



UNITED STATES DEPARTMENT OF COMMERCE / BUREAU OF ECONOMIC ANALYSIS

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the BUSINESS SITUATION

KEVISED (45-day) estimates show that real GNP declined 41/2 percent at an annual rate in the fourth quarter of 1981, compared with the 5-percent decline shown by the preliminary (15day) estimates (table 1). The largest upward revisions were in the producers' durable equipment component (due to computers and aircraft) of nonresidential fixed investment, and the Federal purchases component (defense and Commodity Credit Corporation) of government purchases. Personal consumption expenditures (nondurable goods) and change in business inventories (nondurable manufacturing and retail trade) were revised downward. The revisions leave the increase in GNP prices as measured by the fixed-weighted price index at an annual rate of 81/2 percent.

The revisions do not alter the picture of a decline widely spread across GNP components that was described in the January "Business Situation." However, less of the decline than was indicated there was in final sales. According to the revised estimates, about one-half of the decline in real GNP was traceable to final sales, and one-half to a lower rate of inventory accumulation in the fourth quarter than in the third.

Business inventories in the fourth quarter were lower than shown in the preliminary estimates: decumulation in December was larger than projected. For the quarter, the ratio of business inventories to final sales, which moved up steadily throughout 1981, was 3.31. The inventory-sales ratio for manufacturing and trade-at 1.76was up to its first-quarter 1975 high.

(See "Constant-Dollar Inventories, Sales, and Inventory-Sales Ratios for Manufacturing and Trade," in this issue.) In manufacturing, inventories changed little in the fourth quarter, but sales dropped. Inventory-sales ratios were up for all categories of durables and nondurables other than food. There was no evidence of a large inventory buildup in defense goods, or in finished manufactured goods. In trade, the inventory-sales ratios of wholesale durables and retail nondurables were at all-time highs.

Table 1.—Revisions i	n Selected Com	onent Series of th	e NIPA's, Fou	th Quarter of 1981

	Seasonally	adjusted at a	nnual rates		ange from quarter at
	15-dav	45-day		annua	l'rates
	estimate	estimate	Revision	15-day estimate	45-day estimate
	Billion	s of current	dollars		
GNP	2984.9	2995.3	10.4	2.7	4.1
Personal consumption expenditures Nonresidential fixed investment Residential investment. Change in business inventories Net exports. Government purchases.	1909.5 332.6 93.4 17.6 16.0 615.7	$1908.4 \\ 337.5 \\ 93.8 \\ 12.6 \\ 20.8 \\ 622.2$	$ \begin{array}{r} -1.1 \\ 4.9 \\ .4 \\ -5.0 \\ 4.8 \\ 6.5 \\ \end{array} $	5.6 -3.0 -25.2 19.5	5.3 2.8 —24.0 24.6
National income					
Compensation of employees Corporate profits with inventory valuation and capital con- sumption adjustments.	1821.7	1820.9	8	7.1	6.9
Other	396.8	397.7	.9	5.8	6.8
Personal income	2484.4	2485.9	1.5	7.2	7.4
	Billions of	constant (19	72) dollars		
GNP	1495.6	1497.6	2.0	-5.2	-4.7
Personal consumption expenditures Nonresidential fixed investment. Residential investment. Change in business inventories. Net exports Government purchases.	958.3 159.2 39.5 8.5 36.7 293.4	$957.2 \\ 161.7 \\ 39.3 \\ 6.2 \\ 37.5 \\ 295.6$	-1.1 2.5 2 -2.3 .8 2.2		-2.3 -5.1 -28.1
	Index r	umbers, 1972	=100 1		
GNP implicit price deflator GNP fixed-weighted price index GNP chain price index	206.7	200.01 206.8	.43 .1	8.4 8.3 8.4	9.3 8.5 8.5

1 Not at annual rates

1. Not at annual rates. Nore.—For the fourth quarter of 1981, the following revised or additional major source data became available: For personal consumption expenditures, revised retail sales for November and December, and sales and inventories of used cars of franchised automobile dealers for November; for nonresidential fixed investment, manufacturers' shipments of equipment for November (revised) and December, construction put in place for November (revised) and December, and a partial tabulation of business expenditures for plant and equipment for the quarter; for residential investment, construction put in place for November (revised) and December, and a partial tabulation of business inventories, book values for manufacturing and trade for November (revised) and December; for change in business inventories, book values for manufacturing and trade for November (revised) and December; and revised net investment income and other services receipts for the quarter; for government purchases of goods and services, for eduarter; for government purchases of goods and services, for entires, interest, revised entities, and average weekly hours for November (revised) and December; for unit everised and local construction put in place for Sovember (revised) and December; for uses and salaries, revised entiterest received from abroad for the quarter; for GNP prices, the Consumer Price Index for December, unit value indexes for exports and imports for December, and residential housing prices for the quarter.

Summary of BEA Staff Papers

Summary Input-Output Tables of the U.S. Economy: 1973, 1974, and 1975

By Paula C. Young and Shirley F. Loftus

Employment and Employee Compensation in the 1972 Input-Output Study

By Jane-Ring F. Crane

BOTH of these papers complement the BEA 1972 "benchmark" inputoutput study. The first, No. 37 in the BEA staff paper series, presents summary (85 industry/commodity) tables that are updates of the 1972 study. Of necessity, they are based on information that is much less adequate than that used in 1972, for which the economic censuses are available. In addition to presenting the tables, the paper describes the tables, explains their derivation, and examines the changes in output requirements during the 1972-75 period that are revealed by the updated estimates. The second paper, No. 38 in the series, presents employment and employment-related data for 1972 comparable to the 85- and 496-industry level of detail. Because the data are consistent with the definitions and conventions used in the 1972 inputoutput tables, they can be used with those tables to calculate, by industry, an estimate of the impact of a stipulated change in final demand upon total employment and compensation, upon hours, and upon wages of production workers. Both papers may be ordered from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. The accession number for Summary Input-Output Tables of the U.S. Economy: 1973, 1974, and 1975 is PB 82 142–399; enclose \$10.50 for a paper copy and \$4.00 for microfiche. The accession number for Employment and Employee Compensation in the 1972 Input-Output Study is PB 82 142-415; enclose \$6.00 for a paper copy and \$4.00 for microfiche.

The BEA Long-Term Econometric Model

By Henry Townsend

THIS paper describes an econometric model developed at BEA as an aid for the analysis of long-term developments in the U.S. economy. The model contains 254 equations, which estimate components of GNP in current and constant dollars, national and personal income by type, government receipts and expenditures, implicit price deflators, detailed labor force participation rates and unemployment rates, various financial rates and flows, and other macroeconomic variables. The model was estimated with annual data from 1947 to 1978, using national income and product accounts estimates available as of July 1980.

Most of the paper is devoted to describing the equations in the model in terms of their variables and of their long-term properties and underlying theory. An appendix lists the equations, and shows the results of statistical tests, periods of fit, and specifications of the error terms. Also included are chapters on error statistics of within-sample simulations and multipliers for several fiscal policy variables.

This paper, number 36 in the BEA Staff Paper series, may be ordered from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. The accession number is PB 82 142-407; enclose \$10.50 for a paper copy, \$4.00 for microfiche.

National Income and Product Accounts Tables

 National product and income Personal income and outlays Government receipts and expendit Foreign transactions 	tures				6. 7.	Produ Implie Suppl	ct and cit pric	investm incom e defla ary tab ns	e by in tors an	d price			eceding	g perio	d for	
The abbreviations used in the tables]	VA NIPA's	Inve Nati	ntory v onal in iminar		on adju	Istmen		5							
The NIPA estimates for 1929-76 are No. 003-010-00101-1, price \$10.00). Estim price \$3.75). Additional estimates for 198 and Commerce Department District Office Table	mates f 30 are i	or 1970 n the J addres	6–79 au uly 198 ses ins	re in A 31 Sur ide fro	lationa vey. Tl nt cove	l Incon nese pu er.	ne and Iblicati	Produ ons are	ect Acce e availa	ounts, able fro	1976–7 om the	9 (Stoc	k No.	003-01	0-7218	8-0,
	1			Billions	of dollars						Bi	llions of 1	1972 dolla	ars		
		Γ		Seasonal	ly adjuste	ed at ann	ual rates	5						ed at ann	ual rate	 8
	1980	1981 7		80	[19			1980	1981 r		80			81	
	1000	1001	III	IV	I ·	п	ш	IV '	1500	1501		IV	I	п	ш	IV
Gross national product								1,471.9	1,485.6	1,516.4	1,510.4	1,515.8	1,497			
-		2,924.8 1,857.8	2,637.3 1,682.2	2,730.6 1,751.0	2,853.0 1,810.1	2,885.8 1,829.1	2,965.0 1,883.9	2,995.3 1,908.4	1,480.7 935.1	1,510.1 958.8	1,471.9 930.8	1,485.6 946.8	1,516.4 960.2	1,510.4 955.1	1,515.8 962.8	1,497 957
rsonal consumption expenditures	1,672.8		-	1,751.0	1	1,829.1		, i	935.1	958.8		l ´	960.2	955.1		95
rsonal consumption expenditures Durable goods Nondurable goods	1,672.8 211.9 675.7	1,857.8 232.1 743.0	1,682.2 208.8 674.2	1,751.0 223.3 703.5	1,810.1 238.3 726.0	1,829.1 227.3 735.3	1,883.9 236.2 751.3	1,908.4 226.8 759.3	935.1 135.8 358.4	958.8 139.4 367.1	930.8 132.6 354.9	946.8 139.1 360.4	960.2 146.8 364.5	955.1 137.4 367.0	962.8 140.3 368.8	957 133 368
rsonal consumption expenditures Durable goods Nondurable goods Services	. 1,672.8 . 211.9	1,857.8 232.1	1,682.2 208.8	1,751.0 223.3	1,810.1 238.3	1,829.1 227.3	1,883.9 236.2	1,908.4 226.8	935.1 135.8	958.8 139.4	930.8 132.6	946.8 139.1	960.2 146.8	955.1 137.4	962.8 140.3	951 133
rsonal consumption expenditures Durable goods Vondurable goods Services	1,672.8 211.9 675.7 785.2	1,857.8 232.1 743.0 882.7	1,682.2 208.8 674.2 799.2	1,751.0 223.3 703.5 824.2	1,810.1 238.3 726.0 845.8 437.1 432.7	1,829.1 227.3 735.3 866.5 458.6 435.3	1,883.9 236.2 751.3 896.4	1,908.4 226.8 759.3 922.2	935.1 135.8 358.4 440.9	958.8 139.4 367.1 452.3 215.0 207.4	930.8 132.6 354.9 443.3	946.8 139.1 360.4 447.3	960.2 146.8 364.5 448.9 211.6 213.1	955.1 137.4 367.0 450.7	962.8 140.3 368.8 453.7 221.5 206.5	95 13 36 45 20 20
rsonal consumption expenditures Durable goods Sondurable goods Services oss private domestic investment Pixed investment Nonresidential	1,672.8 211.9 675.7 785.2 395.3 401.2 296.0	1,857.8 232.1 743.0 882.7 450.7 433.7 328.3	1,682.2 208.8 674.2 799.2 377.1 393.2 294.0	1,751.0 223.3 703.5 824.2 397.7 415.1 302.1	1,810.1 238.3 726.0 845.8 437.1 432.7 315.9	1,829.1 227.3 735.3 866.5 458.6 435.3 324.6	1,883.9 236.2 751.3 896.4 463.0 435.6 335.1	1,908.4 226.8 759.3 922.2 443.9 431.3 337.5	935.1 135.8 358.4 440.9 203.6 206.6 158.4	958.8 139.4 367.1 452.3 215.0 207.4 162.2	930.8 132.6 354.9 443.3 195.3 200.2 155.5	946.8 139.1 360.4 447.3 200.5 207.6 157.0	960.2 146.8 364.5 448.9 211.6 213.1 162.0	955.1 137.4 367.0 450.7 219.7 208.9 161.1	962.8 140.3 368.8 453.7 221.5 206.5 163.9	95 13 36 45 20 20 16
sonal consumption expenditures burable goods	1,672.8 211.9 675.7 785.2 395.3 401.2 296.0 108.8	1,857.8 232.1 743.0 882.7 450.7 433.7 328.3 125.4	1,682.2 208.8 674.2 799.2 377.1 393.2 294.0 107.3	1,751.0 223.3 703.5 824.2 397.7 415.1 302.1 111.5	1,810.1 238.3 726.0 845.8 437.1 432.7 315.9 117.2	1,829.1 227.3 735.3 866.5 458.6 435.3 324.6 123.1	1,883.9 236.2 751.3 896.4 463.0 435.6 335.1 128.3	1,908.4 226.8 759.3 922.2 443.9 431.3 337.5 133.0	935.1 135.8 358.4 440.9 203.6 206.6 158.4 48.4	958.8 139.4 367.1 452.3 215.0 207.4 162.2 50.9	930.8 132.6 354.9 443.3 195.3 200.2 155.5 46.8	946.8 139.1 360.4 447.3 200.5 207.6 157.0 47.8	960.2 146.8 364.5 448.9 211.6 213.1 162.0 49.6	955.1 137.4 367.0 450.7 219.7 208.9 161.1 50.4	962.8 140.3 368.8 453.7 221.5 206.5 163.9 51.5	95 11 36 45 20 20 16
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sonal consumption expenditures	1,672.8 211.9 675.7 785.2 395.3 401.2 296.0 108.8 187.1 105.3 100.3 2.0 3.0	1,857.8 232.1 743.0 882.7 450.7 433.7 328.3 125.4 202.9 105.4 99.9 2.3 3.2	1,682.2 208.8 674.2 799.2 377.1 393.2 294.0 107.3 186.8 99.2 94.5 1.7 3.0	1,751.0 223.3 703.5 824.2 397.7 415.1 302.1 111.5 190.7 113.0 107.6 2.2 3.1	1,810.1 238.3 726.0 845.8 437.1 432.7 315.9 117.2 198.7 116.7 111.4 2.2 3.2	1,829.1 227.3 735.3 866.5 458.6 435.3 324.6 123.1 201.5 110.7 105.4 2.1 3.2	1,883.9 236.2 751.3 896.4 463.0 435.6 335.1 128.3 206.8 100.5 94.9 2.3 3.3	1,908.4 226.8 759.3 922.2 443.9 431.3 337.5 133.0 204.5 93.8 88.1 2.5 3.3	935.1 135.8 358.4 440.9 203.6 206.6 158.4 48.4 48.4 110.0 48.1 45.2 .9 9 2.0	958.8 139.4 367.1 452.3 215.0 207.4 162.2 50.9 111.3 45.2 42.2 1.0	930.8 132.6 354.9 443.3 195.3 200.2 155.3 46.8 40.8 8 44.7 41.9 7.7 2.0	946.8 139.1 360.4 447.3 200.5 207.6 157.0 47.8 50.6 47.5 1.0 2.0	960.2 146.8 364.5 448.9 211.6 213.1 162.0 49.6 112.4 51.0 48.0 9.9 2.1	955.1 137.4 367.0 450.7 219.7 208.9 161.1 50.4 110.7 47.8 44.8 .9 2.0	962.8 140.3 368.8 453.7 221.5 206.5 163.9 51.5 112.4 42.7 39.7 1.0 0.2.0	94 13 30 44 20 10 10
sonal consumption expenditures	1,672.8 211.9 675.7 785.2 395.3 401.2 296.0 108.8 187.1 105.3 100.3 20 30	1,857.8 232.1 743.0 882.7 450.7 433.7 328.3 125.4 202.9 105.4 99.9 2.3 3.2 17.0	1,682.2 208.8 674.2 799.2 377.1 393.2 2294.0 107.3 186.8 99.2 94.5 1.7 3.0 0 - 16.0	1,751.0 223.3 703.5 824.2 397.7 415.1 302.1 111.5 190.7 113.0 107.6 2.2 3.1 -17.4	1,810.1 238.3 726.0 845.8 437.1 432.7 315.9 117.2 198.7 116.7 111.4 2.2 3.2 4.5	1,829.1 227.3 735.3 866.5 458.6 435.3 324.6 123.1 201.5 110.7 105.4 2.1 3.2 23.3	1,883.9 236.2 751.3 896.4 463.0 435.6 335.1 128.3 206.8 100.5 94.9 2.3 3.3 27.5	1,908.4 226.8 759.3 922.2 443.9 431.3 337.5 133.0 204.5 93.8 88.1 2.5 3.3 12.6	935.1 135.8 358.4 440.9 203.6 206.6 158.4 48.4 110.0 48.1 45.2 .9 2.0 0 -2.9	958.8 139.4 367.1 452.3 215.0 207.4 162.2 50.9 111.3 45.2 42.2 1.0 2.0 7.6	930.8 132.6 354.9 443.3 195.3 200.2 155.5 46.8 108.8 44.7 41.9 7 2.0 -5.0	946.8 139.1 360.4 447.3 200.5 207.6 157.0 47.8 109.3 50.6 47.5 1.0 2.0 -7.2	960.2 146.8 364.5 448.9 211.6 213.1 162.0 49.6 112.4 51.0 48.0 .9 2.1 -1.4	955.1 137.4 367.0 450.7 219.7 208.9 161.1 50.4 110.7 47.8 44.8 9 2.0 10.8	962.8 140.3 368.8 453.7 221.5 206.5 163.9 51.5 112.4 42.7 39.7 1.0 2.00 2.00 2.4.9	94 13 30 44 20 10 10
sonal consumption expenditures	1,672.8 211.9 675.7 785.2 395.3 401.2 296.0 108.8 187.1 105.3 100.3 2.0 3.0	1,857.8 232.1 743.0 882.7 450.7 433.7 328.3 125.4 202.9 105.4 99.9 2.3 3.2	1,682.2 208.8 674.2 799.2 377.1 393.2 294.0 107.3 186.8 99.2 94.5 1.7 3.0	1,751.0 223.3 703.5 824.2 397.7 415.1 302.1 111.5 190.7 113.0 107.6 2.2 3.1	1,810.1 238.3 726.0 845.8 437.1 432.7 315.9 117.2 198.7 116.7 111.4 2.2 3.2	1,829.1 227.3 735.3 866.5 458.6 435.3 324.6 123.1 201.5 110.7 105.4 2.1 3.2	1,883.9 236.2 751.3 896.4 463.0 435.6 335.1 128.3 206.8 100.5 94.9 2.3 3.3	1,908.4 226.8 759.3 922.2 443.9 431.3 337.5 133.0 204.5 93.8 88.1 2.5 3.3	935.1 135.8 358.4 440.9 203.6 206.6 158.4 48.4 48.4 110.0 48.1 45.2 .9 9 2.0	958.8 139.4 367.1 452.3 215.0 207.4 162.2 50.9 111.3 45.2 42.2 1.0	930.8 132.6 354.9 443.3 195.3 200.2 155.3 46.8 40.8 108.8 44.7 41.9 7.7 2.0	946.8 139.1 360.4 447.3 200.5 207.6 157.0 47.8 50.6 47.5 1.0 2.0	960.2 146.8 364.5 448.9 211.6 213.1 162.0 49.6 112.4 51.0 48.0 9.9 2.1	955.1 137.4 367.0 450.7 219.7 208.9 161.1 50.4 110.7 47.8 44.8 .9 2.0	962.8 140.3 368.8 453.7 221.5 206.5 163.9 51.5 112.4 42.7 39.7 1.0 0.2.0	95 15 36 45 20 20 16
sonal consumption expenditures	$\begin{array}{c} \textbf{1,672.8}\\ \textbf{211.9}\\ \textbf{675.7}\\ \textbf{785.2}\\ \textbf{395.3}\\ \textbf{401.2}\\ \textbf{296.0}\\ \textbf{108.8}\\ \textbf{187.1}\\ \textbf{105.3}\\ \textbf{100.3}\\ \textbf{0.0}\\ \textbf{3.0}\\ \textbf{-5.9}\\ \textbf{-4.7}\\ \textbf{-1.2} \end{array}$	1,857.8 232.1 743.0 882.7 450.7 433.7 328.3 125.4 202.9 105.4 99.9 2.3 3.2 17.0 14.6	1,682.2 208.8 674.2 799.2 377.1 393.2 294.0 107.3 186.8 99.2 94.5 1.7 3.0 -16.0 -12.3	1,751.0 223.3 703.5 824.2 397.7 415.1 302.1 111.5 190.7 113.0 107.6 2.2 3.1 -17.4 -17.4	1,810.1 238.3 726.0 845.8 437.1 432.7 315.9 117.2 198.7 116.7 1111.4 2.2 3.2 3.2 4.5 6.8	1,829.1 227.3 735.3 866.5 458.6 435.3 324.6 123.1 201.5 110.7 105.4 2.1 3.2 23.3 21.5	1,883.9 236.2 751.3 896.4 463.0 435.6 335.1 128.3 206.8 100.5 94.9 2.3 3.3 27.5 23.1	1,908.4 226.8 759.3 922.2 443.9 431.3 337.5 133.0 204.5 93.8 88.1 2.5 3.3 12.6 7.1	935.1 135.8 358.4 440.9 203.6 206.6 158.4 48.4 48.4 110.0 48.1 45.2 .9 2.0 -2.9	958.8 139.4 367.1 452.3 215.0 207.4 162.2 50.9 111.3 45.2 42.2 1.0 2.0 7.6 6.4	930.8 132.6 354.9 443.3 195.3 200.2 155.5 468 44.7 41.8 9 9.9 9.9 9.5 0 -5.0 -5.0 -3.1	946.8 139.1 360.4 447.3 200.5 207.6 157.0 47.8 109.3 50.6 47.5 1.0 2.0 -7.2 -5.6	960.2 146.8 364.5 448.9 211.6 213.1 162.0 49.6 112.4 51.0 49.6 112.4 51.0 .9 2.1 -1.4 3	955.1 137.4 367.0 450.7 219.7 208.9 161.1 50.4 110.7 47.8 44.8 9,9 2.0 10.8 9.9	962.8 140.3 368.8 453.7 221.5 206.5 163.9 51.5 112.4 42.7 39.7 1.0 2.0 14.9 12.8	95 13 36 45 20 20 10 10
sonal consumption expenditures	1,672.8 211.9 675.7 785.2 395.3 401.2 296.0 108.8 187.1 105.3 100.3 2.0 3.0 -5.9 -4.7 -1.2 23.3 339.8	1,857.8 232.1 743.0 882.7 450.7 433.7 328.3 125.4 202.9 105.4 99.9 2.3 3.2 17.0 14.6 2.3	$\begin{array}{c} \textbf{1,682.2} \\ 208.8 \\ 674.2 \\ 799.2 \\ \textbf{377.1} \\ \textbf{393.2} \\ 294.0 \\ 107.3 \\ 186.8 \\ 99.2 \\ 94.5 \\ 1.7 \\ 3.0 \\ -16.0 \\ -12.3 \\ -3.7 \end{array}$	1,751.0 223.3 703.5 824.2 397.7 415.1 302.1 111.5 190.7 113.0 107.6 2.2 3.1 -17.4 -14.0 -3.4	1,810.1 238.3 726.0 845.8 437.1 432.7 315.9 117.2 198.7 116.7 111.4 2.2 3.2 4.5 6.8 -2.4	1,829.1 227.3 735.3 866.5 458.6 435.3 324.6 123.1 201.5 110.7. 105.4 2.1 3.2 23.3 21.5 1.8	1,883.9 236.2 751.3 896.4 463.0 435.6 335.1 128.3 206.8 100.5 94.9 2.3 3.3 27.5 23.1 4.4	1,908.4 226.8 759.3 922.2 443.9 431.3 337.5 133.0 204.5 93.8 88.1 2.5 3.3 12.6 7.1 5.5	935.1 135.8 358.4 440.9 203.6 206.6 158.4 48.4 110.0 48.1 45.2 9 2.0 -2.9 -2.4 5	958.8 139.4 367.1 452.3 215.0 207.4 162.2 50.9 111.3 45.2 42.2 1.0 2.0 7.6 6.4 1.2	930.8 132.6 354.9 443.3 195.3 200.2 155.5 46.8 108.8 44.7 41.9 .7 2.0 -5.0 -3.1 -1.8	$\begin{array}{c} \textbf{946.8} \\ \textbf{139.1} \\ \textbf{360.4} \\ \textbf{447.3} \\ \textbf{200.5} \\ \textbf{207.6} \\ \textbf{157.0} \\ \textbf{47.5} \\ \textbf{109.3} \\ \textbf{50.6} \\ \textbf{47.5} \\ \textbf{1.0} \\ \textbf{2.0} \\ \textbf{-7.2} \\ \textbf{-5.6} \\ \textbf{-1.5} \end{array}$	960.2 146.8 364.5 364.5 448.9 211.6 213.1 162.0 49.6 112.4 51.0 48.0 48.9 2.1 3 -1.1 3	955.1 137.4 367.0 450.7 219.7 208.9 161.1 50.4 110.7 47.8 44.8 44.8 9 9.2.0 10.8 9.9 9.9	962.8 140.3 368.8 453.7 221.5 206.5 163.9 51.5 112.4 42.7 39.7 1.0 2.0 14.9 12.8 2.2	
rsonal consumption expenditures	1,672.8 211.9 675.7 785.2 395.3 401.2 296.0 108.8 187.1 105.3 100.3 -5.9 -4.7 -1.2 23.3 339.8 316.5	1,857.8 232.1 743.0 882.7 450.7 433.7 328.3 125.4 202.9 90.9 2.3 3.2 17.0 14.6 2.3 25.0 365.6	1,682.2 208.8 674.2 799.2 377.1 393.2 2294.0 107.3 186.8 99.2 94.5 1.7 3.0 -16.0 -12.3 -3.7 44.5 342.4	1,751.0 223.3 703.5 824.2 397.7 415.1 302.1 111.5 190.7 113.0 107.6 2.2 3.1 -17.4 -14.0 -3.4 23.3 346.1	1,810.1 238.3 726.0 845.8 437.1 432.7 315.9 117.2 198.7 111.4 2.2 3.2 4.5 6.8 -2.4 29.2 367.4	1,829.1 227.3 735.3 866.5 458.6 435.3 324.6 123.1 201.5 110.7 105.4 2.1 3.2 23.3 21.5 1.8 20.8 368.2	1,883.9 236.2 751.3 896.4 463.0 435.6 335.1 128.3 206.8 206.8 20.0 94.9 2.3 3.3 27.5 23.1 4.4 29.3 368.0	1,908.4 226.8 755.3 922.2 443.9 431.3 337.5 133.0 204.5 93.8 88.1 2.5 5 3.3 12.6 7.1 5.5 20.8 358.9	935.1 135.8 358.4 440.9 203.6 206.6 158.4 48.4 110.0 48.1 45.2 .9 2.0 -2.9 -2.4 5 52.0 161.1	958.8 139.4 367.1 452.3 215.0 207.4 162.2 50.9 111.3 45.2 42.2 1.0 2.0 7.6 6.4 1.2 44.5 159.6	930.8 132.6 354.9 443.3 195.3 200.2 155.5 46.8 108.8 44.7 41.9 -50 -3.1 -1.8 57.6 160.5	946.8 139.1 360.4 447.3 200.5 207.6 157.0 47.8 109.3 50.6 47.5 1.0 2.0 -7.2 -5.6 -1.5 48.5 157.4	960.2 146.8 364.5 448.9 211.6 213.1 162.0 49.6 112.4 51.0 48.0 9 2.1 -1.4 3 -1.1 50.9 162.5	955.1 137.4 367.0 450.7 208.9 161.1 50.4 110.7 47.8 44.8 9.9 2.0 10.8 9.9 .9 46.2 161.5	962.8 140.3 368.8 453.7 221.5 206.5 1163.9 51.5 1163.4 42.7 39.7 1.0 2.0 14.9 2.2 43.2 48.2 2.2 43.2	95 13 36 47 20 20 10 10 10 10 11 11 11 11 11 1
rsonal consumption expenditures	1,672.8 211.9 675.7 785.2 395.3 401.2 296.0 108.8 187.1 100.3 2.0 3.0 -5.9 -4.2 23.3 339.8 316.5 534.7 198.9	1,857.8 232.1 743.0 882.7 450.7 433.7 328.3 125.4 202.9 105.4 202.9 105.4 202.9 105.4 202.9 105.4 2.3 3.2 2 17.0 14.6 2.3 25.0 365.6 340.6 591.3 230.3	1,682.2 208.8 674.2 799.2 377.1 393.2 294.0 107.3 186.8 99.2 94.5 1.7 3.0 -16.0 -16.0 -16.0 -16.0 -16.0 3.2,7 3.0 -16.0 5.3,7 342.4 297.9 533.5 194.9	1,751.0 223.3 703.5 824.2 397.7 415.1 302.1 111.5 190.7 113.0 107.6 2.2 3.1 -17.4 -14.0 -3.4 23.3 346.1 322.7 558.6 212.0	1,810.1 238.3 726.0 845.8 437.1 432.7 315.9 117.2 198.7 116.7 2.2 3.2 4.5 6.8 -2.4 29.2 367.4 338.2 576.5 221.6	1,829.1 227.3 735.3 866.5 458.6 435.3 324.6 123.1 201.5 110.5 110.5 110.5 110.5 1.2 2.3 324.6 123.1 201.5 110.5 1.0 5 1.0 5 1.8 20.8 368.2 347.5 577.4 219.5	1,883.9 236.2 7751.3 896.4 463.0 435.6 335.1 128.3 206.8 100.5 94.9 2.3 3.3 27.5 23.1 4.4 29.3 368.0 338.7 588.9 226.4	1,908.4 226.8 7759.3 922.2 443.9 431.3 337.5 133.0 204.5 93.8 88.1 2.5 3.3 12.6 7.1 7.1 5.5 20.8 358.9 338.2 622.2 253.6	935.1 135.8 358.4 440.9 203.6 206.6 158.4 48.4 110.0 48.1 145.2 .9 2.0 -2.9 -2.4 -5 52.0 161.1 109.1 290.0 108.1	958.8 139.4 387.1 452.3 215.0 207.4 162.2 50.9 111.3 452.2 1.0 2.0 7.6 6.4 1.2 44.5 159.6 115.1 291.8 111.6	930.8 132.6 354.9 443.3 195.3 200.2 155.5 46.8 108.8 44.9 .7 2.0 0 -5.0 -3.1 -1.8 57.6 160.5 102.8 288.2 106.9	946.8 139.1 360.4 447.3 200.5 207.6 157.0 47.8 109.3 50.6 47.5 1.0 2.0 -7.2 -5.6 48.5 157.4 108.9 289.8 107.4	960.2 146.8 364.5 448.9 211.6 213.1 162.0 49.6 112.4 51.0 9 2.1 -1.4 3 -1.1 50.9 162.5 111.6 293.6 111.2	955.1 137.4 367.0 450.7 219.7 208.9 161.1 50.4 110.7 47.8 444.8 9 9.9 9.9 9.9 46.2 161.5 115.4 289.5 108.7	962.8 140.3 368.8 453.7 221.5 206.5 1163.9 51.5 112.4 42.7 39.7 1.0 2.0 14.9 12.8 2.2 43.2 160.1 116.9 288.3 109.6	
ersonal consumption expenditures Durable goods	1,672.8 211.9 675.7 785.2 395.3 401.2 296.0 108.8 187.1 105.3 100.3 2.0 3.0 -5.9 -4.7 -1.2 23.3 339.8 316.5 534.7	1,857.8 232.1 743.0 882.7 450.7 433.7 328.3 125.4 99.9 9.9 2.3 3.2 17.0 14.6 2.3 25.0 365.6 340.6 591.3	1,682.2 208.8 674.2 799.2 377.1 393.2 294.0 107.3 186.8 99.2 94.5 1.5 3.0 -16.0 -12.8 -3.7 44.5 342.4 297.9 533.5	1,751.0 223.3 703.5 824.2 397.7 415.1 302.1 111.5 190.7 113.0 107.6 2 2.2 2 2.3 3.1 -17.4 -3.4 23.3 346.1 322.7 558.6	1,810.1 238.3 726.0 845.8 437.1 432.7 315.9 117.2 198.7 111.4 2.2 3.2 4.5 6.8 8 -2.4 29.2 367.4 338.2 576.5	1,829.1 227.3 735.3 866.5 458.6 435.3 324.6 1231.5 110.7 105.4 2.1 3.2 23.3 21.5 1.8 20.8 368.2 347.5 577.4	1,883.9 236.2 751.3 896.4 463.0 435.6 335.1 128.3 206.8 100.5 94.9 2.3 3 3.3 27.5 23.1 4.4 29.3 368.0 338.7 588.9	1,908.4 226.8 759.3 922.2 443.9 431.3 337.5 133.0 204.5 93.8 8.8.1 2.0 5.3 3.3 12.6 7.1 5.5 20.8 358.9 338.2 622.2	935.1 135.8 358.4 440.9 203.6 206.6 158.4 410.0 48.1 45.2 9 9 2.0 -2.9 -2.9 -2.9 5 2.0 161.1 109.1 290.0	958.8 139.4 367.1 452.3 215.0 207.4 162.2 50.9 111.3 452.2 42.2 1.0 2.0 7.6 6.4 1.2 44.5 159.6 115.1 291.8	930.8 132.6 854.9 443.3 195.3 200.2 155.5 46.8 108.8 44.7 41.9 -3.1 -1.8 57.6 160.5 102.8 288.2	946.8 139.1 360.4 447.3 200.5 207.6 157.0 47.8 109.3 50.6 47.5 1.0 2.0 -7.2 -5.6 -1.5 48.5 157.4 108.9 289.8	960.2 146.8 364.5 448.9 211.6 213.1 162.0 49.6 112.4 51.0 49.6 112.4 51.0 49.6 .12.4 51.0 49.6 .12.4 51.0 49.6 .11.5 .11.	955.1 137.4 367.0 450.7 219.7 208.9 161.1 50.4 110.7 47.8 40.8 9.9 9.9 9.9 46.2 161.5 115.4 289.5	962.8 140.3 368.8 453.7 221.5 206.5 163.9 51.5 112.4 42.7 39.7 10 2.0 14.9 12.8 2.2 43.2 160.1 116.9 288.3	95 15 36 45 20 16 5 10 5

