 8,438 577 378 516 879 1,193 1,605 1,336 1,215 424 314	60,182 18,064 748 3,386 13,930 8,176 560 367 502 818 1,153 1,567 1,304 1,178 422 305	60,368 18,167 759 3,416 13,992 8,229 568 372 506 833 1,161 1,573 1,306 1,185 421 304	60,464 18,213 763 3,426 14,024 8,259 567 373 506 847 1,165 1,579 1,310 1,189 422 301	60,598 18,291 779 3,431 14,081 8,320 569 373 508 864 1,169 1,581 1,316 1,215 422 303	60,667 18,278 791 3,428 14,059 8,301 573 374 505 874 1,168 1,577 1,322 1,182 423 303	60,807 18,305 800 3,452 14,053 8,306 575 374 504 876 1,166 1,577 1,324 1,183 422 305	60,870 18,298 806 3,439 14,053 8,297 576 376 503 879 1,164 1,573 1,326 1,176 419 305	60,961 18,346 813 3,459 14,074 8,325 577 376 501 879 1,169 1,1575 1,334 1,190 420 304	61,114 18,338 689 3,462 14,187 8,412 586 386 506 884 1,178 1,580 1,345 1,218 422 307	61,179 18,317 694 3,376 14,247 8,442 593 392 507 880 1,184 1,594 1,353 1,210 423 306	61,292 18,387 819 3,323 14,245 8,455 585 393 506 882 1,187 1,602 1,354 1,218 422 306	761,585 718,476 *834 *3,315 714,327 *8,491 *585 *396 *508 879 1,197 71,605 *1,365 *1,213 427 316	r61,650 r18,468 r852 r3,311 r14,305 r8,488 r571 396 r509 r883 r1,193 r1,677 r1,367 r1,218 r426 r308	P61,767 P18,499 P854 P3,295 P14,350 P3,495 P563 P508 P884 P1,102 P1,628 P1,628 P1,369 P1,219 P1,219 P308
Nondurable goods Food and kindred products do Tobacco manufactures do Textile mill products do Apparel and other textile products do Paper and allied products do Printing and publishing do Chemicals and allied products do Petroleum and coai products do Rubber and plastics products, nec do Leather and leather products	5,958 1,191 56 771 1,117 536 697 633 137 612 209	741 1,082 524 703 626 124 562 196	5,754 1,184 53 733 1,078 516 701 616 134 543 196	5,763 1,177 54 732 1,077 518 704 620 134 551 196	5,765 1,177 54 734 1,073 520 703 619 134 556 195	5,761 1,170 55 732 1,071 521 704 621 134 558 195	5,758 1,166 55 731 1,068 521 707 622 133 561 194	5,747 1,162 55 729 1,062 521 705 623 134 562 194	5,756 1,168 55 727 1,061 520 707 625 134 564 195	5,749 1,158 56 727 1,061 519 708 626 134 566 194	5,775 1,164 56 729 1,065 521 709 627 134 575 195	5,805 1,170 55 731 1,071 523 710 629 135 584 197	5,790 1,144 56 733 1,077 524 709 632 133 585 197	'5,836 '1,160 '55 '742 1,092 '525 '711 630 '133 586 '202	"5,817" "1,144" "57" "737" "1,082" "527" "714" "630" "132" "593" "201	P5,855 P1,147 P57 P741 P1,094 P534 P719 P640 P130 P593 P200
Service-producing do Transportation and public utilities do. Wholesale and retail trade do. Wholesale trade do. Retail trade do Finance, insurance, and real estate do. Services do.	41,016 4,299 17,748 4,274 13,474 3,776 15,193	42,015 4,291 17,881 4,319 13,562 3,913 15,930	42,118 4,270 17,901 4,309 13,592 3,929 16,018	42,201 4,272 17,929 4,317 13,612 3,939 16,061	42,251 4,275 17,933 4,320 13,613 3,950 16,093	42,307 4,260 17,932 4,318 13,614 3,960 16,155	42,389 4,265 17,932 4,324 13,608 3,972 16,220	42,502 4,264 17,982 4,324 13,658 3,986 16,270	42,572 4,270 18,013 4,329 13,684 3,992 16,297	42,615 4,268 18,031 4,330 13,701 3,996 16,320	42,776 4,291 18,027 4,342 13,685 4,017 16,441	42,862 4,272 18,084 4,352 13,732 4,024 16,482	4,030	*43,109 *4,284 *18,200 *4,367 *13,833 *4,037 *16,588	'43,182 '4,287 '18,239 '4,372 '13,867 '4,044 16,612	P43,268 P4,313 P18,237 P4,374 P13,863 P4,044 P16,674
AVERAGE HOURS PER WEEK † Seasonally Adjusted	1															
Avg. weekly hours per worker on private nonagric payrolis: ¶ Not seasonally adjusted hours. Seasonally adjusted do. Mining ‡ do. Construction do. Manufacturing: Not seasonally adjusted do. Seasonally adjusted do. Overtime hours do. Durable goods do. Overtime hours do.	3.4 40.8 3.5	35.3 43.2 37.0 39.7 2.8 40.1 2.8	35.5 35.2 43.2 37.3 39.4 39.5 2.7 40.0 2.7	35.3 35.3 43.5 38.0 39.8 39.6 2.7 40.1 2.7	35.3 35.3 43.6 37.9 39.8 39.7 2.8 40.1 2.8	35.3 35.3 43.6 36.8 40.2 39.8 3.0 40.4 3.0	35.6 35.3 44.1 37.2 40.8 39.9 3.0 40.4 3.1	35.1 35.3 43.6 36.4 39.9 40.1 3.0 40.6 3.0	35.0 35.2 42.8 35.0 39.5 39.8 2.8 40.1 2.8	35.2 35.3 42.3 37.2 39.9 2.8 40.4 2.8	35.2 35.4 43.6 36.9 39.7 40.2 2.9 40.8 3.0	35.2 35.3 43.8 36.9 40.1 40.3 3.2 40.8 3.2	35.4 35.2 42.1 37.2 40.2 40.1 3.0 40.5	735.6 735.3 743.5 37.7 39.6 40.0 3.0 40.5 3.0	35.6 35.2 44.0 37.4 39.8 40.0 3.0 40.5 3.0	P35.0 P34.9 P43.2 P35.6 P39.3 P39.1 P2.6 P39.4 P2.5
Lumber and wood products do Furniture and fixtures do Stone, clay, and glass products do Primary metal industries do See footnotes at end of tables.	39.4 38.7 41.5	38.6 38.0 40.8 40.1	38.8 37.6 40.5 39.4	38.7 38.1 40.8 39.7	38.6 38.0 40.8 40.1	39.1 38.0 40.9 40.8	39.3 38.4 41.0 41.2	39.8 38.5 41.3 41.1	39.1 38.6 40.6 40.7	39.1 38.6 40.7	39.6 38.8 41.2 41.2	39.8 39.0 41.0	39.0 38.9 40.8 40.8	r38.8 38.5 r40.9 40.5	38.6 •38.7 •40.8 •40.8	P37.6 P38.1 P39.6 P39.6

Unless otherwise stated in footnotes below, data	1979	1980			1980							1981				
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ıual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
LABO	OR FO	RCE,	EMP	LOYI	MENT	Γ, AN	D EA	RNI	NGS-	-Con	tinue	d		<u> </u>		
AVERAGE HOURS PER WEEK †—Cont. Seasonally Adjusted—Continued																
Average weekly hours per worker—Cont. Manufacturing—Continued Durable goods—Continued Fabricated metal products \$ hours. Machinery, except electrical	40.7 41.8 40.3 41.2 40.8 38.8	40.4 41.0 39.8 40.6 40.5 38.7	40.2 40.8 39.6 40.8 40.3 38.6	40.4 40.9 39.6 40.7 40.2 38.8	40.4 40.8 39.8 40.7 40.3 38.6	40.5 41.0 39.9 41.2 40.4 38.6	40.5 40.9 40.0 41.0 40.4 38.9	40.5 41.1 40.1 41.3 40.6 38.8	40.2 40.8 39.6 40.5 40.5 38.6	40.2 40.9 40.0 40.9 40.5 38.7	40.9 41.3 40.2 42.0 40.1 38.9	40.9 41.4 40.4 41.8 40.4 39.2	40.7 41.1 40.2 41.4 40.4 39.1	40.5 741.1 740.5 741.2 740.5 39.2	40.5 *41.2 *40.3 *41.3 *40.5 38.9	P39.5 P39.8 P39.5 P39.8 P39.9 P38.4
Nondurable goods do Overtime hours do Food and kindred products do Tobacco manufactures do Textile mill products Apparel and other textile products do Paper and allied products do	39.2 3.1 39.8 38.0 37.3 35.2 42.6	39.0 2.8 39.7 38.1 40.0 35.4 42.3	38.9 2.8 39.8 36.9 39.5 35.2 42.0	38.9 2.8 39.7 38.2 39.8 35.2 42.2	39.0 2.8 39.6 40.0 39.8 35.4 42.2	39.1 2.9 39.8 40.1 39.9 35.2 42.4	39.2 2.9 39.7 38.1 40.1 35.5 42.8	39.5 3.0 40.3 38.6 40.0 36.1 42.6	39.2 2.9 39.9 38.5 40.0 35.6	39.2 2.8 39.7 37.2 39.9 35.7 42.4	39.3 2.9 40.1 37.2 39.8 35.5 42.6	39.6 3.1 40.0 38.6 40.5 36.0 42.8	39.4 3.0 39.8 38.5 40.2 36.1 42.7	39.3 2.9 39.4 38.6 40.4 35.9	39.3 *2.9 *39.4 *40.5 *40.2 *36.1 *42.6	P38.8 P2.8 P38.8 P40.4 P38.7 P35.2 P42.9
Printing and publishing	37.5 41.9 43.8 40.5 36.5	37.1 41.5 41.8 40.1 36.7	37.0 41.2 42.1 40.2 36.6 39.7	36.9 41.4 42.4 40.2 36.4 39.7	37.1 41.5 42.8 40.5 36.7	36.8 41.6 42.9 40.8 36.3	37.4 41.6 43.2 40.8 36.6 40.0	37.5 41.6 43.8 40.9 36.8 39.4	37.3 41.6 43.8 40.3 37.0	37.1 41.5 43.5 40.5 37.1 39.4	37.3 41.5 44.1 40.7 36.6 39.3	37.6 41.7 43.8 41.3 37.1 39.3	37.4 41.7 43.4 41.0 37.4 39.8	37.3 *41.8 43.1 40.5 *36.5	37.3 *41.7 *42.8 *40.6 *37.1	P37.2 P42.3 P42.9 P39.6 P35.9
Wholesale and retail trade do Wholesale trade do Retail trade do Finance, insurance, and real estate ‡ do Services do	32.6 38.8 30.6 36.2 32.7	32.2 38.5 30.2 36.2 32.6	32.1 38.3 30.1 36.3 32.6	32.1 38.5 30.1 36.1 32.6	32.1 38.5 30.1 36.3 32.6	32.2 38.5 30.2 36.3 32.7	32.1 38.6 30.0 36.3 32.7	32.2 38.8 30.1 36.4 32.7	32.2 38.6 30.2 36.4 32.8	32.2 38.6 30.2 36.4 32.8	32.3 38.6 30.3 36.3 32.8	32.1 38.5 30.1 36.1 32.7	32.1 38.5 30.1 36.1 32.5	*32.2 *38.7 *30.1 36.3 32.5	32.1 38.5 30.1 36.4 32.4	P32.1 P38.5 P30.1 P36.1 P32.4
AGGREGATE EMPLOYEE-HOURS † Seasonally Adjusted																
Employee-hours, wage & salary workers in nonagric. establish, for 1 week in the month, seas adj. at annual rate bil. hours. Total private sector. do Mining do Construction do Manufacturing do Transportation and public utilities do Wholesale and retail trade do Finance, insurance, and real estate do Services do Government do	169.53 138.26 2.15 8.59 43.92 10.65 34.35 9.39 29.21 31.26	169.70 137.84 2.31 8.46 41.96 10.60 34.29 9.75 30.47 31.86	168.13 136.29 2.23 8.16 40.92 10.49 34.11 9.78 30.61 31.83	169.07 137.39 2.26 8.46 41.22 10.57 34.35 9.81 30.72 31.68	169.66 137.98 2.30 8.42 41.52 10.63 34.47 9.87 30.77 31.68	170.06 138.81 2.39 8.50 41.94 10.58 34.53 9.92 30.96 31.25	171.12 139.22 2.50 8.56 42.15 10.62 34.39 9.94 31.06 31.90	172.87 140.86 2.57 9.07 42.54 10.63 34.79 9.99 31.28 32.01	171.65 140.02 2.52 8.36 42.24 10.62 34.79 10.03 31.46 31.63	172.14 140.20 2.48 8.60 42.21 10.60 34.75 10.04 31.51 31.94	170.56 139.85 2.17 8.43 42.19 10.62 34.84 10.04 31.56 30.71	171.43 139.87 2.19 8.26 42.50 10.56 34.70 10.05 31.60 31.57	170.92 139.41 2.39 8.04 42.19 10.60 34.65 10.04 31.49 31.51	'171.09 '139.94 '2.54 8.12 '42.21 '10.59 '34.73 10.08 '31.59 '31.15	*171.39 *140.21 *2.60 *8.07 *42.31 *10.57 *34.91 10.13 *31.62 *31.18	P167.51 P139.47 P2.55 P7.72 P42.82 P10.47 P35.04 P10.08 P31.79 P28.04
Indexes of employee-hours (aggregate weekly): ¶ Private nonagric. payrolls, total	108.4 108.6 115.3 119.7 106.2 109.1 101.9 108.2 107.1 106.6 110.3 105.1 110.6	107.3 102.5 122.1 116.1 99.0 99.5 98.3 110.0 106.3 105.9 110.4 104.2 114.6 115.0	106.6 100.2 120.5 114.5 96.5 96.0 97.4 110.1 105.9 105.7 109.7 104.2 115.3 115.5	107.1 101.3 123.1 117.6 97.2 96.8 97.7 110.3 106.0 106.0 110.5 104.3 114.9 115.8	107.4 101.7 124.0 117.7 97.6 97.3 98.0 110.6 106.3 106.1 110.6 104.3 115.9 116.0	107.7 102.0 126.6 114.4 98.4 98.6 98.0 110.9 105.7 106.3 110.5 104.7 116.2 116.9	107.9 102.3 130.1 115.6 98.5 98.5 98.4 111.0 106.6 105.9 110.9 116.5 117.3	108.2 102.4 130.1 113.9 98.9 99.0 98.9 111.3 105.0 106.6 111.5 104.7 117.3 117.7	107.9 100.9 128.6 109.1 98.0 97.8 98.3 111.7 105.4 106.8 111.1 105.2 117.4 118.2	108.4 102.4 128.2 116.6 98.4 98.6 98.1 111.8 105.1 106.9 111.1 105.4 117.5	108.9 102.8 112.0 115.8 99.9 100.7 112.3 105.4 107.2 111.4 105.6 117.8 119.3	108.9 103.1 113.3 112.9 100.7 101.1 100.1 112.0 104.9 106.9 111.4 105.2 117.4 119.2	108.7 102.6 128.0 109.3 100.2 100.6 99.5 112.1 106.2 107.0 111.3 105.3 117.6 118.7	'109.4 '103.5 '136.5 '110.9 '100.5 '100.9 '99.8 '112.6 '106.0 '107.8 '112.3 '106.0 118.1 119.3	'109.4 '103.4 '139.8 '110.1 '100.4 '100.9 '99.6 '112.7 '106.1 107.8 '111.9 '1106.3 '119.0	P108.4 P100.8 P136.6 P104.2 P98.5 P98.3 P98.9 P112.6 P104.8 P107.8 P111.9 P106.2 P118.3 P119.5
HOURLY AND WEEKLY EARNINGS † Average hourly earnings per worker: ¶							ĺ	1			İ					
Not seasonally adjusted: Private nonagric. payrolls dollars. Mining do. Construction do. Manufacturing do. Excluding overtime do. Durable goods do. Excluding overtime do. Excluding overtime do. Excluding overtime do. Excluding overtime do. Excluding overtime do. Furniture and fixtures do. Stone, clay, and glass products do. Primary metal industries do. Primary metal industries do. Fabricated metal products § do. Machinery, except electrical do. Electric and electronic equipment @ do. Instruments and related products do. Miscellaneous manufacturing do. Miscellaneous manufacturing do. Food and kindred products do. Food and kindred products do. Textile mill products do. Apparel and other textile products do. Paper and allied products do. Paper and allied products do. Printing and publishing do. Petroleum and coal products do. Rubber and plastics products, nec do. Rubesale and retail trade do. Transportation and public utilities do. Finance, insurance, and real estate do. Services do.	6.16 8.49 9.27 6.70 6.43 7.13 6.83 6.85 7.32 6.85 8.98 8.98 6.85 7.32 6.32 8.53 6.17 7.03 6.27 6.47 4.66 4.23 7.13 6.94 7.13 7.13 7.13 7.13 7.13 7.13 7.13 7.13	6.66 9.17 9.92 7.75 7.48 6.53 5.49 7.50 9.77 7.45 8.00 6.95 9.32 6.80 6.47 6.56 6.33 8.30 6.86 7.73 7.84 6.56 6.33 8.30 6.86 7.73 8.80 6.86 7.73 8.80 6.86 7.73 8.80 6.86 8.87 7.88 8.87 5.88 8.87 5.88	6.67 9.16 10.04 7.30 7.76 7.75 6.75 5.55 7.63 9.85 7.49 8.02 7.01 9.33 6.86 6.41 6.90 7.82 5.20 4.60 7.92 4.60 7.92 4.60 7.92 8.02 4.60 7.82 8.02 4.60 7.82 8.02 8.02 8.02 8.02 8.02 8.02 8.02 8	6.79 9.31 10.18 7.42 7.06 7.92 7.64 6.76 5.59 9.96 7.63 8.21 7.12 9.54 6.94 7.53 6.71 6.46 6.94 7.53 6.71 6.46 9.94 7.53 6.71 6.46 9.94 7.53 6.71 6.46 9.94 7.53 6.71 6.46 9.94 7.53 8.97 7.97 8.97 8.97 8.97 8.97 8.97	6.85 9.36 10.24 7.49 7.23 8.01 7.73 6.73 5.60 7.74 10.10 7.69 8.30 7.18 9.75 6.94 6.50 6.95 7.27 4.73 8.03 8.03 8.03 8.03 8.03 8.03 8.03 8.0	6.92 9.49 10.24 7.60 7.32 8.11 7.82 6.76 5.63 7.81 10.29 7.77 5.62 6.57 7.01 5.62 6.57 7.09 7.83 8.18 8.18 8.18 7.27 9.87 7.01 5.63 6.563 7.27 9.87 7.09 7.81 8.18 8.18 8.19 8.19 8.19 8.19 8.19 8	6.94 9.57 10.33 7.70 7.40 8.23 7.90 6.74 5.70 7.83 10.36 8.50 7.38 8.50 7.38 10.99 7.13 8.10 8.85 10.99 7.13 8.10 8.85 10.99 7.13 8.10 8.85 10.99 6.74 9.88 8.99 6.63 8.99 6.63 8.99 6.63 8.99 6.63 8.99 6.63 8.99 6.97 4.74 9.30 6.97 4.74 9.30 6.97 4.74 9.30 6.97 6.99	7.03 9.77 10.42 7.73 7.46 8.23 7.95 6.79 5.71 7.87 10.36 8.53 7.41 9.96 7.19 5.82 6.72 7.21 8.50 5.85 4.89 8.27 7.21 8.53 4.89 8.27 7.92 8.79 8.79 8.79 8.79 8.79 8.79 8.79 8.79	7.06 9.86 10.41 7.75 7.48 8.26 7.98 6.81 5.74 7.89 10.56 7.43 9.93 7.20 5.83 6.98 6.74 8.56 6.74 8.56 8.28 8.28 8.28 8.29 6.88 7.96 8.80 8.40 8.50 8.80 8.50 8.20 6.27	7.10 9.85 10.44 7.80 7.53 8.32 8.04 6.79 5.76 7.94 10.52 7.47 10.08 7.47 10.08 7.47 10.08 7.47 10.08 7.47 10.08 7.47 10.08 7.47 10.08 7.47 10.08 7.47 10.08 7.47 10.08 7.47 10.08 7.47 10.08 10	7.13 9.70 10.43 7.88 8.40 8.12 6.83 5.78 8.11 10.76 8.05 8.67 7.51 10.14 7.25 5.91 7.08 6.86 6.86 7.37 8.90 4.96 8.94 8.94 8.94 8.94 8.94 8.94 8.94 8.94	7.17 9.68 10.53 7.92 7.64 8.45 6.92 7.55 10.25 7.55 10.25 7.55 10.25 7.43 9.03 7.11 6.86 7.43 9.03 8.42 8.10 8.98 8.42 8.10 8.99 8.10 8.99 8.99 8.99 8.99 8.99 8.99 8.99 8.9	7.20 9.94 13.60 7.768 8.52 8.21 7.10 5.89 8.31 10.76 8.23 8.81 7.60 10.36 7.34 6.88 7.43 9.33 7.14 6.88 9.63 5.93 7.23 4.96 9.63 5.23 6.23 6.33	7.24 10.11 10.74 8.55 8.26 7.74 8.55 10.79 10.79 10.79 10.79 10.79 10.79 10.75 10.79	7.30 10.15 10.87 18.02 17.73 18.27 17.14 15.98 18.40 10.99 18.27 10.30 17.48 15.97 10.30 17.48 15.97 11.30 15.64 14.98 18.63 18.68 18.68 18.69 17.76 19.86 18.63 17.65 18.63 17.65 18.63 18.64 19.86 15.93 17.65 17.65 17.65 18.63 17.65 18.63 17.65 18.63 17.65 18.63 17.65 18.63 17.65 18.63 17.65 18.63	P7.37 P10.25 P10.97 P8.15 P7.87 P8.85 P8.40 P7.15 P5.99 P8.50 P11.20 P7.83 P9.00 P7.83 P10.46 P7.54 P6.05 P7.38 P7.10 P7.60 P8.56 P7.31 P6.05 P7.38 P7.10 P7.60 P8.56 P7.10 P8.56 P7.10 P8.56 P7.76 P8.99 P8.45 P7.41 P5.07 P9.98 P7.66 P5.66 P5.66 P5.66 P5.66 P5.66

Unless otherwise stated in footnotes below, data	1979	1980			1980							1981				
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
LABO	OR FO	RCE,	EMP	LOYI	MENT	Γ, AN	D EA	RNII	NGS-	-Con	tinue	d				
HOURLY AND WEEKLY EARNINGS †—Cont.																
Average hourly earnings per worker—Cont. Seasonally adjusted: Private nonagricultural payrolls dollars. Mining do. Construction do. Manufacturing do. Transportation and public utilities do. Wholesale and retail trade do. Services do.	6.16 8.49 9.27 6.70 8.16 5.06 5.27 5.36	6.66 9.17 9.92 7.27 8.87 5.48 5.78 5.85	9.16 10.02 7.36 8.93	6.76 9.31 10.05 7.41 8.94 5.57 5.87 5.94	6.83 9.36 10.15 7.49 9.12 5.61 5.91 6.00	6.90 9.49 10.21 7.59 9.20 5.66 6.02 6.07	6.94 9.57 10.30 7.63 9.26 5.69 6.00 6.11	6.99 9.77 10.39 7.69 9.33 5.72 6.10 6.15	7.04 9.86 10.44 7.74 9.44 5.78 6.21 6.20	7.09 9.85 10.49 7.80 9.48 5.81 6.19 6.24	7.14 9.70 10.52 7.90 9.57 5.84 6.20 6.27	7.18 9.68 10.57 7.95 9.67 5.89 6.24 6.32	7.23 9.94 10.69 7.99 9.74 5.91 6.24 6.38	77.26 710.11 710.77 8.02 79.71 5.93 6.27 76.42	7.34 *10.15 *10.85 *8.08 *9.85 *5.98 *6.37 *6.51	P7.34 P10.25 P10.83 P8.14 P9.89 P6.00 P6.35 P6.49
Indexes of avg. hourly earnings, seas. adj.: ¶ Private nonfarm economy: Current dollars	116.7 97.3 122.9 114.1 117.6 116.8 118.0 116.0 115.1	127.3 93.5 134.1 121.8 129.4 127.2 127.8 127.0 125.5		129.4 93.3 136.7 123.1 132.3 128.1 129.9 129.1 127.3	130.6 93.2 137.5 124.4 133.5 130.9 130.8 129.9 128.5	132.1 93:2 139.2 125.2 134.6 132.6 132.3 132.4 130.5	132.6 92.7 139.8 126.2 135.4 132.8 132.4 131.9 131.1	133.8 92.8 142.0 127.6 136.5 133.7 133.7 133.2 132.0	135.0 92.7 143.2 128.0 137.5 135.4 135.0 135.0 133.2	135.8 92.8 144.0 128.6 138.5 136.1 135.8 136.0 134.0	136.7 93.0 145.7 129.0 139.9 137.3 136.4 135.4 134.8	137.7 93.1 145.6 129.4 140.4 138.9 137.4 136.8 136.0	138.4 92.9 147.2 130.4 141.6 139.8 137.1 136.6	'139.0 '92.2 '148.9 '131.8 '142.5 '139.3 '138.4 '137.4 '136.9	'140.6 '92.6 '149.3 '132.6 '143.5 '141.2 '139.7 '140.4 '139.5	P141.0 P150.4 P132.4 P145.1 P141.6 P139.9 P139.9 P139.1 P13.27 P17.31
Farm (U.S.) wage rates, hired workers, by method of pay: All workers, including piece-rate	3.39 3.34 3.58 3.41 8.93	3.66 3.59 3.82 3.67 9.92		10.31	3.85 3.73 3.92 3.83 10.25	10.49	10.39	4.12 4.04 4.36 4.09 10.51	10.71	10.49	3.92 3.88 4.09 3.91 10.58	10.62		10.56		
Avg. weekly earnings per worker, private nonfarm: Current dollars, seasonally adjusted 1977 dollars, seasonally adjusted 1977 dollars, seasonally adjusted 1977 dollars, seasonally adjusted 1977 dollars, seasonally adjusted 1977 dollars, seasonally adjusted 1977 dollars, seasonally adjusted 1977 dollars, not seasonally adjusted Private nonfarm, total dollars. Mining do. Construction do. Manufacturing do. Durable goods do. Nondurable goods do. Transportation and public utilities do. Wholesale and retail trade do. Wholesale trade do. Retail trade do. Finance, insurance, and real estate do. Services do.	219.91 178.00 148.46 219.91 365.07 342.99 269.34 290.90 236.19 325.58 164.96 247.93 138.62 190.77 175.27	235.10 172.74 188.82 138.74 235.10 396.14 367.04 288.62 310.78 255.84 351.25 176.46 267.96 147.38 209.24 190.71	207.49 151.34 236.79 395.71 374.49 287.62 308.47 259.35 354.92 179.52 268.42 151.10	238.63 172.05 209.08 150.74 239.69 404.99 386.82 295.32 318.38 262.36 358.09 179.03 272.20 149.49 211.91 193.32	241.10 172.09 210.95 150.57 241.81 408.10 388.10 3298.10 322.80 263.53 365.76 179.44 274.38 149.40 214.53 195.60	243.57 171.89 212.83 150.20 244.28 413.76 376.83 305.52 330.08 268.71 368.02 181.04 276.82 150.60 218.53 198.53	244.98 171.19 213.90 149.48 247.06 422.04 384.28 341.86 341.55 274.91 372.00 182.65 281.25 152.20 217.80 199.51	246.75 171.12 213.96 148.38 246.75 425.97 379.29 308.43 332.49 273.22 367.60 183.86 281.82 152.81 222.04 201.83	214.75 147.49 247.10 422.01 364.35 306.13	250.28 170.96 216.62 147.96 249.92 416.66 388.37 371.12 336.96 274.09 371.15 186.62 285.67 154.96 225.32 205.05	252.76 172.06 218.48 148.73 250.98 422.92 384.87 384.87 374.92 188.43 287.60 156.60 225.06 205.38	253.45 171.37 219.00 148.07 252.38 423.98 388.56 317.59 343.07 280.13 376.89 188.48 289.14 152.26 205.73	254.50 170.92 219.80 147.62 254.88 418.47 394.32 345.91 282.03 345.91 282.03 383.27 190.25 289.89 158.99 225.26 206.99	"256.28 "170.06 "221.14 146.55 "257.74 "439.79 "404.90 "341.15 282.69 "385.66 "193.85 "294.49 "161.92 "227.60	'258.37 '170.20 '222.71 '146.71 259.88 '446.60 '406.54 '319.20 '344.51 285.26 '392.43 '193.91 '295.29 '162.23 '231.87 '210.89	P442.80 P390.53 P320.30 P343.73
HELP-WANTED ADVERTISING Seasonally adjusted index	158	129	117	122	127	134	130	128	129	125	118	118	121	123	₽119	
Manufacturing establishments: Unadjusted for seasonal variation: Accession rate, total mo. rate per 100 employees. New hires do. Separation rate, total do. Layoff do. Seasonally adjusted: do. Accession rate, total do. New hires do. Separation rate, total do. Layoff do. Layoff do. Layoff do. UNEMPLOYMENT INSURANCE	4.0 2.9 4.0 2.0 1.1	3.5 2.1 4.0 1.5 1.7	4.5 2.5 4.8 2.2 1.7 3.6 1.9 3.9 1.3 1.9	4.3 2.6 4.1 1.9 1.4 3.8 2.1 3.5 1.3	3.6 2.2 3.7 1.4 1.5 3.8 2.1 3.4 1.3	2.7 1.6 3.0 1.1 1.3 3.6 2.1 3.3 1.4	2.2 1.2 3.1 0.9 1.6 3.6 2.2 3.3 1.5	3.4 1.8 3.6 1.2 1.6 3.5 2.2 3.6 1.5 1.3	3.0 1.8 3.1 1.1 1.2 3.6 2.3 3.8 1.5	3.4 2.0 3.2 1.2 1.2 3.5 2.2 3.6 1.4 1.4	3.3 2.0 3.1 1.3 1.0 3.2 2.0 3.3 1.3 1.2	3.5 2.3 3.1 1.3 1.0 3.1 2.0 3.4 1.3 1.3	4.0 2.8 3.2 1.4 1.1 3.4 2.2 3.4 1.4 1.3	3.6 r2.4 3.6 1.5 1.3 r3.4 r2.3 3.2 1.5	P3.9 P2.6 P4.3 P2.1 P1.4 P3.1 P2.0 P3.5 P1.3 P1.5	
Unemployment insurance programs: Insured unemployment, all programs, average weekly #@ thous. State programs (excl. extended duration prov.): Initial claims	2,592 20,160 2,433 3.0 2,033 8,612.9	3,837 25,412 3,350 2.9 2,844 14,584.9	3,408 3.9 4.4 3,026	3,961 1,702 3,087 3.6 4.4 2,656 1,144.9	3,660 1,808 2,903 3.3 4.1 2,488 1,125.4	3,726 1,673 2,983 3.4 3.8 2,381 1,055.1	4,085 2,544 3,321 3.8 3.5 2,738 1,243.0	4,621 2,653 3,844 4.4 3.4 3,234 1,416.5	4,264 1,806 3,669 4.2 3.2 3,220 1,313.5	3,948 1,684 3,382 3.9 3.3 3,069 1,393.6	3,453 1,647 2,988 3,4 3,4 2,698 1,226.8	3,111 1,417 2,691 3.1 3.4 2,331 1,006.3	2,949 1,741 2,596 3.0 3.4 2,256 1,012.8	2,739 3.1 3.2		
Federal employees, insured unemployment, average weekly thous. Veterans' program (UCX): Initial claims dodododododododo.	28 282 52 52 287.5 107 18 82.5	29 267 55 56 294.8 162 34 176.1	25 23 55 58 24.6	29 25 56 56 24.8 10 40 18.8	32 23 56 55 25.9 9 35 17.8	35 17 54 54 21.0 7 36 14.3	37 21 55 58 27.0 11 41 18.0	41 19 57 59 26.6	40 17 54 55 22.5 48	36 18 51 53 24.7 5 45 23.2	31 16 46 49 23.0 6 41 19.2	27 15 43 43 20.0 7 38 15.4	25 19 42 44 21.1 26 30 16.2	25 44 41 29		