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

Gross national product	2,626.1	2,924.8	2,637.3	2,730.6	2,853.0	2,885.8	2,965.0	2,995.3	1,480.7	1,510.1	1,471.9	1,485.6	1,516.4	1,510.4	1,515.8	1,497.6
Final sales Change in business inventories	2,632.0 - 5.9	2,907.8 17.0	$2,653.4 \\ -16.0$	$2,748.0 \\ -17.4$	2,848.5 4.5	2,862.5 23.3	$2,937.6 \\ 27.5$	2,982.6 12.6	$1,483.6 \\ -2.9$	1,502.4 7.6	1,476.9 - 5.0	1,492.7 -7.2	1,517.8 - 1.4	1,499.6 10.8	$1,500.9 \\ 14.9$	1,491.4 6.2
Goods	1,130.4	1,272.5	1,129.4	1,169.0	1,247.5	1,257.0	1,298.3	1,287.4	665.2	685.2	657.5	662.9	688.9	686.3	691.9	673.7
Final sales Change in business inventories	$1,136.3 \\ -5.9$	$1,255.6 \\ 17.0$	$1,145.4 \\ -16.0$	$1,186.3 \\ -17.4$	$1,243.1 \\ 4.5$	$1,233.7 \\ 23.3$	$1,270.8 \\ 27.5$	1,274.7 12.6	$ \begin{array}{r} 668.1 \\ -2.9 \end{array} $	677.6 7.6	662.4 - 5.0	$ \begin{array}{r} 670.1 \\ -7.2 \end{array} $	$690.3 \\ -1.4$	675.5 10.8	677.0 14.9	$ \begin{array}{r} 667.5 \\ 6.2 \end{array} $
Durable goods Final sales. Change in business inventories. Nondurable goods. Final sales. Change in business inventories.	$\begin{array}{r} 462.6 \\ -4.0 \\ 671.9 \\ 673.7 \end{array}$	507.4 499.5 7.9 765.1 756.1 9.1	$\begin{array}{r} 456.5\\ 464.9\\ -8.4\\ 672.9\\ 680.5\\ -7.7\end{array}$	476.7 476.0 .7 692.2 710.3 - 18.1	501.4 505.5 -4.2 746.1 737.5 8.6	$516.9 \\ 498.3 \\ 18.5 \\ 740.1 \\ 735.3 \\ 4.8$	525.2 506.6 18.6 773.0 764.2 8.9	$\begin{array}{r} 486.2 \\ 487.5 \\ -1.3 \\ 801.2 \\ 787.2 \\ 14.0 \end{array}$	279.4 281.3 -1.9 385.7 386.8 -1.1	282.4 279.1 3.3 402.8 398.5 4.4	$\begin{array}{r} 274.6\\ 278.4\\ -3.8\\ 382.9\\ 384.0\\ -1.1\end{array}$	$\begin{array}{c} 281.8 \\ 281.5 \\ .3 \\ 381.1 \\ 388.6 \\ -7.5 \end{array}$	$\begin{array}{r} 289.3 \\ 292.5 \\ -3.1 \\ 399.6 \\ 397.9 \\ 1.7 \end{array}$	288.6 279.7 8.9 397.7 395.8 1.9	$287.0 \\ 279.2 \\ 7.8 \\ 404.9 \\ 397.8 \\ 7.1$	264.6265.15409.1402.46.7
Services Structures	1,229.6 266.0	1,371.1 281.1	1,249.0 258.9	1,285.3 276.4	$1,317.1 \\ 288.4$	$1,344.7 \\ 284.1$	1,390.5 276.3	1,432.2 275.7	695.7 119.8	707.6 117.2	699.9 114.5	701.7 121.0	703.6 123.9	704.7 119.4	709.9 114.0	712.2 111.7
Addenda: Gross domestic purchases ¹ Final sales to domestic purchasers ¹		2,899.8 2,882.8	2,592.8 2,608.8	2,707.3 2,724.6	2,823.8 2,819.3	2,865.1 2,841.8	2,935.8 2,908.3		1,428.7 1,431.7		1,414.3 1,419.2	1,437.1 1,444.2	1,465.5 1,466.9	1,464.2 1,453.5		1,460.1 1,453.9

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

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

				Billions	of dollars	1					Bi	lions of I	1972 doll	ars		
				Seasonal	ly adjust	ed at ann	ual rates					Seasonall	y adjuste	ed at ann	ual rate	3
	1980	1981 '	19	80		19	81		1980	1981 [,]	19	80		19	81	
			ш	IV	I	II	ш	IV '		ш	IV	Ι	II	III	IV '	
Gross national product	2,626.1	2,924.8	2,637.3	2,730.6	2,853.0	2,885.8	2, 96 5.0	2,995.3	1,480.7	1,510.1	1,471.9	1,485.6	1,516.4	1,510.4	1,515.8	1,497.6
Gross domestic product Business. Nonfarm Nonfarm less housing	2,576.5 2,221.2 2,153.7 1,940.9	2,870.8 2,479.8 2,408.3 2,168.1	2,586.9 2,230.0 2,159.1 1,943.1	2,682.0 2,311.4 2,248.6 2,025.3	2,800.7 2,420.8 2,350.1 2,120.2	2,835.5 2,449.2 2,383.7 2,147.3	2,909.4 2,517.6 2,442.2 2,198.7	2,531.7 2,457.2	1,452.4 1,251.8 1,216.8 1,084.5	1,482.0 1,280.1 1,242.7 1,105.4	1,443.4 1,242.3 1,207.6 1,074.6	1.458.9 1,257.5 1,227.9 1,093.7	1,488.4 1,286.4 1,250.9 1,115.4	1,483.8 1,281.8 1,248.9 1,112.1	1,487.1 1,285.7 1,246.2 1,108.2	1,468.5 1,266.5 1,225.0 1,085.8
Housing Farm Statistical discrepancy Households and institutions	68.1	240.2 72.3 8 97.7	216.0 67.9 3.0 86.9	223.3 69.4 -6.6 90.4	229.9 67.3 3.4 93.9	236.4 72.4 -6.9 96.4	243.5 75.2 .2 98.4	251.0 74.3 .2 102.0	$ \begin{array}{r} 132.3 \\ 35.3 \\ 4 \\ 45.4 \end{array} $	137.4 37.8 4 47.0	133.0 33.1 1.7 45.6	$134.2 \\ 33.2 \\ -3.6 \\ 46.1$	135.5 33.6 1.8 46.7	136.8 36.5 3.6 46.9	137.9 39.4 .1 46.8	139. 41. 47.
Private households Nonprofit institutions Government Federal	6.7 79.2 269.3 81.9	6.9 90.7 293.3 90.0	6.7 80.2 269.9 80.7	6.9 83.5 280.3 87.1	7.0 86.9 285.9 87.9	6.9 89.5 289.9 88.2	6.9 91.5 293.5 88.5	6.9 95.1 304.0 95.3	3.5 41.9 155.2 49.2	3.3 43.7 154.9 49.0	3.4 42.1 155.5 49.4	3.4 42.7 155.3 48.9	3.4 43.2 155.3 49.0	3.3 43.5 155.2 49.0	3.3 43.6 154.6 49.0	3. 44. 154. 49.
State and local Rest of the world Addendum: Gross domestic business product less housing	187.4 49.7 2,008.4	203.3 54.0 2,239.7	189.3 50.5 2,014.0	193.3 48.6 2,088.0	198.0 52.3 2,191.0	201.6 50.4 2,212.8	205.0 55.6 2,274.1	208.7 57.6 2,280.7	106.0 28.3 1,119.5	105.9 28.1 1,142.7	106.1 28.5 1,109.4	106.3 26.7 1,123.3	106.4 28.0 1,150.8	106.2 26.6 1,145.0	105.6 28.7 1,147.8	105 29 1,127

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

Billions of dollars Seasonally adjusted at annual rates 1980 1981 ' 1980 1981 IV ' ш IV I II ш Gross national product. 2,626.1 2,924.8 2,637.3 2,730.6 2,853.0 2,885.8 2,965.0 2,995.3 Less: Capital consumption al-lowances with CCAdj.. Capital consumption al-lowances..... 336.9 287.3 321.7 298.9 306.5 316.7 326.5 291.8 224.1 - 63.1 257.0 -64.7 226.9 --64.9 $233.7 \\ -65.2$ 243.2 - 63.3 251.9 - 64.9 261.7 -64.8 271.1 --65.7 Less: CCAdj Equals: Net national prod-2,338.9 2,603.1 2,345.5 2,431.7 2,546.4 2,569.1 2,638.5 2,658.4 Less: Indirect business tax and nontax liability...... Business transfer pay-ments..... Statistical discrepancy...... Plus: Subsidies less current surplus of government enterprises.... 228.0 249.4 255.4 212.3 251.1 215.8 245.5 254.0 12.1 10.5 - .711.6 -.8 10.6 3.0 10.9 11.2 3.4 11.5 --6.9 11.8 -6.66.3 5.7 5.1 4.8 4.6 5.1 5.4 4.7 **Equals: National income** 2,121.4 2,346.3 2,122.4 2,204.8 2,291.1 2.320.9 2.377.6 Less: Corporate profits with IVA and CCAdj...... Net interest. Contributions for social insurance... Wage accruals less dis-bursements..... Plus: 182.7 179.8 $191.5 \\ 215.0$ $177.9 \\ 185.3$ $\begin{array}{c} 183.3\\ 193.3 \end{array}$ $\begin{array}{c} 203.0\\ 200.8 \end{array}$ 190.3 211.0 $195.7 \\ 220.2$ 228.0 203.7 238.9 204.1 212.3 233.7 236.3 240.6 244.8 0 0 0 0 .5 -.5.2 -.1 Plus: Government transfer pay- $303.1 \\ 269.7 \\ 56.1$ 330.4 315.7 63.0 334.9 329.0 64.1 ments to personal interest income. Personal interest income. Business transfer pay-ments..... 283.8 256.3 54.4 321.6 $300.1 \\ 261.8 \\ 55.1$ $308.4 \\ 288.7 \\ 58.0$ 312.7 300.9 60.2 308.6 61.3 10.6 10.9 12.1 10.5 11.6 11.211.5 11.8 2,182.1 2.256.2 Equals: Personal income 2.160.2 2,404.0 2.319.8 2.368.5 2.441.7 2,485.9

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

[Billions of 1972 dollars] 1,471.9 1,485.6 1,515.8 1,497.6 1.480.7 1.510.1 1.516.4 1.510.4 147.9 149.5 151.2 155.8 147.5 153.4 152.4 154.21.333.2 1.356.7 1,324.0 1.336.1 1.365.2 1.358.0 1,361.6 1.341.8 149.0 153.9 149.2 151.9 153.2 152.9 155.1154.6 1.7 1,173.1 -3.6 1,208.7 - 3.6 1,187.8 1,210.3 1,184.6 1,203.1 1,206.9

Table 1.11.—National Income by Type of Income Billions of dollars

				Billions of	of dollars	;		
			\$	Seasonall	y adjuste	ed at ann	ual rate	s
	1980	1981 [,]	19	80		19	81	
<u> </u>			Ш	IV	Ι	11	III	IV '
National income	2,121.4	2,346.3	2,122.4	2,204.8	2,291.1	2,320.9	2,377.6	
Compensation of employ- ees	1,596.5	1,771.5	1,597.4	1,661.8	1,722.4	1,752.0	1,790.7	1,820.9
Wages and salaries	1,343.6	1,482.6	1,342.3	1,397.3	1,442.9	1,467.0	1,498.7	1,522.0
Government and gov- ernment enterprises Other	253.6 1,090.0	273.9 1,208.7	253.9 1,088.4	263.3 1,134.0	267.1 1,175.7	270.5 1,196.4	274.7 1,224.0	283.2 1,238.8
Supplements to wages and salaries Employer contribu-	252.9	288.8	255.0	264.5	279.5	285.1	292.0	298.9
tions for social in- surance Other labor income	115.8 137.1	134.7 154.2	116.0 139.1	121.0 143.5	131.5 148.0	$133.2 \\ 151.8$	135.6 156.3	138.4 160.5
Proprietors' income with IVA and CCAdj	130.6	134.6	12 9 .7	134.0	132.1	134.1	137.1	135.2
Farm Proprietors' income	23.4	22.3	22.1	22.5	18.9	21.7	24.7	23.8
with IVA CCAdj	30.3 -6.9	30.0 - 7.7	29.0 6.9	29.6 7.2	$26.1 \\ -7.2$	29.3 - 7.6	32.6 7.9	31.9 -8.2
Nonfarm Proprietors' income IVA	$107.2 \\ 112.7 \\ -3.7$	112.4 116.1 -1.6	$107.6 \\ 113.1 \\ -3.5$	$111.6 \\ 117.5 \\ -4.0$	113.2 117.4 -2.5	$112.5 \\ 115.7 \\ -1.2$	$112.4 \\ 115.9 \\ -1.4$	111.5 115.4 -1.5
CCAdj	- 1.9	-2.1	-2.0	-2.0	-1.7	-2.0	-2.2	-2.4
Rental income of persons with CCAdj	31.8	33.6	32.0	32.4	32.7	33.3	33.9	34.5
Rental income of per- sons CCAdj	64.9 -33.1	70.0 36.4	65.9 33.9	66.4 33.9	68.2 35.5	69.3 35.9	70.5 36.6	71.9 -37.4
Corporate profits with IVA and CCAdj	182.7	191.5	177.9	183.3	203.0	190.3	195.7	
Corporate profits with IVA	199.8	205.4	195.9	201.0	217.7	205.1	209.1	
Profits before tax Profits tax liability Profits after tax Dividends Undershuted	245.5 82.3 163.2 56.0	232.9 77.6 155.3 63.1	$237.6 \\ 78.5 \\ 159.1 \\ 56.7$	249.5 85.2 164.3 57.7	257.0 87.7 169.2 59.6	229.0 76.4 152.7 62.0	$234.4 \\ 78.1 \\ 156.3 \\ 64.8$	66.0
Undistributed profits	107.2	92.1	102.4	106.6	109.6	90.6	91.5	
IVA	-45.7	-27.5	-41.7	- 48.4	39.2	-24.0	-25.3	-21.5
CCAdj	-17.2	-13.9	-17.9	-17.8	14.7	-14.7	-13.4	-12.8
Net interest	179.8	215.0	185.3	193.3	200.8	211.0	220.2	228.0
Addenda: Corporate profits after tax with IVA and	100.5	110.0	00.5		1150			
CCAdj Dividends Undistributed profits	100.3 56.0	113.9 63.1	99.5 56.7	98.1 57.7	115.3 59.6	114.0 62.0	117.6 64.8	66.0
with IVA and CCAdj	44.3	50.7	42.8	40.4	55.7	52.0	52.8	

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

				Billions (of dollars	3]	Billions o	of dollars			
			5	Seasonall	y adjuste	ed at anr	nual rate	s				5	Seasonall	y adjuste	ed at ann	ual rate	s
	1980	1981 <i>'</i>	19	80		19	81			1980	19817	19	80		19	81	
			III	IV	I	п	Ш	IV'				ш	IV	I	п	ш	IV ^r
Gross domestic prod- uct of corporate business Capital consumption allow-	1,616.5	1,814.6	1,617.5	1,688.0	1,774.8	1,797.1	1,840.6		Net domestic product Indirect business tax and nontax liability plus business transfer pay-	1,369.3	1,546.5	1,369.1	1,431.7	1,513.1	1,532.6	1,570.6	
ances with CCAdj	175.4 1,441.1	197.7 1.616.8	178.4	183.2 1,504.8	187.5 1,587.3	194.6 1.602.5	201.1 1,639.5	207.7	Domestic income Compensation of em-	$152.5 \\ 1,216.9$	183.3 1,363.2	$155.4 \\ 1,213.6$	165.1 1,266.6	179.2 1,333.9	182.1 1,350.5	185.7 1,384.9	186.1
Indirect business tax and nontax liability plus business transfer pay-	1,441.1	1,010.0	1,402.0	1,004.0	1,001.0	1,002.5	1,000.0		Vages and salaries Supplements to	$1,037.2 \\ 864.2$	$1,152.1 \\ 955.5$	1,034.8 860.9	1,078.5 898.2	1,121.3 930.7	1,140.6 946.5	1,167.2 968.3	1,179.3 976.6
ments less subsidies Domestic income	159.3 1,281.8	191.5 1,425.4	162.4 1,276.6	172.5 1,332.4	187.2 1,400.1	190.2 1,412.2	194.0	194.5	wages and salaries Corporate profits with IVA and CCAdj	172.9 123.6	196.6 146.6	173.9 121.2	180.4 128.2	190.5 152.1	194.1 146.5	198.9 152.0	202.7
Compensation of em- ployees Wages and salaries Supplements to	1,281.8 1,103.1 917.9	1,425.4 1,226.6 1,015.9	1,276.6 1,101.7 915.2	1,332.4 1,147.8 954.6	1,193.3 989.1	1,412.2 1,214.0 1,006.0	1,445.5 1,242.5 1,029.4	1,256.6 1,039.1	Profits before tax Profits tax liability Profits after tax	123.6 183.8 63.1 120.6	146.6 184.6 59.2 125.5	121.2 177.9 60.3 117.6	128.2 191.3 65.9 125.4		140.5 181.9 57.8 124.1	132.0 187.2 59.5 127.6	
wages and salaries Corporate profits with IVA and CCAdi	185.2 151.5	210.7 167.5	186.4 147.0	193.2 155.6	204.1 177.6	208.0 167.6	213.1 171.1	217.4	Dividends Undistributed profits	40.4 80.3	50.6 74.9	40.8 76.8	42.7 82.7	46.9 87.9	48.8 75.4	52.5 75.2	54.2
Profits before tax Profits tax liability	214.4 82.3	208.9 77.6	206.7 78.5	221.8 85.2	231.5 87.7	206.2 76.4	209.8 78.1		IVA CCAdj Net interest	$-45.7 \\ -14.4 \\ 56.1$	$-27.5 \\ -10.5 \\ 64.4$	$-41.7 \\ -15.0 \\ 57.6$	$ \begin{array}{r} -48.4 \\ -14.7 \\ 59.9 \end{array} $	$ \begin{array}{r} -39.2 \\ -11.6 \\ 60.5 \end{array} $	$ \begin{array}{r} -24.0 \\ -11.4 \\ 63.4 \end{array} $	-25.3 -9.9 65.8	-9.
Profits after tax Dividends Undistributed	132.0 37.4	131.2 47.3	128.2 37.9	136.6 39.5	$\begin{array}{r}143.8\\43.7\end{array}$	129.9 45.5	131.8 49.1	50.8				Bil	lions of	1972 doll	ars		
profits IVA CCAdj Net interest Gross domestic	$94.6 \\ -45.7 \\ -17.2 \\ 27.2$	$\begin{array}{r} 84.0 \\ -27.5 \\ -13.9 \\ 31.3 \end{array}$	$90.3 \\ -41.7 \\ -17.9 \\ 27.9$	$97.1 \\ -48.4 \\ -17.8 \\ 29.0$	$100.1 \\ -39.2 \\ -14.7 \\ 29.3$	84.3 -24.0 -14.7 30.7	$82.7 \\ -25.3 \\ -13.4 \\ 31.9$	-21.5 -12.8 33.5	Gross domestic prod- uct of nonfinancial corporate business	867.2	896.7	860.4	876.9	901.0	901.2	901.1	
product of finan- cial corporate business	81.3	81.6	79.7	83.3	84.7	80.8	80.3		Capital consumption allow- ances with CCAdj Net domestic product	88.1 779.0	91.8 804.9	88.5	89.4 787.5	90.4	91.2 810.0	92.3 808.8	
Gross domestic product of non- financial corpo- rate business	1,535.2	1,733.0	1,537.7	1,604.7	1,690.1	1,716.3	1,760.3		Indirect business tax and nontax liability plus business transfer pay- ments less subsidies	95.4	97.3	95.3	97.2	97.5	96.7	97.7	97.4
Capital consumption allow- ances with CCAdj	165.9	186.6	168.6	173.0	177.1	183.7	189.7	195.9	Domestic income	683.6	707.6	676.5	690.3	713.1	713.3	711.1	

Table 1.14-1.15.—Auto Output in Current and Constant Dollars

				Billions of	of dollars						Bil	llions of 1	1972 dolla	rs		
			\$	Seasonall	y adjuste	ed at ann	ual rates	;				Seasonal	y adjuste	d at ann	ual rates	5
	1980	19817	19	80		19	81		1980	1981'	19	80		19	81	
			III	IV	I	П	III	IV '			ш	IV	I	II	ш	IV '
Auto output	60.2	69.3	54.3	68.8	68.1	73.6	76.8	58.9	38.6	41.6	34.6	42.8	42.8	44.3	44.8	34.5
Final sales	$ \begin{array}{r} 61.8 \\ 46.2 \\ 15.6 \\ 12.4 \\ 21.2 \\ -8.8 \\ -12.9 \\ 4.0 \\ 16.8 \\ \end{array} $	69.5 68.2 49.4 18.7 14.4 24.4 -10.0 -13.9 3.9 17.8 .8 1 .0 2	$57.8 \\ 58.7 \\ 44.3 \\ 14.4 \\ 13.3 \\ 21.9 \\ -8.7 \\ -15.1 \\ 3.4 \\ 18.4 \\ -3.5 \\ -3.8 \\ -3.8 \\ .4$	$\begin{array}{c} \textbf{65.5} \\ \textbf{66.1} \\ \textbf{48.8} \\ \textbf{17.3} \\ \textbf{12.5} \\ \textbf{22.4} \\ \textbf{-9.9} \\ \textbf{-13.9} \\ \textbf{3.9} \\ \textbf{17.8} \\ \textbf{3.9} \\ \textbf{17.8} \\ \textbf{3.2} \\ \textbf{3.5} \\ \textbf{3} \end{array}$	$\begin{array}{c} \textbf{77.9} \\ \textbf{75.6} \\ \textbf{57.4} \\ \textbf{18.2} \\ \textbf{13.7} \\ \textbf{24.7} \\ \textbf{-11.0} \\ \textbf{-12.2} \\ \textbf{4.1} \\ \textbf{16.3} \\ \textbf{.8} \\ \textbf{-9.8} \\ \textbf{-10.8} \\ \textbf{1.0} \end{array}$	$\begin{array}{c} \textbf{62.7} \\ \textbf{63.3} \\ \textbf{44.3} \\ \textbf{19.0} \\ \textbf{12.9} \\ \textbf{22.3} \\ \textbf{-9.4} \\ \textbf{-14.2} \\ \textbf{4.0} \\ \textbf{18.2} \\ \textbf{.7} \\ \textbf{10.9} \\ \textbf{12.5} \\ \textbf{-1.6} \end{array}$	$\begin{array}{c} \textbf{75.2}\\ \textbf{70.2}\\ \textbf{51.6}\\ \textbf{18.6}\\ \textbf{17.2}\\ \textbf{28.8}\\ \textbf{-11.6}\\ \textbf{-13.1}\\ \textbf{4.6}\\ \textbf{17.7}\\ \textbf{.9}\\ \textbf{1.6}\\ \textbf{7}\\ \textbf{2.3} \end{array}$	62.1 63.5 44.4 19.1 13.7 21.9 -8.2 -15.9 2.9 18.8 .8 -3.2 8 -2.4	39.9 36.5 28.6 7.8 8.5 13.2 - 4.7 - 5.5 2.4 8.0 5 - 1.3 9 3	$\begin{array}{c} \textbf{41.5} \\ \textbf{36.6} \\ \textbf{29.1} \\ \textbf{7.5} \\ \textbf{9.9} \\ \textbf{14.3} \\ \textbf{-4.4} \\ \textbf{-5.4} \\ \textbf{-5.4} \\ \textbf{7.7} \\ \textbf{.5} \\ \textbf{.1} \\ \textbf{1} \end{array}$	$\begin{array}{r} \textbf{36.8} \\ \textbf{34.3} \\ \textbf{26.9} \\ \textbf{7.4} \\ \textbf{8.6} \\ \textbf{13.4} \\ \textbf{-4.8} \\ \textbf{-6.6} \\ \textbf{1.8} \\ \textbf{8.4} \\ \textbf{.5} \\ \textbf{-2.2} \\ \textbf{-2.2} \\ \textbf{-2.2} \\ \textbf{.2} \end{array}$	40.9 37.5 29.7 7.8 8.9 13.6 4.7 6.0 2.4 8.3 .5 1.9 2.1 1	$\begin{array}{r} \textbf{48.5} \\ \textbf{42.8} \\ \textbf{35.0} \\ \textbf{7.8} \\ \textbf{9.9} \\ \textbf{15.0} \\ \textbf{-5.7} \\ \textbf{-5.7} \\ \textbf{-5.7} \\ \textbf{-6.2} \\ \textbf{.4} \end{array}$	37.8 34.2 26.1 8.1 8.8 13.0 -4.3 -5.6 2.4 8.0 .4 6.6 7.3 7	44.1 37.0 29.7 7.3 11.6 16.5 -4.9 2.6 7.7 .5 .7 7.7 .2 1.0	35.8 32.2 25.4 7.0 9.5 12.1 -6.4 1.0 8.0 -1.1 -5.1
Addenda: Domestic output of new autos ¹ Sales of imported new autos ²	48.8 21.7	54.5 24.7	45.3 21.2	55.4 23.2	52.2 26.3	$59.1 \\ 23.5$	61.6 24.4	45.2 24.8	30.2 13.5	31.9 14.5	27.3 12.9	33.7 14.1	31.8 16.0	34.8 13.8	35.4 14.0	25.1 14.1

Table 1.16-1.17.—Truck Output in Current and Constant Dollars

Truck output ¹	25.7	27.0	23.2	27.7	27.0	28.5	25.4	27.3	13.8	13.1	12.2	14.3	13.6	13.9	12.1	12.7
Final sales Personal consumption expenditures Producers' durable equipment Net exports Exports Imports Government purchases	7.9 17.6	27.2 8.1 17.0 -1.6 3.3 4.9 3.8	27.5 7.9 18.0 -1.9 3.1 5.0 3.4	26.8 7.5 16.8 -1.0 3.3 4.3 3.5	27.6 7.8 16.9 7 3.6 4.3 3.6	$\begin{array}{r} \textbf{28.1} \\ \textbf{8.2} \\ \textbf{17.4} \\ -\textbf{1.1} \\ \textbf{3.4} \\ \textbf{4.5} \\ \textbf{3.7} \end{array}$	27.4 8.6 17.5 -2.5 3.2 5.7 3.8	25.8 7.8 16.3 -2.2 3.1 5.3 3.9	14.9 4.9 9.1 8 1.6 2.3 1.7	13.2 4.7 7.7 -1.0 1.5 2.5 1.7	14.5 4.8 9.1 -1.2 1.6 2.8 1.7	13.7 4.5 8.2 7 1.6 2.3 1.7	13.9 4.7 8.0 6 1.7 2.3 1.7	13.7 4.8 8.0 8 1.5 2.4 1.7	$13.0 \\ 4.9 \\ 7.8 \\ -1.4 \\ 1.4 \\ 2.8 \\ 1.7$	$12.0 \\ 4.5 \\ 7.1 \\ -1.3 \\ 1.3 \\ 2.6 \\ 1.7$
Change in business inventories	-2.1	2	- 4.3	.9	6	.4	-2.0	1.5	-1.2	1	-2.2	.5	3	.2	-1.0	.7

 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

				D:11/					
	-			Billions of					
	1980	1981 ⁷	19	Seasonall	y adjuste	ed at and 19		s	
	1360	1301		IV		13 II	ш	IV '	
Personal income	2,160.2	2,404.0	2,182.1	2,256.2	2,319.8	2,368.5	2,441.7	2,485.9	
Wage and salary disburse- ments	1,343.7	1,482.6	1,341.8	1,397.8	1,442.9	1,467.0	1,498.5	1,522.1	I
Commodity-producing				101.0	501.0		500.0	501.0	Durabl
industries Manufacturing	465.4 350.7	512.7 387.3	460.1 346.7	484.0 364.9	501.3 377.4	508.1 386.7	520.2 393.9	521.0 391.0	Moto
Distributive industries	328.9 295.7	361.0 335.0	329.2 298.7	340.6 310.0	351.9 322.5	357.8 330.5	365.3 338.5	369.1 348.7	Furn equ
Service industries Government and govern-					1			1	Othe
ment enterprises	253.6	273.9	253.9	263.3	267.1	270.5	274.5	283.3	Nondu
Other labor income	137.1	154.2	139.1	143.5	148.0	151.8	156.3	160.5	Food Cloth
Proprietors' income with IVA and CCAdj	130.6	134.6	129.7	134.0	132.1	134.1	137.1	135.2	Gaso Othe
Farm Nonfarm	23.4 107.2	22.3 112.4	$\begin{array}{r} 22.1\\107.6\end{array}$	$22.5 \\ 111.6$	18.9 113.2	21.7 112.5	24.7 112.4	23.8 111.5	Fue Oth
Rental income of persons with CCAdj	31.8	33.6	32.0	32.4	32.7	33.3	33.9	34.5	Service
Personal dividend income	54.4	61.3	55.1	56.1	58.0	60.2	63.0	64.1	Hous Hous Ele
Personal interest income	256.3	308.6	261.8	269.7	288.7	300.9	315.7	329.0	Otl Tran
Transfer payments	294.2	333.2	310.7	313.9	319.6	324.2	342.2	347.0	Othe
Old-age, survivors, dis- ability, and health in- surance benefits Government unemploy-	153.8	180.4	163.2	165.3	169.8	172.0	188.5	191.4	I
ment insurance bene- fits Veterans benefits	16.0 15.0	15.5 16.0	19.0 14.9	17.5 15.5	15.6 15.9	15.6 15.9	14.8 15.9	$16.0 \\ 16.4$	Durabl
Government employees retirement benefits Other transfer payments	42.8 66.7	48.5 72.8	43.1 70.5	45.7 69.9	46.7 71.7	48.5 72.3	48.9 74.0	49.9 73.4	Moto Furn
Aid to families with de- pendent children Other	$12.4 \\ 54.3$	13.4 59.4	12.8 57.7	$\begin{array}{c} 13.1 \\ 56.8 \end{array}$	$13.3 \\ 58.3$	$13.6 \\ 58.7$	$\begin{array}{c} 13.4\\ 60.5\end{array}$	$\begin{array}{c} 13.2\\ 60.1\end{array}$	equ Othe
Less: Personal contribu- tions for social insurance.	87.9	104.2	88.1	91.2	102.3	103.1	105.0	106.5	Food
Less: Personal tax and nontax payments	338.5	388.1	341.5	359.2	372.0	382.9	399.8	398.0	Cloth Gaso Othe
Equals: Disposable person- al income	1,821.7	2,015.8	1,840.6	1,897.0	1,947.8	1,985.6	2,042.0	2,087.9	Fu Otl
Less: Personal outlays	1,720.4	1,908.5	1,729.2	1,799.4	1,858.9	1,879.0	1,935.1	1,961.2	Service
Personal consumption expenditures	1,672.8	1,857.8	1,682.2	1,751.0	1,810.1	1,829.1	1,883.9	1,908.4	Hous Hous Ele
Interest paid by consum- ers to business Personal transfer pay-	46.4	49.5	46.0	46.8	47.8	48.9	50.3	51.2	Otl Trans Othe
ments to foreigners (net)	1.2	1.2	1.0	1.6	1.0	1.0	1.0	1.6	
Equals: Personal saving	101.3	107.3	111.4	97.6	88.9	106.6	106.9	126.7	Та
Addenda: Disposable personal income: Total, billions of 1972 dollars	1,018.4	1,040.3	1,018.5	1,025.8	1,033.3	1,036.8	1,043.6	1,047.3	
Per capita: Current dollars	8,002	8,769	8,074	8,299	8,504	8,651	8,873	9,048	Contrib surar
1972 dollars Population (millions)	4,473	4,525 229.9	4,468 228.0	4,488 228.6	4,511 229.1	4,517 229.5	4,535 230.1	4,539 230.7	Perso
Personal saving as per- centage of disposable									Empl Gov e Oth
personal income	5.6	5.3	6.1	5.1	4.6	5.4	5.2	6.1	Interest

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

			1	Billions of	of dollars	,		
			S	easonall	y adjuste	ed at ann	ual rate	 5
	1980	1981 7	19	80		19	81	
			Ш	IV	I	п	III	IV '
Personal consump- tion expenditures	1,672.8	1,857.8	1,682.2	1,751.0	1,810.1	1,829.1	1,883.9	1,908.4
Durable goods	211. 9	232.1	208,8	223.3	238.3	227.3	236.2	226.8
Motor vehicles and parts Furniture and household equipment Other	89.9 84.6 37.3	98.4 92.6 41.1	87.0 84.6 37.2	94.6 88.9 39.8	105.4 92.3 40.6	93.4 92.4 41.6	101.6 93.2 41.4	93.4 92.6 40.8
Nondurable goods	675.7	743.0	674.2	703.5	726.0	735.3	751.3	759.3
Food	345.7 104.8 89.0 136.2 19.8 116.4 785.2	381.5 116.0 94.8 150.6 20.9 129.7 882.7	347.7 105.3 85.3 136.0 20.7 115.3 799.2	360.4 109.4 90.5 143.3 20.5 122.7 824.2	372.5 113.4 93.5 146.6 20.5 126.1 845.8	377.8 115.8 92.4 149.4 21.0 128.4 866.5	386.5 117.5 95.1 152.1 21.3 130.8 896.4	389.4 117.1 98.4 154.4 20.8 133.6 922.2
Housing Household operation Electricity and gas Other Transportation Other	$\begin{array}{c} 272.0 \\ 111.6 \\ 55.7 \\ 56.0 \\ 64.1 \\ 337.5 \end{array}$	306.7 126.4 62.9 63.5 68.9 380.7	$\begin{array}{r} 275.7 \\ 116.1 \\ 59.3 \\ 56.8 \\ 65.8 \\ 341.5 \end{array}$	$285.3 \\116.9 \\58.8 \\58.2 \\67.5 \\354.5$	$293.6 \\118.1 \\58.4 \\59.7 \\67.6 \\366.5$	$\begin{array}{r} 302.1 \\ 123.4 \\ 61.5 \\ 61.9 \\ 67.9 \\ 373.0 \end{array}$	$\begin{array}{r} 310.9 \\ 130.5 \\ 65.5 \\ 65.0 \\ 69.6 \\ 385.4 \end{array}$	$320.3 \\ 133.4 \\ 66.3 \\ 67.1 \\ 70.5 \\ 398.0$
			Bil	lions of	1972 doll	ars		
Personal consump- tion expenditures	9 35.1	958.8	930.8	946.8	960.2	955.1	962.8	957.2
Durable goods	135.8	139.4	132.6	139.1	146.8	137.4	140.3	133.2
Motor vehicles and parts Furniture and household equipment Other	53.8 58.9 23.1	54.2 61.1 24.1	51.5 58.4 22.6	54.6 60.7 23.8	60.6 62.1 24.1	51.7 61.2 24.5	55.0 60.9 24.3	49.5 60.1 23.6
Nondurable goods	358.4	367.1	354.9	360.4	364.5	367.0	368.8	368.2
Food Clothing and shoes Gasoline and oil Other nondurable goods Fuel oil and coal Other	$181.5 \\78.0 \\26.2 \\72.6 \\4.2 \\68.4$	$184.4 \\83.7 \\25.2 \\73.8 \\3.6 \\70.2$	$180.1 \\78.3 \\25.2 \\71.4 \\4.3 \\67.0$	179.9 80.1 26.3 74.1 4.2 69.8	182.9 82.8 24.9 74.0 3.7 70.3	185.0 84.0 24.4 73.6 3.6 70.0	$ \begin{array}{c} 185.2\\ 84.2\\ 25.7\\ 73.8\\ 3.7\\ 70.1 \end{array} $	$184.5 \\83.8 \\26.0 \\74.0 \\3.6 \\70.4$
Services	440.9	452.3	443.3	447.3	448.9	450.7	453.7	455.8
Housing. Household operation Electricity and gas Other Transportation Other		170.2 62.6 23.1 39.5 34.6 184.9	$164.8 \\ 62.6 \\ 24.1 \\ 38.4 \\ 34.7 \\ 181.2$	$166.5 \\ 62.1 \\ 23.4 \\ 38.7 \\ 35.1 \\ 183.6$	$168.0 \\ 61.4 \\ 22.6 \\ 38.8 \\ 34.8 \\ 184.6$	169.6 62.4 23.2 39.3 34.5 184.2	170.8 63.3 23.4 39.9 34.6 185.0	172.3 63.1 23.2 39.9 34.6 185.8

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

[Billions of dollars]

	(2000						
45.1	52.1	46.0	47.8	49.6	51.5	53.0	54.5
			}		}	1	
31.5	36.4	32.3	33.7	34.8	35.9	36.9	38.0
7.7	8.9	8.1	8.4	8.6	8.8	8.9	9.1
23.8	27.6	24.3	25.3	26.3	27.1	28.0	28.8
21.0	24.3	91.4	99.4	929	24.0	947	25.5
2.8	3.2	2.8	2.9	3.0	3.2	3.3	3.4
		i	}	}			
13.6	15.7	13.7	14.1	14.8	15.6	16.0	16.5
18.2	20.0	18.3	18.8	19.2	19.8	20.3	20.8
						{	
6	6	6	6	6	6	6	.6
						.0	
17.6	19.4	17.8	18.2	18.7	19.2	19.7	20.2
-		· .]	Į	1
26.9	32.1	27.7	29.0	30.4	31.7	32.7	33.7
	31.5 7.7 23.8 21.0 2.8 13.6 18.2 .6 17.6	45.1 52.1 31.5 36.4 7.7 8.9 23.8 27.6 21.0 24.3 2.8 3.2 13.6 15.7 18.2 20.0 .6 .6 17.6 19.4	45.1 52.1 46.0 31.5 36.4 32.3 7.7 8.9 8.1 23.8 27.6 24.3 21.0 24.3 21.4 2.8 3.2 2.8 13.6 15.7 13.7 18.2 20.0 18.3 .6 .6 .6 17.6 19.4 17.8	31.5 36.4 32.3 33.7 7.7 8.9 8.1 24.3 23.8 27.6 24.3 25.3 21.0 24.3 21.4 22.4 2.8 3.2 2.8 2.9 13.6 15.7 13.7 14.1 18.2 20.0 18.3 18.8 .6 .6 .6 .6 17.6 19.4 17.8 18.2	45.1 52.1 46.0 47.8 49.6 31.5 36.4 32.3 33.7 34.8 7.7 8.9 8.1 8.4 8.6 23.8 27.6 24.3 25.3 26.3 21.0 24.3 21.4 22.4 23.2 2.8 3.2 2.8 2.9 3.0 13.6 15.7 13.7 14.1 14.8 18.2 20.0 18.3 18.8 19.2 .6 .6 .6 .6 .6 .6 17.6 19.4 17.8 18.2 18.7	45.1 52.1 46.0 47.8 49.6 51.5 31.5 36.4 32.3 33.7 34.8 35.9 7.7 8.9 8.1 24.3 25.3 26.3 27.1 21.0 24.3 21.4 22.4 23.2 24.0 3.2 13.6 15.7 13.7 14.1 14.8 15.6 18.2 20.0 18.3 18.8 19.2 19.8 .6 .6 .6 .6 .6 .6 .6 17.6 19.4 17.8 18.2 18.7 19.2	45.1 52.1 46.0 47.8 49.6 51.5 53.0 31.5 36.4 32.3 33.7 34.8 35.9 36.9 7.7 8.9 8.1 8.4 8.6 8.8 8.9 23.8 27.6 24.3 25.3 26.3 27.1 28.0 21.0 24.3 21.4 22.4 23.2 24.0 24.7 2.8 3.2 2.8 2.9 3.0 3.2 3.3 13.6 15.7 13.7 14.1 14.8 15.6 16.0 18.2 20.0 18.3 18.8 19.2 19.8 20.3 .6 .6 .6 .6 .6 .6 .6 .6 17.6 19.4 17.8 18.2 18.7 19.2 19.7

 Table 3.14:

 NOTE.—In this table, interest and dividends received are 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