October 1981			216 4 15	II OI	COL	TOTAL .	DU	711417	<u> </u>							9-10
Unless otherwise stated in footnotes below, data	1979	1980			1980							1981				
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Anr	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
LABO	OR FO	RCE,	EMP	LOY	MEN'	Γ, AN	ID EA	RNI	NGS-	–Con	tinue	d				
WORK STOPPAGES	[<u> </u>		l								
Industrial disputes:			!					ļ							ĺ	
Number of stoppages: Beginning in month or year number	4,827	4,000	374	420	347	201	66	253	347	314	371	473	421	391	310	
Workers involved in stoppages: Beginning in month or yearthous Days idle during month or yeardo	1,727 34,754	1,400 31,500	80 3,079	126 3,407	90 2,195	52 1,110	18 617	50 614	90 647	271 1,419	101 5,117	152 5,857	186 3,891	127 2,015	49 1,387	
Days fulle during month of year	34,134	31,000	0,015		FINA		1	014	041	1,410	0,117	0,007	0,001	2,010	1,007	
BANKING								l						ľ		
Open market paper outstanding, end of period:		:											,	}		
Bankers' acceptances mil. \$ Commercial and financial co. paper, total do	45,321 110,432	54,744 121,597	54,486 119,339	55,774 119,781	56,610 121,324		54,744 121,597	54,465 128,187		60,089 130,118	62,320 134,696		63,427 145,994	63,721 150,265		************
Financial companies	81,617 17,001	86,242 18,479	81,231 17,485	81,257 17,503	83,936 17,672	86,268	86,242 18,479	88,532 18,927	88,527 19,498	89,682 20,652	92,226 22,082	95,716 22,675	99,458 23,438	103,294 23,670		
Directly placed	64,616 28,815	67,763 35,355	63,746 38,108	63,754 38,524	66,264 37,388	67,663	67,763 35,355	69,605 39,655	69,029 41,402	69,030 40,436	70,144 42,470	73,041 44,340	76,020 46,536	79,624		
Agricultural loans and discounts outstanding of		,	,	,.	,				-, -	,	,	,	,			
agencies supervised by the Farm Credit Adm.: Total, end of period mil. \$	58,496	68,648	66,239	66,975	67,966	68,324	68,648	70,105	70,886	72,123	73,382	74,452	75,207	76,412	77,072	
Farm mortgage loans: Federal land banks	31,284	38,138	36,470	36,843	37,260	37,612	38,138	38,740	39,375	40,264	41,111	41,913	42,693	43,450	44,064	
Loans to cooperatives	8,091 19,122	9,506 21,005	8,388 21,381	8,902 21,230	9,988 20,718	10,261 20,451	9,506 21,005	10,324 21,042	10,056 21,455	9,802 22,057	9,648 22,624	9,361 23,178	8,807 23,707	8,897 24,065	8,932 24,075	
Federal Reserve banks, condition, end of period: Assets, total # mil. \$	162,947	171,495	162,860	167,788	164,067	169,041	171,495	161,467	161,824	167,040	168,067	164,447	171,311	167,377	168,429	181,639
Reserve bank credit outstanding, total # do	135,092	137,644		134,437	135,029		137,644	129,492		131,037	132,896	130,939	132,227	134,957	136,699	138,288
Time loans do	1,454 117,458		119,848	982 120,711	1,567 121,482	2,284 120,812	1,809 121,328	1,304 117,169		656 118,043	2,333 119,687	1,366 118,311	1,010 120,017		1,254 124,522	2,486 124,330
Gold certificate account	11,112 162,947	11,161 171,495	11,172 162,860	11,168 167,788	11,163 164,067	11,162 169,041	11,161 171,495	11,159 161,467	11,156 161,824	11,154 167,040	11,154	11,154 164,447	11,154 171,311	11,154 167,377	11,154 168,429	11,152
Deposits, total	35,708	31,546	33,141	33,071	33,088	34,809	31,546	30,747	29,777	29,983	31,310	27,213	27,423	29,690	30,398	41,924
Member-bank reserve balances do Federal Reserve notes in circulation do	29,520 113,355	27,456 124,241	29,338 116,925	28,146 117,144	30,518 118,248	31,528 121,191	27,456 124,241	26,621 118,147	26,734 118,854	26,164 120,874	26,063 121,852	24,304 123,251	23,626 124,783	26,011 124,765	27,045 125,134	27,243 125,050
All member banks of Federal Reserve System,																
averages of daily figures: Reserves held, total mil. \$	143,972	140,097	40,373	41,164 40,908	41,815 41,498	41,678 40,723	40,097 40,067	41,514 41,025	39,650	39,752 39,372	۲40,153	40,344	40,648 40,098	r41,057 40,675	41,024 40,753	40,579 40,179
Required	¹43,578 ¹394 ¹1,473	¹40,067 ¹30 ¹1,617	40,071 302 659	256 1,311	317 1,335	955 2,156	30 1,617	489 1,405	39,448 202 1,278	380 1,004	40,071 *82 1,343	40,213 131 2,154	550 2,038	1,751	271 1,408	400 1,473
Free reserves	1-997	1-1,471	-347	-1,029	-951	-1,102	-1,471	-796	-928	-427	r_1,100	-1,764	-1,197	r-1,121	-917	-851
Large commercial banks reporting to Federal Reserve System, Wed. nearest end of yr. or mo.:																
Deposits: Demand, adjusted § mil. \$	123,332	119,584	109,474	⁷ 112,963	108,156	111,706	119,584	100,185	95,658	106,246	97,595	97,121	101,467	97,063	95,344	100,820
Demand, total #	220,048 156,462	228,967 158,722	204,865 143,267	r209,182 r145,772	191,810 135,213		228,967 158,722	185,566 127,940	183,252 123,777	206,616 139,810	188,663 128,835	195,134 130,752	209,662 140,425	173,405 122,049	187,465 128,044	209,326 136,206
State and local governments do U.S. Government do	5,992 868	5,933 1,088	4,907 1,019	'5,155 '1,035	4,658 787	4,804 2,964	5,933 1,088	4,846 1,676	4,714 1,579	4,938 1,005	4,456 2,881	4,262 3,312	5,176 1,082	4,163 1,784	4,532 1,111	5,137 2,196
Domestic commercial banks do	36,052	41,710	36,589	r37,565	34,457	36,804	41,710	34,044	35,230	38,664	32,839	36,735	41,213	27,901	36,984	43,903
Time, total # do Individuals, partnerships, and corp.:	269,049	313,750	282,456	^r 286,149	289,376	300,970	313,750	320,947	320,996	321,801	322,992	334,602	337,291	341,228	349,890	349,177
Savings do Other time do	75,202 160,840	72,313 205,805	76,240 174,761	*76,999 *177,677	76,042 181,124	74,946 193,269	72,313 205,805	74,382 210,718	75,072 209,948	79,344 208,372	77,897 211,052	77,797 221,968	78,236 226,009	76,373 232,390	76,204 239,748	75,388 240,298
Loans (adjusted), total § do	404,117	433,583	404,474	r411,964	412,556	424,173	433,583	425,949	423,216	430,070	430,525	437,332	450,145	442,601	452,410	
Commercial and industrial do For purchasing or carrying securities do	160,317 9,904	174,751 9,979	161,761 6,926	166,584 17,646	7,084	172,266 8,960	174,751 9,979	171,414 7,746	169,482 8,182	172,782	174,525 8,708	176,623 10,396	182,502 12,100	9,160	184,978 8,622	10,201
To nonbank financial institutions do Real estate loans do	26,610 100,542	25,988 111,665	23,470 107,406	24,278 108,799	24,024 109,464	24,842 110,728	25,988 111,665	25,253 112,866	24,875 113,681	24,598 114,468	25,338 115,337	25,836 116,622	26,774 117,723	25,929 118,697	27,119 120,047	26,277 121,559
Other loans	138,475 108,868	135,983 118,036	129,017 116,303	'128,882 '115,318	126,159 114,236	133,629 116,520	135,983 118,036	131,059 117,337	131,875 118,190	134,392	129,376 117,234	132,871 121,042	137,441 119,513	133,067 118,132	139,661 117,549	145,480 117,272
U.S. Government securities, total do Investment account *	36,406 31,533	39,539 35,242	40,526 35,076	r38,937 r34,613	37,674 33,897	39,409 34,422	39,539 35,242	39,777 33,438	40,816	41,754 33,897	39,720 34,280	42,128 34,444	40,599 33,807	40,657 33,410	38,856 31,987	37,785 31,642
Other securities do	72,462	78,497	75,777	r76,381	76,562	77,111	78,497	77,560	33,726 77,374	78,354	77,514	78,914	78,914	77,475	78,693	79,487
Commercial bank credit, seas. adj.: Total loans and securities ¶bil. \$	1,134.6	1,237.2	1,180.9	1,193.4	1,206.5	1,224.3	1,237.2	1,253.3	1,262.9	1,262.4	1,267.0	1,279.3	1,285.4	1,291.6	1,302.8	1,314.2
U.S. Treasury securities do Other securities do	93.8 191.8	110.7 213.9	105.7 206.9	107.7 207.5	109.1 209.9	110.5 212.1	110.7 213.9	113.5 216.2	115.2 217.2	114.8 218.3	115.1 217.6	117.5 218.7	119.3 219.0	120.4 219.5	119.4 221.9	117.6 223.9
Total loans and leases ¶ do do	848.9	912.7	868.4	878.1	887.6	901.7	912.7	923.6	930.4	929.3	934.2	943.1	947.1	r951.7	961.5	972.7
Discount rate (N.Y.F.R. Bank), end of year or					' '					İ						
month percent Federal intermediate credit bank loans do	12.00 ² 10.09	12.87 ² 12.22	10.00 12.03	10.17 11.82	11.00 11.50	11.47 11.53	12.87	13.00 12.29	13.00 12.93	13.00	13.00	13.87 13.95	14.00	14.00 14.59	14.00	14.00
Home mortgage rates (conventional 1st	10.09	12.22	12.03	11.02	11.00	11.03	11.90	12.29	14.73	13.35	13.65	10.89	14.29	14.09	14.83	15.11
mortgages): New home purchase (U.S. avg.)percent	²10.48	²12.25	11.84	11.95	12.20	12.62	12.86	12.80	13.02	13.48	13.62	13.56	14.12	14.14	r14.60	14.76
Existing home purchase (U.S. avg.) do	°10.66	²12.58	11.89	12.00	12.31	12.85	13.15	13.24	13.73	13.91	13.99	14.19	14.40	14.77	15.03	15.26
Open market rates, New York City: Bankers' acceptances, 90 days do	³11.04	³12.78	9.85	11.13	12.69	15.34	17.96	116.62	15.54	13.88	14.65	17.56	16.27	17.10	17.22	16.11
Commercial paper, 6-month ‡‡	310.91 310.25	³12.29 ³11.28	9.61 9.08	11.04 10.29	$12.32 \\ 11.15$	14.73 13.07	16.49 14.78	15.10 14.09	14.87 14.05	13.59 12.89	14.17 12.94	16.66 14.97	15.22 14.13	16.09 14.47	16.62 15.32	15.93 15.01
Yield on U.S. Government securities (taxable):							j		ł				- 1			
3-month bills (rate on new issue) percentl	³10.041	311.506	9.259	10.321	11.580	13.888	15.661	14.724	14.905	13.4781	13.635	16.295	14.557	14.699	15.612	14.951

Violent Alexandra (CA)	1979	1980	l		1980	*						1981				
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	10.0	1330	ļ		1880					<u> </u>		1301		<u> </u>		<u> </u>
in the 1979 edition of BUSINESS STATISTICS	Ann	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
			F	INAI	NCE-	-Cont	inue	ł								
CONSUMER INSTALLMENT CREDIT																
Total extended and liquidated: Unadjusted:																
Extended mil. \$ Liquidated dodo	324,777 286,396	305,887 304,477	27,391 25,481	26,907 25,744	28,136 27,840	24,918 24,088	31,052 25,669	23,145 26,027	23,672 25,037	29,519 27,940	29,117 26,464	28,321 26,275	30,477 27,485	29,468 27,040	30,075 26,312	
Seasonally adjusted: Extended, total #do			26,176	27,064	27,365	25,991	27,149	27,059	28,706	29,822	28,878	28,149	29,005	28,750	28,899	
By major holder: Commercial banks do			11,107	11,671	11,977	11,432	11,484	10,397	11,648	12,676	11,986	12,055	12,483	12,433	12,034	
Finance companies			5,155 3,085	5,355 2,752	5,323 2,872	4,852 2,795	5,185 3,035	5,904 2,994	6,193 3,167	5,911 3,153	5,218 3,181	4,937 3,212	5,251 3,137	5,439 3,299	6,385 2,913	
Retailers do By major credit type:			4,263	4,596	4,291	4,250	4,497	4,673	4,500	4,685	5,002	4,486	5,018	4,826	4,616	
Automobile			7,400 10,700	7,518 11,143	7,544 11,124	7,117 10,953	7,234 11,614	7,237 11,483	8,333 11,867	8,700 12,071	7,205 12,352	7,320 11,904	7,442 12,668	8,178 12,190	8,573 11,964	
Mobile home	1		415 25,687	26,009	513 26,663	424 25,152	479 25,530	383 26,190	409 26,710	641 26,714	551 26,547	609 26,803	488 27,075	26,796	536 26,040	Į.
By major holder: Commercial banks	l	!	11,789	11,936	12,313	11,552	11,760	11,754	12,192	12,064	12,331	12.069	11,869	12,001	11,849	
Finance companies			4,768 2,620	4,742 2,716	4,869 2,809	4,258 2,577	4,325 2,657	4,791 2,706	4,663 2,723	4,372 2,866	3,965 2,909	4,528 2,821	4,681 2,918	4,491 2,767	4,002 2,668	
Retailers do By major credit type:			4,103	4,140	4,157	4,198	4,181	4,264	4,397	4,432	4,471	4,489	4,602	4,561	4,629	
Automobile do do do			7,045 10,419	7,434 10,665	7,343 10,851	6,872 10,688	6,932 10,998	7,300 10,926	7,354 11,426	7,018 11,484	6,777 11,514	7,515 11,554	7,385 11,650	6,970 11,713	6,458 11,473	
Mobile home do Total outstanding, end of year or month # do	312,024	313,435	382 305,763	399 306,926	372 307,222	400 308,051	413 313,435	407 310,554	456 309,188	553 310,766	313 419	366 315,465	399 318,459	384 320,886	360 324,653	
By major holder: Commercial banks do	154,177	145,765	146,548	146,362	145,895	145,147	145,765	143,749	142,030	141,897	142,070	142,143	143,310		144,769	
Finance companies	68,318 46,517	76,756 44,041	74,433 43,347	74,823 43,562	74,985 43,518	75,690 43,606	76,756 44,041	77,131 43,601	78,090 43,776	79,490 44,212	81,033 44,390	81,794 45,055	82,723 45,686	83,924 46,096	86,152 46,605	
Retailers do By major credit type:	28,119	29,410	24,918	25,301	25,703	26,469	29,410	28,300	27,329	26,965	27,227	27,319	27,412	27,469	27,494	
Automobile do Revolving do	116,362 56,937	59,862	53,771	116,781 54,406	116,657 54,598	116,517 55,304	116,327 59,862	115,262 58,985	115,677 57,566	117,517 56,831	118,479 57,322	118,932 57,524	119,685 58,470	58,976	123,219 59,745	
Mobile homedo FEDERAL GOVERNMENT FINANCE	16,838	17,327	17,068	17,113	17,276	17,293	17,327	17,244	17,189	17,273	17,422	17,626	17,724	17,784	17,988	
Budget receipts and outlays:							40.000	*****						10.410		
Receipts (net) mil. \$. Outlays (net) do Budget surplus or deficit (—) do	1465,955 1493,607 1-27,652	1520,050 1579,011 1-58,961	44,259 50,755 -6,496	53,544 47,289 6,255	38,923 56,304 -17,382	39,175 48,049 -8,874	48,903 56,202 -7,299	52,214 59,099 -6,884	38,394 53,969 -15,575	44,623 54,217 -9,593	74,464 57,198 17,266	38,514 54,608 -16,094	70,688 55,619 15,070	48,142 58,486 -10,343		
Budget financing, total do	127,652	158,961	6,496	-6,255	17,382	8,874	7,299	6,884	15,575	9,593	-17,266	16,094	-15,070	10,343		
Borrowing from the public	133,641 1-5,989	170,515 1-11,554	11,111 -4,615	6,260 -12,515	4,758 12,624	9,231 -357	13,668 -6,369	6,772 112	13,916 1,659	15,138 -5,545	-3,725 -13,541	539 15,555	572 -15,642	3,383 6,960		
Gross amount of debt outstanding do Held by the public do	¹833,751 ¹644,589	1914,317 1715,105	900,075 708,844	914,317 715,105	914,782 719,862	920,316 729,094	936,686 742,761	940,528 749,533	956,898 763,449	970,901 778,587	970,326 774,863	974,758 775,402	977,350 775,973	979,388 779,356		***************************************
Budget receipts by source and outlays by agency: Receipts (net), total mil. \$	¹465,955	1520,050	44,259	53,544	38,923	39,175	48,903	52,214	38,394	44,623	74,464	38,514	70,688	48,142		
Individual income taxes (net)	1217,841 165,677	1244,069 164,600	19,527 1,367	26,936 8,884	21,150 1,284	20,851 1,003	23,725 9,387	30,964 2,158	15,348 564	13,693 8,586	38,659 9,371	10,496 1,011	33,729 15,792	24,439		
Social insurance taxes and contributions (net)	¹141,591 ¹40,847	¹160,747 ¹50,634	18,546 4,816	12,860 4,864	11,283 5,205	13,242 4,078	11,078 4,714	14,363 4,728	17,211 5,272	15,784 6,560	20,201 6,232	20,694 6,312	14,657 6,510	15,206		
Outlays, total # do	1493,607	1579,011	50,755	47,289	56,306	48,049	56,202	59,099	53,969	54,217	57,198	54,608	55,619	58,486		
Agriculture Department	120,636 1115,013			1,340 11,345	1,785 12,705	1,829 11,601	3,415 12,281	5,212 12,424	2,390 12,544	1,802 13,263	1,546 13,000	1,456 13,500	2,117 13,464	1,123 14,392		
Department \$ mil. \$ Treasury Department do	¹170,297 ¹60,988	¹194,691 ¹76,642	17,992 5,164	17,153 5,016	19,017 7,286	16,919 5,625	19,133 10,944	19,083 5,222	18,702 6,936	18,783 6.878	19,308 8,376	18,897 7,415	19,074 12,100	21,141 7,522		
National Aeronautics and Space Adm do Veterans Administration do	14,187 19,887	14,850 121,135	456	356 744	479 2,857	425 717	499 3,028	381 1,921	459 1,953	6,878 559 1,025	483 2,164	461 1,668	509 1,784	417		
LIFE INSURANCE			ļ													
Institute of Life Insurance: Assets, total, all U.S. life insurance cos bil. \$ Government securities	432.28 29.72	479.21 33.02	461.11 31.23	466.57 31.35	470.72 31.57	476.29 31.82	479.21 33.02	482.01 33.56	485.03 34.34	490.15 34.66	493.18 34.75	497.28 35.38	500.32 36.30	503.99 36.82		
Corporate securities do Mortgage loans, total	208.75 118.42	226.97 131.08	220.38	223.59 128.06	226.03 128.96	228.99 129.81	226.97 131.08	229.64 131.71	230.00 132.57	232.11 133.23	233.70 133.90	235.00 134.49	235.85 135.32	237.06 135.93		
Nonfarm	106.24	118.12	114.54	115.24	116.09 14.79	116.91	118.12	118.78 15.66	119.60	120.26	120.92	121.47	122.29	122.84		
Real estate	34.82 2.67 24.89	41.41 3.21	14.42 39.91 2.04 25.81	14.59 40.21 2.10 26.67	40.50 1.52 27.34	40.81 1.82 28.11	41.41 3.21 28.49	41.99 1.82 27.63	42.57 1.59 28.09	16.24 43.23 1.72 28.95	43.77 1.70 28.91	16.74 44.29 1.80 29.57	16.97 44.97 1.82 29.09	45.59 1.62 29.54		
Life Insurance Agency Management Association: Insurance written (new paid-for insurance):		}	}													:
Value, estimated total mil. \$ Ordinary (incl. mass-marketed ord.) do Group do	492,812 329,571 157,906	371,113 170,184	29,348 15,023	45,055 30,635 14,146	46,589 34,215 12,156	43,212 30,751 12,265	70,651 39,837 30,641	41,221 27,468 13,596	42,967 30,352 12,462	52,345 36,537 15,589	48,254 37,055 11,010	47,321 34,282 12,837	96,290 38,445 57,713	52,579 35,776 16,670	34,420 17,043	
Industrial do	l 5,335	1 3,275	l 273	274	218	196	173	157	154	219	1891	202	133	133	131	l

	1080	1000	<u> </u>		1000							100-				
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS		1980		Ι	1980	I			Ī	ı	1	1981	•		1	1
in the 1979 edition of BUSINESS STATISTICS	Anr	ıual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.
	,	<u> </u>	F	INAI	VCE-	-Cont	inue	d						,		
MONETARY STATISTICS			ļ													
Gold and silver: Gold: Monetary stock, U.S. (end of period) mil. \$	11,172	11,160	11,172	11,168	11,163	11,162	11,160	11,159	11,156	11,154	11,154	11,154	11,154	11,154	11,154	
Net release from earmark \$	294 4,907,865	204 3,647,932	9 225,620	38 177,515	$\frac{1}{421,774}$	18 312,274	287,932	72 343,344	383,071	310,606	210,307	282,140	473,202	17 409,217	21 136,047	
Importsdo	1,480,203	2,750,120	162,535	540,145	330,988	157,531	131,231	200,324	160,263	90,584	165,227	213,447	200,958	140,388	205,218	
South Africa mil. \$ Canada do	955.1 145.9	916.1 ² 60.5	76.8	76.0 6.0	77.3 5.6	74.7 5.5	71.4 4.7	73.0 4.8	73.0 4.8	75.2 5.9	74.3 5.1	73.5	76.0	75.6		
Silver: Exports thous \$.	471,162 961,761	1,909,733	65,526 85,967	29,012 135,031	33,453	40,921	74,637	56,582 132,996	45,602	41,195	26,571 90,319	11,744 89,757	31,922 85,399	21,987	22,176 80,192	
Importsdo Price at New Yorkdol. per fine oz Production:	11.094	1,602,295 20.632	15.897	20.144	129,450 20.181	138,053 18.648	122,312 16.393	14.752	127,500 13.024	85,900 12.338	11.437	10.848	10.001	67,920 8.631	8.925	
United States thous. fine oz	27,397	33,602 137.2	1,607	3,277 129.9	2,577	3,034	3,607 137.2	2,820 131.1	2,611	1,524 133.9	2,520 135.0	2,032	2,649	2,434 138.3	1,957	
Currency in circulation (end of period)bil. \$ Money stock measures and components (averages	125.6	137.2	129.7	125.5	131.1	134.1	157.2	101.1	131.9	133.3	130.0	136.5	138.1	136.3		
of daily figures): † Measures (not seasonally adjusted): ‡	000 4			200.0	204 5	2014				250.0	200 5	250.4	2011	222 5		
M1-A	363.4 379.0 1,473.0	379.7 402.7 1,603.8	381.1 405.4 1,630.7	386.6 412.3 1,643.3	391.7 418.4 1,657.5	394.1 421.9 1,666.9	397.7 425.9 1,675.2	378.9 423.5 1,683.6	358.7 411.5 1,685.1	358.9 417.8 1,713.4	369.5 436.7 1,745.7	359.4 424.4 1,737.5	361.1 428.4 1,751.5	363.5 432.9 1,765.0	7360.8 7431.3 71,773.6	359.9 432.3 1,783.3
M3 do L (M3 plus other liquid assets) do	31,708.8 32,061.9	31,870.3 32,266.5	1,892.6 2,285.5	1,909.6 2,304.8	1,931.4 2,327.0	1,952.0 2,353.6	1,975.6 2,385.0	1,994.9 2,411.5	2,000.9 2,426.8	2,024.8 2,446.1	2,052.5 2,467.4	2,054.0 2,478.0	2,075.6 2,501.4	2,094.6		2,126.5
Components (not seasonally adjusted):	102.3	111.8	113.7	113.7						116.8	118.4	119.3	119.9	121.4	¹ 121.5	121.0
Currency do Demand deposits	257.5 15.6	264.1 23.1	263.0 24.4	268.6 25.9	114.9 272.8 26.8	116.7 273.5 28.0	118.4 275.4 28.3	115.7 259.2 44.8	115.8 238.9 53.0	237.9 59.2	246.8 67.5	235.9 65.3	237.0 67.6	237.4 69.7	'234.5 70.8	234.3 72.8
Overnight RP's and Eurodollars *	27.2 26.9	28.7 69.8	31.7 80.7	33.0 78.2	32.7 77.4	32.8 77.0	32.4 75.8	32.7 80.7	31.9 92.4	33.3 105.6	34.3 117.1	38.3 118.1	39.7 122.8	39.2 134.3	r40.1 145.4	36.4 156.9
Savings deposits	446.1 597.2	397.9 708.6	408.0 709.0	411.4 712.5	411.9 721.2	405.0 734.6	390.2 755.2	374.2 776.9	365.6 787.7	365.7 794.8	366.4 795.2	359.7 801.0	355.4 808.9	*352.9 *809.6	r344.2 r816.4	337.5 824.0
Large time deposits @ do do Measures (seasonally adjusted): ‡	205.3	234.6	227.4	231.8	237.4	248.0	261.4	270.8	276.3	273.8	268.3	276.3	281.6	r286.0	*293.7	296.4
M1-A			382.8 406.9	386.4 411.8	390.1 416.3	391.3 419.1	387.7 415.6	375.1 419.2	367.2 421.2	365.8 425.8	366.6 433.7	364.9 431.5	361.9 428.8	361.3 430.1	r432.8	359.8 431.9
M2			1,633.4 1,897.4 2,291.3	1,644.9 1,912.8 2,309.0	1,654.0 1,928.3 2,326.0	1,668.5 1,951.0 2,355.6	1,669.4 1,965.1 2,378.4	1,680.8 1,989.3 2,408.7	1,695.7 2,009.1 2,433.6	1,718.6 2,027.2 2,445.3	1,738.1 2,046.0 2,457.7	1,743.4 2,060.8 2,480.1	1,749.3 2,079.0 2,502.7	r2,094.0		1,786.7 2,132.1
Components (seasonally adjusted):				ĺ						,			·		•••••	
Currency do Demand deposits do Savings deposits do			265.4	113.8 268.6 407.9	114.9 271.2	115.7 271.6 406.1	116.1 267.4	116.6 254.4 376.9	117.2 245.8	117.9 243.5	118.9 243.1 367.0	119.8 240.7 361.1	119.9 237.9 354.0	120.8 236.4 r349.1	r121.2 r236.7 r341.2	121.2 234.3 334.7
Savings deposits @ do Small time deposits @ do Large time deposits @ do			404.6 713.6 229.6	718.1 233.4	407.8 724.0 237.7	738.0 245.4	393.0 756.8 256.8	775.7 268.0	370.8 783.3 273.9	368.3 789.4 271.0	790.0 269.5	798.4 277.2	807.7 287.3	7811.3 1290.3	'821.6 '296.7	830.6 298.6
PROFITS AND DIVIDENDS (QTRLY.)																
Manufacturing corps. (Fed. Trade Comm.): Net profit after taxes, all industries	98,698	92,443		20,982			24,262			23,586			29,005			
Food and kindred products	7,340 1,340	8,223 986		2,120 196			2,539 247			1,861 255			2,128 417			
Paper and allied products	3,723 10,896			621 2,774			689 2,514			758 3,164			853 3,042			
Petroleum and coal products do Stone, clay, and glass products do	21,936 2,373	1,812		5,807 602			5,751 493			5,586 228			543			
Primary nonferrous metal	2,691 2,185	2,771 2,336		402 218			639 775			633 836			659 1,055			
machinery, and transport. equip.) mil. \$	4,431	3,936		870			977			1,035			1,303			
Machinery (except electrical) do Elec. machinery, equip., and supplies do	11,530 7,386	11,447 7,137		2,637 1,681			3,329 1,963			2,813 2,129			3,234 2,125			
Transportation equipment (except motor vehicles, etc.) mil. \$	3,189	3,077		742			754			1,010			973			
Motor vehicles and equipment do All other manufacturing industries do	4,382 15,314	-3,438 14,665		-1,626 3,938			-269 3,861			-386 3,664			921 4,079			
Dividends paid (cash), all industries do SECURITIES ISSUED	32,491	36,390		8,920			9,763			9,649			9,961			
Securities and Exchange Commission:		20.504		. 0	2442		. =						40.050			
Estimated gross proceeds, total mil. \$ By type of security: Bonds and notes, corporate	57,671 40,850	80,564 55,719	5,559 4,205	5,341 3,217	6,143 3,074	4,124 2,262	6,763 3,647	5,417 3,209	4,402 2,830	6,577 4,159	8,239 4,694	5,874 3,176	10,973 5,699	4,183 2,117		*************
Common stock do	8,709	18,996	1,123	1,717	2,158	1,516	2,648	1,831	1,174	2,003	2,445	2,435	4,754	1,690		
Preferred stockdo By type of issuer:	3,525	3,634	131	406	491	256	241	364	149	298	85	164	188	67		
Corporate, total # mil. \$ Manufacturing do	53,084 11,563	78,349 24,398	5,459 1,856	5,340 1,069	5,723 1,509	4,034 550	6,536 2,422	5,404 2,244	4,153 1,344	6,460 1,820	7,224 1,990	5,775 2,172	10,641 1,895	3,874 812		
Extractive (mining) do Public utility do	3,192 13,736	4,818 15,940	238 1,444	533 1,487	244 1,169	263 892	830 1,058	542 692	521 853	619 1,161	562 1,468	753 1,499	1,997 1,839	397 691		
Transportation	3,297 4,694 12,867	3,745 6,845 15,638	378 626 712	463 598 764	357 830 1,138	200 260 1,182	260 278 1,100	477 76 587	126 303 585	189 958 1,305	288 710 1,743	96 57 858	602 1,506 2,201	85 840 802		
State and municipal issues (Bond Buyer): Long-term do Short-term do	42,261 20,897	47,133 26,485	3,918 2,375	4,226 2,379	4,391 1,775	2,943 2,197	3,738 1,363	2,574 1,825	2,890 2,155	3,695 1,718	5,082 1,881	3,358 4,763	4,921 3,756	3,255 2,267	2,777 2,033	
SECURITY MARKETS	22,30	22,100	-,5,0	2,2,0	-,	-,	2,200	-,	-,	-, -	.,	-,	-,	_,_,,	-,	
Stock Market Customer Financing	i															
Margin credit at brokers, end of year or month mil. \$ Free credit balances at brokers:	11,619	14,721	12,007	12,731	13,293	14,363	14,721	14,242	14,171	14,243	14,869	14,951	15,126	15,134		***************************************
Margin accounts do do do do	1,105 4,060	2,105 6,070	1,695 4,925	1,850 5,680	1,950 5,500	2,120 5,590	2,105 6,070	2,065 5,655	2,225 5,700	2,340 6,530	2,270 6,440	72,345 6,150	2,350 6,650	2,670 6,470		
See footnotes at end of tables.	-,	,	-, ,	, ,		, == '		,		,						

Unless otherwise stated in footnotes below, data	1979	1980		***	1980							1981				
in the 1979 edition of BUSINESS STATISTICS	Ann	ıual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
			F	INA	ICE-	-Cont	inue	d								
SECURITY MARKETS—Continued Bonds																
Prices: Standard & Poor's Corporation: High grade corporate:											į				i	
Composite §dol. per \$100 bond Domestic municipal (15 bonds)do	51.1 73.4	41.4 57.4	42.1 56.3	41.1 54.3	39.7 53.4	37.8 50.9	37.2 48.1	38.0 50.4	36.1 48.4	36.5 47.9	34.5 45.9	32.9 45.0	35.1 45.8	33.0 43.7	31.8 39.4	29. 36.
New York Stock Exchange, exclusive of some stopped sales, face value, total mil. \$	4,087.89	5,190.30	367.58	373.04	414.73	427.57	709.63	353.06	324.18	398.95	430.18	418.49	457.82	444.69	475.07	577.3
Yields: Domestic corporate (Moody's)percent By rating:	10.12	12.75	12.33	12.80	13.07	13.63	14.04	13.80	14.22	14.26	14.66	15.15	14.76	15.18	15.60	16.1
Aaa do Aa do A do Baa do	9.63 9.94 10.20 10.69	11.94 12.50 12.89 13.67	11.64 12.09 12.44 13.15	12.02 12.52 12.97 13.70	12.31 12.68 13.05 14.23	12.97 13.34 13.59 14.64	13.21 13.78 14.03 15.14	12.81 13.52 13.83 15.03	13.35 13.89 14.27 15.37	13.33 13.90 14.47 15.34	13.88 14.39 14.82 15.56	14.32 14.88 15.43 15.95	13.75 14.41 15.08 15.80	14.38 14.79 15.36 16.17	14.89 15.42 15.76 16.34	15.4 15.9 16.3 16.9
By group: Industrials do Public utilities do Railroads do	9.85 10.39 9.60	12.35 13.15 11.48	11.84 12.82 11.36	12.31 13.29 11.56	12.60 13.53 11.72	13.20 14.07 12.02	13.60 14.48 12.22	13.37 14.22 12.42	13.60 14.84 12.61	13.66 14.86 12.72	14.00 15.32 12.85	14.45 15.84 12.90	14.25 15.27 13.09	14.48 15.87 13.22	14.87 16.33 13.50	15.4 16.8 13.7
Domestic municipal: Bond Buyer (20 bonds)	6.53 6.39	8.73 8.51	8.85 8.62	9.22 8.95	9.45 9.11	9.61 9.55	9.76 10.09	9.91 9.65	10.27 10.03	10.21 10.12	10.94 10.55	10.64 10.73	10.85 10.56	11.44 11.03	13.10 12.13	12.8
U.S. Treasury bonds, taxable ‡ do Stocks	8.74	10.81	10.53	10.94	11.20	11.83	11.89	11.65	12.23	12.15	12.62	12.96	12.39	13.05	13.61	14.1
Prices: Dow-Jones averages (65 stocks) Industrial (30 stocks) Public utility (15 stocks) Transportation (20 stocks)	293.46 844.40 104.56 237.83	328.23 891.41 110.43 307.23	342.77 947.33 110.38 317.91	348.16 946.67 111.44 333.91	356.44 949.17 112.34 357.32	373.14 971.08 114.43 393.29	368.40 945.96 114.23 394.05	371.59 962.13 113.51 394.64	365.26 945.50 108.86 392.60	381.05 987.18 108.42 417.42	390.66 1,004.86 107.32 439.23	380.45 979.52 106.84 423.24	384.92 996.27 108.79 422.72	368.97 947.94 107.59 404.26	364.22 926.25 111.49 396.27	333.3 853.3 105.1 353.1
Standard & Poor's Corporation: \$ Combined index (500 Stocks) 1941-43=10 Industrial, total (400 Stocks) #	103.01 114.83 115.27 83.82	118.78 134.52 131.37 86.88	123.50 140.18 136.55 93.62	126.51 143.73 142.10 95.41	130.22 148.36 145.07 92.76	135.65 155.08 153.68 92.28	133.48 152.19 149.78 90.30	132.97 151.06 147.23 94.61	128.40 145.70 143.14 94.45	133.19 151.03 149.76 100.84	134.43 152.29 150.80 105.96	131.73 149.06 146.78 104.67	132.28 148.70 144.84 108.55	129.13 145.30 140.10 101.63	129.63 145.95 141.13 110.04	118.2 132.6 126.6 93.6
Utilities (40 Stocks) do Transportation (20 Stocks)	50.40 14.53 51.74	50.54	51.18 18.83 73.90	51.10 19.85 80.64	51.49 21.77 90.82	52.08 24.65 106.28	51.66 24.55 106.74	52.01 24.25 102.31	49.81 23.64 97.69	50.36 25.02 101.32	50.96 25.88 103.25	50.37 24.48 94.77	52.15 24.12 90.91	52.28 23.55 92.55	54.06 22.99 91.12	51.0 20.0 78.8
Financial (40 Stocks)	12.33 44.48 104.86 119.06	102.90	13.04 45.81 105.24 133.87	13.38 45.86 107.15 140.97	13.04 43.27 103.65 134.80	12.68 43.19 103.58 128.25	12.89 46.63 109.74 126.00	13.57 48.70 117.50 129.13	13.41 48.18 116.43 126.73	14.30 49.83 119.52 136.70	14.44 49.65 119.30 142.81	14.55 52.57 118.09 142.21	15.80 58.23 127.68 155.50	14.67 53.94 120.62 146.16	14.46 53.42 117.24 140.67	13.7 50.8 111.6 132.9
New York Stock Exchange common stock indexes: Composite 12/31/65=50. Industrial do. Transportation do. Utility do. Finance do.	58.32 64.75 47.34 38.20 61.42	68.10 78.70 60.61 37.35 64.25	70.87 82.15 62.48 38.18 67.22	73.12 84.92 65.89 38.77 69.33	75.17 88.00 70.76 38.44 68.29	78.15 92.32 77.23 38.35 67.21	76.69 90.37 75.74 37.84 67.46	76.24 89.23 74.43 38.53 70.04	73.52 85.74 72.76 37.59 68.48	76.46 89.39 77.09 37.82 72.82	77.60 90.57 80.63 38.34 74.59	76.28 88.78 76.78 38.27 74.65	76.80 88.63 76.71 39.23 79.79	74.98 86.64 74.42 38.90 74.97	75.24 86.72 73.27 40.22 73.76	68.3 78.0 63.6 38.1 69.3
Yields (Standard & Poor's Corp.): Composite (500 stocks) percent. Composite (500 stocks) do Industrials (400 stocks) do Utilities (40 stocks) do Transportation (20 stocks) do Eigensial (40 stocks) do	5.45 5.18 9.19 4.68 5.47	9.77	5.06 4.75 9.71 3.84 5.54	4.90 4.59 9.67 3.60 5.38	4.80 4.47 9.77 3.32 5.58	4.63 4.31 9.65 2.87 5.74	4.74 4.42 9.79 2.99 5.71	4.80 4.49 9.78 3.08 5.52	5.00 4.68 10.33 3.22 5.62	4.88 4.57 10.23 3.06 5.38	4.86 4.55 10.46 2.98 5.41	4.98 4.67 10.33 3.17 5.38	5.03 4.76 10.03 3.22 4.95	5.18 4.88 10.07 3.34 5.35	5.16 4.86 9.78 3.46 5.43	
Financial (40 stocks)	9.11	10.60	10.04	10.14	10.64	11.35	11.94	11.55	11.83	11.81	11.81	12.30	12.23	12.43	12.63	13.0
Total on all registered exchanges (SEC): Market value	299,973 10,863	475,934 15,500	43,795 1,433	41,216 1,336	50,641 1,501	43,157 1,280	49,347 1,515	42,443 1,286	33,153 1,039	49,120 1,526	48,253 1,459	41,252 1,464	46,694 1,520	42,649 1,310		
Market value mil. \$ Shares sold (cleared or settled) millions New York Stock Exchange:	251,098 8,675	397,670 12,390	35,606 1,122	35,308 1,090	42,873 1,216	36,015 1,016	41,373 1,205	35,453 1,020	27,987 834	41,888 1,239	41,575 1,204	34,253 1,019	39,713 1,232	36,340 1,064		
Exclusive of odd-lot and stopped stock sales (sales effected) millions Shares listed, N.Y. Stock Exchange, end of period:	8,156	11,352	966	1,058	1,032	989	1,025	956	816	1,175	1,123	906	1,101	954	921	95
Market value, all listed shares bil. \$bil. \$bil. \$	960.61 30,033	33,709	1,115.48 32,602	32,804	33,041	1,289.71 33,427	1,242.80 33,709	33,993	34,211	1,248.95 34,670	1,229.56 34,967	1,238.19 35,545	1,224.74 36,859	1,224.89 37,404	1,149.19 37,567	1,080.5 37,70
	F	OREIC	N TI	RADE	OF	THE	UNIT	ED S	TAT	ES						
VALUE OF EXPORTS	101 015 0	990 704 0	17.046.1	17 000 0	10.040.0	10 614 0	10 545 1	117.064.0	10 045 4	99 000 5	90 F11 O	10.000.7	00.001.5	10 500 0	17 70C A	
Exports (mdse.), incl. reexports, total @ mil. \$ Excl. Dept. of Defense shipments do Seasonally adjusted do		220,704.9	17,946.1 17,938.4 19,103.4	17,829.0 17,800.9 18,701.0	19,948.9 19,936.9 19,088.5	18,614.0 18,609.9 18,634.3	19,545.1 19,537.5 19,117.7	117,964.0 117,962.2 118,824.8	18,845.4 18,838.0 19,764.1	22,928.5 22,917.7 21,434.2	20,511.9 20,509.3 19,818.0	19,988.7 19,986.1 18,869.4	20,261.5 20,254.7 19,870.1	18,569.0 18,565.2 19,264.3	17,766.4 17,764.2 19,050.4	
By geographic regions: Africa do Asia do	6,298.8 48,771.3	9,060.4	765.6	798.7 4,956.2	895.9 5,467.7	880.0 5,078.6	746.3 5,538.0	¹803.5 ¹5,010.9	729.4 4,897.4	1,097.7	998.1 5,466.1	928.6 5,104.0	1,088.4	936.3 5,280.6	974.7 4,837.5	
Australia and Oceania do Europe do Northern North America do	4,318.8 60,025.9 33,096.7	4,875.7	431.6 5,303.2	416.8 5,107.6 3,040.7	589.4 5,965.6 3,078.2	393.6 5,589.1 3,113.2	388.9 5,949.0	¹425.9	413.8 6,069.1 3,239.5	498.6 7,141.1 3,747.1	514.1 6,068.4 3,639.0	555.7 5,795.4 3,691.1	692.7 5,338.0 3,927.8	515.0 5,214.1 2,977.3	559.1 5,019.3 3,103.0	
Northern North America do Southern North America do South America do	14,886.5		1,790.7	1,796.1	2,123.6	1,910.5	2,121.5	1,815.1	1,832.7	2,213.0	2,157.5	2,271.1	2,312.6	2,082.3	1,834.2 1,338.2	

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Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS		1980	 -	1	1980	[1				T	1981		T	ſ	1
m the 1979 edition of BUSINESS STATISTICS	An	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
FO	OREIC	N TR	ADE	OF T	HE U	JNIT	ED S'	FATE	ES—C	ontin	ued	,	,		,	
VALUE OF EXPORTS—Continued			ļ						}]			}		
Exports (mdse.), incl. reexports—Continued By leading countries:				}) ;			}	}			}	
Africa: Egypt mil. \$. Republic of South Africa do	1,432.9 1,413.0	1,873.6 2,463.5	132.2 239.7	163.9 184.6	145.1 241.4	152.9 352.5	134.8 218.3	¹152.7 ¹214.4	164.7 214.3	193.8 271.1	198.0 260.4	193.3 265.3	285.0 250.0		193.8 233.4	
Asia; Australia and Oceania: Australia, including New Guinea do	3,649.5	4,130.7	357.2	354.6	526.4	336.5	332.6	1370.7	355.9	417.0	426.9	424.2	488.6	430.1	477.7	
India do Pakistan do. Malaysia do.	1,167.0 529.1 932.1	1,689.4 642.1 1,336.9	189.0 84.8 110.7	124.0 63.8 86.4	145.2 54.9 146.8	122.1 41.0 117.5	130.6 33.4 116.1	1147.7 141.9 1115.2	28.9	139.9 39.9 137.1	122.9 28.9 197.8	114.6 41.6	126.0 38.6 123.5	165.2 41.3 133.2	129.6 69.5 115.5	
Indonesia do Philippines do Japan do	. 981.5 1,570.1 17,581.0	1,545.1 1,999.1 20,790.0	302.9 164.3 1,751.5	168.5 132.3 1,682.2	139.9 148.5 1,800.1	115.7 148.7 1,793.0	88.6 243.7 1,828.9	1110.7 1140.3 11,741.8		118.0 142.1 2,161.1	108.0 168.7 1,756.1		104.1 144.4 1,786.8	115.1 162.5 1,900.0	99.4 160.6 1,594.2	
Europe: Francedo	5,587.0	7,485.4	537.0	546.2	678.1	584.0	572.6	¹617.5	630.7	847.3	705.8	652.1	550.8	512.8	518.5	
German Democratic Republic (formerly E. Germany)	. 356.0 . 8,477.8	478.6 10,959.8	5.4 807.0	25.0 815.2	18.6 871.8	33.6 896.8	68.7 828.3	¹49.5 ¹839.7	50.1 863.6	33.9 1,025.9	40.0 864.1	25.2 940.0	5.2 808.5	14.6 737.9	9.0 763.7	
Italy	4,361.8 3,607.3 10,634.9	5,511.1 1,512.8	444.3 35.4 907.0	353.3 49.9 927.3	378.8 151.2 1,139.6	423.9 264.7	556.3 272.8 994.6	¹418.2 ¹343.9	460.6 258.4	574.3 199.1 1,240.3	394.5 141.6	473.7 43.1 1,111.2	424.9 80.3 1,088.4	352.0 127.2 1,146.5	444.7 101.3 885.4	
North and South America:	33,095.8		2,648.1	3,040.6	3,078.1	3,113.2	2,997.7	12,736.7	3,239.5	3,747.0	3,639.0	3,691.0	3,927.7	2,977.0		
Latin American republics, total # do Argentina do	26,258.9 1,889.8		3,108.7 211.5	3,141.4 259.0	3,510.6 259.8	3,223.9 271.7	3,580.5 238.9	13,071.0 1276.7	3,251.2 200.4	3,690.3 299.3	3,395.1 212.2	3,533.2 172.4	3,561.7 156.3	3,272.0 135.0	2,933.6 188.7	
Brazil do Chile do	3,441.7 885.5	4,343.5 1,353.5	414.5 122.3	382.8 117.0	359.8 141.4	361.4 136.3	464.8 144.4	1361.0 1135.8	453.3 102.1	348.3 158.6	330.8 115.3	332.1 119.5	347.1 135.9	287.3 122.8	269.8 119.3	
Colombia do Mexico do Venezuela do	1,409.3 9,847.3 3,933.5	1,735.6 15,144.6	154.7 1,271.0 410.2	138.5 1,262.2 417.9	158.2 1,542.4 463.1	128.9 1,407.5 397.6	174.3 1,581.1 409.9	1116.1 11,297.4 1347.7	134.6 1,329.9 474.8	150.3 1,620.0 487.8	144.3 1,603.9 436.8	145.7 1,673.4 482.4	166.5 1,735.8 438.5	157.7 1,513.0 508.7	129.9 1,314.4	
Exports of U.S. merchandise, total § do	178,590.9	216,592.2	17,630.7	17,527.9	19,520.6	18,247.6	19,217.2	¹17,598.0	18,522.0	22,494.1	20,102.3	19,618.1	19,851.9	18,198.6	17,455.8	
Excluding military grant-aid	34,755.4	216,436.0 41,255.9 175,336.3	17,623.0 3,243.6 14,387.0	17,499.8 3,236.2 14,291.7	19,508.6 3,672.9 15,847.7	18,243.5 3,796.4 14,451.2	19,209.6 4,279.4 14,937.8	14,067.2	3,825.8	22,483.3 4,666.9 17,827.2	20,099.7 3,751.4 16,350.9	19,615.5 3,566.8 16,051.3	19,845.1 3,191.2 16,660.7	18,194.8 2,841.8 15,356.8	17,453.6 2,926.4 14,529.4	
By commodity groups and principal commodities:	99.950.0	07.740.7	0.040.0	0 501 0	0.000.4	0.050.0	0.010.4	10.750.0	0.700.0	0.004.1	0.040.5	0.410.1	0.000.7	0.040.01	00410	
Food and live animals #	22,250.9 1,126.9 14,453.8	1,292.6 18,079.0	2,340.0 96.2 1,613.1	2,501.0 103.4 1,657.7	2,689.4 130.6 1,710.0	2,652.9 118.6 1,765.1	2,919.4 125.2 1,929.0	12,752.0 1119.3 11,853.6	2,709.2 123.3 1,830.9	3,004.1 149.4 1,942.3	2,640.5 127.5 1,722.8	2,412.1 150.4 1,561.8	2,330.7 131.2 1,482.7	2,342.3 95.6 1,432.9	2,241.2 110.3 1,477.9	
Beverages and tobacco do Crude materials, inedible, exc. fuels # do	2,336.5 20,756.0	2,663.0 23,790.7	179.8 1,865.0	207.4 1,535.1	249.4 1,776.2	262.7 1,761.3	275.3 2,001.3	¹ 221.7 ¹ 2,044.0	198.3 1,843.5	262.3 2,325.9	219.0 1,823.9	237.5 1,865.0	217.7 1,594.4	194.4 1,244.5	187.3 1,301.0	
Cotton, raw, excl. linters and waste do Soybeans, exc. canned or prepared do Metal ores, concentrates, and scrap do	2,198.4 5,708.0 3,324.5	2,864.2 5,882.9 4,517.6	155.9 434.1 389.6	150.4 313.4 298.1	95.0 493.6 325.1	181.3 626.6 226.3	225.2 635.4 266.5	¹ 299.5 ¹ 614.0 ¹ 275.8	296.4 465.6 274.1	315.0 847.8 234.1	208.6 487.2 283.2	190.0 567.2 246.2	134.1 335.0 258.0	108.6 232.0 186.3	94.7 318.5 179.1	
Mineral fuels, lubricants, etc. # mil. \$ Coal and related products do Petroleum and products do	5,620.5 3,496.0 1,918.2	7,982.3 4,771.7 2,833.4	702.9 480.9 204.6	709.7 430.0 227.7	755.3 502.8 238.1	785.3 458.8 269.4	740.9 417.8 279.7	¹619.5 ¹302.6 ¹278.1	705.3 339.2 323.5	826.2 499.3 296.5	745.5 420.8 285.8	637.7 302.7 307.1	613.8 336.9 220.5	918.6 579.2 297.7	919.0 604.1 243.5	
Oils and fats, animal and vegetable do	1,845.0	1,946.3	161.7	160.5	145.3	131.0	151.0	1123.5	124.7	206.8	145.4	151.8	164.5	129.4	168.1	
Chemicals	17,307.9 16,234.2	20,740.2	1,760.1 1,946.9	1,665.7 1,836.1	1,765.9 1,935.5	1,488.0 1,717.7	1,769.0 1,806.4	11,681.4 11,705.2	1,684.5 1,664.8	2,044.6 2,024.6	1,763.9 1,940.9	1,859.2 1,893.3	1,819.4 1,802.2	1,826.0 1,660.1	1,644.1 1,559.1	
Textiles	3,189.4 2,342.0 1,609.4	3,632.0 3,122.8 2,963.9		307.5 275.5 289.9	328.2 288.4 253.2	314.1 250.1 219.9	321.5 265.3 214.1		288.2 228.9 168.2	366.2 243.4 224.6	343.4 255.0 220.6	329.7 257.9 196.3	320.3 263.3 163.3	277.3 242.3 154.8	299.1 205.1 130.6	
Machinery and transport equipment, total mil. \$	70,407.3	84,552.9	6,730.9	7,018.7	7,934.7	7,372.8	7,531.1	¹6, 4 72.0	7,522.2	9,395.1	8,651.4	8,459.8	8,840.2	7,597.2	7,471.5	
Machinery, total # do do do do do	44,744.5 2,635.5	55,789.7 3,103.6	4,761.9 237.1	4,602.7 242.6	5,130.6 251.4	4,723.7 236.3	4,791.2 268.9	14,592.2 1231.6	4,850.6 264.8	6,047.1 362.6	5,456.1 317.5	5,371.4 342.5	5,614.7 354.1	5,299.0 298.8	4,879.9 249.1	************
Metalworking do Construction, excav. and mining do	1,391.4 1,233.8	1,756.3 1,627.7	155.1 137.1	158.0 146.3	173.6 141.9	163.9 130.3	168.1 122.5	¹178.5 ¹122.7	175.4 135.4	222.5 171.6	188.2 162.6	218.5 179.5	202.1 169.4	182.0 168.8	156.1 134.9	
Electrical do Transport equipment, total do	8,635.0 25,750.4	10,484.5 28,838.8	891.6 1,972.1	829.0 2,426.9	997.3 2,812.5	870.7 2,650.1	869.3 2,742.5	¹ 830.1 ¹ 1,880.5	895.5 2,673.3	1,103.5 3,351.8	985.4 3,196.1	966.2 3,089.1	1,051.6 3,226.4	960.2 2,298.9	942.5 2,592.1	
Motor vehicles and parts do Miscellaneous manufactured articles do	15,076.5	14,589.6 16,343.1	975.8 1,295.7	1,186.7 1,303.5	1,445.9	1,312.0 1,324.0	1,202.0 1,311.5	1,060.4 1,253.9	1,334.5 1,311.1	1,592.5	1,531.5 1,489.2	1,603.8 1,383.3	1,573.4 1,492.0	1,297.3 1,402.2	1,196.4 1,365.2	
Commodities not classified do	9,030.3	8,419.5	640.1	562.1	856.4	747.9	703.8	1723.0	750.9	762.7	680.0	715.9	970.1	880.1		
VALUE OF IMPORTS	206 255 8	240,834.3	18,858.8	19,078.7	20,267.8	19 599 7	21 312 0	199 577 1	91 194 3	21 362 6	99 775 9	21 454 2	22,522.2	20,349.6	22.617.5	
General imports, total	206,255.8	240,834.3	19,235.6		20,267.8	19,422.4	21,173.9	¹ 23,194.3	21,124.3 21,921.7	20,949.3	22,289.2	21,309.9	21,974.7	19,806.7	23,528.3	
By geographic regions: Africa	24,381.6 66,739.3	32,250.9 78,848.0	2,744.5 6,314.1	2,148.9 6,721.5	2,556.4 6,531.5	2,273.1 6,220.5	2,890.1 6,837.3	13,033.3 18,008.2	3,044.5 6,555.1	2,302.0 7,161.0	3,219.5 7,468.4	2,204.6 7,355.7	2,973.6 7,438.7	1,723.0 7,265.8	1,950.9 8,450.6	
Australia and Oceania do Europe do	3,072.0 43,546.7	3,391.9 47,849.7	268.0 3,773.4	215.0 3,808.6	299.3 3,964.3	352.3 3,730.5	323.8 4,074.2	¹ 361.6 ¹ 4,160.7	255.0 4,033.4	187.5 4,506.5	315.8 4,588.1	259.3 4,410.8	305.6 4,516.2	239.7 4,565.1	256.1	
Northern North America do Southern North America do South America do	38,069.1 17,268.0 13,172.3	41,470.9 22,656.9 14,361.6	2,828.1 1,819.4 1,110.9	3,341.7 1,686.4 1,156.2	3,929.9 1,913.9 1,072.1	3,747.7 1,800.9 1,407.5	3,807.3 1,845.9	13,623.4 11,761.7 11,627.4	3,678.1 2,012.4 1,545.6	3,990.0 1,921.3 1,294.0	3,922.2 2,128.6 1,132.3	4,142.3 1,994.4 1,086.8	4,051.5 2,114.8 1,121.6	3,677.8 1,713.8 1,164.4	3,640.9 2,074.0 1,306.6	
By leading countries: Africa:										}		j				
Egypt do	381.0 2,616.2	458.4 3,320.5	41.6 291.9	26.4 203.8	29.5 297.5	12.6 291.8	9.9 275.4	² 59.7 ¹ 234.0	51.5 181.5	50.1 219.8	21.4 197.4	31.0 224.9	54.9 171.3	5.7 215.5	15.5 185.4	
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Unless otherwise stated in footnotes below, data	1979	1980			1980							1981				
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
FC	REIG	N TR	ADE	OF T	HE U	NITI	ED ST	CATE	S—C	ontin	ued					
VALUE OF IMPORTS—Continued																
General imports—Continued					Ì											
By leading countries—Continued Asia; Australia and Oceania: Australia, including New Guinea	2,236.1 1,037.7 120.0 2,145.6 3,620.6 1,490.1 26,248.2	2,562.3 1,097.6 127.6 2,577.0 5,182.5 1,730.3 30,701.3	200.1 77.9 10.4 152.8 255.7 135.4 2,541.3	172.1 103.3 10.3 195.5 429.7 154.1 2,642.0	221.5 78.8 9.5 234.8 415.6 150.5 2,568.9	280.9 96.8 8.9 192.6 346.8 130.9 2,591.8	255.1 72.9 13.0 231.4 574.8 207.9 2,713.7	1306.3 199.5 113.9 1198.6 1552.6 1197.1 13,196.1	187.8 121.0 14.4 206.9 499.5 180.5 2,341.2	143.9 110.8 15.1 164.2 602.9 162.3 3,053.1	194.3 103.8 14.7 182.7 486.2 142.6 3,223.0	195.3 97.0 17.4 191.1 446.9 175.1 3,030.5	223.3 99.1 14.4 164.0 399.5 178.9 3,147.6	161.7 78.2 13.8 192.6 451.0 162.3 3,140.7	190.3 115.9 14.6 153.4 496.0 150.5 3,542.9	
Europe:	4 77077 0	E 047 0	400.0	045.0	457.0	070 1	404.0	1400.0	455.0	405.0	450.77	F01.0	400.0	440.0	F00.1	
France. do German Democratic Republic (formerly E. Germany) mil. \$ Federal Republic of Germany (formerly W. Germany) mil. \$ Italy. do Union of Soviet Socialist Republics. do United Kingdom. do	4,767.8 36.4 10,955.4 4,917.5 873.6 8,027.7	5,247.0 43.9 11,681.2 4,313.1 453.2 9,755.1	428.2 3.9 933.1 386.5 22.9 734.3	345.8 2.8 844.8 297.0 95.3 996.8	457.8 3.9 861.8 284.9 53.3 907.0	378.1 2.6 876.3 332.6 28.8 743.1	494.9 4.2 896.4 414.4 55.9 885.6	1499.6 14.9 1995.8 1391.7 182.9 1854.6	455.8 2.9 758.0 396.7 32.4 869.1	465.3 3.8 970.0 395.6 44.5 1,119.1	456.7 4.1 1,011.0 397.6 19.7 1,103.9	501.9 3.8 971.9 431.6 18.4 989.5	469.9 4.1 918.3 411.8 13.3 1,189.4	440.3 2.5 950.1 433.5 39.0 1,131.7	529.1 5.1 987.8 494.8 14.1 1,505.0	
North and South America: Canada do	38,046.1	41,455.4	2,825.1	3,339.7	3,929.7	3,747.7	3,804.8	¹3,622.0	3,676.4	3,987.7	3,921.6	4,140.9	4,048.8	3,677.2	3,638.7	
Latin American republics, total #	24,767.0 587.1 3,118.2 439.8 1,209.4 8,800.1 5,165.9	29,851.2 740.8 3,714.6 515.0 1,240.5 12,519.5 5,297.1	2,141.0 58.2 300.0 34.3 69.1 1,045.8 407.0	2,261.8 71.0 293.3 50.7 88.8 915.0 420.5	2,419.1 63.5 304.1 40.2 86.1 1,106.6 372.3	2,669.2 105.3 433.3 46.9 92.2 1,031.4 449.0	2,824.2 86.2 333.6 30.9 119.8 1,069.8 696.4	12,801.8 1119.6 1390.2 156.5 197.2 1918.1 1717.7	2,933.5 94.2 382.4 39.6 98.3 1,167.2 612.3	2,636.6 136.5 413.6 50.0 69.4 1,104.9 407.0	2,659.0 56.0 297.1 70.6 63.3 1,245.4 496.5	2,435.3 76.5 337.6 54.3 74.2 1,072.2 324.2	2,562.8 72.8 349.2 34.9 69.8 1,207.7 310.3	2,381.9 70.6 352.1 46.3 38.7 987.5 433.5	2,616.6 83.5 356.4 54.2 49.7 1,122.6 514.8	
By commodity groups and principal	ĺ	ŕ		, i						}			Í			
commodities: Agricultural products, total mil. \$ Nonagricultural products, total do	16,879.5 189,376.3	17,425.0 223,409.2	1,310.9 17,548.0	1,219.3 17,859.3	1,410.6 18,857.2	1,529.9 18,002.8	1,536.0 19,776.0	¹1,613.0 ¹21,007.0	1,714.8 19,471.8	1,506.3 19,826.6	1,417.6 21,326.7	1,552.3 19,891.4	1,306.7 21,182.9	1,184.8 19,132.4	1,394.7 21,276.8	
Food and live animals #	15,169.5 554.9 3,819.7 2,539.3	15,762.7 395.2 3,872.3 2,346.3	1,207.2 23.3 302.3 180.1	1,121.9 20.0 217.1 152.9	1,304.8 19.2 250.7 246.8	1,441.3 21.0 273.3 199.1	1,385.9 43.1 310.8 226.0	11,471.0 129.4 1332.5 1206.9	1,340.9 56.3 290.1 189.7	1,372.9 37.8 243.6 153.6	1,225.0 62.0 205.5 168.9	1,371.2 51.3 232.0 148.0	1,240.9 43.7 165.3 160.4	1,161.6 33.6 143.9 168.9	1,176.1 42.6 187.2 176.0	
Sugar	974.3 2,565.0	1,987.5 2,771.5	187.5 227.6	172.2 261.3	172.4 286.3	334.1 243.6	169.0 217.4	¹ 225.8 ¹ 253.3	177.7 236.0	182.3 244.9	143.9 261.5	197.2 311.7	146.1 231.3	140.9 219.7	117.3 285.5	
Crude materials, inedible, exc. fuels #	10,652.7 3,249.1 1,546.7 231.2 897.1	10,495.9 3,696.1 1,773.4 242.1 816.1	812.4 275.0 150.4 20.9 44.8	837.2 279.8 136.2 11.0 75.6	830.6 302.4 134.3 16.5 42.7	856.4 303.0 144.2 17.5 64.7	871.2 293.2 150.8 19.5 59.2	1885.9 1320.9 1167.9 126.7 140.5	1,029.4 311.5 159.0 33.4 111.1	989.3 278.0 163.4 34.0 71.4	1,038.3 354.1 132.4 32.4 79.6	1,129.7 352.3 181.6 33.0 66.6	1,061.4 404.7 156.3 22.2 60.7	891.9 324.9 145.8 33.2 48.7	873.2 342.9 142.0 29.8 50.2	
Mineral fuels, lubricants, etc do Petroleum and products do	59,997.9 56,035.6	79,057.7 73,770.9	6,235.9 5,867.7	5,830.5 5,460.4	6,231.0 5,846.1	5,879.6 5,446.1	7,218.4 6,766.8	18,014.2 17,388.5	7,943.4 7,344.7	6,475.9 5,992.5	7,835.5 7,368.9	6,078.2 5,651.8	7,255.5 6,853.8	5,692.0 5,264.9	6,880.5 6,436.2	
Oils and fats, animal and vegetable do Chemicals do	739.8 7,478.6	533.4 8,582.7	30.8 616.9	33.0 641.3	64.6 745.9	51.3 650.3	69.0 718.1	¹50.1 ¹735.8	60.0 767.4	46.6 818.1	24.9 825.4	40.5 794.1	32.0 815.9	38.3 707.8	32.8 929.0	
Manufactured goods # do Iron and steel do Newsprint do Nonferrous metals do Textiles do	30,064.1 7,466.5 2,322.1 6,320.1 2,216.3	32,190.4 7,363.6 2,685.2 7,622.7 2,493.3	2,486.1 629.2 201.7 508.2 191.5	2,412.9 520.0 216.0 567.4 194.7	2,629.7 544.8 224.9 688.3 196.1	2,641.9 617.4 216.5 601.7 204.4	2,854.7 737.1 232.5 656.6 209.4	12,910.5 1658.6 1231.2 1623.6 1258.0	2,795.1 677.5 233.4 650.9 226.2	2,807.7 622.8 248.6 576.5 252.0	3,125.0 933.0 236.3 606.6 249.2	3,221.0 968.4 253.7 595.1 242.6	3,179.9 961.9 232.9 612.1 253.0	3,092.3 922.4 229.3 581.0 254.5	3,440.2 1,247.7 209.3 568.2 269.2	
Machinery and transport equipment do Machinery, total # do Metalworking do Electrical do	53,677.3 28,043.5 1,442.4 6,588.0	60,545.7 31,903.6 1,813.7 8,064.1	4,565.7 2,578.0 183.7 647.1	4,952.2 2,621.5 136.8 674.6	5,333.3 2,754.5 150.3 729.6	5,236.2 2,733.8 156.7 668.1	5,335.7 2,874.5 155.1 747.7	15,615.7 12,886.4 1186.6 1702.5	4,694.2 2,611.4 144.0 606.2	5,984.2 3,174.3 152.5 757.1	5,954.3 3,125.4 159.0 711.9	5,853.8 3,112.3 167.7 763.4		5,694.2 3,198.0 167.0 757.0		
Transport equipment do do Automobiles and parts do	25,633.9 22,074.8	28,642.0 24,133.9	1,987.6 1,663.9	2,330.8 2,000.3	2,578.8 2,210.6	2,502.5 2,191.4	2,461.3 2,014.9	¹ 2,729.3 ¹ 2,311.7	2,082.8 1,689.4	2,810.0 2,324.6	2,828.9 2,329.9	2,741.5 2,298.7	2,718.6 2,365.3	2,496.3 2,097.6	2,506.1 2,089.7	
Miscellaneous manufactured articles do	21,006.3	23,711.0	2,143.2		2,104.2	1,983.4	2,017.2	12,012.5	1,779.3	2,054.8	1,911.0	2,047.8		2,324.1	2,492.2	
Commodities not classified do Indexes	4,904.6	7,183.3	533.2	911.1	737.4	548.7	624.4	1628.1	478.6	568.1	574.5	606.3	640.6	527.7	625.0	
Exports (U.S. mdse., excl. military grant-aid): Unit value	121.6	138.1	139.7	140.2	142.7	146.8	147.7	¹149.5	149.0	148.4	150.4	151.1	149.7	152.2	151.0	
Quantity	124.5 151.3	132.9 183.6	128.5 179.4	127.0 178.1	139.2 198.6	126.5 185.7	132.4 195.5	¹119.8 ¹179.1	126.4 188.4	154.2 228.8	136.0 204.6	132.1 199.6	134.9 202.0	121.7 185.2	117.6 177.6	
General imports: Unit value do Quantity do Value do	128.7 110.4 142.1	161.4 102.6 165.5	164.7 94.1 155.1	165.1 95.0 156.9	166.4 100.1 166.7	167.2 96.1 160.8	169.7 99.9 175.4	¹173.1 ¹107.3 ¹185.8	174.3 99.7 173.8	176.1 99.8 175.8	175.9 106.5 187.3	172.5 102.3 176.5	172.4 107.6 185.4	170.0 98.5 167.4	167.8 110.9 186.0	
Shipping Weight and Value Waterborne trade:	}															
Exports (incl. reexports): Shipping weight thous. sh. tons. Value mil. \$	357,793 97,579	401,172 118,835	36,373 10,225	33,668 9,662	36,364 10,642	33,354 9,723	35,590 10,661	¹30,586 ¹10,145	30,016 9,860	36,416 12,046	32,482 10,524	30,656 10,563	29,244 9,754			
General imports: Shipping weight thous. sh. tons Value mil. \$	597,495 140,091	487,936 164,924	38,122 13,328	35,812 12,753	38,068 13,185	35,684 12,784	40,858 14,374	¹42,630 ¹15,920	40,302 14,657	34,240 14,073	41,019 15,909	37,102 14,335	42,874 15,603			