		·		Billions	of dollars				<u></u>			1	Billions	of dollars			
					y adjuste		ual rate							v adjuste		ual rate	5
	1980	1981 r	19		, ,	19				1980	1981 r	19			19		
			III	IV	I	п	ш	IV '				ш	IV	I	11	ш	IV '
Receipts	540.8	625.8	540.8	573.2	617.4	621.0	638.3		Receipts	384.0	417.1	386.8	403.4	411.7	413.6	419.6	
Personal tax and nontax receipts Income taxes Estate and gift taxes Nontaxes	257.8 251.0 6.6 .2	296.2 289.0 7.0 .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	306.4 299.1 7.1 .2	301.9 294.1 7.5 .3	Personal tax and nontax receipts Income taxes Nontaxes Other	80.7 44.9 27.9 7.9	91.9 51.9 31.4 8.7	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	96.1 54.0 33.0 9.1
Corporate profits tax accru- als	70.2	65.9	66.7	72.6	74.6	64.8	66.4		Corporate profits tax accru- als	12.2	11.7	11.7	12.6	13.1	11.6	11.7	
Indirect business tax and nontax accruals Excise taxes Customs duties Nontaxes	40.6 29.1 7.2 4.4	61.2 47.5 8.6 5.1	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	61.8 47.6 9.0 5.2	59.9 45.1 9.4 5.4	Indirect business tax and nontax accruals	171.6 82.9 67.5 21.2	189.9 92.7 72.6 24.6	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	192.3 94.2 73.1 25.0	195.5 94.4 75.1 26.0
Contributions for social insurance	172.2	202.5	171.8	178.6	198.9	200.4	203.7	206.9	Contributions for social in- surance	31.5	36.4	32.3	33.7	34.8	35.9	36.9	38.0
Expenditures	602.0	688.3	615.0	641.1	664.0	668.2	694.0	727.1	Federal grants-in-aid	88.0	87.1	87.7	91.8	90.2	89.6	85.4	83.4
Purchases of goods and services National defense Nondefense	198.9 131.7 67.2	$230.3 \\ 154.4 \\ 75.9$	$194.9 \\ 131.4 \\ 63.5$	212.0 141.6 70.4	$221.6 \\ 145.2 \\ 76.4$	$219.5 \\ 148.2 \\ 71.3$	$226.4 \\ 154.1 \\ 72.2$	$253.6 \\ 170.1 \\ 83.5$	Expenditures Purchases of goods and services	355.0 335.8	380.4 361.0	358.2 338.6	3 66.3 346.6	374.8 354.9	377.5 357.9	381.8 362.5	387.6 368.6
Transfer payments To persons To foreigners	249.8 244.9 4.9	284.5 279.4 5.1	265.3 260.4 4.9	269.0 262.6 6.4	271.9 267.3 4.7	274.8 270.7 4.1	293.6 287.8 5.8	297.6 291.8 5.7	Compensation of employ- ees Other	187.4 148.4	203.3 157.6	189.3 149.3	193.3 153.3	198.0 156.9	201.6 156.2	205.0 157.5	208.7 159.9
Grants-in-aid to State and local governments	88.0	87.1	87.7	91.8	90.2	89.6	85.4	83.4	Transfer payments to per- sons	38.9	42.2	39.7	40.5	41.2	42.1	42.6	43.0
Net interest paid Interest paid	53.3 67.5	73.3 91.2	$53.5 \\ 68.2$	55.2 70.8	67.7 84.4	$70.4 \\ 88.0$	75.6 94.3	79.4 98.3	Net interest paid Interest paid Less: Interest received	$-10.8 \\ 17.6 \\ 28.4$	-12.8 19.4 32.3	$-11.1 \\ 17.7 \\ 28.8$	-11.4 18.0 29.5	$-11.8 \\ 18.6 \\ 30.4$	-12.4 19.2 31.6	$-13.2 \\ 19.7 \\ 32.9$	-13.9 20.3 34.2
To persons and busi- ness To foreigners Less: Interest received	$55.0 \\ 12.5 \\ 14.2$	74.8 16.4 18.0	56.3 11.9 14.8	$56.7 \\ 14.1 \\ 15.6$	68.6 15.8 16.7	71.0 17.0 17.6	77.2 17.1 18.7	82.5 15.8 18.8	Less: Dividends received Subsidies less current sur-	1.6	1.8	1.6	1.6	1.6	1.8	1.8	1.9
Subsidies less current sur- plus of government enterprises	12.0 10.7	13.2 12.8	13.7 10.7	$13.1 \\ 11.6$	12.6 11.9	13.9 12.2	$13.3 \\ 12.7$	$13.1 \\ 14.2$	plus of government enterprises Subsidies Less: Current surplus of government enterprises	-7.4 .4 7.7	-8.2 .4 8.6	7.5 .4 7.8	-7.7 .4 8.1	-7.9 .4 8.3	-8.2 .4 8.6	-8.2 .4 8.6	-8.3 .4 8.7
Less: Current surplus of government enterprises	-1.3	5	- 3.1	1.4	7	1.7	6	1.1	Less: Wage accruals less disbursements	0	0	0	0	0	0	0	0
Less: Wage accruals less disbursements	0	0	0	0	0	0	.2	1	Surplus or deficit (-), NIPA's	29.1	36.6	28.6	37.1	36.9	36.1	37.8	
Surplus or deficit (-), NIPA's	- 61.2	-62.5	-74.2	- 67.9	- 46.6	-47.2	- 55.7		Social insurance funds Other	26.9 2.1	32.1 4.5	27.7 .9	29.0 8.1	30.4 6.6	31.7 4.3	$32.7 \\ 5.1$	33.7
Social insurance funds Other	-14.2 -47.0	$-12.4 \\ -50.1$	$-27.1 \\ -47.1$	$-22.2 \\ -45.8$	-4.6 -42.0	6.1 41.1	$-18.9 \\ -36.8$	- 20.1									

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

	Billions of dollars									Bil	lions of .	1972 dolla	ars			
				Seasonall	y adjuste	d at ann	ual rates	1			1	Seasonal	ly adjuste	ed at ann	ual rates	;
	1980	1981 ^r	19	1980		19	81		1980	1981 ^r	1980		1981			
			III	IV	I	II	III	IV '			m	IV	I	п	III	IV '
Government purchases of goods and services	534.7	591.3	533.5	558.6	576.5	577.4	588.9	622.2	290.0	291.8	288.2	289.8	293.6	289.5	288.3	295.6
Federal National defense. Durable goods. Nondurable goods. Services Compensation of employees. Military. Civilian Other services. Structures	$32.9 \\ 10.9 \\ 84.7$	$\begin{array}{c} 230.3 \\ 154.4 \\ 39.3 \\ 13.3 \\ 98.8 \\ 59.4 \\ 34.9 \\ 24.5 \\ 39.4 \\ 3.1 \end{array}$	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	226.4 154.1 40.7 12.3 98.1 58.4 33.9 24.4 39.8 3.0	253.6 170.1 42.9 15.0 108.9 64.0 38.6 25.5 44.8 3.4	108.1 70.9 18.4 2.5 48.5 32.1 18.9 13.2 16.4 1.6	$\begin{array}{c} \textbf{111.6} \\ 74.0 \\ 19.3 \\ 2.7 \\ 50.6 \\ 32.4 \\ 19.2 \\ 13.3 \\ 18.2 \\ 1.4 \end{array}$	106.9 70.9 18.0 2.3 48.7 32.2 18.9 13.2 16.5 1.9	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	109.6 74.0 19.5 2.5 50.6 32.6 19.2 13.3 18.1 1.4	116.9 77.2 20.2 3.0 52.5 32.7 19.3 13.3 19.9 1.5
Nondefense Durable goods. Nondurable goods. Services. Compensation of employees. Other services. Structures	1.5 4.1 55.1	$75.9 \\ 1.8 \\ 10.5 \\ 56.3 \\ 30.6 \\ 25.7 \\ 7.3$	$\begin{array}{r} 63.5 \\ 1.5 \\ -1.1 \\ 56.3 \\ 28.8 \\ 27.5 \\ 6.8 \end{array}$	$70.4 \\ 1.6 \\ 5.3 \\ 57.0 \\ 30.3 \\ 26.7 \\ 6.5$	76.4 2.0 9.2 57.6 30.6 27.0 7.7	$71.3 \\ 1.8 \\ 5.4 \\ 57.0 \\ 30.4 \\ 26.5 \\ 7.2$	$72.2 \\ 1.6 \\ 8.6 \\ 55.0 \\ 30.1 \\ 24.9 \\ 7.1$	83.5 1.7 18.8 55.6 31.3 24.3 7.4	37.2 .9 2.0 31.1 17.1 14.0 3.2	37.6 .9 4.2 29.2 16.6 12.6 3.3	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	$\begin{array}{r} 36.1 \\ 1.0 \\ 2.1 \\ 29.8 \\ 16.7 \\ 13.1 \\ 3.2 \end{array}$	35.6 .8 3.1 28.5 16.4 12.0 3.1	39.7 .8 7.7 27.9 16.4 11.6 3.2
State and local Durable goods Nondurable goods Services Compensation of employees Other services Structures	253.7	361.0 11.2 29.1 277.6 203.3 74.2 43.2	$\begin{array}{r} \textbf{338.6} \\ 10.7 \\ 26.7 \\ 256.3 \\ 189.3 \\ 67.1 \\ 44.9 \end{array}$	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	362.5 11.2 29.6 281.1 205.0 76.1 40.7	368.6 11.2 29.7 286.3 208.7 77.6 41.4	$181.9 \\ 6.3 \\ 13.7 \\ 141.4 \\ 106.0 \\ 35.4 \\ 20.5$	180.2 6.1 14.0 141.6 105.9 35.7 18.5	$181.3 \\ 6.3 \\ 13.7 \\ 141.4 \\ 106.1 \\ 35.3 \\ 20.0$	182.4 6.2 14.0 142.0 106.3 35.6 20.2	$182.5 \\ 6.2 \\ 14.0 \\ 141.9 \\ 106.4 \\ 35.5 \\ 20.4$	$180.7 \\ 6.2 \\ 14.0 \\ 141.9 \\ 106.2 \\ 35.7 \\ 18.6$	$178.8 \\ 6.1 \\ 14.0 \\ 141.4 \\ 105.6 \\ 35.8 \\ 17.3$	178.8 6.0 14.0 141.2 105.4 35.7 17.6

Table 4.1-4.2--Foreign Transactions in the National Income and Product Accounts in Current and Constant Dollars

		Billions of dollars Seasonally adjusted at annual rates									Bil	lions of 1	972 dolla	urs		
				Seasonall	iy adjuste	ed at ann	ual rates				1	Seasonali	y adjuste	d at ann	ual rates	1
	1980	1981 ′	1980			1981		1980	1981 7	19	80		1981			
			III	IV	I	Π	ш	IV '			III	IV	I	п	ш	IV '
Receipts from foreigners	340.9	366.7	343.5	347.2	368.5	369.3	369.1	360.0								ļ
Exports of goods and services Merchandise Durable goods Nondurable goods	339.8 218.2 127.7 90.5	365.6 229.6 132.6 96.9	342.4 222.9 129.9 93.0	346.1 221.0 127.5 93.6	367.4 236.3 132.5 103.9	368.2 234.2 139.4 94.8	368.0 225.1 132.6 92.5	358.9 222.7 126.0 96.7	161.1 92.2 55.6 36.6	159.6 88.9 51.1 37.8	160.5 93.5 55.7 37.8	157.4 89.0 52.5 36.4	162.5 92.4 52.9 39.5	161.5 91.0 54.3 36.7	160.1 86.6 50.2 36.4	154.2 85.5 47.0 38.5
Services Factor income ¹ Other	121.6 79.5 42.1	136.1 90.6 45.5	119.5 76.3 43.2	125.0 80.7 44.3	131.1 87.1 43.9	134.0 88.7 45.4	142.9 95.9 47.0	136.2 90.6 45.6	68.9 45.4 23.5	70.7 47.2 23.5	67.0 43.1 23.9	68.4 44.4 24.1	70.1 46.7 23.4	70.5 46.9 23.7	73.5 49.5 24.0	68.6 45.7 22.9
Capital grants received by the United States (net)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1						·····		ļ
Payments to foreigners	340.9	366.7	343.5	347.2	368.5	369.3	369.1	360.0								ļ
Imports of goods and services Merchandise Durable goods Nondurable goods	816.5 245.9 112.1 133.8	340.6 260.3 123.6 136.8	297.9 231.5 108.7 122.8	322.7 248.8 116.0 132.9	338.2 259.1 116.4 142.7	347.5 265.3 123.3 142.0	338.7 255.8 125.7 130.1	338.2 261.1 128.9 132.3	109.1 74.0 47.6 26.4	115.1 78.4 51.0 27.4	102.8 70.5 45.8 24.6	108.9 73.4 47.5 25.8	111.6 74.5 47.7 26.8	115.4 77.3 50.6 26.7	116.9 79.1 52.0 27.1	116.7 82.8 53.8 29.0
Services Factor income ¹ Other	70.6 29.9 40.7	80.3 36.6 43.7	66.4 25.9 40.6	73.9 32.2 41.7	79.1 34.9 44.2	82.2 38.3 43.8	82.9 40.3 42.6	77.0 33.0 44.0	35.1 17.0 18.1	36.7 19.1 17.6	32.4 14.6 17.8	35.5 17.7 17.8	37.1 18.7 18.4	$38.1 \\ 20.3 \\ 17.8$	37.8 20.8 17.0	33.9 16.7 17.2
Fransfer payments (net) From persons (net) From government (net)	6.0 1.2 4.9	6.2 1.2 5.1	5.9 1.0 4.9	8.0 1.6 6.4	5.7 1.0 4.7	5.1 1.0 4.1	6.8 1.0 5.8	7.3 1.6 5.7			•					
Interest paid by government to foreigners	12.5	16.4	11.9	14.1	15.8	17.0	17.1	15.8								ļ
Net foreign investment	5.9	3.5	27.8	2.3	8.8	2	6.5	- 1.3								

 Table 4.1-4.2:

 1. Equals rest-of-the-world production as shown in tables 1.5-1.6.

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

				Billions o	of dollars						Bil	lions of 1	1972 dolla	ırs		
				Seasonall	y adjuste	ed at ann	ual rates	, , , ,				Seasonall	ly adjuste	d at ann	ual rates	· · · · · ·
	1980	1981 <i>'</i>	19	80		19	81		1980	1981 <i>'</i>	19	80		19	81	
			ш	IV	I	11	m	IV'			III	IV	I	п	III	IV'
Merchandise exports	218.2	229.6	222.9	221.0	236.3	234.2	225.1	222.7	92.2	88.9	93.5	89.0	92.4	91.0	86.6	85.5
Foods, feeds, and beverages	35.9	38.8	38.4	38.8	44.9	38.8	35.8	35.9	15.3	15.7	16.4	15.2	17.1	15.1	15.0	15.7
Industrial supplies and materials Durable goods Nondurable goods	67.1 24.3 42.8	64.9 20.6 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	62.4 19.2 43.2	66.6 19.5 47.1	$23.7 \\ 8.6 \\ 15.1$	$22.1 \\ 7.0 \\ 15.1$	$23.5 \\ 8.3 \\ 15.2$	$23.0 \\ 7.8 \\ 15.2$	23.1 7.6 15.5	$21.4 \\ 7.3 \\ 14.1$	$21.2 \\ 6.5 \\ 14.7$	22.7 6.7 16.1
Capital goods, except autos	73.5	80.1	77.6	75.5	79.1	83.4	80.2	77.7	34.7	32.3	35.6	33.1	33.3	34.1	31.6	30.0
Autos	16.9	18.9	16.5	18.1	18.5	20.8	20.2	16.3	6.8	6.6	6.5	6.8	6.8	7.3	6.9	5.4
Consumer goods Durable goods Nondurable goods	16.5 8.8 7.7	16.0 7.6 8.4	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 7.7 8.2	15.1 7.0 8.1	8.3 3.8 4.5	7.9 3.1 4.8	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	7.4 2.8 4.6
Otber Durable goods Nondurable goods	8.3 4.2 4.2	10.9 5.5 5.4	8.4 4.2 4.2	7.3 3.7 3.7	9.7 4.8 4.8	12.0 6.0 6.0	$10.7 \\ 5.4 \\ 5.3$	$11.2 \\ 5.6 \\ 5.6$	3.5 1.8 1.8	4.2 2.1 2.1	$3.5 \\ 1.8 \\ 1.8$	3.0 1.5 1.5	3.8 1.9 1.9	4.7 2.3 2.3	4.1 2.1 2.1	4.3 2.2 2.2
Merchandise Imports	245.9	260.3	231.5	248.8	259.1	265.3	255.8	261.1	74.0	78.4	70.5	73.4	74.5	77.3	79.1	82.8
Foods, feeds, and beverages	18.2	18.8	18.2	19.5	20.5	18.7	18.1	18.0	6.7	7.3	6.6	7.0	7.4	7.0	7.1	7.6
Industrial supplies and materials, excluding petroleum Durable goods Nondurable goods	$52.1 \\ 31.2 \\ 20.9$	56.8 33.6 23.2	47.5 27.6 19.9	51.6 31.2 20.4	55.4 32.1 23.3	57.4 35.3 22.0	57.7 34.7 23.0	56.6 32.2 24.4	$17.3 \\ 10.2 \\ 7.1$	19.0 11.2 7.8	15.6 8.9 6.7	16.9 10.0 6.9	18.4 10.6 7.8	19.1 11.7 7.4	19.4 11.6 7.8	19.2 10.9 8.3
Petroleum and products	79.1	77.2	69.1	76.8	82.8	84.3	71.3	70.5	6.9	5.9	5.8	6.2	6.3	6.2	5.6	5.7
Capital goods, except autos	30.1	33.8	30.0	31.2	32.0	32.1	34.6	36.7	14.7	17.1	14.4	14.8	15.3	16.1	17.7	19.2
Autos	27.1	30.0	28.1	28. 9	27.0	30.6	30.6	31.7	10.9	10.4	11.2	10.8	9.8	10.8	10.6	10.4
Consumer goods Durable goods Nondurable goods	34.4 21.2 13.1	38.4 23.5 14.8	34.3 20.8 13.5	34.8 21.7 13.1	37.1 23.2 13.9	$36.9 \\ 22.6 \\ 14.3$	$38.3 \\ 23.3 \\ 15.1$	41.2 25.1 16.1	15.5 10.9 4.7	$16.6 \\ 11.3 \\ 5.3$	15.2 10.5 4.7	$15.2 \\ 10.7 \\ 4.5$	15.7 11.2 4.4	$16.0 \\ 11.0 \\ 5.0$	16.6 11.0 5.5	18.1 12.0 6.2
Other Durable goods Nondurable goods	4.9 2.5 2.5	5.3 2.7 2.7	4.2 2.1 2.1	6.0 3.0 3.0	4.3 2.1 2.1	5.3 2.6 2.6	5.2 2.6 2.6	6.5 3.2 3.2	2.0 1.0 1.0	$2.1 \\ 1.1 \\ 1.1$	1.7 .8 .8	2.4 1.2 1.2	1.7 .8 .8	2.1 1.0 1.0	2.1 1.0 1.0	2.6 1.3 1.3
Addenda: Exports: Agricultural products Nonagricultural products Imports of nonpetroleum products	42.3 175.9 166.8	44.9 184.7 183.1	43.8 179.1 162.4	44.8 176.2 172.0	51.5 184.8 176.3	44.9 189.3 181.0	40.7 184.4 184.5	42.4 180.3 190.6	18.0 74.1 67.1	18.2 70.7 72.5	18.7 74.8 64.7	17.7 71.3 67.1	19.7 72.7 68.2	17.6 73.4 71.0	17.0 69.6 73.5	18.5 67.1 77.2

Table 5.1.—Gross Saving and Investment

			В	illions (of dollar	rs		
			Sea	asonally	adjuste	ed at an	nual ra	tes
	1980	1981 <i>'</i>	19	80		19	81	
			ш	IV	I	п	ш	IV '
Gross saving	401.9	454.9	402.0	406.7	442.6	465.3	469.4	
Gross private saving Personal saving Undistributed corporate profits	432.9 101.3	479.7 107.3	446.5 111.4	436.4 97.6	451.1 88.9	475.3 106.6	486.2 106.9	126.7
with IVA and CCAdj Undistributed profits IVA CCAdj	44.3 107.2 - 45.7 - 17.2	50.792.1-27.5-13.9	42.8 102.4 -41.7 -17.9	$\begin{array}{c} 40.4 \\ 106.6 \\ -48.4 \\ -17.8 \end{array}$	55.7 109.6 -39.2 -14.7	$52.0 \\ 90.6 \\ -24.0 \\ -14.7$	52.8 91.5 25.3 13.4	21.5 12.8
Capital consumption allowances with CCAdj: Corporate Noncorporate Wage accruals less disbursements	175.4 111.8 0	197.7 123.9 0	178.4 113.4 .5	183.2 115.8 5	187.5 119.0 0	194.6 122.1 0	201.1 125.4 0	207.7 129.1 0
Government surplus or deficit (~), NIPA's Federal State and local	32.1 61.2 29.1	- 25.9 - 62.5 36.6	- 45.6 - 74.2 28.6	-30.8 -67.9 37.1	- 9.7 -46.6 36.9		- 17.9 - 55.7 37.8	
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	401.2	454.1	405.0	400.1	446.0	458.3	469.6	442.7
Gross private domestic investment Net foreign investment	395.3 5.9	450.7 3.5	377.1 27.8	397.7 2.3	437.1 8.8	458.6 2	463.0 6.5	443.9 1.3
Statistical discrepancy	7	8	3.0	-6.6	3.4	-6.9	.2	

Table 5.8-5.9.—Change in Business Inventories by Industry in Current and Constant Dollars

			В	illions o	of dollar	s		
			Sea	sonally	adjuste	d at an	nual ra	tes
	1980	1981 ′	19	80		198	81	
			ш	IV	I	II	ш	IV ′
Change in business inven- tories	-5.9	17.0	- 16.0	-17.4	4.5	23.3	27.5	12.6
Farm Nonfarm Change in book value IVA ¹	$-1.2 \\ -4.7 \\ 49.3 \\ -54.0$	$2.3 \\ 14.6 \\ 46.1 \\ -31.4$	$ \begin{array}{r} -3.7 \\ -12.3 \\ 36.5 \\ -48.8 \end{array} $	-3.4 -14.0 42.4 -56.4	-2.4 6.8 52.7 -45.9	$^{1.8}_{\begin{array}{c} 21.5\\ 47.8\\ -26.3\end{array}}$	$4.4 \\ 23.1 \\ 51.7 \\ -28.6$	$5.5 \\ 7.1 \\ 32.0 \\ -24.9$
Manufacturing	$\begin{array}{c} -1.6 \\ 1.0 \\ .8 \\ .2 \\ 1.5 \\ 1.1 \\ .4 \\5 \\3 \\2 \end{array}$	$\begin{array}{c} 6.2\\ 4.3\\ 1.9\\ 4.7\\ 3.8\\ .9\\ 5.0\\ 3.6\\ 1.4\\3\\ .2\\5\\ 3.7\\ 0\\ 3.7\\ .1\\1\\ 1\end{array}$	$\begin{array}{c} -12.6 \\ -4.4 \\ -8.2 \\ -1.9 \\8 \\ -1.0 \\ 3.7 \\ -4.1 \\ -5.6 \\5 \\ -5.1 \\ 2.9 \\ -3.0 \\ 5.9 \\8 \\2 \\6 \end{array}$	$\begin{array}{c} -9.7 \\ -1.6 \\ -8.1 \\ .6 \\ 2.0 \\ -1.4 \\ .7 \\ 2.5 \\ -1.8 \\ -1.1 \\5 \\ 4.4 \\ -4.5 \\ .5 \\ -4.9 \\ -4.2 \\2 \end{array}$	$15.0 \\ 6.2 \\ 8.9 \\9 \\ 1.3 \\3.8 \\10 \\2.7 \\ 4.2 \\ 2 \\ 4.0 \\9.3 \\1 \\ .8 \\1 \\ .9 \\ $	$\begin{array}{c} 2.0\\ .6\\ 1.4\\ 7.5\\ 6.3\\ 1.2\\ 9.7\\ 6.4\\ 3.3\\ -2.2\\1\\ -2.1\\ 14.4\\ 11.7\\ 2.7\\ -2.4\\1\\ -2.3\end{array}$	$10.8 \\ 12.1 \\ -1.3 \\ .6 \\ 5.4 \\ -4.8 \\ 4.6 \\ 4.6 \\ -4.0 \\ 1.4 \\ -5.4 \\ 10.0 \\ 1.2 \\ 8.8 \\ 1.7 \\1 \\ 1.7 $	$\begin{array}{c} -3.0 \\ -1.8 \\ -1.2 \\ 10.1 \\ 35.9 \\ 9.4 \\ 4.9 \\ 4.9 \\ 4.9 \\6 \\ 1.4 \\2 \\3.7 \\ 3.6 \\ 2 \\1 \\ .3 \end{array}$
÷			Billi	ons of 1	972 dol	lars		
Change in business inven- tories	-2.9	7.6	-5.0	-7.2	-1.4	10.8	14.9	6.2
Farm Nonfarm Change in book value IVA		1.2 6.4	$-1.8 \\ -3.1$	-1.5 -5.6	-1.1 3	.9 9.9	2.2 12.8	2.8 3.4
Manufacturing Durable goods Nondurable goods Durable goods Nondurable goods Merchant wholesalers Durable goods Nonmerchant wholesalers Durable goods Nondurable goods Nondurable goods Nondurable goods Other Durable goods Nondurable goods	1 9 .5 .5 0 .6 .1	2.6 1.8 2.2 1.6 2.1 1.5 .6 2.1 1.5 .6 1.7 1 1.8 0 0 0 0	$\begin{array}{c} -5.2 \\ -1.8 \\ -3.4 \\ 9 \\2 \\ 1.1 \\ 1.9 \\ 0 \\ 2.0 \\ -1.1 \\2 \\9 \\ 1.3 \\ -1.7 \\ 3.0 \\1 \\ 0 \end{array}$	$\begin{array}{c} -3.6\\7\\ -2.8\\ 0\\8\\ 3\\ 1.0\\7\\3\\3\\3\\1\\ -1.9\\ 4\\ -2.3\\2\\1\\1\end{array}$	$\begin{array}{c} 4.6\\ 2.5\\ 2.1\\ -1.0\\9\\1.\\ -1.6\\7\\ .7\\ .6\\ -4.3\\ -4.7\\ .5\\ .4\\ 0\\ .4\end{array}$.9 .4 .5 3.0 2.8 .4 .2 2.8 .2 2.8 .4 .2 2.8 .4 .2 2.8 .4 .5 .2 2.8 .4 .5 .5 .2 2.8 .1 .1 9 0 9	5.4 5.2 2.7 2.3 .4 2.7 1.0 0 .6 4.5 .4 4.1 .2 0 .2 0 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	$\begin{array}{c}6\\8\\ 2\\ 4.1\\ 2.0\\ 2.1\\ 4.2\\ 2.3\\ 1.9\\1\\3\\3\\ -1.7\\ 1.4\\ .2\\ 0\\ .2\end{array}$