Unless otherwise stated in footnotes below, data	1979	1980			1980							1981		-		
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ıual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
	TR	ANSI	PORT	ATIC)N A	ND C	OMM	UNIC	CATI	ON						-
TRANSPORTATION Air Carriers (Scheduled Service)				:	i											
Certificated route carriers: Passenger-miles (revenue) bil. Passenger-load factor percent. Ton-miles (revenue), total mil.	262.02 63.0 33,390	254.18 59.0 32,487	26.39 66.3 3,236	19.61 55.9 2,540	20.69 57.7 2,629	17.86 55.2 2,379	20.22 57.8 2,590	19.35 54.8 2,437	17.00 54.2 2,214	19.84 56.8 2,591	20.26 58.4 2,603	61.0	22.86 60.8 2,876			
Operating revenues (quarterly) # \$ mil. \$ Passenger revenues do Cargo revenues do Mail revenues do Operating expenses (quarterly) \$ Net income after taxes (quarterly) \$ do	27,227 22,792 2,211 464 227,018 331	² 33,267 ² 22,791 ² 2,427 621 ² 33,462 ² -90		8,926 7,555 590 143 8,657 203			8,388 6,997 637 172 8,372 122			8,367 7,108 577 157 8,536 -217						
Domestic operations: Passenger-miles (revenue) bil Cargo ton-miles mil Mail ton-miles do	1208.89 3,466 853	200.09 3,274 944	20.25 282 75	14.84 273 73	15.80 293 81	14.24 265 76	16.34 248 108	15.75 245 84	14.08 246 78	16.49 286 86	16.42 278 85	17.41 289 81	17.82 292 77	¹16.47	116.18	113.02
Operating revenues (quarterly) §	21,652 21,523 222	26,376 ² 26,383 ² 156		6,853 6,700 105			6,740 6,625 263	••••••		6,964 6,993 –65						
International operations: Passenger-miles (revenue) bil Cargo ton-miles mil Mail ton-miles do	² 53.13 2,498 372	54.09 2,458 392	6.76 210 31	4.77 203 29	4.25 216 33	3.62 215 37	3.88 170 43	3.60 145 28	2.92 162 28	3.36 204 31	3.84 184 31	4.41 194 31	5.04 191 29			
Operating revenues (quarterly) §	5,575 5,505 109	² 6,891 ² 7,079 ² –246		2,073 1,958 94			1,648 1,746 –140			1,403 1,543 -152			***************************************			
Urban Transit Systems Passengers carried, totalmil Motor Carriers	8,130	8,228	656	681	748	663	681	647	644	726	690	676	693	615	625	
Carriers of property, large, class I, qtrly.: Number of reporting carriers	100 15,051 312 215	100 15,538 284 183		100 3,776 83 42			100 4,273 105			100 4,989 77						
Freight carried—volume indexes, class I and II intercity truck tonnage (ATA): Common and contract carriers of property (qtrly.)	155 180.3	147.9		139 146.6	147.4	150.9	153.0	152.7	151.9	150.8	153.2	152.2	r151.9	······································	147.7	
Class I Railroads ‡ Financial operations, qtrly. (AAR), excl. Amtrak:																
Operating revenues, total #	25,352 23,576 382	28,254 26,350 439		6,995 6,521 117			7,514 7,022 118			7,660 7,182 121						
Operating expenses	24,093 858 3840	26,352 1,337 31,131		6,623 222 156			6,807 540 545			6,960 469 636			348			
Traine: Ton-miles of freight (net), total, qtrly	928.7 902.1 243.4	933.1 919.0 285.5	291.5	226.8 222.4 298.5	299.0	299.6	239.4 236.0 300.5	313.8	317.7	236.1 236.6 321.4	321.0	321.4	229.8 222.5 324.3	333.2	333.5	235.4 333.6
Hotels and motor-hotels: Restaurant sales index same month 1967 = 100.	170 45.69 72 32.36 71	182 49.48 65 35.30 66	184 49.40 48 36.92 55	181 52.17 69 34.37 66	203 53.05 77 35.46 70	178 52.65 67 34.80	186 52.56 44 34.94 51	158 56.71 62 35.95 56	176 56.17 68 37.61 64	198 58.11 74 37.42 72	191 57.28 73 38.14 71	200 56.29 73 38.00 70	214 54.90 72 40.15 73			
Foreign travel: U.S. citizens: Arrivals	9,259 9,681 9,886 7,814	29,010 29,971 211,252 29,285	1,042 954 1,313 1,175	704 796 1,000 858	726 710 883 773	610 655 787 718	564 758 910 707	681 700 871 752	587 670 692 552	735 735 819 618	692 792 975 755 335	760 863 993 785	789 988 1,036 789			
Passports issued	3,170 56,922	3,020 59,081	222 10,661	6,195	179 5,250	150 2,875	158 2,167	233 2,017	237 2,092	338 2,622	3,556	317 5,237	363 7,892	323 10,955	272 11,226	₽225
Telephone carriers: Operating revenues # mil. \$ Station revenues Operating expenses (excluding taxes) Operating expenses (excluding taxes) Observating income (after taxes) Operating expenses (excluding taxes) Operating expenses (excluding taxes) Operating expenses (excluding taxes) Operating expenses (excluding taxes) Operating expenses (excluding taxes) Operating expenses Operating expen	50,604 21,967 22,389 33,110 9,084 155.1	56,738 24,333 22,983 37,983 10,194 159.9	4,831 2,030 1,987 3,228 860 158.3	4,825 2,059 1,959 3,305 827 158.8	5,014 2,113 2,059 3,270 950 159.4	4,848 2,097 1,905 3,257 891 159.6	4,970 2,130 2,006 3,397 887 159.9	5,135 2,201 2,071 3,346 975 164.2	5,048 2,236 1,931 3,352 913 164.5	5,307 2,244 2,144 3,498 985 164.7	5,275 2,272 2,102 3,577 888 165.0	5,303 2,288 2,076 3,574 923 164.8	5,503 2,330 2,199 3,620 1,019 164.8			
Telegraph carriers: Domestic: Operating revenues	636.0 519.2	697.1 561.5	57.1 47.8	59.9 48.8	61.7 48.2	56.1 46.5	60.5 49.0	57.9 48.8	58.5 48.2	63.0 49.3	64.0 50.0	61.9 48.6	68.4 54.9			
N'et operating revenues (before taxes)	80.2 491.1 326.2 142.7	95.9 5534.2 5374.4 5137.4	6.4 42.1 30.1 10.1	7.7 44.7 30.1 12.8	9.7 47.3 32.3 12.8	6.2 42.4 31.1 9.2	7.8 46.2 39.6 5.1	5.9 45.2 33.2 9.8	7.1 45.1 32.2 10.8	10.3 50.0 34.0 13.7	10.8 48.0 35.2 10.7	7.3 46.6 36.0 8.5				

Unless otherwise stated in footnotes below, data	1979	1980			1980							1981				
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
		CHE	MICA	LS A	ND A	LLIE	ED PI	RODU	CTS							·
CHEMICALS																
Inorganic Chemicals Production:					ļ											
Aluminum sulfate, commercial (17% Al ₂ O ₂) ‡ thous. sh. tons Chlorine gas (100% Cl ₂) ‡	1,314 12,228 3,090 460	1,182 11,198 2,812 440	105 824 219 33	97 903 240 28	102 938 233 43	85 949 222 39	103 1,011 250 40	92 886 241 36	91 904 209 34	94 932 217 38	102 960 210 38	99 947 210 39	r98 r937 r221 36	114 891 222 34		
Sodium hydroxide (100% NaOH) † do Sodium silicate, anhydrous † do Sodium sulfate, anhydrous † do Sodium tripolyphosphate (100% Na ₃ P ₃ O ₁₀) ‡	12,772 770 1,115	11,324 740 1,258	840 66 106	907 66 101	972 56 109	966 53 100	1,031 55 103	924 51 92	910 58 115	952 69 98	965 70 98	962 55 99	*945 73 *95	890 62 96		
do Titanium dioxide (composite and pure) ‡ do	758 741	719 713	58 57	58 53	61 48	60 56	53 59	55 58	57 60	60 63	61 68	59 70	¹ 66 68	57 61		
Sulfur, native (Frasch) and recovered: Production	¹10,263 4,172	10,201 3,042	834 3,503	802 3,405	842 3,306	843 3,269	888 3,042	890 3,018	818 2,989	869 2,918	838 2,876	878 2,859	875 2,824	915 2,930	911 3,043	
Production: Ammonia, synthetic anhydrous ‡									İ							
thous. sh. tons Ammonium nitrate, original solution ‡	18,523 7,543 2,363 8,465	19,028 8,590 11,469 8,931	1,634 624 161 647	1,475 632 168 672	1,474 698 191 726	1,550 750 (²) 780	1,730 821 (²) 861	1,663 837 (²) 832	¹ 1,535 736 (²) 764	1,733 839 217 875	1,698 778 219 804	1,632 741 188 760	'1,582 '651 181 '695	1,531 673 194 705		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,245 10,317 43,204	3,031 *10,856 44,272	254 914 3,571	232 909 3,605	208 901 3,641	242 916 3,826	269 983 4,029	257 869 3,704	235 873 3,480	284 941 3,829	279 961 3,808	*263 927 3,656	°235 918 °3,560	*249 848 3,416		
$\label{eq:superphosphate} Superphosphate and other phosphatic fertilizers $$(100\% P_2Q_5)$: Production thous. sh. tons. Stocks, end of period do Qo Potash, deliveries $$(K_2Q)$$ $$[$	7,662 366 57,640	8,086 372 6,950	693 483 657	669 515 456	666 431 674	676 481 663	728 372 810	71,673 71,113 371	1,568 1,348 556	1,736 1,424 651	°1,706 1,383 687	1,639 1,350 441	'1,520 '1,426 514	1,424 1,565 513	-806	
Exports, total #	³ 28,043 ³ 3,176 17,919 1,576	42,389 5,752 27,661 2,496	3,125 534 1,657 156	2,580 319 1,560 178	2,487 343 1,595 83	1,853 224 1,130 133	2,486 337 1,408 101	2,261 309 1,362 109	1,803 258 1,125 75	1,864 226 1,225 94	1,859 245 1,184 114	2,015 259 1,175 97	1,949 227 1,076 110	2,184 333 1,143 116	1,659 124 979 103	
Imports:	277 245 9,275 116	247 289 8,907 158	27 14 638 11	12 12 751 0	19 16 836 13	13 26 901 6	17 18 952 10	20 42 681 0	18 13 681 13	31 46 876 25	45 28 806 35	19 46 598 16	16 10 651 12	14 16 623 10	16 29 948 0	
Production: Acetylene ‡	5,741 3,124	5,633 3,544	429 334	483 326	506 298	405 298	504 292	509 304	438 278	451 316	419 334	404 321	r394 r343	390 384		
Hydrogen (high and low purity) †mil. cu. ft Nitrogen (high and low purity)‡mil. cu. ft Oxygen (high and low purity)‡do Organic Chemicals §	99,271 427,151 456,636	95,883 473,322 414,615	6,678 35,649 31,637	7,857 40,552 32,186	7,740 43,459 35,529	8,632 43,483 35,966	9,119 41,900 37,095	7,879 40,146 35,675	8,623 38,322 32,983	7,805 41,248 37,153	7,824 40,052 36,281	7,994 41,797 37,964	7,748 40,396 35,726	7,835 40,586 35,033		
Production: Acetylsalicylic acid (aspirin) mil. lb. Creosote oil mil. gal. Ethyl acetate (85%) mil. lb. Formaldehyde (37% HCHO) do	131.9 1161.6 1262.4 15,971.1		416.0	2.8 14.8 19.8 483.2	3.2 12.3 20.1 524.2	2.7 11.7 22.2 498.6	2.8 14.0 22.0 519.0	3.0 10.4 21.8 452.8	2.6 10.2 20.8 506.8	3.4 10.5 23.1 531.9	3.2 10.4 27.2 576.5	1.9 11.0 22.2 537.0	20.6 504.2	1.8 8.7 24.2 461.2		
Glycerin, refined, all grades do Methanol, synthetic	297.8 11,109.5 11,012.9	314.8 *11,077.3 *1818.2	20.6 80.5 51.0	26.4 81.3 67.5	25.3 69.5 73.5	24.3 84.1 73.7	22.3 106.1 79.2	25.9 109.7 68.6	20.7 99.7 53.0	25.3 97.1 96.0	27.1 114.5 84.7	25.7 100.5 87.1	27.0 108.2 81.4	24.9 112.5 60.6		
Ethyl alcohol and spirits: Production	570.3 53.6	'642.7 72.0	46.4 70.4	57.2 67.1	64.3 57.5	47.7 62.3	53.7 72.0	49.2 78.3	44.3 64.8	49.3 73.6	50.9 69.8	44.0 76.2		***************************************		
Denatured alcohol: Production mil. wine gal Consumption (withdrawals) do Stocks, end of period do	260.7 260.9 4.1	*288.3 *281.6 10.7	21.3 23.1 19.9	22.6 23.2 10.2	21.5 21.4 4.8	16.4 16.4 7.8	21.9 17.9 10.7	23.1 25.6 7.0	18.7 18.2 8.2	17.4 17.7 6.6	19.3 18.5 4.5	18.0 17.5 4.0				
PLASTICS AND RESIN MATERIALS Production:]
Phenolic resins mil. lb. Polyethylene and copolymers do. Polypropylene do Polystyrene and copolymers do. Polyvinyl chloride and copolymers do.	¹ 1,778.6 ¹ 12,408.4 ¹ 3,823.9 ¹ 6,326.9 ¹ 6,211.4	r11,744.9 r111,719.9 r13,699.0 r15,540.1 r15,485.4	109.8 805.0 241.6 397.9 393.3	120.9 906.8 253.3 454.3 458.9	131.9 967.3 259.3 495.8 515.6	126.4 972.4 282.2 464.2 513.0	112.5 1,021.1 286.1 498.2 498.8	156.5 1,070.7 350.2 449.6 444.6	173.8 942.2 318.6 448.5 476.5	237.0 1,116.6 332.4 583.9 554.3	238.5 1 063.3 335.6 501.0 551.0	225.6 1,058.4 357.4 490.2 552.5	192.5 1,001.2 347.3 498.9 552.2	151.8 1,005.5 346.6 468.3 517.4		
MISCELLANEOUS PRODUCTS Explosives (industrial), shipments, quarterly		:														
Paints, varnish, and lacquer, shipments: Total shipments	2,987.1 67,024.8	¹ 3,000.4 7,635.9	689.3	704.0 698.2	706.1	546.4	788.6 520.3	555.1	593.2	741.2 728.1	774.5	770.8	599.7 *851.8	767.6		
Architectural coatings do Product finishes (OEM) do Special purpose coatings do	63,418.7 62,284.0 61,322.0	3,641.2 2,418.5 1,576.2	341.0 199.7 148.6	329.5 221.7 147.0	314.8 233.5 157.9	222.9 202.3 121.2	217.4 193.3 109.7	235.2 208.8 111.1	259.2 213.8 120.2	339.5 249.5 139.1	374.6 248.3 151.6	385.4 240.4 145.0	'426.1 '261.2 '164.5	391.3 224.7 151.2		

October 1901			216 4 15	I OF	COL	TOTAL	DOL)11415K								D-20
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980			1980							1981				
in the 1979 edition of BUSINESS STATISTICS	Anr	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
			ELEC	TRIC	POV	WER	AND	GAS								
ELECTRIC POWER	}													T	Γ	
Production: Electric utilities, totalmil. kwhr By fuelsdodo By waterpowerdo	2,246,934 1,966,802 280,131		215,435 194,959 20,476	172,991	178,541 160,675 17,866	159,335	195,589 173,298 22,290	205,192 182,836 22,355		185,435 164,863 20,572	172,369 151,646 20,723	153,574	202,694 176,325 26,370			
Sales to ultimate customers, total (Edison Electric Institute) †mil. kwhr	2,079,221	2,095,333		188,204	171,198		174,903	187,047	180,663	172,296	164,971	162,656	174,208			
Small light and power §	493,494 815,586 4,245	509,547 791,241 4,292	48,872 65,597 356	47,405 67,583 349	42,476 66,978 356	40,363 65,657 351	41,871 66,324 381	43,944 65,189 379	42,615 65,632 365	41,114 66,251 367	39,710 66,000 339	40,392 66,040 331	44,501 67,497 335		1	
Residential or domestic	694,266 14,755 49,481	720,784 14,566 48,426	72,190 1,163 4,185	66,866 1,203 4,249	55,528 1,266 4,031	53,194 1,307 3,835	60,270 1,353 4,147	71,063 1,418 4,466	65,789 1,345 4,340	58,402 1,317 4,242	53,024 1,152 4,175	49,978 1,206 4,125	55,789 1,172 4,332			
Interdepartmental do Revenue from sales to ultimate customers (Edison Electric Institute) GAS	7,394 77,691.5	6,477 91,618.7	573 9,029.8	550 8,745.4	564 7,831.2	7,448.8	557 7,910.2	589 8,586.6	578 8,324.3	8,061.0	7,653.8	584 7,987.2	581 8,948.2			
GAS Total utility gas, quarterly (American Gas Association): Customers, end of period, totalthous	46,708	47,424		46,886			47,424									
Residential do. Commercial do. Industrial do. Other do.	43,027 3,446 189 45	43,697 3,493 189 45		42,238 3,414 189 44			43,697 3,493 189 45									
Sales to customers, total tril. Btu	15,440	15,331		2,610			3,980									
Residential do Commercial do Industrial do Other do	5,083 2,486 7,555 316	4,870 2,398 7,782 280		401 271 1,894 44			1,298 658 1,941 83									
Revenue from sales to customers, total mil. \$	38,947	47,231		8,289			13,101									
Residential do Commercial do Industrial do Other do	14,833 6,624 16,961 530	17,188 7,914 21,551 578		1,748 970 5,482 90			4,874 2,308 5,730 190									
	FO	OD A	ND K	INDE	RED I	PROI	OUCT	S; TO	BAC	co						
ALCOHOLIC BEVERAGES								<u> </u>				}				
Beer: Productionmil. bbl Taxable withdrawals	184.19 168.12 13.29	r191.84 171.81 13.96	17.02 15.35 14.45	16.29 14.51 15.01	14.95 13.53 14.18	13.02 12.51 13.94	13.32 12.38 13.96	13.31 12.08 13.98	14.58 12.41 14.95	16.72 15.01 15.12	17.68 15.47 15.26	18.87 17.00 15.78	18.63 17.29 15.24	18.80 17.37 14.98		
Distilled spirits (total): Production	186.68	140.53	7.14	8.97	14.17	12.70	14.96	14.42	14.30	16.68	14.75	12.73	15.24	14.96		
purposes †	1447.52 645.67 123.65	² 449.93 578.02 113.71	34.48 633.44 7.83	34.68 625.89 11.35	38.25 617.26 14.66	42.53 626.84 11.57	54.40 578.02 9.55	32.97 615.58 8.84	30.88 625.77 8.72	35.68 571.04 10.04	37.03 633.18 9.03	34.42 623.93 10.21	37.72 7.67	8.56	8.33	
Whisky: Production‡ mil. tax gal. Stocks, end of period ‡ do Imports mil. proof gal.	101.26 581.16 95.40	84.31 512.02 86.00	4.45 572.26 5.80	5.10 565.61 9.04	6.75 559.61 11.35	6.15 556.03 9.09	7.58 512.02 7.06	7.38 553.51 6.51	8.13 553.47 5.06	12.42 497.91 7.64	10.64 558.33 6.88	8.44 558.77 7.56	5.30	6.52	5.83	
Wines and distilling materials: Effervescent wines: Productionmil. wine gal Taxable withdrawalsml	23.48 22.40	26.19 25.22	2.65 2.07	1.92 1.75	3.61 4.07	2.42 3.52	3.11 2.94	1.87	2.42 1.03	2.85 1.63	2.42 1.73	2.36 1.98	3.05 2.42			
Stocks, end of period do Imports do Still wines:	10.03 4.53	9.26 4.83	9.83 0.35	12.25 0.44	11.68 0.50	10.55 0.66	9.26 0.66	1.27 10.90 0.85	11.86 0.35	13.20 0.38	13.97 0.55	14.47 0.64	11.92 0.45	0.55	0.52	
Production ‡ do Taxable withdrawals ‡ do Stocks, end of period ‡ do Imports. do	434.01 328.48 558.43 87.63	r504.05 r347.00 610.29 97.68	20.23 27.26 341.12 8.06	164.44 23.16 485.38 9.14	201.68 38.27 643.49 8.76	57.56 29.14 627.03 9.23	23.47 30.48 610.29 9.03	7.86 30.34 556.62 8.91	5.04 25.14 548.25 7.52	5.87 32.31 526.79 7.44	5.43 29.13 494.01 7.70	5.62 29.03 466.63 9.34	4.45 31.20 428.05 7.97	8.58	9.51	
Distilling materials produced at wineries do DAIRY PRODUCTS	254.36	204.38	10.22	37.10	90.62	31.48	10.29	5.51	3.52	2.81	2.94	5.96	5.24			•••••
Butter, creamery: mil. lb Production (factory) @	984.6 177.8 1.272	1,145.3 304.6 1.448	75.3 306.4 1.515	77.0 302.9 1.517	91.4 301.5 1.526	84.7 302.7 1.536	103.6 304.6 1.539	121.3 332.1 1.534	110.1 372.3 1.537	116.7 407.4 1.535	116.9 450.4	116.2 473.6	96.6 507.5	84.1 515.5	85.0 515.7	
Cheese: Production (factory), total @mil. lb American, whole milk @do Stocks cold storage and of period	3,717.2 2,189.9	3,983.1 2,374.6	317.6 192.9	317.0 179.8	332.1 186.6	317.2 176.7	354.4 204.8	342.8 212.2	316.5 198.1	365.4 224.5	371.2 237.5 631.9	386.9 253.5	385.9 243.6 685.7	347.1 217.9	202.8	
Stocks, cold storage, end of period	512.1 406.5 248.3	578.8 479.6 231.2	613.8 501.2 17.5	610.6 498.2 24.9	590.9 484.4 29.3	565.4 462.3 30.9	578.8 479.6 44.4 1.641	601.7 504.7 10.3	596.3 508.6 11.6	591.1 501.4 15.3 1.669	539.4 19.5 1.670	649.8 555.6 13.7	685.7 585.0 16.8	714.2 615.7 18.6	715.7 613.4 16.9	1.678
See footnotes at end of tables.	1.4141	1.0021	1.0101	1.0101	1.000.1	1.0411	1.041	1.0401	1.0401	1.0031	1.0101	1.0101	1.0131	1.0101	1.0101	1.010

Unless otherwise stated in footnotes below, data hrough 1978 and descriptive notes are as shown	1979	1980	<u> </u>		1980					·—·—	r	1981				
n the 1979 edition of BUSINESS STATISTICS	Ann	ıual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep
FO	OD A	ND KI	NDR	ED P	ROD	UCTS	s; TO	BACC	20—0	ontir	nued					
DAIRY PRODUCTS—Continued																
Condensed and evaporated milk: Production, case goods @	796.1 76.7	724.7 51.8	57.3 131.7	55.9 119.6	51.5 93.4	50.3 75.6	60.7 51.8	55.7 41.7	54.7 36.9	60.4 39.5	65.0 53.0	65.2 66.3	69.2 77.0	67.8 81.6	68.0 99.1	
Exportsdo luid milk: Production on farms ‡do Utilization in mfd. dairy products @	123,411 66,041 12.00	43.4 128,425 71,689 13.00	3.1 10,782 5,752 12.80	4.2 10,364 5,522 13.20	4.0 10,455 5,731 13.70	3.6 10,076 5,235 14.00	5.0 10,491 5,997 14.10	2.8 10,739 6,212 14.10	3.4 10,093 5,903 14.00	2.9 11,426 6,718 13.80	2.1 11,544 6,863 13.60	2.8 12,064 7,052 13.50	3.2 11,628 6,830 13.40	2.7 11,320 6,456 13.40	2.4 11,065 6,179 13.40	
ry milk: Production: Dry whole milk @mil. lb Nonfat dry milk (human food)@mid. do	85.3 908.7	82.7 1,160.7	6.3 104.0	6.4 77.3	8.0 72.8	7.4 69.1	6.9 89.6	6.8 92.0	6.0 95.3	6.8 110.0	8.0 122.9	8.5 135.3	6.4 132.6	7.0 120.0	7.6 114.8	
Stocks, manufacturers', end of period: Dry whole milk	4.3 92.6	5.3 85.0	4.5 109.5	3.0 76.2	3.4 75.3	5.0 69.5	5.3 85.0	6.6 80.6	4.8 92.8	3.9 96.9	4.0 102.0	4.0 116.5	3.6 116.3	3.3 99.1	2.9 104.5	
Exports, whole and nonfat (human food) do Price, manufacturers' average selling, nonfat dry milk (human food)	73.3 0.800	176.2 0.887	10.6 0.892	28.1 0.897	26.5 0.922	14.7 0.936	17.5 0.939	16.9 0.938	7.2 0.936	11.4 0.937	14.6 0.939	24.2 0.939	31.4 0.939	26.3 0.938	30.9 0.938	
xports (barley, corn, oats, rye, wheat) mil. bu	3,640.3	3,914.4	363.2	350.5	368.1	366.4	382.9	348.0	341.8	361.9	326.1	289.8	289.9	295.7	301.2	
	² 382.8 365.6 246.4 119.2	² 358.5 301.9 184.1 117.8		390.8 248.0 142.7			301.9 184.1 117.8			202.1 112.2 90.0		*136.7 *73.6 *63.0			⁷ 476.0	
Exports, including malt \$	34.5 2.67 2.61	68.9 (*) (*)	9.3	6.7	5.6	6.8	9.1	6.4	11.5	4.8	3.5	0.1	1.5	6.7	12.4	
orn: Production (crop estimate, grain only) ¶ mil. bu Stocks (domestic), end of period, total ‡	² 7,938.8 6,886.2 5,041.7 1,844.5	² 6,647.5 5,857.4 4,140.1 1,717.3		*1,617.5 *920.9 *696.6			5,857.4 4,140.1 1,717.3			3,997.4 2,651.7 1,345.6		32,774.0 31,818.3 3955.7			⁷ 7,940.4	
Exports, including meal and flour	2,333.5	2,485.3		202.6	240.9	245.0	238.6	208.3	199.8	222.2	185.3	207.6	157.7	147.2	139.2	
ats: Production (crop estimate)	² 526.6 476.8 400.8	² 457.6 390.5 328.9		484.1 394.8			390.5 328.9			255.8 211.4		1176.5 1148.7			7509.5	
Off farms	76.0 4.8 1.57	61.7 9.1 (°)	1.3	89.3 1.0	1.7	0.5	61.7 0.9	0.7	1.5	0.8	2.5	⁴ 27.8 1.9	0.6	1.4	0.8	
ice: Production (crop estimate)mil. bags # California mills: Receipts, domestic, roughmil. lb. Shipments from mills, milled ricedo Stocks, rough and cleaned (cleaned basis), end	2131.9 2,721 1,800	² 145.1 3,582 2,711	237 113	195 258	476 132	368 238	342 339	354 216	253 271	333 268	351 303	317 346	218 186	168 67	7178.6 219 238	
of period	9,247 6,019	10,831 6,795	162 829 498	2,439 568	255 2,170 687	301 1,077 583	231 1,358 761	283 436 590	224 830 635	226 749 852	203 274 660	120 142 492	107 85 499	174 182 389	114 1,503 511	(
basis), end of period	2,503 4,978 0.173	2,969 6,620 0.225	912 419 0.205	1,938 577 0.205	2,664 409 0.210	2,813 474 0.245	2,969 730 0.265	2,686 533 0.270	2,604 613 0.270	2,342 809 0.275	1,853 688 0.275	1,456 794 0.280	1,008 497 0.280	772 371 0.280	1,232 453 0.265	
ye: Production (crop estimate) ¶	² 22.4 17.7 2.51	² 16.3 9.3 (⁶)		18.4			9.3			6.8		44.1			717.1	
heat: Production (crop estimate), total	² 2,134 ² 533 ² 1,601 2,051	² 2,370 ² 478 ² 1,891 2,185		1800			569			575			1339		⁷ 2,750 ⁷ 691 ⁷ 2,059	
Stocks (domestic), end of period, total \$\frac{1}{2}\$	1,716.2 773.9 942.2	1,903.8 754.1 1,149.7	ı	2,471.9 975.3 1,496.6			1,903.8 754.1 1,149.7			1,329.2 539.4 789.8		4990.8 4413.8 4577.1				
Exports, total, including flour	1,265.1 1,222.5	1,344.5 1,309.5	144.6 139.6	139.3 136.0	118.6 116.2	113.4 112.2	133.4 131.9	132.2 129.9	128.8 124.4	134.0 128.8	134.5 127.7	80.0 76.0	130.0 124.5	140.4 138.1	148.7 145.4	
Prices, wholesale: No. 1, dark northern spring (Minneapolis) \$ per bu No. 2 hd. and dk. hd. winter (Kans. City) do Weighted avg., selected markets, all grades \$ per bu	4.08 4.03 3.73	}														

													===			
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in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
FO	OD A	ND KI	NDR	ED P	ROD	UCTS	; TO	BACC	20-0	ontir	nued					
GRAIN AND GRAIN PRODUCTS—Continued								-								
Wheat flour: Production: Flour ‡	284,051 4,945 636,375	282,655 4,866 628,599	24,025 424 52,980	24,813 430 54,762	26,285 453 58,392	24,420 392 54,582	25,232 415 56,920	25,860 421 57,513	22,787 399 51,084	24,959 435 55,310	23,967 424 53,402	23,421 420 52,184	23,521 416 52,643	'23,342 '410 '51,194	23,810 432 53,905	
Exportsdo Prices, wholesale: Spring, standard patent (Minneapolis)	3,975 18,291	3,842 15,014	2,137	3,716 1,396	1,034	522	3,842 609	980	1,896	3,897 2,241	2,932	1,724	3,895 2,350	987	1,420	
\$ per 100 lb Winter, hard, 95% patent (Kans. City) do POULTRY AND EGGS	9.508 9.268	¹10.566 ¹10.116	10.963 10.113	10.975 10.475	11.113 10.600	11.138 10.675		11.050 10.663	11.113 10.400	10.975 10.275	11.100 10.525	11.075 10.313	11.125 10.525	10.813 10.275	10.750 10.300	
Poultry: Slaughter (commercial production)mil. lb. Stocks, cold storage (frozen), end of period, total mil. lb.	13,820 387	14,048 339	1,170 548	1,215 556	1,319 579	1,070 403	1,150 339	1,171 359	1,027 354	1,203 373	1,236 394	1,258 420	1,320 506	1,336 596	1,306 660	
Turkeysdo Price, in Georgia producing area, live broilers \$ per lb	240 0.260	198 0.270	384 0.320	399 0.325	420 0.305	258 0.285	198 0.295	208 0.285	0.290	0.285	229 0.255	256 0.260	327 0.265	401 0.290	470 0.280	0.255
Eggs: Production on farms mil. cases § Stocks, cold storage, end of period: Shell thous. cases §	192.3 38	193.6 31	16.0 28 31	15.9 39	16.5 15	16.1 19	16.8 31	16.6 22	15.0 19	16.6 32	15.9 32	16.2 25	15.5 41	15.9 41	16.0 21	
Frozen	0.662	24 0.628	0.659	30 0.688	29 0.643	25 0.757	24 0.773	25 0.714	24 0.672	0.629	0.697	23 0.622	0.629	27 0.675	27 0.687	
Cattle and calves: Slaughter (federally inspected): Calves	2,499 31,504	2,294 31,642	182 2,684	198 2,739	228 3,002	185 2,507	214 2,725	215 2,803	190 2,483	213 2,726	190 2,625	158 2,593	175 2,769	203 2,760	197 2,768	
Prices, wholesale: Beef steers (Omaha)	67.75 77.60 91.41	66.96 175.13 175.52	72.31 71.92 79.12	69.68 71.53 85.00	67.18 r75.00 83.40	65.05 70.23 76.47	64.29 70.04 77.17	63.08 68.56 77.38	61.50 68.41 78.00	61.40 65.47 80.88	64.92 66.28 83.90	66.86 63.10 84.25	68.26 63.51 82.38	67.86 61.51 76.00	66.37 64.15 77.25	65.37 64.58 77.50
Hogs: Slaughter (federally inspected) thous. animals Prices: Wholesale, average, all weights (Sioux City)	85,425	91,882	6,745	7,601	8,404	7,362	7,788	7,768	6,873	7,988	7,993	7,004	6,682	6,539	6,580	
\$ per 100 lb Hog-corn price ratio (bu. of corn equal in value to 100 lb. live hog)	42.13 18.3	39.48 14.4	48.49 15.8	47.42 15.3	48.36 15.8	46.44 14.7	45.07 13.8	41.67 12.8	42.78 12.8	39.88	40.15 12.0	41.96 12.6	48.78 15.0	51.01 15.7	51.14 17.1	48.89 19.5
Sheep and lambs: Slaughter (federally inspected) thous. animals Price, wholesale, lambs, average (Omaha) \$ per 100 lb MEATS	4,833 66.58	5,363 r59.81	427 r66.98	466 ⁷ 64.88	510 r61.77	415 55.67	468 ¹ 53.13	488 46.50	426 54.50	488 55.25	512 59.25	425 65.00	440 66.25	439 59.00	467 53.75	50.25
Total meats (excluding lard): Production, total mil. lb Stocks, cold storage, end of period do Exports (meat and meat preparations) do Imports (meat and meat preparations) do	37,225 706 1,378 2,178	38,590 750 1,663 2,052	3,016 514 129 170	3,221 510 136 133	3,577 584 165 209	3,097 679 144 167	3,349 750 154 191	3,416 792 143 171	3,011 783 141 167	3,383 776 169 131	3,296 817 248 155	3,069 795 189 140	3,113 717 180 153	3,038 628 128 162	3,041 535 144 168	
Beef and veal: Production, total do Stocks, cold storage, end of period do Exports do Imports do	21,671 361 366 1,712	21,849 338 425 1,531	1,804 235 40 125	1,860 226 35 95	2,064 250 39 163	1,733 286 27 122	1,892 338 33 143	1,971 371 34 128	1,751 356 38 128	1,931 351 54 87	1,843 349 140 110	1,791 338 34 95	1,888 306 46 108	1,852 280 30 116	1,858 250 39 119	
Price, wholesale, beef, fresh, steer carcasses, choice (600-700 lbs.) (Central U.S.) \$ per lb Lamb and mutton:	1.011	1.044	1.120	1.080	1.055	1.014	1.006	0.998	0.961	0.943	0.997	1.033	1.065	1.072	1.039	1.030
Production, total	284 11	310 9	23 9	26 8	29 8	24 10	28 9	30 9	26 8	29 8	29 10	24 10	24 12	24 13		
Production, total mil. lb. Stocks, cold storage, end of period do Exports do Imports do	15,270 281 330 361	16,431 349 314 433	1,189 217 19 39	1,335 222 18 31	1,485 269 28 40	1,339 321 29 37	1,428 349 28 39	1,416 351 27 37	1,234 356 32 33	1,423 361 37 37	1,424 404 31 36	1,254 394 39 39 37	1,201 347 34 39	1,162 283 19 39	1,158 223 19 42	
Prices, wholesale: Hams, smoked #Index, 1967=100. Fresh loins, 8-14 lb. average (N.Y.) \$ per lb MISCELLANEOUS FOOD PRODUCTS	252.6 1.076	³ 254.8 1.011	266.9 1.116	274.8 1.114	286.1 1.136	294.2 1.100	288.8 1.094	249.4 1.156	246.9 1.146	245.9 1.105	252.4 1.035	243.0 1.124	253.4 1.191	278.9 1.261	282.2 1.212	1.185
Cocoa (cacao) beans: Imports (incl. shells)thous. lg. tons Price, wholesale, Accra (New York) \$ per lb	165.2 21.604	148.5 1.354	9.6 1.200	8.2 1.220	9.6 1.190	9.4 1.200	19.9 1.080	13.5 1.095	27.8 1.100	19.2 1.120	30.4 1.150	27.1 1.040	24.1 0.890	19.3 1.085	22.0 1.120	
Coffee (green): Inventories (roasters', importers', dealers'), end of periodthous. bags ¶ Roastings (green weight)dodo	2,521 17,005	2,834 17,047		2,956 3,859			2,834 4,868			2,849 4,742			2,590 3,962			
Imports, total	19,396 1,890 1,763 4,281	18,153 3,505 2.066 4,649	1,386 336 2.060 375	1,062 208 2.060 498	1,292 346 2.100 505	1,486 352 2.100 430	1,715 341 2.080 403	1,858 473 2.180 '398	1,738 259 2.180 436	1,395 364 2.180 438	1,299 138 2.180 *376	1,356 283 1.290 r303	1,026 166 1.155 1322	922 213 1.155 307	1,213 172 1.270	
Fish: Stocks, cold storage, end of periodmil. lb See footnotes at end of tables.	471	393	380	379	391	408	393	388	344	330	295	294	331	356	369	

Unless otherwise stated in footnotes below, data		1980			1980			İ				1981				_
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS		ıual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	FOOD	AND	KINI	ORED	PRO	DUC	TS; 7	гова	.CCO-	-Con	ıt.			•		
MISCELLANEOUS FOOD PRODUCTS—Cont.																
Sugar (United States): Deliveries and supply (raw basis): § Production and receipts: Production	4,733	³4,713	60	96	592	928	1,127	758	487	232	153	201	138	82		
Deliveries, total do For domestic consumption do Stocks, raw and ref., end of period do	10,788 10,714 3,503	³10,838 10,149 2,970	975 900 1,866	955 906 1,548	899 831 1,679	744 704 2,345	998 815 2,970	754 697 3,330	743 675 3,472	1,004 836 3,195	878 785 2,807	943 815 2,755	1,031 914 2,285	997 877 1,928	P1,495	
Exports, raw and refinedsh. tons	14,924	608,029	87,919	40,495	81,229	20,650	123,950	26,370	55,765	134,737	80,412	83,266		88,501	122,452	
Imports, raw and refined thous. sh. tons Prices, wholesale (New York):	4,810	4,127	349	314	310	510	272	387	289	313	255	398	312	347	313	
Raw	10.164 0.228	0.306 0.405	0.351 0.442	0.372 0.413	0.427 0.560	0.409 0.550	0.291 0.403	0.303 0.432	0.266 0.383	0.231 0.344	0.200 0.315	0.163 0.266	0.191 0.295	0.198 0.285	0.185 0.295	
Tea, importsthous. lb FATS, OILS, AND RELATED PRODUCTS	174,690	184,786	11,883	11,870	14,271	12,126	15,936	12,891	18,354	14,696	19,220	18,990	17,736	14,586	19,128	
Baking or frying fats (incl. shortening): Production	4,206.4 131.9	4,177.8 130.7	348.1 114.5	347.0 125.5	379.6 102.8	348.9 111.9	367.6 130.7	331.4 125.2	325.2 122.0	354.5 118.9	347.3 126.8	345.9 129.0	356.8 117.4	'336.0 '114.9	327.4 132.1	
Salad or cooking oils: Production do Stocks, end of period @ do	5,075.6 141.2	5,167.2 122.5	481.1 157.9	452.8 137.5	414.5 131.8	394.4 142.7	411.2 122.5	404.1 137.9	409.5 131.6	474.5 127.6	438.2 129.2	459.3 137.9	473.9 117.0	'480.6 '112.5	496.0 114.2	
Margarine: Production	2,553.2 80.5	2,592.8 74.2	186.9 60.7	213.2 66.1	221.9 80.0	218.4 71.4	264.6 74.2	235.5 62.2	214.4 68.3	231.6 76.8	196.3 66.1	182.1 74.2	214.3 87.0	'184.7 79.8	193.1 87.1	
Price, wholesale (colored; mfr. to wholesaler or large retailer; delivered) \$ per lb	0.549	0.603	0.637	0.637	0.624	0.624	0.624	0.637	0.637	0.637	0.637	0.637	0.637	0.637	0.637	
Animal and fish fats: Tallow, edible: Production (quantities rendered)mil. lb Consumption in end productsdo Stocks, end of period ¶do	904.8 765.7 56.6	1,042.7 714.9 55.9	87.9 51.1 52.2	91.9 61.7 46.0	99.6 65.4 47.0	87.8 57.3 50.8	96.0 62.9 55.9	97.1 62.4 68.1	87.4 64.0 53.8	100.4 69.9 51.1	91.2 66.9 47.5	90.5 63.1 39.8	93.7 64.5 40.6	*89.8 *67.5 *37.8	92.0 58.5 36.4	
Tallow and grease (except wool), inedible: Production (quantities rendered)	5,836.3 3,083.4 390.4	6,284.0 2,922.2 413.0	472.7 229.5 402.8	500.3 240.3 430.5	558.1 264.7 439.5	491.7 230.1 412.1	541.8 233.5 413.0	533,3 254,5 436.0	480.6 241.0 436.9	517.5 253.1 443.6	514.3 256.3 449.2	479.3 261.9 437.5	498.7 249.1 431.9	r502.1 r255.7 r419.0	474.3 233.5 424.0	
Vegetable oils and related products: Coconut oil: Production, refinedmil. lb Consumption in end productsdo	595.6 748.4	644.7 693.5	52.4 51.0	57.2 62.5	71.6 66.9	63.0 63.1	62.5 58.3	65.5 67.7	66.0 65.0	61.8 71.1	53.5 68.3	63.7 64.0	58.1 70.4	*57.0 *58.0	58.4 70.5	
Stocks, refined, end of period \(\) do do do	40.1 979.8	49.6 889.3	47.6 67.7	35.0 56.5	36.5 126.7	36.6 90.9	49.6 116.0	47.4 110.1	50.6 139.2	44.7 79.1	33.9 39.8	39.4 90.5	38.0 81.2	r40.1 107.8	45.4 55.9	
Corn oil: Production: Crude	743.5 589.4	810.6 638.2	69.9 51.2	76.2 56.3	80.6 63.9	68.0 64.3	59.0 59.7	65.8 61.9	63.6 65.6	76.2 61.2	69.6 59.7	74.3 64.4	76.1 63.2	76.2 57.7	76.2 59.5	
Consumption in end products do Stocks, crude and ref., end of period \[\] do	555.0 65.2	595.3 76.3	44.7 62.3	52.8 65.8	52.8 72.1	52.3 79.3	61.5 76.3	56.9 72.4	52.1 80.3	56.6 77.0	43.3 82.0	50.3 71.4	52.5 72.6	48.0 68.5	45.6 78.1	
Cottonseed oil: Production: Crude	1,260.5 1,140.8	1,447.1 1,370.2	104.9 107.5	93.1 94.8	116.4 94.1	130.5 119.8	122.3 125.1	131.7 131.3	118.9 99.6	115.4 102.1	100.8 113.0	88.7 82.9	77.4 79.1	69.6 73.7	57.7 53.9	
Consumption in end products do Stocks, crude and ref., end of period ¶ do	618.2 144.3	698.3 170.1	65.5 139.8	55.6 121.9	57.5 122.6	51.8 152.9	49.5 170.1	38.0 183.6	44.5 200.1	47.1 202.4	44.2 165.9	50.6 160.2		r39.0 r113.1	37.3 110.5	
Exports (crude and refined) do Price, wholesale (N.Y.) \$ per lb	633.0 0.369	785.4 0.261	77.6 0.273	89.3 0.263	53.7 0.248	66.6 0.330	47.1 0.338	77.0 0.334	29.3 0.320	66.7 0.335	$82.1 \\ 0.354$	72.2 0.350	85.7 0.365	46.9 0.380	35.9 0.355	
Soybean oil: Production: Crude mil. lb Production: Refined do	11,504.1 9,110.1	12,097.2 8,982.2	913.8 760.7	890.1 764.5	1,080.2 784.1	1,077.6 760.5	1,024.3 763.1	1,010.6 741.6	887.8 706.3	991.3 833.9	954.2 741.2	914.9 754.9	830.7 812.9	^r 815.8 ^r 765.4	826.5 813.7	
Consumption in end products do Stocks, crude and ref., end of period \(\preceq \) do	8,656.4 1,030.1	8,585.2 1,737.8	754.5 1,263.0	737.1 1,210.1	719.1 1,373.9	682.6 1,677.3	738.8 1,737.8	698.7 1,900.1	680.8 1,976.3	775.1 2,016.7	$\begin{array}{c} 722.3 \\ 2,118.5 \end{array}$	728.7 2,166.3	774.1 2,138.6	^r 763.1 ^r 2,024.4	775.6 1,769.9	
Exports (crude and refined)	2,370.6 0.327	2,314.6 0.289	175.7 0.318	171.2 0.320	112.5 0.302	84.7 0.309	120.5 0.286	116.0 0.282	113.8 0.265	202.8 0.281	76.1 0.285	109.6 0.265	108.8 0.268	93.1 0.292	291.7 0.266	
Leaf: Production (crop estimate)mil. lb Stocks, dealers' and manufacturers',	²1,527	²1,783													11,975	
end of period ‡	4,974 561,756 377,203	4,850 591,518 365,622	28,328 25,073	4,548 32,323 27,144	47,610 32,793	64,420 26,059	4,850 66,563 22,342	44,809 33,973	32,831 44,274	4,624 53,728 31,753	49,414 24,274	44,571 28,796	40,142 22,347	31,277 22,171	27,398 32,153	
Manufactured: Consumption (withdrawals): Cigarettes (small):									:							
Tax-exempt millions Taxable do Cigars (large), taxable do Exports, cigarettes do	93,150 613,830 3,356 79,717	94,256 620,565 3,290 81,998	6,809 52,145 275 6,290	8,554 54,839 335 7,770	9,630 62,133 335 8,171	6,833 49,248 251 6,116	8,204 43,762 238 6,781	9,868 53,048 258 6,958	9,248 51,474 211 8,289	7,592 54,224 291 8,534	6,891 53,670 257 6,046	6,341 50,678 274 6,621	8,031 56,519 336 6,214	6,766 51,064 242 6,231	6,468	

October 1981		St	JRVE	Y OF	COR	REN'	I. BOS	SINES	55							S-2
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980			1980							1981				
in the 1979 edition of BUSINESS STATISTICS	Ann	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
			LEA	THE	R AN	D PR	ODU	CTS								
HIDES AND SKINS																
Exports: Value, total #	991,707 2,321 23,731	693,678 2,495 19,568	52,134 281 1,703	48,820 325 1,510	53,048 138 1,608	50,461 137 1,542	58,493 202 1,711	57,458 242 1,536	64,390 264 1,749	64,187 263 1,737	56,901 227 1,565	58,209 278 1,545	55,976 264 1,560	184	51,763 216 1,496	
Imports: Value, total #	138,800 15,529 2,444	88,200 9,027 519	6,400 666 0	5,100 286 29	6,500 492 8	5,400 330 6	6,800 248 10	7,600 546 67	8,200 1,289 34	7,300 926 68	8,700 1,341 132	8,400 1,484 59	10,100 1,381 79	8,900 1,446 117	11,200 1,694 45	
Price, producer: Calfskins, packer, heavy, 9 1/2-15 lb \$ per lb Hides, native steer heavy index, 1967 = 100. LEATHER	1.687 614.4	1.098 385.9	1.100 448.0	1.100 361.4	1.100 412.9	1.100 455.9	1.100 420.6	375.1	344.1	356.1	405.8	.8	367.4	351.7	373.2	
Exports: Upper and lining leatherthous. sq. ft	187,665	192,597	15,215	15,818	19,051	20,880	13,641	19,633	14,418	19,717	17,678	18,016	18,692	13,921	10,918	
Price, producer: Sole, bends, lightindex, 1967=100 LEATHER MANUFACTURES	329.6	283.8	312.8	284.0	249.5	268.9	283.2	317.1	302.7	308.5	317.1	318.5	298.4			
Footwear: Production, total	398,872 305,564 72,779 20,529 3,651 7,581	396,851 299,131 73,337 24,383 3,271 9,781	31,642 23,720 5,713 2,209 245 893	33,488 24,984 6,263 2,241 297 875	37,159 28,032 6,857 2,270 305 952	30,382 22,817 5,456 2,109 297 908	29,514 23,139 4,327 2,048 278 877	r31,441 r22,937 r6,179 r2,325 r270 710	r30,660 r22,866 r5,598 r2,196 r275 804	r34,345 r25,673 r6,282 r2,390 r259 1,180	r33,025 r24,795 r5,676 r2,554 r219 913	r31,926 r24,124 r5,551 r2,251 r217 729	r30,361 r22,251 r5,798 r2,312 r224 976	26,744 20,084 4,749 1,911 233 551	785	
Prices, producer: * Men's leather upper, dress and casual index, 12/80=100							100.0	100.6	102.0	102.6	103.0	102.7	102.7	103.6	103.8	
Women's leather upper index, 1967=100 Women's plastic upper index, 12/80=100	192.9	211.7	212.7	213.5	215.7	216.7	215.7 100.0	216.3 100.5	217.9 101.8	214.0 102.8	214.1 102.8	214.5 103.0	214.0 102.9	214.0 102.9	213.5 103.4	
	-		LUN	1BER	ANI	PR	ODU	CTS						T		
LUMBER—ALL TYPES # National Forest Products Association:																
Production, total mil bd. ft. Hardwoods do Softwoods do	137,061 7,317 29,744	131,885 17,220 24,665	2,783 570 2,213	2,818 527 2,291	2,903 549 2,354	2,480 550 1,930	2,329 500 1,829	2,523 520 2,003	2,542 579 1,963	2,818 614 2,204	2,780 598 2,182	2,651 592 2,059	2,588 560 2,028	2,483 545 1,938		
Shipments, total do Hardwoods do Softwoodsdo	136,514 6,942 29,572	131,422 16,584 24,838	2,716 504 2,212	2,708 494 2,214	2,851 511 2,340	2,494 542 1,952	2,350 492 1,858	2,424 501 1,923	2,379 557 1,822	2,752 592 2,160	2,755 579 2,176	2,633 626 2,007	2,765 560 2,205	2,395 498 1,897		
Stocks (gross), mill, end of period, total	5,342 1,171 4,171 1,447	5,805 1,807 3,998 1,655	5,659 1,701 3,958	5,776 1,741 4,035 118	5,832 1,783 4,049	5,826 1,799 4,027	5,805 1,807 3,998	5,883 1,819 4,064	6,065 1,843 4,222	6,098 1,872 4,226	6,123 1,891 4,232	6,213 1,871 4,342	6,015 1,839 4,176	6,103 1,886 4,217		
Imports, total sawmin products	11,513	9,859	804	863	867	892	799	756	848	966	980	991	934	842	465	
Douglas fir: Orders, newmil. bd. ft	8,388	6,791	550	646	634	541	453	601	486	698	598	5381	566	486	466	
Orders, unfilled, end of period do Production do Shipments do	529 8,427 8,412	6,815 6,821	521 584 589	555 651 612	563 607 626	565 531 539	499 495 519	549 576 551	514 562 521	594 622 618	601 601 591	540 576 599	505 533 601	510 521 481	458 546 518	
Stocks (gross), mill, end of period	918 519 156 363	912 540 117 422	924 42 13 29	963 35 7 28	944 40 11 30	936 40 5 35	912 37 8 29	937 51 9 42	978 49 9 39	982 43 9 35	992 51 13 38	969 47 8 39	901 43 13 30	941 31 6 25	969 51 14 37	
Price, wholesale: Dimension, construction, dried, 2" x 4", R.L.									30			5.0			9.	
\$ per M bd. ft Southern pine: Orders, new	277.24 17,950 523	223.42 6,559 419	248.37 558 470	232.98 510 434	224.31 678 492	214.86 509 473	217.12 439 419	617 456	463 447	587 493	602 486	508 474	535 440	546 441		
Production do Shipments do	17,938 17,932	6,758 6,663	614 600	575 546	626 620	519 528	515 493	569 580	492 472	552 541	604 609	546 520	559 569	557 543		
Stocks (gross), mill and concentration yards, end of periodmil. bd. ft.	1,175	1,270	1,222	1,251	1,257	1,248	1,270	1,259	1,279	1,290	1,285	1,311	1,301	1,313		
Exports, total sawmill productsthous. bd. ft Prices, wholesale (indexes): Boards, No. 2 and better, 1" x 6", R.L.	209,793	280,243	24,274	19,376	20,072	16,731	20,878	14,763	11,781	26,059	19,198	19,919	21,226	r20,898	21,048	
Flooring, C and better, F. G., 1" x 4", S.L. 1967 = 100	366.2 301.4	337.2 324.7	331.6 325.8	324.3 328.0	316.1 330.2	316.1 330.2	320.0 330.2							•••••		
See featpates at and of tables	301.4	324.7	o⊿0.81	340.01	330.2 l	33U.Z1	33U.Z I	I	I	1	1			· · · · · · · · · · · · · · · · · · ·		