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

		E	Billions o	f dollars		
	Se	asonally	adjuste	d quarte	rly tota	ls
	19	80		198	31	
	ш	IV	I	п	ш	IV '
Inventories ¹	765.8	785.4	796.9	811.3	825.6	834.7
Farm	92.6	92.6	86.9	86.7	85.1	84.8
Nonfarm	673.2 379.9	692.8 393.7	710.0 397.8	724.6 408.8	740.5 422.7	749.9 427.9
Durable goods Nondurable goods	293.4	299.1	312.2	315.8	317.8	322.0
Manufacturing Durable goods	335.3	344.2	355.2	363.2	369.7	372.5
Durable goods Nondurable goods	215.5 119.8	$222.5 \\ 121.8$	226.9 128.2	231.8 131.3	239.9 129.8	242.5 130.0
-						
Wholesale trade	146.3 89.0	151.7 92.6	155.7 94.3	$158.8 \\ 97.6$	160.6 100.7	164.1 102.9
Nondurable goods	57.3	59.1	61.4	61.2	60.0	61.2
Merchant wholesalers	116.7	120.7	121.8	125.3	128.0	131.0
Durable goods	74.0	77.2	78.2	81.2	83.7	85.9
Nondurable goods	42.7	43.5	43.5	44.1	44.2	45.1
	29.6	31.0	33.9	33.5	32.6	33.1
Durable goods Nondurable goods	15.0	15.4	16.1	16.4	16.9	16.9
Nondurable goods	14.6	15.6	17.8	17.1	15.7	16.1
Retail trade	127.3	130.3	129.8	132.6	139.2	140.9
Durable goods	58.1	60.8	58.7	61.2	64.0	64.1
Nondurable goods	69.3	69.5	71.1	71.4	75.2	76.8
Other	64.3	66.5	69.4	70.0	71.0	72.0
Final sales ² Final sales of goods and structures	187.2 117.0	194.1 121.9	201.4 127.6	202.2 126.5	207.5 128.9	209.9 129.2
-						
Ratio: Inventories to final sales	4.09 3.60	4.05 3.57	3.96 3.53	4.01 3.58	$\frac{3.98}{3.57}$	3.98 3.57
Nonfarm inventories to final sales Nonfarm inventories to final sales of goods						
and structures	5.75	5.68	5.56	5.73	5.74	5.80
		Bill	ions of 1	972 doll	ars	
Inventories ¹	342.3	340.6	340.2	342.9	346.6	348.2
Farm	43.4	43.0	42.7	42.9	43.5	44.2
Nonfarm	299.0	297.6	297.5	300.0	303.2	304.0
Durable goods Nondurable goods	179.9 119.1	179.9 117.6	179.2 118.3	181.4 118.6	$\begin{array}{c}183.3\\119.8\end{array}$	$183.2 \\ 120.8$
Manufacturing	145.9	145.0	146.1	146.3	147.7	147.8
Durable goods Nondurable goods	99.0	98.9	99.5	99.6	100.9	100.7
Nondurable goods	46.8	46.1	46.6	46.8	46.8	46.9
Wholesale trade	64.7	64.7	64.4	65.2	65.8	66.9
Durable goods	42.5	42.7	42.4	43.1	43.7	44.
Nondurable goods	22.2	22.0	22.0	22.0	22.1	22.7
Merchant wholesalers	53.3	53.4	53.0	53.8	54.5	55.5
Durable goods	35.3	35.5	35.3	36.0	36.4	37.0 18.5
Nondurable goods Nonmerchant wholesalers	$18.1 \\ 11.3$	17.9 11.2	17.7 11.4	17.8 11.3	18.1 11.4	10.0
Durable goods	7.2	7.1	7.1	7.1	7.3	11.3 7.2
Durable goods	4.1	4.1	4.3	4.2	4.1	4.
	65.1	64.6	63.5	65.2	66.4	66.
Retail trade		30.3	29.2	30.6	30.7	30.3
Retail trade Durable goods	30.2		34.4	34.6	35.7	36.0
Retail trade Durable goods Nondurable goods Other	30.2 34.8 23.4	34.2	22 1	92 91	22.2	98.5
Other	23.4	34.2 23.4	23.4	23.2	23.3	23.3
Retail trade Durable goods Nondurable goods Other Final sales ² Final sales of goods and structures	30.2 34.8 23.4 103.9 64.7	34.2	23.4 107.3 67.9	23.2 105.9 66.2	23.3 105.9 65.9	23. 105. 64.
Other Final sales ² Final sales of goods and structures Ratio: Inventories to final sales	23.4 103.9 64.7 3.29	34.2 23.4 105.4 65.9 3.23	23.4 107.3 67.9 3.17	23.2 105.9 66.2 3.24	23.3 105.9 65.9 3.27	105. 64. 3.3
Other	23.4 103.9 64.7	34.2 23.4 105.4 65.9	23.4 107.3 67.9	23.2 105.9 66.2	23.3 105.9 65.9	105. 64.

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 busi-ness 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 physi-cal 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

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 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 un-derlying business income derived primarily from Internal Revenue Service statistics.

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

			-	Billions o	of dollars	5		
			5	Seasonall	y adjuste	ed at anr	ual rate	s
	1980	1981 '	19	80		19	81	
			ш	IV	I	II	ш	IV '
National income without CCAdj	2,180.4	2,406.3	2,183.1	2,265.6	2,350.2	2,381.1	2,437.6	
Domestic industries	2,130.8	2,352.3	2,132.6	2,217.1	2,297.9	2,330.7	2,382.0	
Private industries	1,829.1	2,022.9	1,830.1	1,903.1	1,977.2	2,005.4	2,051.3	
Agriculture, forestry, and fisheries Mining Construction	62.8 37.0 108.4	67.2 44.2 114.8	62.1 36.0 106.6	63.4 40.9 111.6	61.4 42.5 116.4	65.8 41.0 114.1	46.1	
Manufacturing Durable goods Nondurable goods	527.2 311.5 215.7	586.0 350.2 235.7	517.6 305.7 211.9	548.1 329.2 218.9	577.2 346.4 230.9	586.3 354.9 231.4	355.0	
Transportation and public utilities Transportation Communication Electric, gas, and sanitary services	174.3 80.0 50.1 44.3	193.1 85.1 55.9 52.2	179.3 79.9 50.9 48.5	180.9 82.5 54.0 44.4	187.5 84.7 53.9 48.9	190.8 85.3 54.4 51.2	85.4 56.7	
Wholesale trade Retail trade Finance, insurance, and	133.8 180.0	151.1 200.9	131.4 183.6	139.6 186.6	146.6 197.1	148.5 200.1	204.2	
real estate Services	290.8 314.8	312.3 353.3	294.3 319.1	$304.0 \\ 327.9$	308.1 340.4	309.9 348.7	313.7 357.5	
Government and govern- ment enterprises	301.7	329.4	302.5	314.0	320.7	325.3	330.8	341.0
Rest of the world	49.7	54.0	50.5	48.6	52.3	50.4	55.6	57.6

Table 6.20.—Corporate Profits by Industry

]	Billions o	of dollars	1		
			s	easonall	y adjuste	ed at ann	ual rate	s
	1980	1981 ′	19	80		19	81	
			III	IV	I	II	III	IV r
Corporate profits with IVA and CCAdj	182.7	191.5	177.9	183.3	203.0	190.3	195.7	
Domestic industries Financial Nonfinancial	151.5 27.9 123.6	167.5 20.9 146.6	147.0 25.8 121.2	155.6 27.4 128.2	177.6 25.5 152.1	167.6 21.0 146.5		
Rest of the world	31.1	24.0	30. 9	27.7	25.4	22.8	24.5	
Corporate profits with IVA	199.8	205.4	195.9	201.0	217.7	205.1	209.1	
Domestic industries	168.7	181.4	165.0	173.4	192.3	182.3	184.6	
Financial Federal Reserve Banks Other	30.6 11.9 18.7	24.2 14.5 9.7	28.7 11.3 17.4	$30.5 \\ 12.0 \\ 18.5$	$28.6 \\ 13.5 \\ 15.1$	24.3 14.3 10.1	22.7 15.2 7.5	
Nonfinancial Manufacturing Durable goods	138.1 74.5 20.9	$157.1 \\ 83.5 \\ 27.0$	136.2 68.5 19.4	142.9 76.2 25.8	163.7 90.4 31.5	158.0 84.4 31.9	85.1	
Primary metal in- dustries Fabricated metal	3.1	3.2	.7	3.8	5.1	3.8	3.7	
products Machinery, except	3.9	3.8	3.9	4.8	4.1	4.6	4.7	
electrical Electric and elec-	6.3	8.3	6.2	6.1	8.7	8.2	8.6	
tronic equipment Motor vehicles and	5.3	6.8	5.5	5.3	8.4	6.2	6.6	
equipment Other	-4.3 6.5	8 5.7	-4.8 8.0	8 6.6	$-1.6 \\ 6.8$	2.7 6.3	-2.2 4.7	
Nondurable goods Food and kindred	53.7	56.5	49.1	50.4	58.9	52.5	59.0	
products Chemicals and	7.3	9.6	5.7	8.6	10.4	9.5	8.9	
allied products Petroleum and coal	7.5	8.6	7.0	8.1	10.1	8.3	8.5	
products Other	24.6 14.3	22.0 16.4	22.2 14.2	19.9 13.8	21.6 16.8	19.6 15.1	26.4 15.2	
Transportation and public utilities Wholesale and retail	18.5	21.0	22.5	18.8	20.8	20.0	21.6	
trade Other	20.9 24.1	28.3 24.3	20.4 24.8	$22.6 \\ 25.2$	$27.5 \\ 25.1$	$28.4 \\ 25.1$		
Rest of the world	31.1	24.0	30. 9	27.7	25.4	22.8	24.5	

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

	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$												
	Seasonally adjusted 1980 1981 1980 1981 111 IV I II III IV 0 177.36 193.69 179.18 183.81 188.14 191.06 195.61 200.0 178.9 193.8 180.7 184.9 188.5 191.5 195.7 199.4 188.6 202.4 190.0 195.2 199.2 200.4 203.7 206.2 178.1 195.2 180.3 184.3 188.4 192.2 197.6 202.3 194.2 209.1 196.4 199.9 203.1 208.4 210.9 214.5 186.8 202.4 189.1 122.4 145.0 244.2 245.2 186.4 223.3 221.9 223.3 221.8 235.4 237.4 249.2 211.6 223.1 224.2 229.6 233.4 237.6 241.5 238.7 211.0 229.1 213.4 152.4												
	1980	1981 7	19	80		19	81						
			ш	IV	I	п	ш	IV '					
Gross national product	177.36	193.69	179.18	183.81	188.14	191.06	195.61	200.01					
Personal consumption	179.0	102.9	190 7	194.0	199 5	101 5	105 7	100.4					
expenditures Durable goods Nondurable goods	156.0	166.5	157.5	160.5	162.3	165.4	168.3	170.4					
Nondurable goods Services	188.6 178.1												
Gross private domestic investment Fixed investment													
Fixed investment Nonresidential	194.2 186.8												
Structures	224.7	246.4	229.5	233.3	236.2	244.1	249.2	255.6					
Producers' durable equipment Residential	170.2 218.6	182.3 233.3											
Nonfarm structures	221.7	236.8	225.2	226.3	231.8	235.0	239.1	242.9					
Farm structures Producers' durable equipment	149.4												
Change in business inventories													
Net exports of goods and services													
services Exports Imports	211.0 290.1												
Government purchases of													
goods and services	184.4	202.6					204.2						
Federal National defense	183.9	206.4				201.9	206.6						
Nondefense	180.6	201.7	176.7	198.7	195.9	197.3	203.1	210.3					
State and local	184.7	200.3	186.7	190.0	194.5	198.0	202.8	206.2					
		Fixed	l-weight	ed price	e indexe	es, 1972	=100						
Gross national product	183.3	200.4	185.1	189.7	194.4	198.1	202.6	206.8					
Personal consumption	19/ 2	201.0	196.2	100.9	105.9	109.0	202.0	906 4					
expenditures Durable goods	160.1	171.9	162.0	164.9	166.7	170.4	174.0	176.5					
Nondurable goods Services	195.6 182.0												
Gross private domestic								20110					
investment Fixed investment		222.0											
Fixed investment Nonresidential	203.8		207.1										
Structures	217.9	235.7	221.0	224.1	229.0	233.5	238.1	241.7					
Producers' durable equipment Residential	182.6 219.6						203.4	206.7					
Change in business inventories													
Net exports of goods and													
services Exports	217.1	237.2	219.1	226.6	232.9	236.1	239.0	241.1					
Imports	302.9	321.1		315.5				317.2					
Government purchases of						l	ļ	ļ					
goods and services Federal							210.6	216.1					
National defense	195.1	218.8	194.9	205.8	210.0	216.1	219.3	229.4					
Nondefense State and local	181.1 190.5							206.0					
Addendes													
Addenda: Gross domestic purchases ¹	188.8	205.8	190.9	195.4	200.3	203.8	207.8	211.7					
Gross domestic purchases ' Final sales Final sales to domestic purchas-	183.2	200.4	185.0	189.6	194.3	198.0	202.5	206.8					
ers ¹	188.7	205.9	190.8	195.4	200.2	203.8	207.8	211.7					
Personal consumption expendi-	ļ	ļ						ļ					
tures, food	192.7	208.6	195.1	202.6	205.7	206.0	210.3	212.5					
Personal consumption expendi- tures, energy	317.1	359.9	320.3	325.2	353.3	360.3	360.1	366.1					
Other personal consumption ex-				1				1					
penditures	169.5	184.1	171.3	175.0	178.4	182.0	186.2	189.9					
Gross domestic product		200.5	185.1	189.8	194.4	198.2	202.7	206.9					
Business Nonfarm		201.8	186.7	190.9	195.7	199.5	204.3	208.0					
	1						1						

Table 7.1-7.2: 1. Gross domestic purchases equals GNP less exports plus imports; final sales to domestic purchasers equals final sales less exports plus imports.

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

			Index	numbe	ers, 1972	2=100		
				Se	asonall	y adjust	ed	
	1980	1981 [,]	19	80		19	81	
			ш	IV	I	II	ш	IV '
Gross national product	177.36	193.69	179.18	183.81	188.14	191.06	195.61	200.01
Final sales Change in business inventories	177.4	193.5	179.7	184.1	187.7	190.9	195.7	200.0
Goods	169.9	185.7	171.8	176.3	181.1	183.2	187.6	191.1
Final sales Change in business inventories	170.1	185.3	172.9	177.0	180.1	182.6	187.7	191.0
Durable goods Final sales Change in business inventories	164.5	179.7 179.0	$166.3 \\ 167.0$	169.2 169.1	173.3 172.9	179.1 178.2	$183.0 \\ 181.4$	183.7 183.9
Nondurable goods Final sales Change in business inventories	174.2	189.9 189.7	175.7 177.2	$181.6 \\ 182.8$	186.7 185.4	$186.1 \\ 185.8$	190.9 192.1	195.9 195.6
Services	176.7	193.8	178.5	183.2	187.2	190.8	195.9	201.1
Structures	222.1	239.8	226.0	228.5	232.8	238.0	242.4	246.8
Addenda: Gross domestic purchases ¹ Final sales to domestic purchas-	182.2	197.9	183.3	188.4	192.7	195.7	199.4	203.7
ers ¹	182.2	197.7	183.8	188.7	192.2	195.5	199.5	203.7

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

Gross national product	177.36	193.69		183.81	188.14	191.06	195.61	200.01
Gross domestic product		193.7	179.2	183.8	188.2	191.1	195.6	200.0
Business	177.4	193.7	179.5	183.8	188.2	191.1	195.8	199.9
Nonfarm		193.8	178.8	183.1	187.9	190.9	196.0	200.6
Nonfarm less housing	179.0	196.1	180.8	185.2	190.1	193.1	198.4	203.2
Housing	160.9	174.9	162.5	166.4	169.6	172.8	176.5	180.3
Farm	193.1	191.5	205.3	208.8	200.0	198.7	190.6	179.0
Statistical discrepancy	177.4	193.7	179.5	183.8	188.2	191.1	195.8	199.9
Households and institu-								
tions	189.5	207.9	190.7	196.0	201.2	205.7	210.1	214.7
Private households	193.8	208.9	195.0	199.8	203.4	206.6	211.0	215.0
Nonprofit institutions	189.1	207.9	190.3	195.7	201.0	205.7	210.0	214.6
Government	173.5	189.4	173.5	180.5	184.1	186.8	189.8	196.8
Federal	166.6	183.7	163.2	178.0	179.5	180.2	180.5	194.4
State and local	176.7	192.0	178.3	181.7	186.2	189.8	194.2	198.0
Rest of the world	175.4	191.9	177.2	182.0	186.5	189.2	193.8	198.1
Addendum:								
Gross domestic business product								
less housing	179.4	196.0	181.5	185.9	190.4	193.3	198.1	202.3

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

Gross national product	177.36	193.69	179.18	183.81	188.14	191.06	195.61	200.01
Less: Capital consumption allow- ances with CCAdj	194.8	209.7	197.2	200.0	202.8	207.8	211.7	216.2
Equals: Net national product	175.4	191.9	177.2	182.0	186.5	189.2	193.8	198.1
Less: Indirect business tax and nontax liability plus business transfer payments less subsidies plus current surplus of government enterprises.	146.4	167.4	147.5	153.7	164.5	166.9	168.7	169.4
Statistical discrepancy	177.4	193.7	179.5	183.8	188.2	191.1	195.8	
Equals: National income	179.1	195.0	180.9	185.6	189.3	192.0	197.0	

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.

 $\begin{array}{l} Table \ 7.7: \\ 1. \ Equals the deflator for gross domestic product of nonfinancial corporate business with the decimal point shifted two places to the left. \end{array}$

 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 govern-ment purchases.

 Table 7.9:

 1. Includes new trucks only.

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

				Dol	lars			
				Sea	sonall	y adjus	sted	
	1980	1981 7	19	80		19	81	
			ш	IV	I	11	ш	IV '
Current-dollar cost and profit per unit of constant-dollar gross do- mestic product ¹	1.770	1.933	1.787	1.830	1.876	1.904	1.954	
Capital consumption allowances with CCAdj Net domestic product. Indirect business tax and nontax liability plus business transfer payments less	.191 1.579	.208 1.725		.197 1.633	.197 1.679	.204 1.701		
subsidies Domestic income Compensation of employees Corporate profits with		.204 1.520 1.285		.188 1.444 1.230		.202 1.499 1.266	1.537	
IVA and CCAdj Profits tax liability Profits after tax with IVA and CCAdj Net interest	.073	.163 .066 .098 .072	.141 .070 .071 .067	.146 .075 .071 .068	.169 .076 .093 .067	.163 .064 .098 .070	.169 .066 .103 .073	

Table 7.8.—Implicit Price Deflators for Auto Output

]	Index 1	numbe	rs, 197	2 = 100)		
			Seasonally adjust					ted	
	1980	19817	19	80		19	81		
	155.9		III	IV	I	Π	ш	IV '	
Auto output	155.9	166.6	156.8	160.5	159.0	165.9	171.4	170.4	
Final sales	155.8	167.2	156.8	160.2	160.5	166.0	170.6	173.5	
Personal consumption expenditures New autos	$169.4 \\ 161.2$	186.3	171.0	176.5 164.6	176.8 164.3	$185.4 \\ 169.7$	189.8 173.6	195.7 174.7	
Net purchases of used autos Producers' durable									
equipment New autos Net purchases of used autos	$\begin{array}{c} 146.5\\ 161.3\end{array}$	145.1	154.9 164.3	140.5 164.4	137.5 164.9	146.6	148.5 174.2	147.6 175.3	
Net exports	1647	1771 9	100 4	165 1	165 7	169 6	1747	179 6	
Imports Government purchases	$211.4 \\ 167.5$	230.9	219.5	214.1	228.0	229.1	231.8	234.2	
Change in business inventories									
Addenda: Domestic output of new autos ¹ Sales of imported new autos ²	161.7 161.4	170.7 170.5	165.7 164.5	164.4 164.6	164.4 164.4	170.0 170.0	173.9 173.8	175.0 174.9	

Table 7.9.—Implicit Price Deflators for Truck Output

Truck output ¹	186.5	206.7	189.5	194.0	198.8	205.0	210.2	213.9
Final sales Personal consumption expenditures Producers' durable equipment Net exports.	$\begin{array}{c} 161.2\\ 194.5\end{array}$	$170.6 \\ 220.0$	164.4 197.4	164.7 205.2	$164.3 \\ 210.6$	169.9 217.6	$173.7 \\ 224.2$	174.6 229.0
Exports	105.0	9107	197 4	205.2	210.6	917 6	224.2	998 0

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

								
Personal consumption expenditures	178.9	193.8	180.7	184.9	188.5	191.5	195.7	199.4
Durable goods	156.0	166.5	157.5	160.5	162.3	165.4		170.4
Motor vehicles and parts	167.1	181.6	168.8	173.2	174.0	180.6	184.6	
Furniture and household equipment	143.6		144.8				152.9	
Other	161.7	170.3	164.4	167.3	168.1	169.7	170.2	173.1
Nondurable goods	188.6	202.4	190.0	195.2	199.2	200.4	203.7	206.2
Food	190.5	206.9	193.0	200.3	203.7	204.2	208.7	211.1
Clothing and shoes Gasoline and oil	134.3	138.6	134.5	136.5	137.0	137.8	139.6	139.8
Gasoline and oil	339.4	376.0	338.6	343.7	376.3	379.0	370.4	378.4
Other nondurable goods	187.5	204.0	190.6	193.4	198.1	203.0	206.2	208.8
Other nondurable goods Fuel oil and coal	471.4	574.1	476.6	484.5	559.4	582.8	575.3	579.0
Other	170.1	184.8	172.1	175.8	179.3	183.5	186.7	189.9
Services	178 1	195.2	180.3	184.3	188.4	192.2	197.6	202.3
Housing			167.3			178.1		185.9
Household operation	181.5				192.3		206.2	
Electricity and gas	230 1		245.6					285.6
Other	146 3		147.9	150.2	153.8		162.9	168.2
Transportation			189.7	192.4		197.0	201.4	
Other	187.0	205.9	188.4	193.1		202.5		
								1

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

			Inde	numbe	rs, 1972:	=100		
			Se	asonally	/ adjuste	d at an	nual rat	es
	1980	1981 r	19	80		19	81	
			ш	IV	I	п	ш	IV ′
Government purchases of goods and services	184.4	202.6	185.1	192.8	196.4	199.5	204.2	210.5
Federal	18 3.9	206.4	182.4	197.4	199.4	201.9	206.6	217.0
National defense Durable goods Nondurable goods Services Compensation of employees Military Civilian	185.6 179.1 441.5 174.6 164.7 160.9 170.2	208.7 203.8 490.0 195.3 183.2 182.2 182.2 184.6	185.2 182.6 451.6 172.9 161.1 156.8 167.3	196.8 184.8 465.1 185.8 176.9 174.5 180.3	201.2 193.7 476.1 188.9 178.4 176.0 181.8	204.2 199.2 481.0 190.6 178.9 176.4 182.6	208.3 208.8 495.6 193.8 179.2 176.5 183.1	220.4 212.6 506.1 207.2 196.0 199.6 190.8
Other services Structures	194.0 198.3	217.0 216.1	195.9 199.6	203.0 203.1	208.5 207.1	212.2 214.0	220.0 217.6	225.7 224.6
Nondefense Durable goods Nondurable goods	180.6 167.5	201.7 192.8	176.7 168.6	198.7 175.2	195.9 186.6	197.3 189.3	203.1 194.5	210.3 202.9
Services	176.9	193.0	176.6	185.9	189.1	191.1	192.9	199.2
employees Other services Structures	170.0 185.4 207.7	184.7 203.9 223.4	167.2 187.7 211.0	180.2 192.8 214.2	181.8 198.1 218.9	182.6 201.9 222.2	$\begin{array}{c} 183.1 \\ 206.3 \\ 225.0 \end{array}$	191.2 210.6 227.8
State and local Durable goods Nondurable goods Services Compensation of employees Other services Structures	184.7 169.7 191.7 179.4 176.7 187.5 220.8	200.3 182.3 208.1 196.0 192.0 207.9 233.6	186.7 170.6 194.7 181.3 178.3 190.2 224.7	190.0 175.0 198.2 184.7 181.7 193.5 226.3	194.5 178.4 202.3 189.2 186.2 198.1 231.3	198.0 181.0 205.8 193.4 189.8 203.9 233.5	202.8 183.6 211.5 198.8 194.2 212.4 235.0	206.2 186.5 212.7 202.8 198.0 217.0 234.9

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

			Inde	a numbe	rs, 1972	=100		
			Se	asonally	y adjuste	ed at ann	nual rate	es
	1980	1981 *	19	80		19	31	
			ш	IV	I	п	ш	IV '
Exports of goods and services	211.0	229.1	213.4	219.9	226.1	228.0	229.8	232.8
Merchandise Durable goods Nondurable goods	236.7 229.7 247.2	258.3 259.5 256.6	$238.5 \\ 233.1 \\ 246.4$	248.4 242.6 256.8	255.7 250.2 263.1	$257.4 \\ 256.6 \\ 258.5$	260.0 264.4 253.8	260.3 268.1 250.8
Services Factor income Other	176.5 175.3 179.0	192.5 191.9 193.6	178.4 177.2 180.6	182.8 182.0 184.2	187.0 186.5 187.9	190.0 189.2 191.7	194.3 193.8 195.5	198.5 198.1 199.4
Imports of goods and services	290.1	295.9	289.7	296.4	303.1	301.2	289.8	289.8
Merchandise Durable goods Nondurable goods	332.3 235.4 507.2	332.0 242.2 499.4	328.4 237.0 498.6	339.1 243.9 514.2	348.0 244.0 533.2	343.4 243.7 532.8	$323.4 \\ 241.8 \\ 480.1$	315.3 239.6 455.7
Services Factor income Other	$201.1 \\ 175.3 \\ 225.5$	218.7 191.7 247.9	205.2 177.2 228.3	208.1 182.0 234.0	213.0 186.5 239.9	215.7 189.2 245.9	219.4 193.8 250.8	227.4 198.1 255.8

 Table 7.21:

 1. Inventories are as of the end of the quarter.

 2. Business final sales equals final sales less gross product of households and institutions, government, and rest of the world.