Unless otherwise stated in footnotes below, data	1979	1980	•		1980							1981				
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
		LUM	BER	AND	PRO	DUC	TS—C	Conti	nued							
SOFTWOODS—Continued							_							, .		
Western pine: Orders, newmil. bd. ft Orders, unfilled, end of perioddo	9,630 403	7,730 326	628 392	806 445	735 444	636 415	516 326	688 418	605 414	747 442	637 426	573 355	761 369	627 377	569 314	
Production do	9,780	7,613	648	748	732	644	635	659	631	736	681	684	679	616	656	
Stocks (gross), mill, end of period do	9,696 1,379	7,807 1,185	656 1,185	753 1,180	736 1,176	665 1,155	605 1,185	596 1,248	609 1,270	719 1,287	653 1,315	644 1,355	747 1,287	619 1,284	632 1,308	
Price, wholesale, Ponderosa, boards, No. 3, 1" x 12", R.L. (6' and over)	317.26	287.55	327.35	304.06	293.25	306.22	340.83									
HARDWOOD FLOORING Oak:																
Orders, newmil. bd. ft Orders, unfilled, end of perioddo	93.4 7.0	(³) 1.9	4.0	2.9	2.0	1.5	1.9	1.5	1.9	2.5	3.7	3.2	3.0	3.6	3.0	
Production do Shipments do Stocks (gross), mill, end of period do	99.8 96.7 5.4	(³) 78.0 12.4	7.0 9.4	6.4 9.8	7.2 9.4	6.1 10.0	5.8 12.4	6.4 10.9	6.7 9.3	8.0 9.7	9.0 9.3	7.5 8.6	7.3 9.2	6.5 7.6	7.1 8.7	
		M	ETAI	LS AN	ND M	ANU	FAC'	TURE	S							
IRON AND STEEL		-														
Exports: Steel mill products thous. sh. tons. Scrap	2,818 11,054 105	4,101 11,168 73	449 821 4	401 822 1	366 967 2	316 525 3	324 763 (²)	256 578 2	213 683 1	260 442 2	291 694 2	259 677 1	279 628 2	218 348 1	194 450 1	************
Imports: Steel mill products do Scrap	17,518 760 476	15,495 558 400	1,374 26 26	1,064 54 12	1,142 40 32	1,181 35 43	1,536 58 72	1,281 38 18	1,234 41 10	1,142 53 5	1,761 52 36	1,772 62 61	1,665 52 59	1,663 37 36	2,226 59 38	
Iron and Steel Scrap	_															
Production thous. sh. tons. Receipts, net do. Consumption do. Stocks, end of period do.	152,219 147,048 98,901 8,724	142,207 140,954 183,710 8,018	2,856 2,574 5,520 7,653	3,247 3,066 6,328 7,691	3,691 3,770 7,402 7,771	3,584 3,609 7,410 7,607	3,820 3,961 7,386 8,037	3,774 3,769 7,486 7,939	3,750 3,604 7,435 7,856	4,240 4,261 8,379 8,004	4,078 4,018 8,137 8,015	4,001 4,162 8,184 8,175	3,876 r3,817 r7,657 r8,287	3,694 3,453 7,167 8,239		
Prices, steel scrap, No. 1 heavy melting: Composite	98.07 101.50	92.17 96.17	83.61 88.50	92.38 99.00	96.65 104.50	98.21 105.50	101.86 106.00	96.34 103.50	94.28 101.00	98.74 109.00	101.44 112.00	96.13 105.50	88.63 99.00	87.07 99.00	91.37 107.50	89.74 102.50
Ore Iron ore (operations in all U.S. districts): Mine productionthous lg. tons	185,716 186,218	169,613 169,594	4,736 6,052	4,368 6,211	5,024 6,638	4,686 6,587	5,913 6,009	5,964 2,800	6,052 1,545	6,751 2,035	6,280	7,265 8,906	7,525	7,112 9,703		
Shipments from mines	33,776	25,058	2,029	2,062	2,499	2,348	1,809	1,292	1,075	1,165	3,938 1,794	2,901	9,625 3,879	3,059		
U.S. and foreign ores and ore agglomerates: Receipts at iron and steel plants	115,892 115,014 4,455	87,188 89,397 5,073	7,671 5,644 650	8,054 5,953 484	8,498 7,203 552	8,323 7,895 309	7,625 8,326 563	4,162 8,667 33	2,686 8,126 2	3,794 9,293 63	6,233 8,793 625	11,520 8,841 2,967	11,924 8,162 634	12,350 8,022 530	12,159 8,024	
Stocks, total, end of period do At mines do At furnace yards do At U.S. docks do	55,753 11,368 38,969 5,416	56,066 14,265 35,706 6,095	57,545 19,757 32,953 4,835	57,999 17,914 35,009 5,076	57,653 16,289 36,131 5,233	56,621 14,374 36,499 5,748	56,066 14,265 35,706 6,095	54,536 17,477 31,088 5,971	53,154 21,990 25,554 5,610	50,786 26,736 19,972 4,078	49,781 29,336 17,286 3,159	51,411 27,700 19,885 3,826	53,744 25,601 23,480 4,663	56,356 23,019 27,904 5,433	31,931 6,238	
Manganese (mn. content), general imports do	850	795	67	60	38	57	69	22	76	55	70	111	78	68		
Pig Iron and Iron Products																
Pig iron: Production (including production of ferroalloys) thous. sh. tons Consumption	*86,975 87,458	*68,699 *69,053 925	4,360 4,392 888		5,621 5,688 863	6,132 6,186 859	6,489 6,507 925	6,603 6,647 891	6,108 6,209 894	7,193 7,316 881	6,755 6,927 846	6,938 '7,108 831	6,408 6,589 779	6,268 6,508	6,259 6,518 789	
Stocks, end of period	203.00	203.00	203.00		203.00	203.00	203.00	203.00	203.00	203.00	203.00	203.00	203.00	817 203.00	109	
Castings, gray and ductile iron: Orders, unfilled, for sale, end of period thous. sh. tons	974	938	817	851	891	932	938	942	952	968	882	845	⁷ 846	843		
Shipments, total do For sale do	15,434 7,981	11,587 6,321	833 '491	940 534	1,102 605	946 529	873 491	1,034 562	1,011 548	1,140 634	1,170 657	1,114 630	'1,079 '619	987 575		
Castings, malleable iron: Orders, unfilled, for sale, end of period thous. sh. tons	54	41	30	35	39	44	41	46	45	43	42	40	^r 44	42		,,,
Shipments, total	715 376	461 217	30 15	34	41 18	36 16	37 17	37 17	40 18	43 20	42 20	38 19	40 18	29 12		
Steel, Raw and Semifinished																
Steel (raw): Production	¹136,341 ²87.2	¹111,835 72.8	7,018 54.4	7,767 62.6	9,442 72.2	10,057 79.5	10,180 77.8	10,590 79.9	10,028 83.7	11,744 88.6	11,243 87.7	11,423 86.2	10,451 81.5	10,160 77.6	10,120 77.3	
Steel castings: Orders, unfilled, for sale, end of period thous. sh. tons	1,039 2,039	606	660 122	621	603	609 133	606	668 158	586 163	558 173	540	525 150	'501 '151	488 128		
Shipments, total do For sale, total do	1,848	1,851 1,681	112	145 132	141 128	121	148 135	144	147	155	154 137	132	r132	115		

Unless otherwise stated in footnotes below, data	1979	1980			1980							1981				
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Anr	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
	M	ETAL	S AN	D MA	NUF	ACT	URES	S—Co	ntinu	ed	L					L
Steel Mill Products					<u> </u>	ſ					9			[
Steel products, net shipments: Total (all grades) thous. sh. tons By product:	100,262 5,496	83,853 5,342	5,745 386	6,682 379	7,458 496	7,038	7,591	7,616	7,375 477	8,422 606	8,108 531	7,932 535	8,148 529	7,115 400	7,020	
Semifinished products do. Structural shapes (heavy), steel piling do. Plates do. Rails and accessories do.	15,596 9,035 2,026	5,207 8,080 1,797	942 587 112	447 652 138	489 702 124	488 432 627 125	543 426 661 140	441 457 667 145	426 720 158	548 731 170	472 678 161	414 667 140	408 627 116	392 584 114	434 395 586 89	
Bars and tool steel, total do Bars: Hot rolled (incl. light shapes) do Bars: Reinforcing do Bars: Cold finished do	17,601 9,958 5,303 2,245	13,258 6,911 4,683 1,585	889 433 350 101	1,011 517 371 117	1,132 583 415 126	1,036 571 340 120	1,037 564 348 119	1,079 610 320 144	1,146 659 342 140	1,334 764 407 156	1,292 740 395 150	1,258 722 385 145	1,263 706 399 152	1,115 593 388 128	1,106 528 342 131	
Pipe and tubing	8,242 2,449 6,310 43,507 15,995 17,284	9,097 1,768 5,709 33,595 12,116 13,313	689 124 435 2,168 754 848	739 136 426 2,756 988 1,104	789 146 432 3,149 1,083 1,282	767 129 425 3,010 1,111 1,179	782 148 464 3,390 1,281 1,325	793 150 474 3,410 1,209 1,368	776 153 473 3,046 1,077 1,202	945 185 431 3,470 1,267 1,344	949 161 431 3,434 1,252 1,354	925 150 388 3,456 1,233 1,402	890 155, 419 3,739 1,346 1,487	859 137 413 3,102 1,146 1,209	881 130 399 3,001 1,124 1,154	
By market (quarterly): Service centers and distributors	18,263 10,058 4,021 *18,624 4,127 6,027 6,770 *132,372	16,174 8,787 3,362 12,156 3,178 4,566 5,549 30,082		3,432 2,006 727 2,440 582 882 1,192 6,518			4,693 2,237 945 3,473 702 1,003 1,325 7,709			4,696 2,356 958 3,591 753 1,261 1,470 8,326			4,997 2,442 892 3,811 548 1,292 1,399 8,806	21,442 2750 2284 21,089 2151 2362 2453 22,583	² 1,326 ² 697 ² 264 ² 1,095 ² 155 ² 386 ² 423 ² 2,674	
Steel mill shapes and forms, inventories, end of period—total for the specified sectors: mil. sh. tons	'36.3	⁷ 30.4	r32.7	r30.9	r29.4	⁷ 29.9	r30.4	30.7	30.8	31.1	30.8	r31.8	31.7			
Producing mills, inventory, end of period: Steel in process	11.5 7.6	9.6 6.9	11.4 6.8	10.3 6.6	9.6 6.7	9.6 6.9	9.6 6.9	9.5 7.0	9.5 7.1	9.8 7.1	9.9 7.3	10.4 7.5	'10.3 7.2	10.6 7.2		
period mil. sh. tons Consumers (manufacturers only): Inventory, end of period do Receipts during period do Consumption during period do	7.1 *10.1 *88.1 *88.5	7.3 6.6 69.9 73.4	7.2 7.3 *4.9 *5.3	7.1 6.9 *5.7 *6.1	6.6 6.5 76.5 76.9	7.0 6.4 5.8 5.9	7.3 6.6 5.9 5.7	6.9 6.7 6.2 6.1	7.2 7.0 6.4 6.1	7.2 7.0 6.7 6.7	6.9 6.7 6.3 6.6	7.3 6.6 6.4 6.5	7.5 •6.7 •6.8 •6.7	6.0 6.1 6.0		
NONFERROUS METALS AND PRODUCTS Aluminum: Production, primary (dom. and foreign ores) thous. sh. tons	9.400	9,430	426	419	437	427	439	445	404	448	431	441	420	426		
Recovery from scrap (aluminum content) do Imports (general): Metal and alloys, crude	11,399 570.6	1,377	113	124 43.0	128 41.4	122	118 78.3	124 55.8	127 55.7	146 75.6	139 50.2	139	148 55.9	149		***************************************
Plates, sheets, bars, etc	¹ 201.0 200.6	72.7 715.0	4.4 97.6	3.7 98.9	7.2 70.1	4.8 55.0	5.2 46.1	5.8 59.4	8.9 23.2	7.5 32.9	10.7 48.6	13.9 29.3	11.6 23.5	12.5 29.3		
Plates, sheets, bars, etc	265.7 0.5940	315.3 0.6957	42.5 0.6800	24.5 0.6933	34.1 0.7546	0.7600	24.6 0.7600	30.1 0.7600	27.1 0.7600	32.6 0.7600	26.5 0.7600	30.6 0.7600	21.4 0.7600	18.0 0.7600	0.7600	
Aluminum products: Shipments: Ingot and mill prod. (net ship.)	14,517 11,230 6,296 2,080	14,057 10,485 5,862 1,538	1,172 819 464 108	1,184 858 481 119	1,232 913 494 135	1,021 796 435 124	1,203 868 492 122	1,090 883 511 141	1,072 859 486 131	1,294 963 562 154	1,199 952 550 148	1,189 929 541 139	'1,248 '957 '564 '146	1,049 856 493 120		
Inventories, total (ingot, mill products, and scrap), end of periodmil. lb	5,125	5,076	5,037	4,966	4,966	5,082	5,076	5,221	5,323	5,408	5,495	5,600	5,632	5,949		
Copper: Production: Mine, recoverable copperthous. met. tons Refinery, primary	1,443.6 1,515.4 1,411.5 103.9	1,175.3 11,210.9 1,121.9 189.0	34.1 22.7 (*) (*)	48.3 25.8 (³) (°)	76.0 64.2 58.7 5.5	102.0 90.2 82.7 7.5	116.8 121.1 109.6 11.5	119.4 126.0 113.5 12.5	114.0 125.0 110.3 14.6	121.4 139.6 131.7 7.9	124.6 140.1 131.0 9.2	127.9 131.7 123.6 8.1	'125.2 133.1 125.5 7.6	122.0 120.8 111.5 9.2	134.9 116.9 103.4 13.5	
as refined do Imports (general): Refined, unrefined, scrap (copper cont.) do	575.6 341.3	573.0 520.3	33.6	33.4 42.8	64.2	45.0 55.8	36.9	38.9 41.7 24.7	52.8 39.0	45.5 29.0	40.2	28.6	51.1	41.6		
Refined do Exports: Refined and scrap do Refined do	217.9 308.8 80.5	431.8 330.1 17.4	34.8 39.2 0.9	39.1 20.8 0.4	59.2 25.3 0.5	46.0 25.2 1.0	36.8 22.9 3.4	36.2 2.9	29.4 32.1 2.5	21.8 38.7 5.8	28.1 20.2 1.2	21.7 33.7 0.9	34.5 *40.0 *3.5	32.2 18.5 1.3		
Consumption, refined (by mills, etc.) thous. sh. tons Stocks, refined, end of period	°2,470 288	2,083 365		375 392			500 365		2.0	527 331						
Price, electrolytic (wirebars), dom., delivered \$ per lb Copper-base mill and foundry products, shipments	r0.9333	r1.0242	1.0071	0.9886	0.9947	0.9698	0.8913	0.8857	0.8607	0.8738	0.8803	0.8580	0.8523	0.8441	0.8739	
(quarterly total): Brass mill products	2,981 3,048 7593	2,405 2,834 483	674	532 694 108		622	642 622 116			867 670 119						
Lead: Production: Mine, recoverable leadthous. met. tons Recovered from scrap (lead cont.)	525.6 801.4	551.0 659.1	41.7 52.2	39.3 56.0	48.5 50.2	39.6 58.1	41.2 54.9	42.3 46.5	40.5 43.9	43.0 43.8	^r 26.4 42.4	27.5 44.1	17.1 46.7			
Imports (general), ore (lead cont.), metal do Consumption, total do	59.6	52.1 1,048.2	4.2 79.5	6.5 95.6	4.6 103.0	3.7 92.5	2.6 92.0	3.5 98.9	6.0 90.7	11.1 95.9	3.3 91.2	11.5 89.1	2.4 91.0	9.9		
See footnotes at end of tables.							-									

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through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
	M	ETAL	S AN	D MA	NUF	'ACT	URES	Б—Со	ntinu	ed				L	·	<u> </u>
NONFERROUS METALS AND PRODUCTS—Continued																
Lead—Continued Stocks, end of period: Producers', ore, base bullion, and in process (lead content), ABMS	105.2 46.1 123.2 74.1 0.5264	135.3 54.8 95.8 41.2 0.4246	138.3 49.1 84.5 35.5 0.4096	138.9 31.5 86.8 38.2 0.4226	142.4 26.1 90.7 38.9 0.4500	136.9 41.6 94.4 39.8 0.4381	135.3 54.8 95.8 41.2 0.3897	126.5 77.9 91.8 43.5 0.3379	132.0 81.3 87.9 37.1 0.3042	122.7 77.4 87.1 37.1 0.3506	110.5 72.8 86.5 38.2 0.3752	108.3 57.1 89.1 38.4 0.3641	111.1 47.3 93.2 39.1 0.3797	117.2	116.0	
Tin: Imports (for consumption): Ore (tin content)	4,529 48,354 121,493 11,767 162,465 149,496 13,418 258 7.5389	842 45,983 118,638 1,703 156,362 141,342 4,293 564 8,4600	0 2,736 1,230 175 3,900 3,050 498 6,051 8,3922	0 3,095 1,220 155 4,150 3,350 227 5,180 8,6898	147 3,688 1,370 155 4,300 3,400 180 5,208 8,4000	26 3,738 1,175 120 4,050 3,250 151 5,086 7,9779	0 3,805 1,265 150 3,750 3,000 547 5,504 7.5956	0 4,790 1,195 145 4,300 3,500 415 5,968 7.4876	0 3,327 1,330 120 4,400 3,600 233 5,745 7.1349	0 3,985 1,220 130 4,100 3,300 919 5,229 7.0026	0 3,856 1,185 135 4,600 3,700 287 5,725 6.8358	. 0 4,831 1,285 160 4,400 3,500 343 5,978 6.5806	0 4,359 1,345 135 4,350 3,200 411 6,227 6,5839	3,440 3,900 2,900 1,019 5,465 6.8981	7.5339	
Zinc: Mine prod., recoverable zinc thous. met. tons Imports (general): Ores (zinc content)	267.3 225.0 527.1	313.1 113.8 329.0	25.2 15.6 30.1	24.1 8.6 32.3	28.2 2.1 38.3	24.0 8.5 45.1	24.5 13.6 52.0	24.6 19.4 36.4	24.8 6.0 51.7	27.6 10.8 48.4	25.5 3.9 52.5	24.8 10.2 52.3	23.1 13.3 71.7	8.5 55.4		
Consumption (recoverable zinc content): Ores	79.7 314.0	67.6 236.1	5.3 18.3	4.6 18.4	3.8 19.4	6.3 19.3	6.4 19.1	6.4 19.1	5.7 19.2	4.8 19.8	5.7 19.9	4.9 18.9	5.2 19.0			
Slab zinc: @ Production, total ‡	1525.7 100.1 0.3	325.3 181.7 0.3	24.2 58.2	26.0 66.7 (²)	28.1 74.6 (²)	27.1 72.3 (²)	30.2 70.5 (²)	30.3 74.5 0.0	28.5 73.6 (²)	31.3 77.3 (²)	30.9 74.3 0.1	29.2 73.6 (²)	28.0 79.0 (²)	30.0 (²)	30.4	26.7
Producers', at smelter (ABMS) do Consumers' do Price, Prime Western \$ per lb MACHINERY AND EQUIPMENT	55.8 59.1 0.3730	18.7 58.8 0.3743	32.1 56.3 0.3573	27.3 57.9 0.3663	21.3 58.6 0.3726	18.7 57.5 0.3858	18.7 58.8 0.4059	16.7 57.1 0.4119	17.0 57.9 0.4125	19.0 57.4 0.4130	16.0 61.8 0.4256	15.6 66.4 0.4520	16.2 66.3 0.4612	18.9 0.4625	0.4747	
Heating, combustion, atmosphere equipment, new orders (domestic), net, qtrly #	372.6 105.5 160.4	348.3 82.8 156.5		39.5 19.4 20.1			87.7 21.1 42.4			91.8 36.7 19.3						
Material handling equipment (industrial): Orders (new), index, seas. adj 1967 = 100	419.4	375.5	3,315.3	4,534.0	3,711.3	3,406.5	3,848.4	383.7	362.0	441.0	365.5	431.9	369.5	446.2		
Industrial trucks (electric), shipments: Hand (motorized)	24,183 28,654 55,782	20,495 24,110 39,448	1,396 1,647 1,972	1,913 1,947 2,590	1,624 1,839 2,878	1,512 1,658 2,636	1,521 1,712 2,562	1,129 1,490 2,687	1,443 1,527 2,667	1,893 1,693 2,920	1,505 1,727 2,817	1,559 1,551 2,563	1,735 1,722 2,962	1,383 1,258 2,366	1,596 1,492 2,482	
Industrial supplies, machinery and equipment: New orders index, seas. adjusted	132.1 129.6	109.8 134.5	100.5 *134.1	100.2 131.4	103.3 135.7	109.2 132.7	112.0 128.1	111.6 138.9	113.8 135.6	117.8 138.9	118.0 145.6	115.7 140.2	118.2 140.9	121.9 149.4	119.2 150.6	147.2
Price index, not seas. adj. (tools, material handling equip., valves, fittings, abrasives, fasteners, metal products, etc.)	117.4 147 120	131.2 153 136		133.9 246 225	134.6 253 251	135.3 240 233	136.3 255 259	137.8 245 248	139.4 262 245	140.8 260 253	142.6 278 255	143.6 267 244	144.2 294 245	145.8 310 266	146.2 *287 *267	146.7 290 237
Machine tools: Metal cutting type tools: Orders, new (net), total	4,495.10 3,865.80 2,930.05 2,605.50 4,545.7	3,884.75 3,495.50 3,680.80 3,206.00 4,749.7	165.05 148.95 244.65 223.50 5,029.0	295.65 259.45 337.75 292.80 4,986.9	286.55 263.05 352.15 295.10 4,921.3	275.00 253.95 318.65 271.45 4,877.6	245.00 207.25 372.80 314.50 4,749.7	206.55 186.30 308.70 270.70 4,647.6	212.80 179.90 335.30 279.75 4,525.0	287.25 249.05 373.85 311.80 4,438.4	228.55 191.55 358.50 291.40 4,308.5	179.00 162.35 331.95 274.10 4,155.6	253.65 206.05 412.95 352.45 3,996.2	*136.85 *121.95 *295.35 *255.95 *3,837.8	P166.80 P143.90 P261.95 P228.35 P3,742.6	
Metal forming type tools: 0 Orders, new (net), total	1,047.60 919.90 946.50 859.80 618.8	776.95 664.95 1,010.95 878.55 384.8	59.40 51.30 66.25 53.60 487.0	79.15 72.45 73.45 66.10 492.7	43.45 37.40 87.65 72.40 448.5	54.05 44.15 81.50 69.45 421.1	54.15 44.05 90.50 77.95 384.8	74.45 68.45 80.25 67.30 379.0	64.45 56.90 86.85 72.65 356.6	57.45 52.90 103.25 75.20 310.8	76.45 59.10 88.90 70.65 298.4	48.95 42.90 79.35 67.10 268.0	55.40 48.85 95.85 75.45 227.5	*57.95 52.85 *71.75 62.35 *213.7	P43.80	
Tractors used in construction, shipments, qtrly: Tracklaying, total	19,812 1,322.1 4,962 419.1	16,460 1,272.9 4,781 387.5		3,824 293.0 1,265 101.1			3,288 283.0 947 73.6			4,398 391.9 1,258 104.0			74,474 425.3 1,137 103.3	41,137 4125.1		
Tractor shovel loaders (integral units only), wheel and tracklaying typesunits mil \$ Tractors, wheel, farm, nonfarm (ex. garden and	54,414 1,758.1	45,495 1,696.2		9,340 358.2			9,004 337.6			9,381			9,675 465.0			
construction types), ship., qtrly units mil. \$	147,385 3,424.2	147,385 3,113.7		27,750 580.5			32,306 879.7			r36,683 938.0			*39,145 *905.8	⁴10,755 ⁴245.6		
ELECTRICAL EQUIPMENT Batteries (autotype replacement), shipthous	53,746	50,063	4,564	5,741	6,249	5,361	5,520	4,820	3,548	3,331	3,460	3,488	3,658	4,037	5,278	
Radio sets, production, total marketthous Television sets (incl. combination models), production, total market thous See footnotes at end of tables.	40,029	28,104 18,532	2,365	33,792 32,078	2,540 1,668	2,931 1,684	32,149 31,765	2,243	1,986 1,518	³2,030	1,905	2,519	³2,739	2,364	1,494	

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	M	ETAL	S AN	D MA	NUF	ACT	URES	SCo	ntinu	ed						
ELECTRICAL EQUIPMENT—Continued						T										
Household major appliances (electrical), factory shipments (domestic and export) # thous. Air conditioners (room) dc Dishwashers do Disposers (food waste) do Ranges do Refrigerators do Freezers do Washers do Vacuum cleaners (qtrly.) do Vacuum cleaners (qtrly.)	33,162 3,749 3,488 3,317 3,000 5,701 1,858 4,965 3,551 8,674	30,259 3,197 2,738 2,960 2,530 5,124 1,681 4,550 3,177 7,439	2,391 94 212 229 191 464 180 397 257	2,478 66 261 234 206 476 146 401 285 1,843	2,877 90 297 343 257 519 123 468 333	2,234 125 204 256 208 371 74 331 284	2,131 203 198 223 185 295 89 302 238 1,724	2,566 226 242 280 218 408 91 408 297	2,531 370 205 274 198 364 122 365 244	2,975 623 228 317 197 424 142 408 260 2,119	2,982 603 240 309 220 440 141 368 245	2,613 477 192 252 193 428 142 346 221	3,136 653 220 230 219 542 206 402 247 1,944	2,683 283 190 237 200 511 227 376 243		
GAS EQUIPMENT (RESIDENTIAL) Furnaces, gravity and forced-air, shipmentsthous	1,863	1,446	123	147	174	144	132	136	123	128	111	105	108	115	115	
Ranges, total, salesdo Water heaters (storage), automatic, sales @ do	1,799 2,887	1,538 2,818	119 208	138 237	142 271	121 218	141 246	114 260	118 242	143 286	125 287	123 226	134 235	110 204	123 204	
		PETI	ROLE	UM,	COA	L, AN	D PF	RODU	CTS							
COAL																
Anthracite: Production	4,835 1,233 411.0	6,056 1,795 463.7	509 286 469.8	478 96 478.2	567 248 479.6	525 80 491.1	470 57 497.9	292 65 508.7	538 8 542.9	565 114 542.8	620 167 545.2	259 170 553.0	565 283 565.1	332 582.9	278 595.7	
Bituminous: Production †	776,299 677,286 526,005 144,150 77,009	823,644 669,061 568,322 125,815 66,493	67,890 62,493 53,134 9,138 4,867	68,344 57,008 47,829 8,884 4,785	71,723 55,459 45,019 10,005 5,099	68,130 56,464 45,642 10,389 5,142	71,647 62,978 51,068 11,318 5,335	65,296 67,347 54,276 12,382 5,975	70,026 59,732 47,855 11,478 5,666	76,928 60,278 48,323 11,650 6,058	38,024 43,604	36,758 44,908	62,210			
Residential and commercial do Stocks, end of period, total do Electric power utilities do Industrial, total do Oven-coke plants do	7,131 178,440 156,440 21,660 10,028	4,924 ² 199,077 178,269 20,808 9,017	221 186,387 167,792 18,595 7,829	295 189,978 170,776 19,202 8,175	435 197,291 177,564 19,727 8,445	433 199,572 179,472 20,100 8,563	592 199,077 178,269 20,808 9,017	689 193,090 172,151 20,939 9,105	399 191,933 170,856 21,077 9,200	305 200,397 179,032 21,365 9,445	163,859	147,095				
Exports	64,783 451.1	89,882 466.5	8,944 467.8	8,266 470.2	9,204 469.6	8,905 474.0	8,169 473.8	5,727 47 6 .0	6,762 477.9	9,593 478.3	8,099 483.4	5,911 484.8	5,872 488.6	10,414 502.3	11,034 503.6	
Production: Beehive and oven (byproduct) thous. sh. tons	¹52,943	46 120	2 207	2 205	9 470	3,565	3,683			511,382						
Petroleum coke §	27,455	46,132 27,094	3,387 2,318	3,295 2,244	3,470 2,186	2,203	2,329	2,276				***************************************				
Oven-coke plants, total do At furnace plants do At merchant plants do Petroleum coke ‡ do	5,185 4,590 595 1,042	8,627 7,521 1,106 **846	8,676 7,612 1,063 1,151	9,018 7,907 1,112 1,042	9,011 7,889 1,123 974	9,040 7,833 1,207 1,001	8,627 7,521 1,106 1,106	1,030		\$7,586 \$6,564 \$1,022						
PETROLEUM AND PRODUCTS	1,545	2,162	246	207	260	156	67	101	54	132	118	89	206	73	60	
Crude petroleum: Oil wells completed number Price, wholesale Index, 1967 = 100 Gross input to crude oil distillation mil. bbl	19,383 376.5 5,458.7	26,984 556.4 5,048.4	2,357 566.8 412.3 73	2,636 571.3 407.9	2,409 579.6 403.0	2,239 600.6 403.4	3,675 632.8 432.7	1,789 704.4 417.6	2,462 842.7	3,102 842.8	2,905 842.5	2,604 840.0	3,497 816.0	2,790 799.0	3,137 797.0	
Refinery operating ratio	85	76		74	71	73	75	72	71	68	66	67	69		***************************************	
New supply, total	6,802.0 3,121.3 594.2	6,236.5 3,146.5 589.7	498.4 261.1 48.2	490.8 258.6 46.8	507.8 264.6 47.8	495.2 255.0 48.4	529.0 266.9 49.5	526.4 264.5 50.7								
Črude and unfinished oils	2,400.9 685.6	1,930.4 569.9	147.0 42.1	142.3 43.2	146.8 48.6	141.4 50.4	157.1 55.5	153.8 57.5								
Change in stocks, all oils (decrease,—) do Demand, total do	455.7 6,928.9	^{r6} 79.3 6,422.5	23.7 497.4	-2.4 513.1	-16.8 542.8	4.2 517.3	¹⁶ –13.7 588.3	-29.3 584.2								
Exports: Crude petroleum	85.7 86.1	103.9 94.3	2.4 7.5	9.6 7.1	9.6 8.9	8.7 7.8	10.6 8.7	10.5 6.8								
Domestic product demand, total # do Gasoline do	6,757.1 2,581.5	6,224.3 2,420.7	487.5 207.3	496.4 196.5	524.2 207.8	500.8 188.1 3.7	569.0 206.2	566.9 198.1								
Kerosene do Distillate fuel oil do Residual fuel oil do Jet fuel do	68.6 1,208.5 1,031.6 392.7	58.2 1,048.6 912.4 391.1	4.3 66.2 70.9 32.3	3.9 77.7 70.8 31.7	4.5 90.5 68.9 32.1	87.5 72.9 30.9	7.3 113.0 85.1 33.6	7.0 126.8 89.0 32.9								
Jet fuel do Lubricants do Asphalt do Liquefied gases do	65.5 172.0 581.0	58.3 142.6 532.8	4.3 17.8 35.5	4.9 17.3 39.6	5.5 15.8 49.0	4.7 10.2 46.0	33.6 4.8 7.3 54.2	4.6 5.4 60.0								
Stocks, end of period, total do Crude petroleum do Strategic petroleum reserve do Unfinished oils, natural gasoline, etc do Refined products do	41,340.9 430.3 391.2 4132.0 4778.6	**1,420.2 **6482.9 *107.8 **6192.0 **745.3	1,448.9 478.8 91.2 148.2 821.9	1,446.5 468.8 92.8 149.7 828.0	1,429.7 475.1 96.6 149.0 805.6	1,433.9 475.1 102.3 143.3 815.4	**1,420.2 **6482.9 *107.8 **6192.0 **6745.3	1,390.9 488.9 112.5 188.8								