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

				-			-	
			Inde	x numbe	ers, 1972	=100		
			s	easonall	y adjust	ed at an	nual rat	es
	1980	1981 r	19	80		19	81	
			ш	IV	I	п	ш	IV '
Merchandise exports	236.7	258.3	238.5	248.4	255.7	257.4	260.0	260.3
Foods, feeds, and beverages Industrial supplies and		246.9	234.1	255.4	263.1	256.2	239.1	228.0
materials		293.2	280.5	283.1	292.6	293.4	294.2	292.6
Durable goods	282.9	293.2	280.5	283.1	292.5	293.4	294.2	292.7
Nondurable goods	282.9	293.2	280.5	283.1	292.6	293.4	294.2	292.6
Capital goods, except autos	212.2	248.2	217.9	228.1	237.5	244.3	254.0	258.6
Autos	249.7	286.5	255.0	267.3	270.6	282.9	292.5	303.9
Consumer goods		200.9	201.7	202.9	199.2	197.7	202.4	204.6
Durable goods	231.1	244.0	232.2	238.9	237.4	242.8	248.4	248.5 177.5
Nondurable goods	172.6	173.1	176.9	176.4	173.5	169.2	172.5	
Other Durable goods	235.9 235.9	258.4 258.3	238.5 238.4	248.4 248.5	255.8 255.8	257.2 257.2	260.0 259.8	260.3 260.4
		258.4	238.7	248.5	255.8	257.2	260.1	260.4
Nondurable goods	200.9	208.4	230.1	248.Z	200.0	251.2	200.1	200.2
Merchandise imports	332.3	332.0	328.4	339.1	348.0	343.4	323.4	315.3
Foods, feeds, and beverages Industrial supplies and materials, excluding	270.1	259.2	276.0	277.3	277.0	268.1	254.4	238.2
petroleum	301.1	298.4	303.8	305.9	300.3	301.1	297.5	294.9
Durable goods	306.6	299.7	309.3	311.0	301.4	302.3	298.7	296.2
Nondurable goods	293.2	296.7	296.5	298.3	298.9	299.2	295.7	293.2
Petroleum and products	1,153.8	1,298.0	1,191.6		1,319.8	1,349.3	1,268.4	1,246.5
Capital goods except autos	205.4	198.4	208.1	210.4	209.6	199.7	195.2	191.2
Autos	248.5	288.0	252.3	267.4	277.4	282.7	288.2	303.3
Consumer goods	221.2	231.3	226.2	228.5	236.7	230.8	231.5	227.1
Durable goods Nondurable goods	195.0	208.3	198.1	202.8	206.5	206.1	210.9	209.6
Nondurable goods	282.4	280.5	289.1	289.0	312.9	284.8	272.4	261.0
Other	246.2	251.9	249.1	254.2	258.4	254.4	250.8	246.6
Durable goods		251.8	249.3	253.9	258.0	254.6	251.0	246.3
Nondurable goods	246.2	251.9	248.8	254.4	258.7	254.2	250.6	246.8
Addenda: Exports:								
Agricultural products	234.5	246.4	234.0	253.5	261.8	254.3	239.3	229.1
Nonagricultural products	237.2	261.3	239.6	247.1	254.1	258.1	265.0	268.9
Imports of nonpetroleum products	248.4	252.7	251.1	256.2	258.6	254.9	251.1	247.1
						l.		

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

		Index	numbe	rs, 1972:	= 100		
	1 1	Se	asonally	adjuste	d at anı	ual rate	8
1980	1981 [,]	19	80		19	81	
		ш	IV	Ι	II	ш	IV '
Inventories ¹		223.7	230.6	234.3	236.6	238.2	239.7
Farm		213.6	215.4	203.6	202.0	195.9	192.1
Nonfarm		225.2	232.8	238.6	241.5	244.3	246.7
Durable goods		211.2	218.8	222.0	225.4	230.5	233.6
Durable goods Nondurable goods		246.3	254.3	263.8	266.3	265.3	266.6
Manufacturing			237.5	243.1	248.2	250.3	252.5
Durable goods		217.6	225.1	228.0	232.8	237.8	240.9
Nondurable goods		255.9	264.1	275.0	280.9	277.2	277.4
Wholesale trade		226.2	234.7	241.7	243.7	244.0	245.4
Durable goods		209.5	217.2	222.2	226.3	230.4	232.7
Durable goods Nondurable goods		258.1	268.5	279.2	277.8	270.8	270.2
Merchant wholesalers		218.7	226.0	229.7	232.9	234.9	235.9
Durable goods		209.6	217.4	221.7	225.7	230.0	232.4
Nondurable goods		236.6	243.0	245.8	247.4	244.9	243.1
Nondurable goods Nonmerchant wholesalers		261.2	275.8	297.0	295.1	287.4	291.8
Durable goods		208.9	216.1	224.8	229.3	232.3	234.5
Durable goods Nondurable goods		351.9	379.0	417.8	406.3	386.1	392.1
Retail trade		195.7	201.8	204.3	203.2	209.7	212.4
Durable goods		192.0	200.4	201.3	199.9	208.3	211.7
Nondurable goods		199.0	203.0	206.8	206.0	210.9	213.0
Durable goods Nondurable goods Other		274.6	284.7	295.9	301.6	305.1	310.9
Final sales ²		180.1	184.1	187.6	190.9	195.9	199.9
Final sales of goods and struc- tures		180.7	184.9	188.1	190.9	195.6	199.0

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

	Per	rcent		Percer	nt at a	nnua	rates		Г <u> </u>	Per	cent		Percer	ntata	nnual	rates	
				Sea	onally	/ adju	sted						Seas	onally	/ adjus	sted	
	1980	1981 7	198	30		1	981			1980	1981 [,]	198	30		19	981	
			ш	IV	I	II	ш	IV '				m	IV	I	n	ш	1V '
Gross national product: Current dollars	2 9.0 8.6	2.0 9.2 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	11.4 1.4 9.9 10.0 9.5	4.1 -4.7 9.3 8.5 8.5	Government purchases of goods and services: Current dollars	12.9 2.9 9.7 9.7 11.1	10.6 .6 9.9 9.4 9.6	$2.6 \\ -5.0 \\ 8.0 \\ 8.5 \\ 8.1$	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	$8.2 \\ -1.5 \\ 9.9 \\ 8.7 \\ 7.4$	24.6 10.5 12.8 11.0 10.7
Personal consumption ex- penditures: Current dollars	.5 10.2 10.6	11.1 2.5 8.3 9.0 9.1	14.3 5.1 8.8 9.5 9.5	17.4 7.0 9.7 10.1 10.1	$14.2 \\ 5.8 \\ 8.0 \\ 10.3 \\ 10.9$	$4.3 \\ -2.1 \\ 6.5 \\ 6.5 \\ 6.5$	12.5 3.3 9.0 8.7 8.2	$5.3 \\ -2.3 \\ 7.8 \\ 7.4 \\ 7.2$	Federal: Current dollars	$ \begin{array}{r} 18.5 \\ 6.3 \\ 11.4 \end{array} $	15.8 3.2 12.2 11.0 11.5	-7.5 -13.1 6.4 7.5 6.5	40.2 2.0 37.4 22.9 23.6	$19.3 \\ 14.8 \\ 4.0 \\ 9.3$	-3.7 -8.4 5.1 9.1 10.6	13.1 3.1 9.7 6.1 5.8	57.5 29.4 21.7 17.9 18.1
Durable goods: Current dollars 1972 dollars Implicit price deflators Chain price index Fixed-weighted price index	-7.4 7.7 8.4	9.6 2.6 6.8 7.2 7.4	32.9 21.7 9.2 8.8 9.7	30.9 21.2 8.0 7.8 7.4	29.7 24.1 4.5 4.7 4.5	-17.2 -23.3 7.9 8.2 9.1	16.6 8.6 7.3 8.2 8.9	$-14.9 \\ -18.8 \\ 4.8 \\ 5.9 \\ 5.7$	National defense: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	5.7 12.0 11.8	17.3 4.3 12.4 11.8 12.1	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	16.9 7.9 8.3 7.7 6.0	48.4 18.3 25.5 20.0 19.8
Nondurable goods: Current dollars	$1.1 \\ 11.0 \\ 12.0$	10.0 2.4 7.3 8.5 8.7	6.3 1.8 8.3 9.4 9.2	$18.5 \\ 6.3 \\ 11.5 \\ 11.8 \\ 1$	$13.4 \\ 4.6 \\ 8.4 \\ 12.5 \\ 13.6$	5.3 2.7 2.5 3.3 3.3	9.0 2.1 6.8 5.2 4.4	$4.4 \\7 \\ 5.1 \\ 5.0 \\ 5.1$	Nondefense: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	7.5 10.3 9.4	12.9 1.1 11.7 9.4 9.9	$ \begin{array}{c} -32.2 \\ -33.1 \\ 1.3 \\ 8.2 \\ 5.0 \end{array} $	$51.2 \\ -5.3 \\ 59.7 \\ 21.4 \\ 21.6$	-5.4 10.4	$-24.4 \\ -26.4 \\ 2.8 \\ 7.0 \\ 6.5$	$5.4 \\ -6.1 \\ 12.3 \\ 2.9 \\ 5.1$	78.3 55.1 15.0 13.6 13.5
Services: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	2.6 9.9 10.2	2.6 9.6 9.9	17.0 6.4 10.0 9.9 9.9	13.1 3.7 9.1 9.3 9.3	10.9 1.4 9.3 9.9 10.1	10.1 1.6 8.3 8.7 9.0	14.6 2.6 11.6 11.9 11.9	12.0 1.9 9.9 10.0 9.8	State and local: Current dollars	1.0 8.7 9.0	7.5 9 8.5 8.5 8.2	9.1 .3 8.8 9.1 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 7.2	5.3 -4.2 9.9 10.4 8.6	6.9 0 6.9 6.7 5.8
Gross private domestic investment: Current dollars 1972 dollars	-4.9 -12.5	14.0 5.6	- 13.3 - 10.0	23.7 11.1	45.9 24.2	21.1 16.1	3.9 3.3	-15.5 -23.3	Addenda: Gross Domestic Purchases: Current dollars	8.4 -1.1 9.7	11.4 2.6 8.6	7.3 .8 6.5 9.3	18.9 6.6 11.5	18.4 8.1 9.4	6.0 3 6.3 7.2 7.3	10.2 2.3 7.8	5.4 -3.4 9.0
Fixed investment: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	$-7.1 \\ 8.5$	8.1 .4 7.7 8.4 8.4	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	.3 -4.4 4.9 7.8 8.0	$-3.9 \\ -10.2 \\ 7.1 \\ 6.3 \\ 6.4$	Chain price index. Fixed-weighted price index Final sales: Current dollars	10.3 10.8 9.8 .7	9.0 9.0 10.5 1.3	9.3 15.9 4.1	9.9 10.0 15.0 4.4	9.9 10.2 15.5 6.9	$2.0 \\ -4.7$	8.6 8.0 10.9 .3	$ \begin{array}{r} 7.9 \\ 7.8 \\ 6.3 \\ -2.5 \\ 9.0 \\ 9.0 \\ \end{array} $
Nonresidential: Current dollars	-3.0 9.1 10.3	10.9 2.4 8.3 8.9 9.2	$\begin{array}{r} 6.0 \\ -1.5 \\ 7.6 \\ 10.0 \\ 10.2 \end{array}$	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	13.6 6.9 6.2 7.9 8.3	$2.8 \\ -5.1 \\ 8.3 \\ 6.4 \\ 6.5$	Implicit price deflator Chain price index Fixed-weighted price index Final sales to domestic purchasers: Current dollars	9.0 8.6 9.6 9.5	9.3 9.4	11.3 9.3 9.0 11.2	10.2 10.6 10.4	9.8 10.3	7.0 7.7 7.9 3.2	10.5 10.0 9.5 9.7	9.0 8.5 8.5 7.6
Structures: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	13.0 1 13.1	15.2 5.1 9.7 8.6	-4.0 -15.3 13.3 8.3	16.5 9.0 6.9 6.4 5.8	$22.3 \\ 16.6 \\ 4.9 \\ 9.7$	21.8 6.7 14.1 8.5	17.8 8.4 8.7 8.8	15.5 4.5 10.5 7.5	Gross domestic product:	2 9.7 10.3	1.8 8.5 9.0	2.5 8.5 9.3 9.2	19.0 7.2 10.9 9.9 10.0	7.7 9.9	-3.6 7.1 7.2 7.3	1.2 8.4 8.6 8.0	-1.0 8.7 8.0 7.8
Producers' durable equipment: Current dollars 1972 dollars	2.0	8.2 8.4 1.2	8.1 12.3 5.3	8.7 1.9	11.8	8.1 5.6 -5.9	8.1 11.1 6.3	6.3 4.4 9.2	Current dollars	2	2.0 9.2 9.3	9.2	15.6 4.4 10.7 10.5 10.4	8.3 9.8 9.8	6.4 7.7	10.8 .9 9.9 10.0 9.5	$ \begin{array}{r} 3.9 \\ -4.9 \\ 9.3 \\ 8.5 \\ 8.5 \\ \end{array} $
Implicit price deflator Chain price index Fixed-weighted price index Residential: Current dollars 1972 dollars	9.5 9.8	9.1 10.0	6.6 11.0 11.6 25.7 16.0	6.6 6.3 7.9 68.5 64.2	5.5 8.8 9.9 14.0 3.6 10.0	12.3 11.0 11.8	4.5 7.3 8.5 -32.1 -36.2	5.3 5.7 6.6 -24.0	Business: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	. 8.5 . – .5 . 9.1 . 8.7 . 9.8	2.3 9.2 9.3	12.3 2.3 9.7 9.9 9.6	15.4 5.0 9.9 9.7 9.3	9.5 9.9 10.0		11.6 1.2 10.3 10.4 9.9	
Implicit price deflator Chain price index Fixed-weighted price index	9.0 9.3	-6.1 6.7 7.0 6.9	8.4 8.9 8.8	2.6 2.1 2.1	14.0 3.6 10.0 10.1 10.1	-23.4 5.5 6.0 6.0	- 36.2 6.4 7.5 7.5	-28.1 5.8 6.2 6.3	Nonfarm: Current dollars 1972 dollars Implicit price deflator	. 9.1 . – .4 . 9.6	2.1	3.1	17.6 6.9 10.0	7.7	5.8 6 6.5	10.2 9 11.2	$ \begin{array}{c} 2.5 \\ -6.6 \\ 9.8 \end{array} $
Current dollars 1972 dollars Implicit price deflator Chain price deflator Fixed-weighted price index	9.6 10.2 10.1	7.6 9 8.6 9.3 9.2	$ \begin{array}{r} 11.4 \\ 2 \\ 11.6 \\ 11.5 \\ 11.5 \\ 11.5 \\ \end{array} $	4.4 7.4 12.8 14.7 14.5	11.8 11.6	.9 -2.3 3.4 5.0 5.6	-3.5 -3.5 3.3 5.3 5.0	-9.5 -14.1 5.3 3.9 3.4	Châin price index Fixed-weighted price index Disposable personal income: Current dollars	. 11.0			12.8 2.9	11.2		11.8 2.6	9.3
Imports: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	1 18.2	7.6 5.5 2.0 6.6 6.0	-21.2 -20.4 -1.0 11.9 13.1	37.8 25.8 9.6 9.0	20.5 10.3 9.3 12.6 11.8	11.5 14.2 -2.4 .6 .4	-9.7 5.5 -14.4 -5.9 -7.4	7 7 .1 -1.3 -1.8	1972 dollars	7	2.2	4.1	2.9	3.0	1.4	2.0	1.4

NOTE.—The implicit price deflator for GNP is a weighted average of the detailed price indexs used in the deflation of GNP. In each period, the weights are based on the composition of constant-dollar output in that period. In other words, the price index for each item (1972=100) is weighted by the ratio of the quantity of the item valued in 1972 prices to the total output in 1972 prices. Changes in the implicit price deflator reflect both changes in prices and changes in the composition of output. The chain price index uses as weights the composition of output in the prior period, and therefore reflects only the change in prices between the two periods. However, comparisons of percent changes in the chain index also reflect changes in the composition of output. The fixed-weighted price index uses as weights the composition of output in 1972. Accordingly, comparisons over any time span reflect only changes in prices.

Reconciliation and Other Special Tables

Table 1.—Reconciliation of Changes in Compensation Per Hour in the Table 3.—Reconciliation of Changes in the Implicit Price Deflator for Business Economy other than Farm and Housing and Average Hourly Earnings in the Private Nonfarm Economy, Seasonally Adjusted

Personal Consumption Exenditures and the Consumer Price Index for all Urban Consumers, Seasonally Adjusted

		19	81	
	I	U	III'	IV ^p
 Compensation per hour of all persons in the business economy other than farm and housing (percent change at annual rate) ¹ 	12.0	8.8	8.8	7.1
2. Less: Contribution of supplements	1.5	.1	0	.6
 Plus: Contribution of housing and nonprofit institu- tions 	1	0	1	.1
 Less: Contribution of employees of government enter- prises and self-employed and unpaid family workers 	3	.3	.5	2
 Equals: Wages and salaries per hour of employees in the private nonfarm economy (percent change at annual rate) 	10.7	8.4	8.2	6.8
6. Less: Contribution of nonproduction workers in manu- facturing	2	.6	.1	.2
 Less: Contribution of non-BLS data, detailed weight- ing, and seasonal adjustment 	1.9	5	.1	.8
 Equals: Average hourly earnings, production and nonsupervisory workers in the private nonfarm econ- omy (percent change at annual rate) 	9.0	8.4	8.0	5.8

⁷ Revised. ⁹ Preliminary. 1. Bureau of Labor Statistics estimates of changes in hourly compensation in the nonfarm usiness sector for the four quarters are 11.7, 9.6, 9.5 and 6.2 percent.

	198	81
	III′	IV ^p
mplicit price deflator for personal consumption expenditures (percent change at annual rate)	9.0	7
. Less:	(
Contribution of shifting weights in PCE	.2	
' New autos	1.3	-1
Gasoline and oil	.9	
Electricity, gas, fuel oil, and coal	.2	_
Furniture and household equipment	3	_
Food purchased for off-premise consumption	2	
Purchased meals and beverages	4	
Clothing and shoes	1	
Housing	1	1
Other	-1.1	
Equals: PCE chain price index (percent change at annual rate	8.7	7
. Less:	1	
Contribution of differences in weights of comparable CPI and PCE expenditure components	.8	_
Gasoline and oil	.3	_
Electricity, gas, fuel oil, and coal	2	-
Furniture, appliances, floor coverings, other household furnishings	0	
Food at home	.4	
Food away from home	1 j	-
Apparel commodities	.1	
Rent	4	-
Other	.5	
Less:	ļ	
Contribution of PCE expenditure components not comparable with CPI components	.6	1
New Autos	0	_
Net purchases of used autos	.2	
Owner-occupied nonfarm and farm dwellings—space rent Services furnished without payment by financial intermediaries except	.1	
life insurance carriers	0	
Current expenditures by nonprofit institutions Other	2	_
	2	
Plus:		
Contribution of CPI expenditure components not comparable with PCE		
components	4.6	
New autos	1	-
Used autos	.5	_
Homeownership Other	4.0 .2	_
. Less: Contribution of differences in seasonal adjustment ¹	.2	
. Equals: Consumer Price Index, all items (percent change at annual rate)	12.0	7

Revised. P Preliminary

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

Fixed Reproducible Tangible Wealth in the United States, 1925-79

Annual estimates of the stock of privately owned and governmentowned durable equipment and structures and of durable goods owned by consumers in the United States for 1925-79 have been published by BEA.

The report, Fixed Reproducible Tangible Wealth in the United States, 1925-79, provides tabulations of gross and net stocks, depreciation, discards, ratios of net to gross stocks, and average ages of gross and net stocks in historical-cost, constant-cost, and current-cost valuations. Fixed nonresidential private capital is presented by legal form of organization and major industry group (farm, manufacturing, and nonfarm nonmanufacturing). Residential capital is presented by legal form of organization and tenure group (owner-occupied and tenant-occupied). Government-owned fixed capital is presented for the Federal Government (military and nonmilitary) and for State and local governments. The estimates are consistent, definitionally and statistically, with the national income and product accounts. The investment series used to derive the wealth estimates and a detailed statement of methodology are also presented.

Fixed Reproducible Tangible Wealth in the United States, 1925-79 is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. (Stock number 003-010-00102-0, price \$13.00).

FROM 1961 to 1980, general ownsource receipts of State and local governments as measured in the nationsl income and product accounts (NIPA's) increased more than \$220 billion, or six times. In this article, the analysis of this growth goes beyond the conventional analysis by type of receipt and by type of jurisdiction to examine what are called the "sources" of growth. The article distinguishes as sources of growth legislative actions. on the one hand, and events outside the reach of legislative actionsmainly economic activity and inflation—on the other.

Analysis of these sources for receipts that make up 65 to 70 percent of the total indicated two distinct periods. In 1962-72, legislative actions accounted for between one-quarter and one-half of the growth in most years. In 1972-80, economic activity and inflation accounted for virtually all of the growth. In the latter period, legislative actions held down growth in receipts of local government and there was a shift of fiscal resources away from local toward State government. The introduction of "circuitbreakers" and other initiatives, such as California's Proposition 13, in property taxes, and removal of certain items from the sales tax base, were among the specific legislative actions holding down growth in receipts in 1972-80. More generally, improvement in the State and local fiscal position, in part a result of accelerated growth in Federal grants-in-aid, lessened pressure for continued increases in tax rates and bases.

Coverage and framework

In the NIPA's, general own-source receipts consists of personal tax and nontax receipts, corporate profits tax accruals, and indirect business tax and nontax accruals. This article covers seven types of these receipts for which information on legislative actions can be found or derived (table 1). A substantial portion of the 30 to 35 percent of general own-source receipts not covered are local government receipts.

Sources of Growth in Selected State and

Local Government Tax Receipts

Not all State legislative actions are covered—for example, those made after 1974 to increase receipts related to exploitation of energy sources (severance taxes, rents, and royalties). However, most of the receipts changes resulting from legislative actions are reflected in the data presented.

Except in the case of property taxes, the discussion is in terms of specific legislative actions—imposition of new taxes (or abolition of old ones), rate changes, or changes in the tax base. Property taxes are discussed in terms of: (1) average effective tax rates, i.e., the tax liability as a percentage of assessed value of taxable property; (2) the relationship between assessment values and market values (assessment/market ratios); and (3) the relationship between current- and constant-dollar values of taxable property. The alternative framework is necessary because the task of estimating the effects of property tax rate actions for 80,000 local governments, most of which are empowered to levy property taxes, is too complex to attempt.

Table 1.—Selected State and Local Government Taxes as a Percent of Total General Own-Source Receipts

	Total general	Indirect b	usiness tax	and nonta		Personal nontax	All other	
Year	own- source receipts (billions of dollars)	Local property tax	State general sales and use tax	State motor fuel tax	State alcoholic beverage and tobacco taxes	State income tax	Local income tax	general own- source receipts
1961	43.1	39.6	11.3	8.3	4.1	5.9	0.6	30.2
1962	46.7	39.4	11.6	8.1	4.0	6.0	.7	30.2
1963	49.9	39.4	11.6	8.0	4.0	6.1	7	30.2
1964	54.4	38.7	11.8	7.7	3.9	6.5	.8	30.6
1965	59.0	38.2	12.4	7.6	4.0	6.7	.8	30.3
1966	64.7	36.8	13.2	7.3	4.0	7.4	1.0	30.3
1967	71.0	36.9	13.4	7.1	3.9	7.5	1.4	29.8
1968	81.5	35.7	14.3	6.7	3.9	8.5	1.4	29.5
1969	91.6	34.8	14.5	6.5	3,7	9.4	1.5	29.6
1970	101.7	35.1	14.5	6.3	3.9	9.4	1.5	29.6
1971	113,8	34.7	14.6	6.0	3.7	9.6	1.5	29.9
1972	129.3	32.6	14.6	5.9	3.6	11.8	1.7	29.8
1973	141.5	31.9	14.9	5.8	3.5	11.9	1.6	30.4
1974	152.8	31.3	15.6	5.3	3.4	11.8	1.7	30.9
1975	166.3	31.2	15.5	5.0	3.2	12.0	1.7	31.4
1976	187.1	30.3	15.6	4.8	3.0	12.5	1.8	32.0
1977	208.4	29.6	15.9	4.5	2.8	13.0	1.8	32.4
1978	225.6	27.4	16.6	4.3	2.7	14.0	1.7	33.3
1979	242.6	25.6	17.2	4.0	2.5	14.3	1.7	34.7
1980	264.5	24.6	17.3	3.6	2.4	15.3	1.6	35.2

Local indirect business property tax accruals

Although local indirect business property tax accruals grew substantially from 1961, they grew less rapidly than did general own-source receipts as a whole; they remained, however, the largest single ownsource receipt for States and localities. These taxes are levied as a proportion of the value of real property structures (including residences) and the land upon which the structures rest—and business personalty—equipment, vehicles owned by business, in-

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ventories, and the like. Some localities levy property taxes on intangible property-bank stock, for examplebut this represents a negligible proportion of the tax base. (Property taxes on household furnishings are included in personal property taxes in

the NIPA's.) Table 2 shows property tax accruals calculated on several different bases in order to isolate the sources of growth. Column 1 is the regularly published accruals estimate (see NIPA table 3.3). Column 2 shows what these taxes would have been if the average effective tax rate had been held constant at the 1961 level. Column 3 is the difference between columns 1 and 2, and is the accruals due to the changes in the average effective tax rate from the 1961 level.