Inless otherwise stated in footnotes below, data	1979	1980			1980							1981				
hrough 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann		Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
	PETF	COLE	J M, C	OAL,	ANI	PRO	ODUC	CTS-	-Cont	inued	l					
PETROLEUM AND PRODUCTS—Continued	ļ				Ì					1						
tefined petroleum products: ‡ Gasoline (incl. aviation):																
Production mil. bbl. Exports do	2,514.6 0.2	2,394.0 0.5	201.4	192.4 0.2	191.2 (¹)	194.9	206.9	207.3								
Stocks, end of period	²239.9	r6213.5	262.2	261.0	249.1	259.7	r*213.5	227.0					************			
Wholesale, regular Index, 2/73=100	367.6	576.7	602.9	599.6	591.5	590.8	596.1	607.5	632.9	683.2	694.7	690.2	685.6	677.3	670.1	
Retail, regular grade (Lundberg/Platt's): ¶ Leaded \$ per gal	40.878	1.217	1.233	1.221	1.217	1.220	1.233	1.278	1.372	1.384	51.400	1.398	1.398	1.398	1.397	1.39
Unleaded * do Aviation gasoline:	0.919	1.261	1.278	1.268	1.265	1.268	1.281	1.326	1.421	1.435	⁵ 1.449	1.448	1.449	1.450	1.449	1.45
Productionmil. bbl Stocks, end of period	13.7 22.7	12.8 re2.3	1.4 3.0	0.9 2.7	1.1 2.6	0.9 2.6	1.0 re2.3	0.9 2.5								
Kerosene: Productiondo	66.8	50.3	3.3	3.6	3.8	3.9	5.2	5.7								
Stocks, end of period	15.8	¹⁶ 11.4	13.3	12.9	12.4	12.7	r ⁶ 11.4	10.5	10.6	11.1	12.0	13.5	13.3			
Index, 1967=100 Distillate fuel oil:	539.6	863.4	903.1	903.2	896.3	896.8	911.4	932.1	972.0	1,041.0	1,080.9	1,083.1	1,077.6	1,066.4	1,051.4	
Productionmil. bbl Imports	1,150.8 70.5	974.9 50.8	76.3 2.4	80.6 3.0	80.3 3.6	81.0 4.0	89.7 5.2	92.6 8.5								
Exports do Stocks, end of period do	1.1 228.7	1.2 re205.4	226.3	232.3	225.7	223.3	r ⁶ 205.4	(¹) 180.0	171.9	163.9	164.6	172.2	181.6			
Price, wholesale (middle distillate) Index, $1967 = 100.$	573.9	850.6	875.6	873.7	868.4	873.4	891.1	935.4	1,000.3	1,082.8	1,105.4	1,091.5	1,091.7	1,080.0	1,072.9	
Residual fuel oil: Productionmil. bbl	615.6	577.1	44.8	44.9	46.9	47.3	51.5	50.0								
Imports do Exports do	420.1 3.2	336.6 12.2	27.1 0.1	27.2 0.6	27.0 2.2	30.7 2.6	31.8 1.9	31.5 2.0								
Stocks, end of period	95.6 684.5	^{r6} 91.5 961.2	86.9 953.7	87.9 956.2	91.0 943.8	93.8 1,017.3	r ⁶ 91.5 1,166.9	82.3 1,207.9	78.2 1,248.0	$75.1 \\ 1,323.7$	73.3 1,334.6	78.6 1,316.3	70.1 1,255.8			
Jet fuel:			Ì					i	-,		_,	.,		,	,,	
Productionmil. bbl Stocks, end of period	369.2 38.5	365.6 ¹⁶ 42.4	29.7 40.3	31.2 42.2	30.3 43.2	29.7 43.9	29.8 ^{re} 42.4	29.6 39.5	38.2	38.7	40.9	44.7	44.9			
Lubricants:	71.0	05.	5.0			- 0		5.0								
Production do Exports do	71.0 8.6	65.1 8.6	5.0 0.6	5.4 0.6	5.3 0.6	5.0 0.5	5.4 0.6	5.0 0.7								
Stocks, end of period	12.5	re13.6	13.6	13.7	13.2	13.2	r813.6	13.6								
Production do do do do do do	168.8 18.9	141.2 618.8	13.9 22.5	13.8 19.1	12.6 16.1	10.9 17.0	9.1 °18.8	9.5 22.9								
Liquefied gases (incl. ethane and ethylene):	10.5	10.0	22.0	15.1	10.1	17.0	10.0	22.0					*************			
Production, total do	568.0 443.9	564.5 443.6	46.7 36.7	44.7 35.2	47.5 38.2	46.5 36.7	48.7 38.0	50.5 40.4								
At gas processing plants (L.P.G.) do At refineries (L.R.G.)	124.1 2110.7	120.9 re128.0	10.0 134.7	9.4 137.1	9.3 134.5	9.7 132.1	10.7 128.0	10.0 116.5								
assis (as passes as a second s	L							l		لـــــــــــــــــــــــــــــــــــــ						
	r -	PULP	, PAF	ER,	AND	PAP.	ER P	KOD	UCIS)						r
PULPWOOD AND WASTE PAPER	ŀ															
ulpwood: Receipts thous. cords (128 cu.ft.)	376,928	81,007	6,893	6,722	6,878 6,779	6,408	6,480	6,832	6,378	6,847	6,528	6,465	6,649	6,799		
Consumption do Stocks, end of period do	³ 77,594 5,443	79,703 6,697	6,719 6,310	6,601 6,349	6,779 6,396	6,710 6,123	6,234 6,285	6,700 6,336	6,477 6,210	6,889 6,009	6,882 5,528	6,716 5,123	6,790 4,985	6,526 5,464		
aste paper:	310 720	10.105	1.051	1,051	1 150	1.000	1,070	1 100	1 140	1,229	1,195	1 150	⁷ 1,204	1,107		
Consumption thous sh. tons. Stocks, end of period do	³13,739 719	13,185 892	1,051 727	747	1,153 790	1,068 763	831	1,109 825	1,148 922	854	910	1,159 866	r925	992		
WOODPULP	ĺ															
roduction: Total, all grades #thous. sh. tons	³51,177	52,055	4,334	4,186	4,319	4,224 123	3,851	4,355	4,128	4,621	4,501	4,584	r4,398	4,076		
Dissolving and special alpha do	1,447 36,339	1,417 38,931	129 3,324	94 3,216	124 3,292	3,236	126 2,867	3,305	115 3,138	110 3,556	108 3,479	125 3,516	120 3,351	102 3,129		
Sulfite	1,814 4,619	1,911 4,887	150 397	160 388	164 411	157 366	155 393	167 420	155 396	157 438	148 421	165 425 353	159 430	132 400		
Semichemical	3,889	3,938	335	328	328	341	311	348	325	360	345	353	338	313		
ocks, end of period: Total, all mills	930	944	1,034	960	960	1,042	944	1,031	1,107	1,035	1,077	1,088	r1,155	1,230		
Pulp mills	364 507	439 449	493 479	454 452	467 440	542 446	439 449	542 433	568 475	531 447	581 438	607 430	r614 r488	669 507		
Nonpaper mills do kports, all grades, total do	32,935	3,806	62 385	54 313	54 341	54 247	57 322	57 291	64 279	61 356	58 290	51 363	^r 53 359	54 237	300	
Dissolving and special alpha doAll other do	764 32,170	769 3,037	70 315	60 252	52 289	52 195	322 52 270	67 224	61 218	83 272	48 243	61 302	70 289	65 172	65 236	
nports, all grades, total	³ 4,318	4,051	344	300	298	323	334	380	355	368	295	414	349	329	323	l
Dissolving and special alpha do	155 34,163	194 3,858	21 323	10 290	12 286	24 299	10 324	23 356	9 346	22 346	8 287	26 388	8 341	25 304	10	
All otherdo	1 2,200	5,555	323	400				300	""	3.0		300	3.1	"	,,,	
All otherdo											1	,				I
All other do PAPER AND PAPER PRODUCTS aper and board:		,						,					:			
All other do PAPER AND PAPER PRODUCTS aper and board: Production (Bu. of the Census): All grades, total, unadjusted thous. sh. tons.	66,608	65,834	15,389	¹ 5,393	^{15,821}	5,445	'5,245	5,646	5,331	6,005	5,891	5,757	r5,724			
All other	66,608 30,012 30,936 144	30,164	2,425	^{75,393} ^{72,426} ^{72,571} ⁷¹²	*5,821 *2,660 *2,731 *12	'5,445 '2,455 '2,608 '12	r5,245 r2,463 r2,420 r12	5,646 2,617 2,675 12	5,331 2,448 2,523 17	6,005 2,762 2,848 16	5,891 2,679 2,811 18	5,757 2,626 2,751 15	r5,724 r2,622 r2,734 r11	2,458 2,553 12		

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Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980		r	1980							1981				
in the 1979 edition of BUSINESS STATISTICS	Ann		Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
	PULP	PAP	ER, A	ND I	PAPE	R PF	RODU	JCTS-	-Con	tinue	d					
PAPER AND PAPER PRODUCTS—Cont.			1			'								ļ		
Paper and board—Cont. Producer price indexes: Paperboard	202.1 182.4	235.2 206.1	238.4 210.3	239.5 210.2	239.9 212.7	241.7 215.6	241.1 219.1	250.2 219.7	252.8 225.7	225.7 227.9	255.7 232.5	262.3 236.9	262.7 236.8	261.4 234.6	261.2 233.8	
Selected types of paper (API): Groundwood paper, uncoated: Orders, new	1,519 149 1,509	¹1,501 116 ¹1,506	136 118 127	121 112 122	139 121 130	123 125 121	115 116 124	129 122 129	113 124 114	126 132 122	103 111 127	128 117 121	107 106 120	121 122 106		
Coated paper: Orders, new	4,547 385 4,527	14,763 389 4,671	386 411 378	390 402 389	435 421 421	380 398 394	395 389 405	394 365 426	377 352 391	427 345 438	409 324 405	405 320 411	406 313 411	396 335 375		
Uncoated free sheet papers: Orders, new	7,826 8,189	¹7,708 ¹8,344	598 676	601 664	735 728	616 662	618 671	693 690	603 656	710 744	664 731	698 731	612 691	615 622		
Unbleached kraft packaging and industrial converting papers: Shipments	3,934 4,506	¹3,788 ¹4,353	306 349	311 353	328 370	302 367	293 345	322 372	309 352	345 395	348 372	342 385	317 367	298 335	•••••	
Newsprint: Canada: Production thous. metric tons Shipments from mills do	8,756 8,780	8,625 8,622	692 662	651 642	735 735	708 691	691 735	751 695	702 684	766 769	772 782	770 744	748 776			
Stocks at mills, end of period	3,685 3,689	165 4,239 4,234	374 371	192 353	192 377 381	208 358 346	165 338 357	221 379 374	238 356	235 399	391 392	251 402 400	223 404 394	404 400		
Stocks at mills, end of period	6,673 628	6,586 732	30 *819 793	350 32 *823 782	28 1913 763	40 1909 696	732	26 781 768	357 25 761 807	395 29 860 827	29 867 846	30 897 847	39 815 902	43 794 942		
Imports	7,223 249.4	7,279 3279.3	546	584 283.8	588 283.8	568 283.8	596 298.3	584 301.9	587 301.9	620 301.9	584 301.9	622 301.9	568	568 301.9	502 314.8	
Paperboard (American Paper Institute): Orders, new (weekly avg.)§thous. sh. tons. Orders, unfilled	613 1,393 31,429	(²) (²) ¹30,952	2,567	2,529	2,683	2,603	2,313	2,709	2,539	2,842	2,747	2,854	2,666	2,502		
Paper products: Shipping containers, corrugated and solid fiber shipmentsmil. sq. ft. surf. area	250,643	243,228	19,345	21,054	23,229	18,849	19,313	1	20,044	21,383	21,583	19,808	20,933	20,486	20,434	
Folding paper boxes, shipments thous. sh. tons mil. \$	2,716.0 2,416.7	(2) (2)														
		RUI	BBER	ANI	RU	BBEF	R PRO	ODUC	CTS							
RUBBER									·							
Natural rubber: Consumptionthous. metric tons Stocks, end of period	739.00 132.12	586.15 126.67	43.16 138.50	49.38 132.90	49.48 129.52		48.69 126.67		52.34 125.39	55.21 122.76	54.72 125.31	52.21 123.63	57.60 119.37			
Imports, incl. latex and guayulethous. lg. tons Price, wholesale, smoked sheets (N.Y.) \$ per lb	747.68 0.651	598.31 0.730	31.37 0.680	55.92 0.728	31.77 0.790	50.31	45.06 0.730	30.06 0.713	86.64 0.690	53.38 0.650	67.62 0.590	66.36 0.580	50.47 0.570	41.59 0.560	43.40 0.540	
Synthetic rubber: Production thous. metric tons Consumption do	2,534.50 2,340.62	2,009.04 1,854.00	123.67 133.73	149.76 165.97	174.59 167.86	178.45 157.70	193.69 155.13	193.52 162.34	169.68 166.29	200.05 195.68	180.94 148.00	175.92 167.48	158.18 153.86	161.50 145.67		
Stocks, end of perioddo do Exports (Bu. of Census)thous. lg. tons	402.86 385.10	341.77 422.78	372.33 30.46	339.73 25.51	325.35 33.45	328.87 30.72	341.77 32.31	364.00 31.21	354.11 31.65	345.04 38.73	363.56 31.77	365.24 32.00	357.00 28.55	368.43 26.27	21.97	
TIRES AND TUBES											ļ					
Pneumatic casings, automotive: Production thous	206,687	159,263	12,057	13,911	15,790	12,861	13,346	15,463	15,641	16,834	15,466	15,183	15,406	r14,277		
Shipments, total do Original equipment do Replacement equipment do Exports do	213,929 58,072 150,781 5,077	177,063 40,227 131,271 5,565	15,537 2,521 12,566 450	17,564 3,615 13,497 452	18,034 4,304 13,133 597	13,305 3,376 9,499 431	12,926 2,707 9,767 452	15,622 3,228 11,916 478	14,323 3,206 10,537 580	18,617 4,301 13,607 709	18,835 4,154 14,160 521	18,619 4,292 13,851 476	19,324 4,538 14,290 496	*17,380 3,026 *13,901 *453		
Stocks, end of period	44,873 6,572	33,298 9,058	37,057 657	33,730 885	32,112 638	32,363 691	33,298 946	40,188 797	43,258 1,081	43,686 1,055	42,393 1,224	40,615 1,072	38,570 1,040	'37,116 830	1,134	
Inner tubes, automotive: Exports (Bu. of Census) do	3,576	4,557	265	464	226	314	317	206	358	335	374	252	250	350	337	

nless otherwise stated in footnotes below, data	1979	1980			1980		i					1981				
nrough 1978 and descriptive notes are as shown the 1979 edition of BUSINESS STATISTICS	Ann	ual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep
		STON	E, CI	LAY,	AND	GLA	SS P	RODU	JCTS							
PORTLAND CEMENT																Ī —
hipments, finished cementthous. bbl	¹451,383	¹404,5 6 9	39,644	40,489	43,303	31,824	28,181	20,665	20,782	30,229	35,165	34,181	38,074	38,872	 I	
hipments: Brick, unglazed (common and face)								'								
mil. standard brick Structural tile, except facing thous. sh. tons	7,708.1 59.0	6,335.2 101.5	574.0 8.9	625.5 9.4	681.0 9.7	527.9 10.3	463.4 9.7	385.6 6.4	361.4 11.1	515.0 9.7	528.8 7.1	501.1 8.8	r484.1 r6.8	475.5 7.0		
Sewer pipe and fittings, vitrified do	855.3	721.8	76.7	78.7	96.5	73.5	45.5	36.8	34.3	50.4	45.0	38.9	*35.8	42.8		
mil. brick equivalent. Floor and wall tile and accessories, glazed and unglazed	54.0 312.8	45.4 297.6	3.0 24.4	3.8 26.1	4.2 25.9	3.2 21.1	3.6 23.1	2.7 20.6	2.4 21.7	3.2 27.1	3.2 25.6	3.0 24.1	r3.6 r24.5	3.2 24.7		
rice index, brick (common), f.o.b. plant or N.Y. dock	263.1	280.8	280.7	281.6	285.9	286.3	286.3	290.2	289.6	299.3	300.1	302.2	302.2	303.7	303.8	
GLASS AND GLASS PRODUCTS					i											
lat glass, mfrs.' shipments thous. \$	858,130	868,459	***************************************	211,049			247,797			233,439			248,658	•••••	************	
lass containers: Productionthous. gross	321,999	327,022	29,162	27,040	29,763	25,427	21,122	25,961	25,456	28,201	27,851	28,200	29,532	27,686		
Shipments, domestic, total	316,024	323,816	29,437	30,781	27,162	23,459	23,561	23,332	23,160	29,327	27,312	26,799	30,081	29,340		
Food dodo	24,531 57,150	24,808 61,032	2,339 6,039	2,468 6,005	1,845 5,088	1,560 4.082	1,770 4,343	1,742 4,265	1,764 4,201	2,292 5,568	1,862 5,826	1,907 5,706	2,053 6,956	1,995 7,101		
Beer do do	113,875 24,306	122,678 24,574	11,388 2,031	10,925 2,278	9,928 2,478	9,058 2,035	8,563 2,080	7,768 2,013	8,040 1,879	9,892 2,598	10,695 2,123	10,625 1,836	11,327 2,146	11,436 1,795		
Wide-mouth containers: Food (incl. packer's tumblers, jelly glasses, and fruit jars)thous. gross	66,517	61,212	5,233	6,401	5,247	4,621	4,909	5,045	4,874	6,301	4,450	4,614	5,165	4,913		
Narrow-neck and wide-mouth containers: Medicinal and toilet	25,856	26,250	2,108 299	2,379	2,316	1,906	1,715	2,213	2,157	2,359	2,138 218	1,889	2,172	1,902 198		
Chemical, household and industrial do Stocks, end of period do	3,789 45,935	3,262 46,676	48,838	325 45,098	260 47,351	197 48,708	181 46,676	286 50,069	245 51,651	317 49,755	49,836	222 51,054	262 50,255	48,737		
GYPSUM AND PRODUCTS	,	,	,	,	,	,	,	- 1,111	,	,	,	,	,	,		
roduction: Crude gypsum (exc. byproduct) thous. sh. tons Calcined	¹14,630 ¹14,543	¹12,376 ¹11,848	1,050 984	1,106 1,032	1,248 1,064	1,028 968	1,081 924	987 1,026	892 885	939 1,005	1,003 1,080	977 1,067	1,008 976		***************************************	
nports, crude gypsumdo do	7,773	7,365	625	595	493	719	590	721	487	456	593	715	710			
ales of gypsum products: Uncalcineddo	5,603	¹5,5 4 4	428	607	529	493	531	309	306	308	419	441	487			
Calcined: Industrial plastersdo	379	409	36	34	40	31	31	30	33	36	34	32	36			
Building plasters: Regular basecoat	121 283	217 161	19 13	18 13	20 15	14 11	15 13	16 13	17 12	19 16	18 17	16 15	16 14			
Board products, totalmil. sq. ft	16,865	14,131	1,203	1,258	1,365	1,108	1,149	1,260	1,068	1,239	1,353	1,102				
Lath doVeneer base do	125 444	78 339	5 29	6 31	$\frac{5}{31}$	5 27	5 29 16	7 31	6 24	6 29	6 34	4 26	5 29			
Gypsum sheathing	218 12.556	190 9,923	17 840	18 879	20 961	17 784	16 809	17 884	14 734	18 857	22 928	19 740	17 782			·····
Type X gypsun board do Type X gypsun board do Predecorated wallboard do 5/16 mobile home board do	3,272 249	3,266 105 229	278 10 25	289 10 24	310 11 27	246 8 20	265 8 16	293 10 19	260 9 21	296 9 24	322 11 30	271 11 31	292 11 28			
0.10 1.0000 1.000				EXTI												
FABRIC																
Voven fabric, finishing plants: Production (finished fabric) mil. linear yd.,	8,065	8,420	602	641	³825	639	³736	629	684	³891	699	686	r3663	520		
Cotton do Manmade and silk fiber do	3,107 4,957	3,531 4,990	248 354	268 373	3340 3485	251 388	³286 ³450	244 385	265 420	³ 341 ³ 550	683 268 415	267 419	*3335 *528	190 330		
Inventories held at end of period do	828	769	795	777	800	867	769	785	801	786	778	777	r730	743		
Cotton do Manmade and silk fiber do	351 477	339 430	353 442	332 445	346 454	356 451	339 430	341 444	343 458	338 448	343 435	341 436	r315 r415	316 427		
Backlog of finished orders	9,408 4,838	8,495 4,577	694 363	660 343	681 347	696 365	660 342	790	827 451	809 441	832 444	839 446	r761 375	786 388		
Cotton do Manmade and silk fiber do	4,569	4,219	331	317	334	331	318	428 362	376	368	388	393	r386	398		
COTTON																
otton (excluding linters): Production: Ginnings ¶thous running bales	² 10,826	²10,826	1 582	1,312	4,599	47,840	49,873			11 100				44	427	1,1,
Consumption thous running bales.	² 14,629 6,140	² 11,122 6,135	478	487	3443	456	³597	458	475	11,122 3539	435	441	³531	r384	428	15,
Stocks in the United States, total, end of period # thous. running bales	12,933	9,261	13,290	12,443	10,948	10,271	9,261	8,328	7,201	5,938	5,007	4,109	3,217	2,586		
Domestic cotton, total	12,929 3,937 8,160	9,260 2,502 5,927	13,288 10,890 1,509	12,441 10,080 1,578	10,946 7,024 3,180	10,270 4,451 5,070	9,260 2,502 5,927 831	8,326 1,534 5,846 946	7,200 1,054 1,509	5,937 606 4,227 1,104	5,006 460 3,469 1,770	4,108 278 2,808 1,022	3,216 81 2,202 933	2,585 25 1,684 876		

Unless otherwise stated in footnotes below, data	1979	1980			1980			:				1981				
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	nual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
		TI	EXTII	E PI	RODU	JCTS	—Cor	ıtinue	ed							
COTTON AND MANUFACTURES—Cont.						_			_							
Cotton (excluding linters)—Continued Exportsthous running bales Importsthous net-weight bales § Price (farm), American upland \$\existsim \cdots \text{cents per lb.}\$ Price, Strict Low Middling, Grade 41, staple 34 (1-1/16"), average 10 marketscents per lb.	¹ 6,649 6,127 63.1 ³ 61.6	7,975 15,816 76.1 ³ 71.5	402 0 80.1 85.6	393 2 81.4 87.5	237 1 75.3 85.8	436 5 77.6 87.0	541 5 80.9 87.2	669 1 76.9 85.1	2,352 6 71.4 83.3	733 8 72.3 81.5	498 (⁷) 73.2 81.2	458 (⁷) 72.3 78.5	320 (⁷) 71.1 78.1	264 70.2 75.1		62.8
Spindle activity (cotton system spindles): Active spindles, last working day, total mil. Consuming 100 percent cotton do. Spindle hours operated, all fibers, total bil. Average per working day do. Consuming 100 percent cotton do.	16.2 6.4 102.0 0.393 41.7	15.9 6.0 102.4 0.388 42.0	16.1 6.2 7.6 0.378 3.2	15.7 6.2 7.3 0.367 3.2	16.1 6.1 410.0 0.398 44.1	16.0 6.0 8.0 0.399 3.4	15.9 6.0 ⁴ 8.3 0.333 ⁴ 3.3	15.9 5.9 7.3 0.397 3.4	15.9 5.9 7.4 0.371 2.7	15.7 5.8 49.2 0.366 43.3	15.8 5.9 7.3 0.365 2.7	15.6 5.8 7.4 0.372 2.7	15.6 5.7 *48.9 0.358 43.2	15.3 *5.7 6.8 0.338 2.4	5.6	
Cotton cloth: Cotton broadwoven goods over 12" in width:																
Production (qtrly.) mil. sq. yd Orders, unfilled, end of period, compared with avg. weekly production no. weeks' prod Inventories, end of period, compared with	⁵ 18.9	⁵ 15.8	13.2	996 12.8	12.2	11.3	1,072 14.0	12.8	13.3	993 14.7	13.7	13.8	13.4			
avg. weekly production no. weeks' prod Ratio of stocks to unfilled orders (at cotton	*3.7 *0.20	54.2 50.29	4.2 0.32	3.8 0.30	4.3 0.35	3.9 0.34	5.7 0.40	0.40	5.4 0.40	4.8 0.33	4.8 0.35	5.2 0.38	5.5 0.38	***************************************		
mills), end of period Exports, raw cotton equiv. thous. net-weight §bales	627.7	540.2	44.3	48.0	42.0	.38.4	40.9	34.8	28.2	35.8	35.7	30.9	30.8	21.7	25.8	
Imports, raw cotton equivalentdo MANMADE FIBERS AND MANUFACTURES	505.5	567.0	41.3	49.4	44.7	43.2	38.7	74.9	68.4	66.9	57.4	56.8	61.3	58.0	62.3	
Fiber production, qtrly: Filament yarn (acetate)mil. lb	316.6	308.5		77.5			68.9			61.4			75.0			
Staple, incl. tow (rayon)	549.4 4,136.3	443.3 3,725.3		101.0 816.6			102.0			116.3 979.2			114.1 1,011.1			•
Staple, incl. tow do Textile glass fiber do	4,282.3 1,014.4	4,148.2 867.3		959.4 183.3			1,143.9 217.7			1,083.0 1237.1			1,116.0 260.2			
Fiber stocks, producers', end of period: Filament yarn (acetate)	11.8 35.6	18.4 27.2		17.7 34.8			18.4 27.2			15.8 29.3			12.1 23.7			
Yarn and monofilaments do Staple, incl. tow do Textile glass fiber do	379.8 311.1 152.5	289.3 287.0 104.1		312.7 285.4 149.7			289.3 287.0 104.1			292.6 318.1 109.0			291.6 312.9 87.9			
Manmade fiber and silk broadwoven fabrics: Production (qtrly.), total #mil. sq. yd Filament yard (100%) fabrics #do Chiefly rayon and/or acetate fabricsdo				*245.7 *889.1 *122.1			2,935.5 1,108.6 131.4			2,862.2 1,017.2 138.3						
Chiefly nylon fabrics				*123.9 *1,377.2 *83.6 *1,013.7 *163.7			136.0 1,574.3 159.0 1,112.6 218.3			125.9 1,596.7 174.5 1,107.2 214.1						
mills: Ratio, stocks to unfilled orders, end of period Prices, manufacturer to mfr., f.o.b. mill: 50/50 polyester/carded cotton printcloth, gray, 48°, 3.90 yds./b., 78x54-56	*0.22	0.510	0.494	0.513	0.551	0.593	0.575	0.569	0.564	0.568	0.581	0.576	0.574			
Manmade fiber manufactures: Exports, manmade fiber equivalent mil. lbs Yarn, tops, thread, cloth do Cloth, woven do	596.58 371.44 228.63	771.54 418.64 249.77	63.79 35.77 22.00 28.02	63.29 33.15 20.95	75.94 43.66 27.14	64.97 35.64 20.92	64.27 37.00 21.97	53.16 28.16 17.44	53.50 27.84 18.23	67.33 33.72 21.67	64.83 35.76 24.59	58.05 27.53 18.20	58.78 28.13 18.71	47.59 24.03 15.84	49.70 24.24 15.75	
Manufactured prods., apparel, furnishings do Imports, manmade fiber equivalent	225.13 524.97 102.18 64.58 422.79 359.61 184.50	352.91 540.64 97.48 67.28 2443.15 378.52 187.74	50.18 7.55 5.69 42.64 37.62 19.38	30.14 52.11 7.96 5.72 44.15 38.26 19.20	32.28 49.19 7.45 5.57 41.73 36.10 18.89	29.33 40.10 7.27 5.12 32.83 27.71 12.08	27.26 35.46 7.36 5.06 29.10 22.74 8.77	24.67 46.72 10.17 7.00 36.55 31.03 12.23	25.38 38.55 8.04 5.50 30.50 25.64 10.09	33.16 43.81 11.86 8.91 31.94 26.70 10.51	28.82 45.53 10.87 7.73 34.67 29.30 12.51	30.21 57.83 13.11 9.34 44.72 36.66 16.95	30.30 58.01 11.34 8.59 46.67 41.06 17.68	23.56 66.66 12.43 9.25 54.23 48.44 21.52	25.47 69.32 12.05 8.98 57.27 49.85 21.90	
WOOL AND MANUFACTURES Wool consumption, mill (clean basis): Apparel class mil. lb Carpet class do Wool imports, clean yield do Duty-free (carpet class) do	106.5 10.5 42.3 22.0	113.4 10.0 56.5 26.0	8.4 0.9 4.8 2.0	7.7 r0.8 4.1 1.2	410.8 r40.9 3.9 1.2	8.8 0.6 3.6 1.5	410.0 40.6 4.0 1.6	10.2 *0.8 6.9 2.7	11.0 0.8 7.7 2.5	*12.9 *0.9 6.6 1.8	10.8 0.7 7.5 1.9	10.2 0.8 8.6 2.4	r412.8 40.9 4.9 2.1	8.4 0.7 r6.5 r2.8	r5.3 r2.5	
Wool prices, raw, shorn, clean basis, delivered to U.S. mills: Domestic—Graded territory, 64's, staple 2-3/4" and upcents per lb Australian, 64's, Type 62, duty-paid	*2.18 *2.77	*2.45 *3.09	2.51 3.06	2.53 3.11	2.53 3.06	2.53 3.20	2.53 3.21	2.53 3.19	2.68 3.12	2.74 3.07	2.78 3.14	2.78 3.16	2.83 3.19	2.83 3.23	2.83 3.20	2.83 3.16
Wool broadwoven goods, exc. felts: Production (qtrly.)				43.7			40.0			53.7	5.14					
FLOOR COVERINGS Carpet, rugs, carpeting (woven, tufted, other),																
shipments, quarterly mil. sq. yds APPAREL	1,206.0	1,082.2		253.0			276.9			255.1			284.3			
Women's, misses', juniors' apparel cuttings: Coats	17,394 169,697 25,275 63,648 24,932	19,199 168,383 21,140 73,608 25,781	2,213 13,177 1,957 6,576 2,216	1,962 11,953 2,357 6,876 2,246	1,926 11,993 1,954 6,972 2,349	1,589 9,785 1,391 6,432 2,117	1,163 9,267 1,229 5,904 1,912	1,280 10,580 1,371 7,824 2,225	1,136 12,246 1,404 9,096 2,413	1,143 14,094 1,411 9,540 2,489	1,457 12,734 1,306 8,628 2,275	1,684 11,150 1,308 8,304 2,231	1,773 11,285 1,391 19,348 2,203	9,528 1,299 7,104		

Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980			1980						,	1981				
in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
		TI	EXTII	E PF	RODU	JCTS-	–Con	tinue	ed							
APPAREL—Continued						Ü										
Men's apparel cuttings: thous units Suits thous units Coats (separate), dress and sport do Trousers (separate), dress do Slacks (jean cut), casual do Shirts, dress and sport thous. doz. Hosiery, shipments thous. doz. pairs	15,935 14,329 124,688 208,368 38,895 290,453	14,471 17,985 122,399 211,112 36,662 286,379	1,203 1,428 11,419 18,249 2,972 23,770	1,262 1,739 11,403 22,061 3,060 22,754	1,467 1,810 12,567 18,745 3,082 26,371	1,236 1,506 10,696 15,982 2,672 23,193	1,105 1,299 7,917 13,005 2,147 21,689	1,211 1,484 9,025 15,909 2,535 23,721	1,044 1,637 9,348 12,977 2,527 24,531	1,294 1,571 10,685 15,990 2,634 24,265	1,320 1,689 11,204 13,324 2,550 26,119	1,405 1,536 11,366 12,231 r2,514 25,192	*1,432 *1,675 *10,927 *12,240 *2,427 26,405	935 1,256 7,762 11,449 1,973 30,233	26,850	
		TR	ANS	POR	ГАТІ	ON E	QUIF	PMEN	IT	<u></u>						
AEROSPACE VEHICLES					· ·											·
Orders, new (net), qtrly, total @ mil. \$. U.S. Government do Prime contract do Sales (net), receipts, or billings, qtrly, total do U.S. Government do	65,208 28,107 59,611 46,173 23,229	70,847 33,222 68,162 57,605 26,141		17,301 8,168 16,764 14,405 6,588			19,355 10,197 18,638 16,433 7,201			19,765 9,820 19,244 16,110 7,467			20,287 9,851 19,826 19,502 7,929			
Backlog of orders, end of period #	78,259 36,136 41,286 9,198	95,371 41,513 47,857 11,655		92,224 38,507 48,039 12,190			95,371 41,513 47,857 11,655			94,751 39,516 50,051 11,801			95,535 41,438 49,789 12,592			
sion units, and parts mil. \$ Other related operations (conversions, modifications), products, services mil. \$	7,387 10,725	8,855 10,871		7,854 9,877			8,855 10,871			8,806 11,063			8,429 11,776			
Aircraft (complete); do Shipments # #	11,186.1 77,327 6,149	13,120.4 97,327 8,250	717.1 5,571 522	1,305.0 10,343 792	1,191.1 8,613 705	1,232.1 8,752 726	1,195.5 8,433 1,020	744.7 5,007 337	1,067.8 8,037 751	1,355.3 9,216 963	1,501.8 10,204 1,049	1,330.5 9,239 746	°1,492.4 °9,312 916	720.9 5,063 413	608	
Passenger cars: Factory sales (from U.S. plants), totalthous Domestic	48,419 47,678	³6,400 5,840	299 280	529 487	675 623	560 517	490 452	439 407	475 432	620 565	645 589	670 608	712 652	⁵ 13 472	²408	24 54
Retail sales, total, not seasonally adj †	10,559 8,232 2,329	8,979 6,581 2,398	686 487 199 8.8 6.6	672 486 186 8.4 6.2	848 664 183 9.2 6.8	698 530 169 9.2 6.7	649 472 178 8.8 6.3	648 470 178 9.6 7.0	764 544 220 10.4 7.5	963 719 244 10.3 7.7	751 534 218 8.0 5.8	734 524 210 7.9 5.7	724 518 206 7.5 5.2	706 497 209 8.2 5.9	801 602 199 10.4 8.2	681 519 162 8.7 6.7
Imports \$	1,691 1,667	1,520 1,438	1,337 1,380	2.2 1,373 1,393	2.4 1,456 1,392	2.5 1,513 1,413	2.5 1,520 1,438	2.5 1,421 1,335	2.9 1,335 1,210	2.6 1,216 1,090	1,344 1,198	2.2 1,472 1,313	2.2 1,665 1,472	2.3 1,675 1,616	2.2 1,486 1,568	1,427 1,438
Inventory-retail sales ratio, domestics § †	2.6 779.16 590.95 3,005.5 677.0	2.7 607.80 509.13 3,310.7 594.8	2.5 22.61 18.78 230.0 21.8	2.7 41.64 35.48 252.8 41.9	2.5 58.39 51.09 276.9 66.1	2.5 46.95 39.78 271.5 63.3	2.7 40.46 32.45 253.0 49.9	2.3 31.02 23.71 276.5 35.6	1.9 52.82 46.31 209.0 29.5	1.7 60.36 53.12 306.6 53.9	2.5 58.52 52.65 282.3 55.6	2.7 63.81 58.32 254.1 56.0	3.4 57.84 51.87 282.4 59.8	3.3 49.85 45.96 250.1 41.0	2.3 31.79 29.00 259.2 33.8	2.6
Registrations ¶, total new vehicles do Imports, incl. domestically sponsored do	10,357 2,351	8,761 2,469	704 215	702 212	747 196	730 187	711 188	636 174	675 200	849 226	752 228	731 224	747 223	690 207	721 206	
Trucks and buses: Factory sales (from U.S. plants), totalthous Domestic	3,037 2,741	³1,667 1,464	84 73	134 120	186 168	155 140	149 132	140 126	135 118	167 146	162 142	159 139	180 161	*127 111	²89	² 127
Retail sales, seasonally adjusted:† Light-duty, up to 14,000 lbs. GVW	2,861.0 151.6 223.2	1,963.5 92.3 175.7	156.5 8.1 16.9	147.9 9.0 15.3	143.1 7.1 14.3	151.7 6.3 12.9	145.7 6.6 13.6	153.0 8.6 13.5	156.5 6.4 12.4	149.0 6.2 13.8	150.8 8.7 14.5	157.3 6.3 11.6	152.1 5.2 11.5	141.9 6.3 12.0	164.1 6.1 12.8	
Retail inventories, end of period, seasonally adjusted†	803.4 259.44 974.13	574.0 *190.32 1,133.28	522.7 13.33 90.89	524.1 13.21 89.86	554.2 14.94 110.44	570.5 14.08 77.93	590.5 14.08 62.17	575.2 12.96 88.30	548.5 19.65 46.10	547.7 20.01 70.72	541.5 16.21 63.66	546.4 17.81 72.87	559.0 17.44 68.24	576.5 12.38 64.05	523.9 11.19 67.49	
Registrations, new vehicles, excluding buses not produced on truck chassisthous	3,472	2,477	196	190	185	190	191	162	163	176	186	198	201	190	194	
Truck trailers and chassis, complete (excludes detachables), shipments	209,522 138,484 9,154 14,700	125,278 75,172 11,849 14,202	8,493 5,209 638 1,070	9,429 5,832 1,244 1,053	10,268 6,139 1,227 1,443	9,116 5,656 1,161 1,179	9,996 6,230 1,175 1,083	9,186 5,936 614 1,074	8,311 4,696 835 1,332	9,490 5,211 545 2,662	9,980 5,751 1,009 885	10,076 5,810 1,072 1,105	*11,313 6,710 *696 *1,077	8,795 4,790 459 848		
Freight cars (new), for domestic use; all railroads and private car lines (excludes rebuilt cars and																
cars for export): number. Shipments	190,021 183,931 1119,091 1113,060 119,001 112,749	185,920 180,357 145,390 140,140 51,640 47,136	6,994 6,158 72,569 2,531 767,769 62,652	6,947 6,596 4,406 4,406 66,007 59,806	7,368 6,956 2,047 1,847 59,378 53,389	4,945 4,574 3,930 3,230 57,655 51,337	5,530 5,151 4,722 4,722 51,640 47,136	5,336 5,064 2,147 2,147 48,451 44,219	4,709 4,401 2,069 2,069 45,121 41,197	5,162 4,718 1,559 1,559 41,539 38,059	4,245 3,792 1,762 1,737 38,972 35,920	4,143 3,779 1,791 1,791 35,588 32,900	3,781 3,442 1,155 927 32,321 29,744	2,983 2,864 1,315 1,315 26,267 23,809	3,184 2,971 798 798 23,648 21,403	
Freight cars (revenue), class 1 railroads (AAR): ‡ Number owned, end of period	1,217 8.0 94.47 77.62	1,168 8.8 92.56 79.24	1,184 8.8 93.27 78.75	1,180 8.9 93.06 78.83	1,177 8.8 93.61 79.09	1,172 8.7 93.06 79.38	1,168 8.8 92.56 79.24	1,166 8.1 92.47 79.32	1,163 8.0 92.35 79.42	1,162 8.0 92.37 79.49	1,146 8.0 91.07 79.49	1,143 8.1 91.18 79.75	1,137 7.7 90.67 79.78	1,130 7.7 90.32 79.92	1,124 7.6 89.92	

FOOTNOTES FOR PAGES S-1 THROUGH S-36 General Notes for all Pages:

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

Page S-1

- 1. Estimates (corrected for systematic biases) for July-Sept. and Oct.-Dec. 1981 based on planned capital expenditures of business. Planned capital expenditures for the year 1981 appear on p. 25 of the Sept. 1981 SURVEY.
- The estimates for plant and equipment expenditures have been revised. An article describing that revision and containing revised estimates for 1947-77 begins on p. 24 of the Oct. 1980
- ¶ Data for the individual durable and nondurable goods industries appear in the Mar., June, Sept., and Dec. issues of the SURVEY.

Page S-2

- † Revised series. Estimates of personal income have been revised as part of the 1980 benchmark revision of the national income and product accounts. An article describing that revision appears in the Dec. 1980 Survey. Data for 1976-79 are available in a special supplement to the Survey. Pre-1976 data will be published in The National Income and Product Accounts of the United States, 1929-76: Statistical Tables.
- ‡ Includes inventory valuation and capital consumption adjustments.
- New series. Detailed descriptions begin on p. 18 of the Nov. 1979 Survey. See note "†" for this page for information on historical data.
- § Monthly estimates equal the centered three-month average of personal saving as a percentage of the centered three-month moving average of disposable personal income.
- # Includes data for items not shown separately.

Page S-3

- 1. Based on data not seasonally adjusted
- # Includes data not shown separately.
- ‡ Revised series. For wholesale see note "†" for p. S-9. For manufacturing see note "†" for p. S-4. For retail see note "†" for p. S-10.

- \$ See note "†" for p. S-10.

 \$ See note "†" for p. S-10.

 \$ See note "†" for p. S-9.

 * New series. Data back to 1967 are available from the National Income and Wealth Division, Bureau of Economic Analysis.

Page S-4

- 1. Based on data not seasonally adjusted.
- ‡ Revised series. Data for both the manufacturing and retail sectors have been revised. For manufacturing see note "†" for this page. For retail see note "†" for p. S-10.
- † Revised series. Data have been revised back to 1972. A detailed description of this revision and historical data appear in the report "Manufacturers' Shipments, Inventories, and Orders" M3-1.10 (1972-1980), available from the Bureau of the Census, Washington, D.C. 20233.
 - § See note "+" for p. S-10.
 - @ See note "+" for p. S-9.
- * New series. Data back to 1967 are available from the National Income and Wealth Division, Bureau of Economic Analysis.
- ¶ Effective September 1981 SURVEY, data for Manufacturers' Export Sales and Orders of Durable Goods have been discontinued due to both budgetary limitations and a continuing deterioration in the quality of the data.
- # Includes data for items not shown separately.

Page S-5

- 1. Based on data not seasonally adjusted.
- See note "†" for p. S-4.
- Includes data for items not shown separately.
- Includes textile mill products, leather and products, paper and allied products, and printing and publishing industries; unfilled orders for other nondurable goods industries are
- ¶ For these industries (food and kindred products, tobacco, apparel and other textile products, petroleum and coal, chemicals and allied products, and rubber and plastics products) sales are considered equal to new orders.

Page S-6

- 1. Based on unadjusted data.
- This series has been discontinued.
- [‡] Compiled by Dun & Bradstreet, Inc.
- Includes data for items not shown separately. Ratio of prices received to prices paid (parity index).
- Revisions, back to 1975 for some commodities, are available upon request.

Page S-7

- 1. Annual average computed by BEA.
- 2. Indexes are no longer available.
- § For actual producer prices of individual commodities see respective commodities in the Industry section beginning p. S-22. All data subject to revision four months after original publication.
- † Revised series. Stage-of-processing producer price indexes have been revised back to 1976 to reflect updated industry input-output relationships and improved classification of some products.
 - # Includes data for items not shown separately.
 - ‡ Effective Feb. 1981, data have been revised back to 1976 to reflect new seasonal factors.

Page S-8

- 1. Computed from cumulative valuation total.
- 2. Data shown here are based on 1980 seasonal factors. Effective Jan. 1981, data are no longer seasonally adjusted.
 - # Includes data for items not shown separately.
- § Data for Oct. 1980, and Jan., Apr., and July 1981 are for five weeks; other months four weeks.

Page S-9

- 1. Index as of Oct. 1, 1981; building, 319.1; construction, 341.9.
- ¶ Home mortgage rates (conventional first mortgages) are under money and interest rates on p. S-15.
 - § Data include guaranteed direct loans sold.
- Effective April 1981 Survey, wholesale trade data have been revised for Jan. 1973-Jan. 1981. Revised data are available upon request.

Page S-10

- 1. Advance estimate.
- 2. Effective Jan. 1979 data, sales of mail-order houses are included with department store
- † Effective April 1981 Survey, retail trade data have been revised for the years 1971-1980. Revised data and a summary of the changes are available from the Census Bureau, Washington, D.C. 20233.
- # Includes data for items not shown separately.

Page S-11

- 1. As of July 1.
- The accounts receivable series have been discontinued.
- # Includes data for items not shown separately
- Revisions for Jan. 1977-Oct. 1979 appear in "Current Population Reports," Series P-25, No. 870, Bureau of the Census.
- † Effective July 1981 Survey, data have been revised to reflect new benchmarks and new seasonal adjustment factors. See "BLS Establishment Estimates Revised to March 1980 Benchmarks," in the July 1981 issue of Employment and Earnings.
- ¶ Effective with the Feb. 1981 Survey, the labor force series reflect new seasonal factors. Data have been revised back to 1976; comparable monthly data for 1976-80 appear in the Feb. 1981 issue of Employment and Earnings, U.S. Department of Labor, Bureau of Labor Statistics.
- New series. The participation rate is the percent of the civilian noninstitutional population in the civilian labor force. The employment-population ratio is employment as a percent of the total noninstitutional population, 16 years and over.

Page S-12

- See corresponding note on p. S-11.
- § Effective October 1978 Survey, includes data formerly shown separately under ordnance and accessories.
- @ Formerly shown as Electrical equipment and supplies.
- ¶ Production and nonsupervisory workers.
- ‡ This series is not seasonally adjusted because the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

Page S-13

- † See note "†" on p. S-11.
- § See note "§" on p. S-12.
- @ See note "@" on p. S-12. ‡ See note "‡" on p. S-12.
- ¶ Production and nonsupervisory workers.

Page S-14

- See corresponding note on p. S-11.
- Production and nonsupervisory workers.
- ‡ Earnings in 1967 dollars reflect changes in purchasing power since 1967 by dividing by Consumer Price Index.
 - Wages as of Oct. 1, 1981: Common, \$13.62; Skilled, \$17.66.
- # Includes data for items not shown separately.
- @ Insured unemployment (all programs) data include claims filed under extended duration provisions of regular State laws; amounts paid under these programs are excluded from state benefits paid data.
- @@ Insured unemployment as a percent of average covered employment in a 12-month

Page S-15

- 1. Average for Dec.
- Average for the year.
- Daily average.
- 4. Beginning Jan. 1981, data are for top-rated only. Prior data cover a range of top-rated and regional dealer closing rates.
 - # Includes data for items not shown separately.
- For demand deposits, the term "adjusted" denotes demand deposits other than domestic commercial bank and U.S. Government, less cash items in process of collection; for loans, exclusive of loans to and Federal funds transactions with domestic commercial banks and include valuation reserves (individual loan items are shown gross; i.e. before deduction of valuation reserves).
- ¶ Adjusted to exclude domestic commercial interbank loans and Federal funds sold to domestic commercial banks
- New series. Beginning Dec. 1978, data are for all investment account securities; comparable data for earlier periods are not available.
- ‡‡ Rates on the commercial paper placed for firms whose bond rating is Aa or the equivalent. Data through Oct. 1979 show a maturity for 120-179 days. Beginning Nov. 1979, matu-
- @ Data through Oct, 1979 show a maturity for 150-179 days. Beginning Nov. 1979, maturity is for 180 days.

Page S-16

- 1. Data are for fiscal years ending Sept. 30 and include revisions not distributed to the months
- # Includes data for items not shown separately.

 § The Department of Health, Education, and Welfare was redesignated as the Department of Health and Human Services by the Department of Education Organization Act.

Page S-17

- 1. Total for Jan.-May and Oct.-Dec.
- Total for 11 months; production not available for Aug.
- The money stock measures M3 and L have been revised back through 1978. The monthly data prior to Aug. 1980, and 1978-1980 annuals will be available later.
 - Or increase in earmarked gold (-).
- The Federal Reserve has redefined the monetary aggregates. The redefinition was prompted by the emergence in recent years of new monetary assets—for example, negotiable order of withdrawal (NOW) accounts and money market mutual fund shares—and alterations in the basic character of established monetary assets—for example, the growing similarity of and substitution between the deposits of thrift institutions and those of commercial banks. Monthly data from 1959 to date are available from the Banking Section of the Division of Research and Statistics at the Federal Reserve Board, Washington, D.C. 20551.
 - ‡ Composition of the money stock measures is as follows:
- M1-A.—This measure is currency plus demand deposits at commercial banks. It is essentially the same as the old M1 except that it excludes demand deposits held by foreign commercial banks and official institutions.
- M1-B.—This equals M1-A plus interest-earning checkable deposits at all depositary institutions-namely NOW accounts, automatic transfer from savings (ATS) accounts, and credit union share draft balances—as well as a small amount of demand deposits at thrift institutions that cannot, using present data sources, be separated from interest-earning checkable
- M2.—This measure adds to M1-B overnight repurchase agreements (RP's) issued by commercial banks and certain overnight Eurodollars (those issued by Caribbean branches of member banks) held by U.S. nonbank residents, money market mutual fund shares, and sayings and small-denomination time deposits (those issued in denominations of less than \$100,000) at all depositary institutions. Depositary institutions are commercial banks (including U.S. agencies and branches of foreign banks, Edge Act corporations, and foreign investment companies), mutual savings banks, savings and loan associations, and credit unions.
- M3.—This measure equals M2 plus large-denomination time deposits (those issued in denominations of \$100,000 or more) at all depositary institutions (including negotiable CD's) plus term RP's issued by commercial banks and savings and loan associations.
- L.—This broad measure of liquid assets equals M3 plus other liquid assets consisting of other Eurodollar holdings of U.S. nonbank residents, bankers acceptances, commercial paper, savings bonds, and marketable liquid Treasury obligations.
- ‡‡ Includes ATS and NOW balances at all institutions, credit union share draft balances, and demand deposits at mutual savings banks.

 * Overnight (and continuing contract) RP's are those issued by commercial banks to the
- nonbank public, and overnight Eurodollars are those issued by Caribbean branches of member banks to U.S. nonbank customers.
- @ Small time deposits are those issued in amounts of less than \$100,000. Large time deposits are those issued in amounts of \$100,000 or more and are net of the holdings of domestic banks, thrift institutions, the U.S. Government, money market mutual funds, and foreign banks and official institutions.
 - # Includes data for items not shown separately

Page S-18

- 1. Beginning Jan. 1981 data, U.S. Virgin Islands trade with foreign countries is included.
- § Number of issues represents number currently used; the change in number does not affect the continuity of the series.
 - ‡ For bonds due or callable in 10 years or more.
 - # Includes data for items not shown separately.
- @ Data may not equal the sum of the geographic regions, or commodity groups and principal commodities, because of revisions to the totals not reflected in the component

Page S-19

- 1. See note 1 for p. S-18.
- # Includes data not shown separately.
- § Data may not equal the sum of geographic regions, or commodity groups and principal commodities, because of revisions to the totals not reflected in the components.

Page S-20

- 1. See note 1 for p. S-18.
- # Includes data not shown separately.

Page S-21

- 1. Domestic trunk operations only (averaging about 90 percent of domestic total).
- Annual total; quarterly or monthly revisions are not available.
- Before extraordinary and prior period items.
- For month shown.
- Beginning Jan. 1980 data, another company is included.
- # Includes data for items not shown separately.
- § Total revenues, expenses, and income for all groups of carriers also reflect nonscheduled
- ‡ Beginning Jan. 1977, defined as those having operating revenues of \$50 million or more.
- Average daily rent per room occupied, not scheduled rates.

Page S-22

- 1. Reported annual total; monthly revisions are not available.
- Data withheld to avoid disclosing operations of individual companies.
- 3. Beginning Jan. 1979, data include chemically-treated fertilizer and sodium nitrate containing over 16.3% nitrogen by weight; not strictly comparable with data shown for earlier periods.

- 4. Annual total for monthly data where available; not comparable with earlier periods.
 5. See note "¶" for this page.
 6. Data beginning Jan. 1979 are for value of shipments and comprise three new product categories. Comparable data for these new categories are not available prior to Jan. 1979. However, the difference between total value of shipments and total factory sales (formerly shown) is considered statistically insignificant.
- 7. Beginning Jan. 1981, data represent gross weight (formerly phosphoric acid content weight) and are not comparable with data shown for earlier periods.
- 8. Represents solutions containing ammonia and ammonia nitrate/urea solutions; not comparable with other published data.
 - Includes data for items not shown separately.
- § Data are reported on the basis of 100 percent content of the specified material unless otherwise indicated.
- ‡ Revisions, back to 1977 for some commodities, are available upon request.
- Data for Jan. 1977-June 1979 exclude potassium magnesium sulfate; not strictly comparable with data shown for other periods.

Page S-23

- 1. Includes Hawaii; not distributed to the months.
- 2. Reported annual total, including Hawaii; monthly data are preliminary and subject to change.
- § Data are not wholly comparable from year to year because of changes from one classification to another.
- @ Revisions, back to 1978 for some commodities, are available upon request.
- ‡ Revisions back to 1977 are available upon request.

Page S-24

- 1. See note "@@" for this page.
- Crop estimate for the year.
- Stocks as of June 1.
- 4. Stocks as of June 1 and represents previous year's crop; new crop not reported ur.til June (beginning of new crop year).
 - 5. Previous year's crop; new crop not reported until Oct. (beginning of new crop year).
 - Data are no longer available.
 - Sept. 1 estimate of the 1981 crop.
 - Excludes pearl barley.
- Bags of 100 lbs.
- Revised crop estimates back to 1975 are available upon request.
- @ Revisions, back to 1977, for some commodities, are available upon request.
- ‡ Revisions back to 1975 are available upon request.
- @@ Data are quarterly except for June (covering Apr. and May) and Sept. (covering June-Sept.).

Page S-25

- 1. Average for 11 months; price not available for Dec.
- 2. Prices for Jan.-Mar. 1979 are estimated; actual price not available. Annual average for 1979 is based on actual price (Apr.-Dec.)
- 3. Average for nine months; index not available for Apr.-June.
- § Cases of 30 dozen.
- ¶ Bags of 132.276 lbs
- ‡ Revisions for Jan.-July 1979 (back to 1975 for grindings of wheat) are available upon
- @ Revisions back to 1977 are available upon request.
- # Effective Apr. 1981 Survey, the wholesale price of smoked hams has been discontinued and has been replaced with the comparable price index. Annual indexes prior to 1979 and monthly indexes prior to Feb. 1980 are available upon request.

Page S-26

- 1. Beginning Sept. 1979, estimated prices are derived from a different source and are not comparable with prices shown for earlier periods. Annual average for 1979 represents Sept.-Dec.
- Crop estimate for the year.
- 3. Reported annual total; not distributed to the months
- 4. Sept. 1 estimate of the 1981 crop.
- § Monthly data reflect cumulative revisions for prior periods.
- @ Producers' and warehouse stocks.
- ¶ Factory and warehouse stocks.
- ‡ Revisions back to 1975 are available upon request.

Page S-27

- 1. Annual total; monthly revisions are not available.
- * New series. Source: Bureau of Labor Statistics.
- # Totals include data for items not shown separately.

Page S-28

- 1. Annual data; monthly revisions not available.
- 2. Less than 500 short tons.
- 3. Effective Jan. 1980, data are no longer available.

Page S-29

- 1. Annual data; monthly revisions are not available.
- 2. For month shown.
- 3. Copper refinery production from domestic and foreign ores are not shown to avoid disclosing information for individual firms. The source reports 79,039 metric tons of domestic ores and 14,623 metric tons of foreign ores for the period July-Sept. 1980.

Page S-30

- 1. Annual data; monthly revisions are not available.
- Less than 50 tons.
- 3. Data are for five weeks; other months 4 weeks.
- 4. For month shown.
- \P Includes secondary smelters' lead stocks in refinery shapes and in copper-base scrap. @ All data (except annual production figures) reflect GSA remelted zinc and zinc purchased for direct shipment.
- ‡ Source for monthly data: American Bureau of Metal Statistics. Source for annual data: Bureau of Mines.
- Includes data not shown separately.
- Effective July 1980 SURVEY, data are revised and shown on a new base. The sample size has been restored to 100 firms and the base has been changed to 1977 = 100. The revised series are not comparable to previously published data.

 * New series. These indexes are based on shipments of hydraulic and pneumatic products
- reported by participating members of the National Fluid Power Association. Data back to 1959 are available upon request.

Page S-31

- 1. Reflects revisions not available by months.
- 2. Effective Jan. 1980, total stocks for bituminous coal and lignite exclude residential and commercial stocks and are not comparable with data shown for earlier periods.
- 3. Data are available back to Oct. 1977.
- 4. Beginning Jan. 1979, data reflect coverage of additional processing facilities; not strictly comparable with data shown for earlier periods.
- 5. Beginning 1981, data are for quarterly intervals.
- 6. Based on new 1981 stock level. See also "‡" for this page.
- # Includes data for items not shown separately.
- @ Beginning July 1977, data are representive of those manufacturers reporting and are not an average of the total industry; they are not directly comparable with earlier data.
- * New series. Annual data prior to 1978 and monthly data prior to April 1979 are avail-
- § Includes nonmarketable catalyst coke.
- ¶ Includes small amounts of "other hydrocarbons and hydrogen refinery input," not shown
 - † Revisions for 1978 are available upon request.

‡ Effective with 1981 petroleum data, the Energy Information Agency has changed some definitions and concepts to reflect recent developments in refining and blending practices. These changes include adding a category for gasohol production to motor gasoline production and accounting more precisely for distillate and residual fuel oil processed further after initial distillation. A description of these changes appears in the May 1981 issue of *Monthly Energy Review*, U.S. Department of Energy, Energy Information Administration.

Page S-32

- 1. Less than 50 thousand barrels.
- See note 4 for p. S-31
- Reported annual totals; revisions not allocated to the months. See note " \P " for this page.
- 5. Effective April 1981, price represents simple average of Platt's/Lundberg special retail gasoline prices for 48 cities; not strictly comparable with prices shown for earlier periods which represent weighted average price.
- 6. See note 6 for p. S-31.
- Prices are mid-month, include taxes, and represent full service; comparable prices prior to Jan. 1979 are not available.
- Includes data for items not shown separately.
- * New series. See note "¶" for this page. ‡ Except for price data, see note "‡" for p. S-31.

Page S-33

- 1. Reported annual total; not distributed to the months.
- Effective Jan. 1980, data are no longer available.
- Average for 11 months; no price for Aug.
- ¶ Consumption by 525 daily newspapers reporting to the American Newspaper Publishers
- § Monthly data are averages of the 4-week periods ending on the Saturday nearest the end of the month; annual data are as of Dec. 31.
- ‡ Data are monthly or annual totals. Formerly weekly averages were shown.

Page S-34

- 1. Reported annual total; revisions not allocated to the months.
- Crop for the year.
- Data cover five weeks; other months, four weeks.
- Cumulative total for the 1980 crop.
- Data are not available prior to Jan. 1980.
- New series. Data for finishing mills have replaced data for weaving mills, which are no longer available.
- # Includes data for items not shown separately
- ¶ Cumulative ginnings to the end of month indicated. § Bales of 480 lbs.

Page S-35

- 1. Effective Jan. 1, 1978, includes reexports, formerly excluded.
- Annual total includes revisions not distributed to the months.
- Average for crop year; Aug. 1-Jul. 31
- For five weeks; other months four weeks
- Monthly average.
- Average for 11 months; no price for Oct.
- Less than 500 bales.
- Effective Aug. 1981 Survey, data are restated to represent millions of square yards.
- Based on 480-lb. bales, preliminary price reflects sales as of the 15th; revised price reflects total quantity purchased and dollars paid for the entire month (revised price includes discounts and premiums).
- # Includes data not shown separately

Page S-36

- 1. Annual total includes revisions not distributed to the months.
- Estimates of production, not factory sales.
- 3. Effective Jan. 1980, passenger vans previously reported as passenger cars are now included with trucks
- 4. Effective Jan. 1979, data are not directly comparable with data shown for earlier periods because of the inclusion of Volkswagens produced in the U.S.
- 5. Monthly data for 1980 exclude exports for off-highway trucks; not strictly comparable with data shown for other periods.
- Total includes backlog for nonrelated products and services and basic research.
- Domestics comprise all cars assembled in the U.S. and cars assembled in Canada and imported to the U.S. under the provisions of the Automotive Products Trade Act of 1965. Imports comprise all other cars.
- ¶ Courtesy of R.L. Polk & Co.; republication prohibited. Because data for some states are not available, month-to-month comparisons are not strictly valid.
 - Excludes railroad-owned private refrigerator cars and private line cars.
- † Revisions, back to 1967 for some commodities, are available upon request. @ In the 1979 BUSINESS STATISTICS, 4th Qtr. 1977 should read "13,946" mil. \$.
- ‡‡ In the 1979 BUSINESS STATISTICS, annual data for 1977 should read "2,604.8"
- ## Revisions back to 1977 are available upon request.

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Cottonseed oil. 26 Cottonseed oil. 26 Cotdit, short- and intermediate-term. 16 Crops. 6, 24, 26, 34	Manufacturing employment, unemployment, production workers, hours, earnings	Variety stores. 10, 11 Vegetable oils 19, 20, 26
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Disputes, industrial	Motor carriers	Wool and wool manufactures. 35
Dividend payments. 2, 17 Drugstores, sales 10, 11	National parks, visits. 21 Newsprint. 20, 33	Zinc

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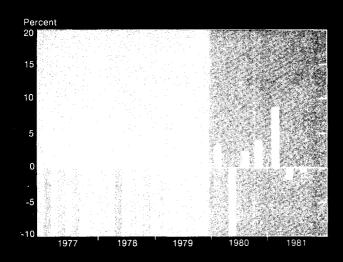
OFFICIAL BUSINESS



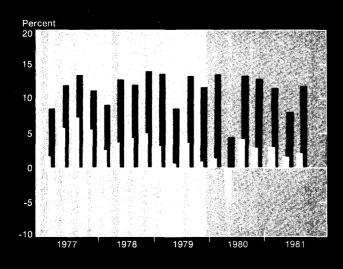
In the third quarter

- Real GNP declined ½ percent
 GNP fixed-weighted price index increased 9 percent
 Real disposable personal income increased 2 percent

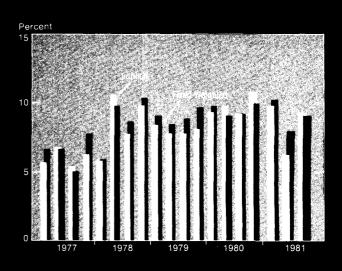
Real GNP



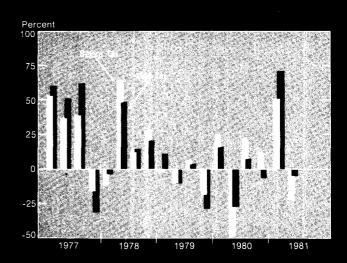
Disposable Personal Income



GNP Prices



Corporate Profits With IVA and CCAdj



Percent change from preceding quarter—seasonally adjusted at annual rates