Column 4 shows what property taxes would have been if the assessment/market ratio had been held constant at the 1961 level, and column 5, the difference between column 4 and the published accruals in column 1, is the accruals due to changes in the assessment/market ratio from the 1961 level. Column 6 holds both the average effective tax rate and the assessment/market ratio constant. Column 7 again holds the average effective tax rate and assessment/market ratio constant, but applies them to market values calculated in 1961 dollars to remove the effect of inflation.¹ Column 8 is the difference between columns 6 and 7, and is the accruals due to the rise in prices of taxable property.

Table 3 shows the annual change in property taxes calculated on the various bases shown in table 2. Columns 1, 2, and 3 present total changes in the published accruals, changes due to real growth in the taxable property, and changes due to inflation, respectively. Columns 2 and 3 are changes that are not the result of legislative actions. Columns 4 and 5 show changes due to changes in the average effective tax rate, and due to changes in the assessment/market ratio.

The contribution of real growth in taxable property varied considerably. Only once from 1962 to 1969 did real growth generate more than \$0.4 billion in tax increases. The weak increases in 1968 and 1969, after a strong 1967 increase, may be related to the urban unrest prevalent in the later 1960's, when much inner-city

property was abandoned by owners and thus effectively removed from taxable status. In 1970-76, the tax increases generated by real growth averaged about \$1.2 billion. The small increase in 1977 probably reflects reduced additions of new structures to the tax base during the 1974-1975 recession.

Table 2.—Local Government Indirect Business Property Tax Accruals, Various Measures

[Billions of dollars]

Үеаг	Pub- lished	Assum- ing 1961 effective tax rate	Column (1) less column (2)	Assum- ing 1961 assess- ment/ market ratio	Column (1) less column (4)	Assum- ing 1961 effective tax rate and 1961 assess- ment/ market ratio	Assum- ing the applica- tion of 1961 effective tax rate and 1961 assess- ment/ market values calculat- ed in 1961 dollars	Column (6) less column (7)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	$\begin{array}{c} 17.0\\ 18.4\\ 19.7\\ 22.5\\ 23.8\\ 26.2\\ 29.1\\ 31.9\\ 35.7\\ 39.5\\ 45.2\\ 45.2\\ 45.2\\ 45.2\\ 45.2\\ 61.7\\ 61.8\\ 62.1\\ 65.9\\ \end{array}$	$\begin{array}{c} 17.0\\ 17.5\\ 17.9\\ 18.3\\ 18.8\\ 19.2\\ 21.5\\ 24.1\\ 26.8\\ 30.2\\ 33.8\\ 37.2\\ 41.0\\ 46.1\\ 51.7\\ 58.0\\ 63.9\\ 70.6\\ 79.0\\ 87.6\\ \end{array}$	$\begin{array}{c} 0\\ 9\\ 1.8\\ 2.7\\ 3.7\\ 4.6\\ 4.7\\ 5.0\\ 5.1\\ 5.5\\ 5.7\\ 4.9\\ 4.2\\ 1.8\\ 2.\\ -1.2\\ -8.8\\ -17.0\\ -21.7\end{array}$	$\begin{array}{c} 17.0\\ 18.4\\ 19.6\\ 21.0\\ 22.5\\ 23.8\\ 26.1\\ 28.3\\ 30.6\\ 34.4\\ 38.3\\ 46.2\\ 49.3\\ 55.8\\ 57.9\\ 63.4\\ 66.1\\ 69.2\\ 74.6\\ \end{array}$	$\begin{array}{c} 0\\ 0\\ 0\\ 0\\ 0\\ 1\\ 2\\ 2\\ 8\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3\\ 1.3$	$\begin{array}{c} 17.0\\ 17.5\\ 17.9\\ 18.3\\ 18.7\\ 19.2\\ 21.4\\ 23.4\\ 25.5\\ 28.9\\ 32.7\\ 36.4\\ 42.1\\ 47.5\\ 53.6\\ 59.1\\ 65.6\\ 65.6\\ 74.9\\ 86.2\\ 96.3\\ \end{array}$	17.0 17.4 17.7 18.0 18.2 19.4 19.5 20.0 21.5 26.0 27.2 28.0 28.2 28.0 28.2 28.0 30.0 30.0 30.8	$\begin{array}{c} 0\\ 0\\ .2\\ .3\\ .6\\ .6\\ .0\\ .0\\ .0\\ .0\\ .0\\ .0\\ .0\\ .0\\ .0\\ .0$

Note.-Interactions between rate and assessment/market ratio changes were separately calculated and allocated to columns 2 and

Table 3.—Annual Change in Local Government Indirect Business Property Tax Accruals, by Source of Change

[Billions of dollars]

			Annual cha	ange due to	
Year	Pub- lished	Real growth in taxable property	Inflation in the value of taxable property	Change in average effective tax rate	Change in assess- ment/ market ratio
	(1)	(2)	(3)	(4)	(5)
1962 1963 1964 1965 1966 1967 1968 1969 1969 1970	1.5 1.3 2.4	0.4 .3 .3 .2 .1 1.1 .1 .4 1.6	0 .1 .2 .2 .4 1.0 1.9 1.8 1.7	0.9 .8 1.0 1.0 .8 .1 .3 .1 .5	0 0 0 .1 .6 .5 0
1971 1972 1973 1974 1974 1975 1976 1976 1977 1978 1978 1979 1980 1980	3.7 2.7 3.0 2.7 4.1 4.8 5.0 .1 .2 3.8	1.8 1.2 1.0 .4 1.3 .8 .3 .8 1.0 .8	2.0 2.5 4.7 5.1 4.8 6.2 8.6 10.3 9.4	$\begin{array}{r} .2 \\8 \\ -2.4 \\ -1.6 \\ -1.5 \\9 \\ -6.6 \\ -8.2 \\ -4.8 \end{array}$	$\begin{array}{r}3\\2\\ -1.9\\4\\4\\ .7\\5\\ -2.6\\ -2.8\\ -1.5\end{array}$

^{1.} Current- and constant-dollar estimates for taxable types of equipment and structures for fixed private capital were taken from Bureau of Ecomonic Analysis Fixed Reproducible Tangible Wealth in the United States, 1925-79 (Washington, D.C.: U.S. Government Printing Office, March 1982) and from unpublished BEA data.

Only in 1962–66 did changes in the average effective rate add substantially to property tax increases. In that period, tax increases generated by increasing effective rates averaged about \$1.0 billion. In 1967-71, increases averaged only \$0.2 billion and in 1972-80, the average effective tax rate declined so that the contribution of effective rate changes was negative, ranging between -\$0.8 billion and -\$8.2 billion.

Declines in effective rates did not necessarily involve explicit "millage" changes; legislative actions granting exemptions or imposing income-related ceilings on property taxes for the elderly, the poor, or other specified classes of property owners also reduce average effective tax rates. It may be that declines in tax rates brought "circuit-breaker" about by these mechanisms were partly offset by increased rates for taxpayers not qualifying for circuit-breakers.

The negative changes due to the average effective tax rate after 1971 coincide reasonably well with the major "circuit-breaker" actions taken by a number of State legislatures. The Advisory Commission on Intergovernmental Relations (ACIR) lists 30 States and the District of Columbia as having circuit-breaker programs in 1978; of these, 18 were put into effect between 1971 and 1974. Of the six in existence before 1971, four were expanded in that year.² ACIR estimates that these circuit-breakers lowered taxes about \$0.9 billion in 1977. However, other factors, including rate freezes (such as those that became law in California in 1972 and in Indiana in 1974), also contributed significantly to the negative impact of the average effective tax rate on property tax growth. California's Proposition 13 accounted for a portion of the large 1978 and 1979 changes (about \$1.5 billion and \$3.5 billion, respectively), but the effect of other rate reductions in those years was significant—about \$4.5 billion in 1978. It appears, therefore, that policy decisions since 1971, at least with respect to average effective tax rates, reduced property taxes markedly below levels that would otherwise have been reached.

Table 3 indicates that changes in assessment/market ratios had little effect on property tax growth in 1962-67, and added modestly in 1968-69. After 1970, the impact of such changes was negative. Although partly the result of legislative action, (e.g., in Maryland in 1978), most of the negative impact probably was caused by the inability of assessors to keep pace with the effects of inflation on market values. About one-half of the \$2.6 billion decline in 1978 was the result of California's Proposition 13, which abruptly pushed back assessments to levels that had obtained in 1977, and in some cases, even earlier.

Changes in assessment/market ratios may reflect policy decisions primarily intended to affect property tax receipts, but they also may reflect policy decisions where there is no intent to affect the level of receipts. Where assessments have increased more slowly than market values because of a shortage of assessors, a decision might be made to hire more assessors to bring assessments up to date in order to equalize assessments. and thus tax liabilities, for properties of equal market values. In another situation, a decision might be made to alter the shares of taxes paid by different classes of property owners. For example, residential property might assigned a lower assessment/ be market ratio than commercial or industrial property, thus shifting the property tax burden away from homeowners.

Sales taxes

This section discusses the growth of four major State sales taxes: general sales, motor fuel, alcohol, and tobacco products. For these taxes the effects of legislative actions were identified directly, most often with data from State revenue offices. (Local governments also have sales taxes, and they increased markedly over the period, but they are among the local taxes for which data on legislative actions are not generally available.) Administrative changes, such as acceleration of collections from businesses, are not covered because sales taxes are measured on an accrual basis in the NIPA's.

State general sales taxes.—The contribution of legislative actions to growth in this group of taxes shifted rather abruptly in 1972 (table 4). Through the 1960's and early 1970's, legislative actions accounted for between 20 percent and 70 percent of growth. In 1973-77, legislative actions still added to growth, but were much less important, contributing between 4 percent and 13 percent of growth. In 1978–80, the impact of legislative actions was negative. Base changesprimarily the removal of grocery food sales, drugs, industrial and agricultural equipment, and most recently, resi-

Table 4.—Annual Change in Selected State Government Sales Tax Accruals and Percent Due to **Legislative Actions**

[Billions of dollars]

YearAnnual changePercent due to legisla- tive actionsPercent Annual changePercent due to legisla- tive actionsPercent due to legisla- tive actionsPercent Annual changePercent due to legisla- tive actionsPercent due to legisla- tive actionsPercent due to legisla- tive actionsPercent due to legisla- tive actionsPercent due to legisla- tive actionsAnnual changePercent due to legisla- tive actionsAnnual changePercent due to legisla- tive actionsAnnual changePercent due to legisla- tive actionsAnnual changePercent due to legisla- tive actionsAnnual changePercent due to legisla- tive actionsAnnual changePercent due to legisla- tive actionsAnnual change <th colspan="13"></th>													
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		To	tal					Alcohol and tobacco sales tax accruals					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Year		due to legisla- tive		due to legisla- tive		due to legisla- tive	Annual	Percent due to legisla- tive actions				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	63	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 30\\ 28\\ 36\\ 39\\ 60\\ 48\\ 42\\ 38\\ 29\\ 30\\ 19\\ 15\\ 13\\ 13\\ 6\\ 1\\ 1\end{array}$.4 .7 .9 .9 2.2 1.6 1.5 1.5 1.8 2.3 2.2 2.8 1.9 3.5 3.8 4.4	26 26 31 44 69 50 44 37 26 19 12 13 8 12 13 8 12 (@)	2 2 3 3 3 5 5 4 5 5 4 5 5 4 5 7 7 -1 3 6 6 4 4	14 16 18 0 20 27 27 26 23 37 35 (*) 39 13 15 17	1 1 3 2 2 5 2 5 3 5 3 5 3 2 2 2 2 2 2 2 2 2	22 566 69 57 73 60 64 50 58 68 33 35 35 24 59 59 32 11				

@Effect of legislative action negative.
*Total change negative, legislative action positive.

^{2. &}quot;Significant Features of Fiscal Federalism, 1978-79", Advisory Commission on Intergovernmental Rela-tions, May 1979.

dential utilities sales, from the tax base—were responsible for this negative turn. Rate reductions were a negligible factor. On the basis of information available for 1981, it would appear that this movement has been reversed.

State motor fuel sales taxes.—In 1961-67, legislative actions accounted for about 20 percent of the \$0.3 billion average increase in motor fuel sales taxes. In 1968-73, when increases averaged twice as much, legislative actions accounted for about 30 percent. These taxes declined in 1974, as a result of the 1973 embargo by the Organization of Petroleum Exporting Countries (OPEC) on oil exported to the United States; legislated rate increases were insufficient to reverse the effects of a decline in motor fuel consumption.

Consumption increased slightly in 1975, as did taxes. Consumption continued to increase in 1976-78, at rates similar to those recorded in the 1960's; legislative actions contributed only modestly to the accompanying acceleration in taxes. In 1979-80, the second round of OPEC actions reduced consumption more severely than did the 1973 embargo. Again, legislated rate increases partly counteracted the decline.

In most States, motor fuel taxes are reserved for the use of transportation or highway departments. In addition, other departments of State government are affected by factors, e.g. the state of the economy, in different ways than are highway operations. Thus, pressures for legislative actions with respect to fuel taxes do not necessarily occur at the same time or for the same reasons as they do with respect to income or general sales taxes. Prices of goods and services purchased for the construction, repair, and maintenance of highways increased more rapidly through most of the 1970's than most other prices paid by State governments. These factors, coupled with the depressed motor fuel tax collections, have generated great pressure for legislative actions. Partial data indicate that 26 States increased motor fuel tax rates in 1981, adding \$0.6 billion to accruals. Despite these rate increases, motor fuel taxes declined slightly.

Table 5.—Annual Change in State and Local Government Personal Income Taxes and Percent Due to Legislative Action [Billions of dollars]

	То	tal	Sta	ate	Loc	al
Year	Annual change	Percent due to legisla- tive actions	Annual change	Percent due to legisla- tive actions	Annual change	Percent due to legisla- tive actions
1962 1963 1964 1965 1966 1967 1968 1969 1969 1969	.3 .6 .4 1.0 .9 1.8	17 47 14 7 24 51 19 18 32	0.3 .2 .5 .4 .8 .5 1.6 1.7 1.0	21 50 17 8 13 28 20 20 38	0.1 0 .1 0 .2 .3 .2 .2 .2 .2	0 0 0 79 87 15 7 (@
971	4.8 1.7 1.5 2.2 3.9 4.1 4.7 3.3	26 20 (@) 13 11 8 (@) (@) (@)	$1.4 \\ 4.3 \\ 1.6 \\ 1.2 \\ 1.9 \\ 3.5 \\ 3.7 \\ 4.4 \\ 3.0 \\ 6.0 \\$	18 19 (@) (@) 15 6 7 (@) (@) (@)	2 5 1 3 3 2 4 2 2 2 2	8 21 (@ 55 22

@ Effect of legislative action negative.

State alcohol and tobacco taxes.—In all but one year from 1962 to 1972, legislative actions generated at least one-half of total receipts growth for these two taxes. In all but one year after 1972, legislative actions generated less than one-half of the total growth. Because tobacco and alcohol are regarded as "luxuries," these two taxes have traditionally been regarded as relatively easy taxes to increase. After 1972, however, State legislatures did not look to these taxes for additional revenue growth.

Thus, in each of these four major State sales taxes, legislative actions were a major contributor to tax growth before 1973, and, with the exception of motor fuel taxes after 1978, their role was smaller thereafter. There were substantial increases legislated in some States but reductions in other States were relatively more important, and increases less important, than before. This shift approximately coincided with the beginning of improvements in the fiscal position of State and local governments, partly the result of accelerated growth in Federal grants-in-aid beginning in 1972. One consequence of the improvement was reduced pressure on State legislatures for continued increases in tax rates or bases for these sales taxes. Whether or not they could have continued to bear repeated increases is open to question.

Personal income taxes

The contribution of legislative actions to personal income tax growth at the State level appears to have been more modest than for sales taxes (table 5). Legislative actions made their largest positive contribution in 1970-72, when they accounted for onequarter of total growth. A number of States changed income tax laws during that period, but most of the increases came from six major industrial States. Illinois, Pennsylvania, and Ohio each imposed a broad-based personal income tax for the first time; Michigan and Massachusetts increased rates significantly; and New York imposed a surtax.

A large part of the non-legislated change in 1972 was caused by a change in Federal withholding practices under the Revenue Act of 1971. Because most taxpayers do not differentiate between Federal and State reporting for withholding purposes (for example, by claiming different numbers of exemptions for the two levels of government), the effect of the Federal change, which generated large increases in overwithholding at the Federal level, had the same effect at the State level. It is estimated that overwithholding added approximately \$1 billion to State income tax collections in 1972. Further, because the (continued on p. 58)

Recent Developments in Mortgage Markets

MORTGAGE markets have changed significantly in recent years. For example, since 1978:

• Thrift institutions—subject to the vagaries of deposit inflows—have accounted for only 50 percent of mortgage originations, down noticeably from their 57 percent share in 1976-78. Mortgage companies, with their excellent access to capital markets, have increased their share of originations from 16½ percent in 1976-78 to $23\frac{1}{2}$ percent.

• Local governments have become important suppliers of mortgage funds through the issue of tax-exempt mortgage revenue bonds.

• Secondary markets, bringing funds to mortgage markets from nontraditional investors, have become increasingly important. In 1979-81:III, 46 percent of home mortgages originated were sold in secondary markets, up sharply from 36 percent in 1976-78.

• The average maturity of savings and loan associations' liabilities has shortened, as depositors shifted funds to 6-month money market certificates from longer term certificates. This shift exacerbated the asset/liability maturity mismatch and has exposed the associations to severe financial strains.

• Major regulatory changes have blurred the distinctions between thrift institutions, which hold the bulk of their assets as home mortgages, and commercial banks, which hold relatively few of their assets in this form.

• A number of alternatives to the standard long-term fixed-payment mortgage have been developed and their use seems likely to increase in years to come.

This article will discuss these developments, interpreting many of them as evolutionary responses to changes in the financial climate. More specifically, higher rates of inflation-and the high and volatile interest rates associated with higher inflation rateswill frequently be cited as factors prompting these developments. The first section focuses on the behavior of mortgage lenders, both originators and ultimate holders of mortgage assets. The following section turns to the secondary market and mortgagebacked securities-the principal vehicle nontraditional investors have used to enter the mortgage market. The changing regulatory framework is discussed in the third section, with emphasis on the introduction of shortterm variable ceiling certificates at depository institutions and on the Depository Institutions Deregulation and Monetary Control Act of 1980. Relevant provisions of the Economic Recovery Tax Act of 1981—specifically provisions relating to Individual Retirement Accounts and All Savers Certificates—are also discussed in this section. Alternative mortgage instruments are discussed in the final section.

Mortgage lenders

This section discusses the mortgage activity of mortgage originators and ultimate holders of mortgage assets. the discussion calls attention to both cyclical and secular elements in recent mortgage activity, providing background for the remainder of the article.

Mortgage originators.—Reduced inflows of funds—net new savings (exclusive of interest credited) and net mortgage loan repayments—at thrift

Table 1.—Originations of Long-Term Mortgage Loans, One- to Four-Family Nonfarm Houses, 1970–81

	Deposi	itory insti	utions		Feder-	
	-	Th	ifts	Mort-	ally	
Year	Com- mercial banks	Savings and loan associ- ations	Mutual savings banks	gage compa- nies	spon- sored credit agen- cies ¹	Total ²
			Billions of	of dollars		
970	7.8	14.8	2.1	8.9	1.4	35.6
971		26.6	3.5	12.5	1.8	57.8
972		36.7	5.1	13.3	2.0	75.9
973	18.8	38.4	5.9	12.7	2.4	79.1
974	16.1	30.9	3.9	13.0	2.5	67.5
975		41.2	4.3	14.0	2.9	77.9
976		61.9	6.4	15.7	2.7	112.8
977	36.7	86.3	8.7	25.7	3.1	162.0
978		90.0	9.4	34.4	4.8	185.0
979		82.8	9.0	45.3	4.4	186.6
980		61.1	5.4	29.4	4.4	133.8
981 ³		34.1	3.3	29.4 19.0	4.4 3.6	77.5
		1	Percent	of total		
970	21.9	41.6	5.9	25.0	3.9	100
971		46.0	6.1	21.6	3.1	100
972		48.4	6.7	17.5	2.6	100
973		48.5	7.5	16.1	3.0	100
		45.8	5.8	19.3	3.7	100
975		52.9	5.5	18.0	3.7	100
976		54.9	5.7	13.9	2.4	100
977		53.3	5.4	15.9	1.9	100
978		48.6	5.1	18.6	2.6	100
979		40.0	4.8	24.3	2.4	100
980	21.8	45.7	4.0	22.0	3.3	100
981 3		44.0	4.3	24.5	3.5 4.6	100
	20.4	44.0	4.0	£4.0	4.0	100

1. Includes Government National Mortgage Association. 2. Includes data not shown separately.

3. Three quarters, not at annual rate.

Source: U.S. Department of Housing and Urban Development.

institutions (savings and loan associations and mutual savings banks) account for much of the decline in their share of mortgage originations since 1978. At insured savings and loan associations (S&L's), the inflow of funds fell \$24.3 billion from 1978 to 1980 while mortgage originations fell \$28.9 billion; at mutual savings banks, the inflow of funds fell \$6.2 billion while mortgage originations dropped \$4 billion (tables 1 and 2).¹ The slowing of the inflow of funds, in turn, is largely attributable to the high interest rates since 1978. When rates are high, savings inflows at thrifts tend to be low, as individuals shift their savings toward instruments paying marketdetermined yields from the belowmarket regulated yields paid on savings accounts at thrifts. The proliferation of money market mutual funds in the late 1970's made it easier for individuals to move their saving to high-yield instruments. The savings flow would undoubtedly have been even slower if depository institutions had not been permitted in June 1978 to begin offering short-term certificates with yields linked to the rate on 6-month Treasury bills. Loan repayments, the other important component of funds inflow, fall when interest rates rise because many loan repayments occur on the occasion of a house sale, and high interest rates discourage house sales. Furthermore, high rates on new mortgages induce house buyers to assume outstanding low-rate mortgages rather than take out an entirely new mortgage; repayments by house sellers, therefore, fall.

Other factors, two of which deserve explicit mention, contributed to the decline in thrift institutions' share of originations. First, secular decline in savings banks' originations-traceable to weak housing markets, declining population, and slow economic growth in the Northeast, where 94 percent of savings banks are located—continued in 1979-81. Second, interest rates on conventional mortgages, in which thrifts specialize, pressed against usury ceilings in some States. (Government-underwritten mortgages, on the other hand, were generally exempt from usury laws. This exemption was extended to conventional

mortgages by the Depository Institutions Deregulation and Monetary Control Act of 1980.)

Mortgage companies do not depend on deposit flows or mortgage repayments for loanable funds and enjoy excellent access to capital markets via passthrough certificates (discussed in the next section). Mortgage companies' share of originations, accordingly, was 6 percentage points higher in the first three quarters of 1981 than it had been in 1978. Mortgage companies have long been the principal originators of the mortgages insured by the Federal Housing Administration (FHA) or guaranteed by the Veterans Administration (VA), and the domination of this federally underwritten sector of the market by mortgage companies has been increasing. Since 1978, mortgage companies have accounted for 82 percent of all federally underwritten long-term mortgage loans on 1- to 4-family nonfarm homes, up almost 15 percentage points from their 1970-72 share (table 3). Moreover, during the 1970's mortgage companies became important originators of conventional mortgages, largely as a result of a 1971 change in the Federal National Mortgage Association's (FNMA's) charter-a change that authorized FNMA to begin purconventional mortgages. chasing (FNMA and three other housing credit agencies are described on page 21.) Since 1978, mortgage companies have originated 8.4 percent of all long-term conventional mortgage loans on 1- to 4-family homes, and conventional originations have accounted for 28.5 percent of total mortgage company originations; in 1970-71, these shares had been 1.6 percent and 4.7 percent, respectively.

Mortgage holders.—Mortgage originators need not, of course, hold mort-

Table 2.—Inflow of Funds at Thrift Institutions, 1970-81

[Billions of dollars]

		savings a ssociation		Mutua	banks	
Year	Net new savings	Net mort- gage repay- ments	Total	Net new savings	Net mort- gage repay- ments	Total
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981	$20.7 \\ 23.9 \\ 10.5 \\ 4.7 \\ 29.3 \\ 34.4 \\ 32.0 \\ 23.5 \\ 15.0 \\$	13.2 20.2 25.6 26.7 23.2 28.2 37.3 48.5 52.2 49.7 40.7 34.3	18.5 40.9 49.5 37.2 27.9 57.5 71.7 80.5 75.7 64.7 51.4 8.8	$\begin{array}{c} 0.9\\ 5.7\\ 5.5\\4\\ -2.8\\ 4.8\\ 5.3\\ 2.9\\6\\ -7.0\\ -4.9\\ -13.8\end{array}$	$\begin{array}{c} 4.0\\ 5.7\\ 7.4\\ 7.6\\ 6.6\\ 7.1\\ 7.8\\ 10.1\\ 10.6\\ 10.0\\ 8.7\\ (^1)\end{array}$	$\begin{array}{c} 4.9\\ 11.4\\ 12.9\\ 7.2\\ 3.8\\ 11.9\\ 13.1\\ 13.0\\ 10.0\\ 3.0\\ 3.8\\ (1) \end{array}$

1. Not available.

Source: Federal Home Loan Bank Board and National Association of Mutual Savings Banks.

 Table 3.—Originations of Long-Term Mortgage Loans on One- to Four-Family Nonfarm Houses

 by Mortgage Companies, 1970–81

Billions	of dollars]	

	Fede underv		Conventional				(3) as
Year	Mort- gage compa- nies Total Mort- gage compa- nies Total		Total	(1) as percent of (2)	(3) as percent of (4)	percent of (1) + (3)	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	8.5 11.9 11.2 8.6 9.4 10.9 12.5 19.9 24.0 32.9 21.7 12.0	$12.6 \\ 17.8 \\ 16.2 \\ 12.8 \\ 12.4 \\ 15.1 \\ 17.4 \\ 25.4 \\ 30.6 \\ 39.5 \\ 27.1 \\$	$\begin{array}{c} 0.4\\ .6\\ 2.2\\ 4.1\\ 3.7\\ 3.1\\ 3.3\\ 5.8\\ 10.5\\ 12.3\\ 7.7\end{array}$	23.0 40.0 59.7 66.4 55.1 62.8 95.4 136.6 154.4 154.4 154.4 106.7	67.3 66.6 68.8 67.1 75.4 72.3 71.6 78.3 78.3 78.3 83.4 80.3	$ \begin{array}{r} 1.8 \\ 1.6 \\ 3.6 \\ 6.2 \\ 6.6 \\ 4.9 \\ 3.4 \\ 4.2 \\ 6.8 \\ 8.4 \\ 7.2 \\ \end{array} $	$\begin{array}{r} 4.7\\ 5.0\\ 16.3\\ 32.3\\ 28.1\\ 21.9\\ 20.8\\ 22.6\\ 30.4\\ 27.2\\ 26.1\end{array}$

1. Three quarters, not at annual rate

Source: U.S. Department of Housing and Urban Development.

^{1.} Unless otherwise noted, data on mortgages relate to long-term loans on 1- to 4-family nonfarm houses.

Selected Housing Credit Agencies

The *Federal National Mortgage Association* (FNMA or Fannie Mae) provides funds to mortgage originators through its purchases of mortgages on the secondary market. It became a privately owned corporation in 1968. Previously, it was wholly owned by the Federal Government (1938-54) and under mixed ownership (1954-68). FNMA is subject to supervision by the Secretary of Housing and Urban Development and, regarding its issues of securities, by the Secretary of the Treasury.

FNMA acquires home mortgages through three types of programs. First, biweekly auctions are held at which FNMA offers commitments to purchase home mortgages. Mortgage originators who want to obtain a commitment from FNMA submit bids that specify the volume of mortgages for which commitments are sought and the yield to FNMA. Delivery of the mortgages during the 4-month commitment period is at the option of the mortgage originator.

Second, FNMA sells 9- and 12-month convertible, standby commitments at posted prices, i.e., outside the auction system. After holding a standby commitment for 4 months, the holder may convert it to a 4month commitment, with the yield to FNMA being the weighted average yield at the most recent auction. Under a standby commitment, delivery of the mortgages is at the option of the mortgage originator.

Third, FNMA initiated a number of new mandatory delivery programs in 1981. For each of these, FNMA specifies a yield at which it will purchase mortgages; generally, delivery must be made within 1 to 4 months.

FNMA finances its operations by the sale of debentures and notes in capital markets and by charging commitment fees. Although its notes and debentures are classified as "Federal Agency Securities," they are not obligations of the Federal Government and are not federally guaranteed.

The Government National Mortgage Association (GNMA or Ginnie Mae) assists in providing mortgage credit and in stabilizing the financing of selected types of mortgages. It was established within the Department of Housing and Urban Development in 1968 to take over some of the activities that previously had been performed by FNMA. Many of those activities—notably the servicing and disposal of mortgages it purchased or that were transferred to it, and the purchase and resale of mortgages at yields that subsidized housing—have since been reduced to very low levels.

Currently, GNMA's primary involvement in the mortgage market is through its mortgage-backed securities program. Since 1970, GNMA has guaranteed the timely payment of principal and interest on passthrough certificates backed by pools of federally underwritten mortgages. (In a pool backing GNMA passthroughs, the individual mortgages are insured by the Federal Housing Administration or guaranteed by the Veterans Administration. Thus, GNMA's guarantees of the passthrough certificates mainly cover the timing of the cash flow.) The *Federal Home Loan Mortgage Corporation* (FHLMC, The Mortgage Corporation, or Freddie Mac) provides assistance to the secondary market for home mortgages by supplying liquidity through its purchases of mortgages. Its primary concern is the secondary market for conventional home mortgages, i.e., those not insured by the Federal Housing Adminstration or guaranteed by the Veterans Adminstration. The FHLMC was chartered by Congress in 1970 as a private corporation. It is owned by the 12 Federal home loan banks (which, in turn, are owned by their member institutions).

FHLMC periodically auctions commitments to purchase mortgages. Auctions for 8-month commitments, with delivery at the option of the mortgage originator, are held monthly. Auctions for the "immediate purchase" of mortgages—under which mortgages must be delivered to FHLMC within 60 days—are held weekly. Like FNMA, FHLMC decides after each auction which bids to accept.

Mortgages acquired by the FHLMC are placed in pools and used to back the issuance of two kinds of certificates: participation certificates and guaranteed mortgage certificates. FHLMC guarantees the timely payment of interest and principal to owners of participation certificates, and the semi-annual payment of interest and annual repayment of principal to owners of guaranteed mortgage certificates. Sales of the two kinds of certificates provide FHLMC with most of the funds it needs to operate its mortgage purchase programs.

The *Federal Home Loan Bank System* has supervisory and regulatory authority for system members and provides credit to members to stabilize their mortgage lending. The System was established by an act of Congress in 1932. It is supervised by the Federal Home Loan Bank Board, an agency in the executive branch of the Federal Government. The System consists, in addition to the Board, of 12 Federal home loan banks, which are owned by their member institutions.

The Board has supervisory and regulatory authority for all federally chartered savings and loan associations. These associations are required by law to be members of the System. In addition, about 2,000 State-chartered savings and loan associations have joined voluntarily in order to qualify for insurance by the Federal Savings and Loan Insurance Corporation, as have over 80 mutual savings banks and few life insurance companies.

The 12 banks make loans ("advances") to their member institutions, serving as a central source of credit. These advances meet heavy withdrawals of deposits, smooth seasonal imbalance between deposits and loan disbursements, and allow expansion of mortgage lending. The primary source of financing for the banks' advances is the sale of consolidated obligations in the money and capital markets. (Like FNMA's debt, these obligations are classfied as "Federal Agency Securities," but they are not obligations of the Federal Government and are not federally guaranteed.) Deposits received from member banks also help finance advances.

gage assets in portfolio; mortgage companies, for example, sell all of the mortgages they originate. Nevertheless, there is considerable overlap between mortgage originators and mortgage holders, as is clear from a comparison of tables 1 and 4. During 1970-78, for example, depository institutions-commercial banks and thrift institutions-accounted for about 78 percent of originations and 72 percent of the increase in holdings of mortgages. This overlap has been smaller, but still significant, since 1978; depository institutions have accounted for about 71 percent of originations and 50 percent of the increase in

holdings.² Commercial banks, life insurance companies, and, to a lesser extent, mutual savings banks are diversified investors that select assets for their portfolios on the basis of relative yields. (Risk, cash flow, and maturity are also important considerations, of course.) S&L's, on the other hand, have tended year after year to devote

2. The steep decline in depository institutions' share of the net increase in holdings since 1978 reflects the slow inflow of funds—which has limited the amount that these institutions have available to invest in all types of assets, mortgages included—and the increased importance of mortgage pools and State and local governments in mortgage markets. 70-80 percent of the increase in their assets to home mortgages. The year 1980 was an exception to this rule; mortgages accounted for only 53 percent of total financial assets acquired by S&L's, by far the lowest percentage since World War II.

Federally sponsored credit agencies (FSCA) tend to increase their holdings of home mortgages more rapidly when interest rates rise and less rapidly when interest rates decline. FNMA and FHLMC (the Federal Home Loan Mortgage Corporation) account for the bulk of FSCA activity in mortgage markets. An important part of FNMA and FHLMC operations consists of selling commitments to purchase mortgages from mortgage originators. Delivery of the mortgages to these agencies during the commitment period is at the option of the loan originators. If mortgage rates fall during the committment period, originators find that they can obtain better prices for their loans by selling their mortgages to other buyers than they can by "taking down" their FNMA/FHLMC commitments. Thus, falling mortgage rates—or, more generally, mortgage rates that rise by less than had been expected—are associated with decreased acquisitions of mortgages by the FSCA. Converse-

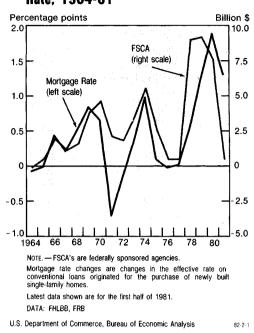
	Deposi	itory instit	utions		Feder-					
		Thr	rifts	Life	ally	Mort-	State and			
Year	Com- mercial banks	Savings and loans associ- ations	Mutual savings banks	insur- ance compa- nies	spon- sored credit agen- cies	gage pools	local govern- ments	House- holds	Other	Total
					Billions of	of dollars				
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981	6.6 2.1 9.2 18.9	$\begin{array}{c} 6.8\\ 16.4\\ 24.6\\ 21.5\\ 13.9\\ 23.2\\ 36.9\\ 49.9\\ 45.4\\ 38.4\\ 24.6\\ 18.1\end{array}$	$1.1 \\ 1.2 \\ 2.7 \\ 2.6 \\ .7 \\ .8 \\ 3.1 \\ 4.5 \\ 4.6 \\ 2.4 \\ .6 \\ .6 \\ .6 \\ .6 \\ .6 \\ .6 \\ .6 \\ $	$\begin{array}{r} -0.9 \\ -2.1 \\ -2.3 \\ -1.9 \\ -1.4 \\ -1.5 \\ -1.4 \\3 \\ 1.8 \\ 1.7 \\ .2 \end{array}$	$\begin{array}{c} 4.6\\ 2.1\\ 1.8\\ 3.5\\ 5.5\\ 2.5\\ .5\\ .5\\ 9.0\\ 9.2\\ 7.6\\ 4.6\end{array}$	$1.2 \\ 4.3 \\ 4.3 \\ 3.2 \\ 3.3 \\ 7.3 \\ 7.3 \\ 11.9 \\ 15.7 \\ 12.4 \\ 22.8 \\ 18.0 \\ 12.0 \\ $	0.1 .1 .1 .6 .7 .8 .8 .2 1.9 4.7 7.5 6.9	$\begin{array}{c} -0.3 \\ 3.0 \\ 3.3 \\ 3.0 \\ 3.8 \\ 3.0 \\ 5.0 \\ 8.1 \\ 8.7 \\ 9.0 \\ 6.3 \\ 5.1 \end{array}$	$1.5 \\8 \\ .2 \\ 1.4 \\ .2 \\ 3.1 \\2 \\ 3.0 \\ 3.5 \\ 4.2 \\ 3.4 \\ 5.3 \\$	15.0 29.9 43.7 44.9 33.3 41.4 65.7 99.4 109.3 112.5 81.0 68.4
					Percent	of total				
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981	5.1 14.0 19.0 22.0	45.3 54.8 56.3 47.9 41.7 56.0 56.2 50.2 41.5 34.1 30.4 26.5	7.3 4.0 6.2 5.8 2.1 1.9 4.7 4.5 4.2 2.1 .7 .9	$\begin{array}{r} -6.0 \\ -7.0 \\ -5.3 \\ -4.2 \\ -4.2 \\ -3.4 \\ -2.3 \\ -1.4 \\3 \\ 1.6 \\ 2.1 \\ .3 \end{array}$	30.7 7.0 4.1 7.8 16.5 6.0 .8 .5 8.2 8.2 9.4 6.7	$\begin{array}{c} 8.0 \\ 14.4 \\ 9.8 \\ 7.1 \\ 9.9 \\ 17.6 \\ 18.1 \\ 15.8 \\ 11.3 \\ 20.3 \\ 22.2 \\ 17.5 \end{array}$.7 .3 .2 1.3 2.1 1.9 1.2 .2 1.7 4.2 9.3 10.1	$\begin{array}{c} -2.0\\ 10.0\\ 7.6\\ 6.7\\ 11.4\\ 7.2\\ 7.6\\ 8.1\\ 8.0\\ 8.0\\ 7.8\\ 7.5\end{array}$	$ \begin{array}{c} 10.0 \\ -2.7 \\ .5 \\ 3.1 \\ .6 \\ 7.5 \\3 \\ 0.0 \\ 3.2 \\ 3.7 \\ 4.2 \\ 7.7 \\ \end{array} $	100 100 100 100 100 100 100 100 100 100

Table 4.—Increase in Home Mortgage Loans Held, by Type of Institution, 1970-81

1. Three quarters, at seasonally adjusted annual rate, preliminary.

Source: Federal Reserve Board.

Net Acquisition of Home Mortgages by FSCA's and Change in Mortgage Rate. 1964-81



ly, mortgage rates that rise by more than had been expected are associated with increased acquisitions by the FSCA (chart 1).³

Since 1978, mortgage pools have been second only to S&L's as a source of mortgage funds, and State and local governments—previously a negligible source—have supplied almost as much as the FSCA's. The remarkable rise of these two types of lenders is discussed in the following section.

Secondary markets

Secondary markets allow mortgage originators to sell mortgages that they do not wish to hold in portfolio and allow ultimate investors to hold mortgage assets without becoming involved in the mortgage origination and servicing processes. Secondary market sales rose \$50 billion (360 percent) from 1970 to 1980; proceeds of these sales financed a good part of the increase in originations in the primary market during the period.

CHART 1

^{3.} Federal home loan bank (FHLB) loans to S&L's follow the same general pattern as FSCA holdings of mortgages: When mortgage rates rise, FHLB loans increase faster than when mortgage rates decline. Rising mortgage rates are usually associated with declining net deposit flows at S&L's-declining in absolute terms, in percentage rates of change, or relative to mortgage demand—and S&L's supplement these declining flows with FHLB loans.

Table 5.--Sales and Purchases of Long-Term Mortgage Loans on One- to Four-Family Nonfarm Houses, 1970-81

Four factors explain the increase in secondary market activity (table 5). First, as a healthy part of an expanding economy, secondary market activity would be expected to increase as a matter of course; "business as usual," with no innovations in the market and unchanged behavior patterns of market participants, would result in increased activity. Also, rising house prices inflate dollar measures of activity. Note, for example, that the size of the average mortgage rose about 130 percent from 1970 to 1980. Thus, even if there had been no increase in the number of mortgages sold on secondary markets, the value of sales would have risen from \$14.2 billion in 1970 to about \$32 billion in 1980. Perhaps as much as one-half the increase in sales on secondary markets, therefore, represents the effects of economic growth and rising prices.

Second, in 1971, FNMA and FHLMC began to purchase conventional mortgages. (These agencies also standardized underwriting practices on conventional mortgages and sponsored the development of an information sharing network that further stimulated secondary market activity in conventional mortgages.) Prior to this time, FNMA purchased only federally underwritten mortgages and FHLMC did not exist. Conventionals accounted for 70 percent of total originations in 1971; authorizing these agencies to purchase conventionals, therefore, paved the way for much enlarged secondary market sales.

The new market for conventionals enabled S&L's to increase their mortgage sales. (Most S&L originations are conventionals.) S&L's were induced to avail themselves of this new market because the demand for mortgages rose more quickly than deposit inflows and mortgage repayments. This disparity was the third factor in increased secondary market activity. The top panel in table 6 shows these two sources of funds at all federally insured S&L's, home mortgages made by these S&L's, and their net secondary market purchases of mortgages.⁴

	Depos	itory insti	tutions				
			rift utions	Feder- ally spon-	Mort-	Mort-	
Year	Com- mercial banks	Savings and loan associ- ations	Mutual savings banks	sored credit agen- cies ¹	gage pools	gage compa- nies	Total ²
			Sales in	billions of	f dollars		
1970	1.7	0.8	0.3	1.6	0.1	9.6	14.2
1971	2.0	1.7	.2	1.9	.2	12.4	18.5
1972	2.2	2.9	.2	3.8	.2	14.3	24.1
1973 1974	2.0 1.6	2.8 3.1	.2	4.3 2.5	.4 .7	15.0 14.9	24.9 23.1
1974	2.9	4.7	.2 .2 .5 .2	2.3 6.7	.1	14.5	29.7
1976	4.0	7.7	.4	10.8	.5	14.3	40.9
1977	5.8	13.0	2	7.6	1.3	27.3	55.4
1978	6.8	15.0	.3	9.1	1.4	35.0	67.8
1979	6.6	18.1	.5	5.8	.8	44.4	76.6
1980	7.5	15.5	.7	7.2	3.2	31.5	65.8
1981 ³	2.9	8.2	.3	5.1	2.6	20.4	39.8
			Sales a	s percent	of total		
1970	12.0	5.6	2.1	11.3	.7	67.6	100
1971	10.8	9.2	1.1	10.3	1.1	67.0	100
1972	9.1	12.0	.8	15.8	.8	59.3	100
1973	8.0	11.2	.8	17.3	1.6	60.2	100
1974	6.9	13.4	.9	10.8	3.0	64.5	100
1975	9.8	15.8	.7	22.6	1.7	48.8	100
1976	9.8	18.8	1.2	26.4	1.2	42.3	100
1977	10.5	23.5	.4	13.7	2.3	49.3	100
1978	10.0	22.1	.4	13.4	2.1	51.6	100
1979	8.6	23.6	.7	7.6	1.0	58.0	100
1980 1981 ³	11.4 7.2	23.6 20.6	1.1	10.9 12.8	4.9 6.5	47.9 51.3	100 100
		1	Purchases	in billions	s of dollars	3	
1070	-			F 4	1.0		19.4
1970 1971	.5	3.4 6.6	1.4 1.9	5.4 3.7	1.8 3.9	.1 .4	13.4 18.3
1971	1.1	9.5	2.7	5.0	4.8	.4 1.4	25.1
1972	.9	5.9	2.0	7.4	4.0	1.4	22.6
1974	.4	4.8	1.0	8.8	6.3	.9	23.0
1975	.2	7.2	1.1	10.7	11.2	.8	31.9
1976	.8	11.1	2.1	9.6	16.4	2.2	42.8
1977	1.8	13.2	2.9	9.3	23.4	4.1	55.7
1978	1.7	10.3	2.8	18.8	23.2	3.8	63.0
1979	2.2	11.6	2.6	15.8	29.9	5.7	73.2
1980 1981 ³	4.3 2.2	12.4 7.0	1.0	14.4 8.2	$26.7 \\ 15.8$	3.4 3.2	69.9 41.3
		L		as percer		0.8	
1970	3.7	25.4	10.4	40.3	13.4	.7	100
1971	6.0	36.1	10.4	20.2	21.6	2.2	100
1972	4.0	37.8	10.8	19.9	19.1	5.6	100
1973	4.0	26.1	8.8	32.7	18.6	6.2	100
1974	1.7	20.9	4.3	38.3	27.4	3.9	100
1975	.6	22.6	3.4	33.5	35.1	2.5	100
1976	1.9	25.9	4.9	22.4	38.3	5.1	100
1977	3.2	23.7	5.2	16.7	42.0	7.4	100
1978	2.7	16.3	4.4	29.8	36.8	6.0	100
1979	3.0	15.8	3.6	21.6	40.8	7.8	100
1980	6.2	17.7	1.4	20.6	38.2	4.9	100
1981 3	5.3	16.9	.5	19.9	38.3	7.7	100
	L	L	1				L

 Includes Government National Mortgage Association.
 Includes data not shown separately. Total sales may differ from total purchases because of the incomplete nature of the survey. 3. Three quarters, not at annual rate.

Source: U.S. Department of Housing and Urban Development.

From 1970-72 to 1978-80, the amount of mortgages rose twice as fast as deposits and repayments.

Regional developments are an important aspect of increased S&L purchases and sales in the secondary markets.⁵ In the early 1970's, inflows of funds were substantially larger than mortgages made in virtually all FHLB districts. In the "Eastern" and "Central" districts, mortgage loans amounted to only 41 percent of net deposits and repayments in 1970-72 (bottom panel of table 6); in the 'Southern" and "Western" districts, they amounted to only 45 percent (middle panel). S&L's in all districts used their "surplus" funds to pur-chase mortgages on the secondary market. By 1978-80, the picture had changed substantially. S&L's in the Eastern and Central districts had reduced their net purchases, as mort-

^{4.} The net purchases figures in table 6 differ from those in table 5 because table 6 applies only to insured associations, and table 5 covers all operating associations. Neither set of data includes sales of federally insured passthrough securites out of portfolio or acquisitions of federally insured passthroughs. Adjusting the figures to reflect these sales and acquisitions would probably reduce net sales somewhat for the entire period. The general pattern, however, with positive net sales in recent years, would not be changed

much. See David F. Seiders, "Major Developments, in Residential Mortgage and Housing Markets Since the Hunt Commission," Journal of American Real Estate and Urban Economics Association 8 (Spring 1980): 17-18.

^{5.} See Dwight M. Jaffee and Kenneth T. Rosen, "The Use of Mortgage Passthrough Securities," in New Sources of Capital for the Savings and Loan Industry, Proceedings of the Fifth Annual Conference, December 6-7, 1979, Federal Home Loan Bank of San Francisco.

gages had risen to 56 percent of net deposits and repayments. In the Southern and Western districts, S&L's had become net sellers, as rapid economic growth had increased the demand for mortgages to almost 75 percent of net deposits and repayments.

The fourth factor in the increased activity in the secondary market was the introduction of new forms of securities backed by mortgage pools. A mortgage pool is a collection of mortgages that constitutes the asset against which securities are issued.⁶ Table 7 lists the distinguishing characteristics of the most important types of securities backed by mortgage pools. By far the most common type of these securities is the Government National Mortgage Association passthrough certificate; (GNMA) these certificates are discussed immediately below. Three of the otherstwo types issued by the FHLMC and privately insured passthroughs-are similar in many respects to GNMA passthroughs. Much of the discussion of GNMA passthroughs applies to these three securities as well. Taxexempt mortgage revenue bonds, however, are quite unlike the other mortgage-backed securities listed in table 7 and do receive explicit discussion.

Passthrough certificates.—More than 800 private mortgage originators are active issuers of GNMA passthroughs, and since 1978 about 70 percent of the FHA/VA mortgages that have been originated have been put in GNMA pools. When mortgages are placed in a GNMA pool, the mortgage originator earns a fee for servicing the mortgages and for "passing

Table 6.—Inflow of Funds, Mortgage Lending, and Secondary Market Purchases at Insured Savings and Loan Associations, 1970–80

[Billions of dollars]

		Funds				
Year	Net depos- its	Net mort- gage repay- ments	Total	Home mort- gage loans made	(4) as a percent of (3)	Net second- ary market pur- chases
	(1)	(2)	(3)	(4)	(5)	(6)
		All Feder	al Home I	oan Bank	Districts	
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	10.8 27.3 32.0 19.9 15.6 42.1 49.7 50.2 44.2 38.9 40.9	13.2 20.2 25.6 26.7 23.2 28.2 37.3 48.5 52.2 49.7 40.7	24.0 47.5 57.6 46.6 38.8 70.3 87.0 98.7 96.4 88.6 81.6	9.9 18.3 25.9 27.5 22.1 30.0 44.8 61.3 64.4 59.6 41.2	41.3 38.5 45.0 59.0 57.0 42.7 51.5 62.1 66.8 67.3 50.5	$\begin{array}{c} 2.6\\ 5.4\\ 6.9\\ 3.8\\ 2.4\\ 3.3\\ 4.4\\ .7\\ -4.5\\ -6.3\\ -2.9\end{array}$
		Southe	rn and W	estern Dis	tricts 1	
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1979 1979 1979 1979 1970 <t< th=""><td>2.4 8.6 9.9 5.5 4.2 14.0 17.4 17.7 15.2 15.7 12.5</td><td>3.7 5.9 7.2 7.7 6.9 9.0 12.6 16.3 17.7 17.0 14.0</td><td>$\begin{array}{c} 6.1\\ 14.5\\ 17.1\\ 13.2\\ 11.1\\ 23.0\\ 30.0\\ 34.0\\ 32.9\\ 32.7\\ 26.5\\ \end{array}$</td><td>2.8 5.5 8.5 8.5 10.7 17.8 25.2 25.6 25.6 16.7</td><td>45.9 37.9 49.7 66.7 67.6 46.5 59.3 74.1 77.8 78.3 63.0</td><td>$\begin{array}{c} .5\\ 1.2\\ 1.2\\ 2.2\\2\\6\\ -2.2\\60\\ -8.0\\ -7.6\\ -5.4\end{array}$</td></t<>	2.4 8.6 9.9 5.5 4.2 14.0 17.4 17.7 15.2 15.7 12.5	3.7 5.9 7.2 7.7 6.9 9.0 12.6 16.3 17.7 17.0 14.0	$\begin{array}{c} 6.1\\ 14.5\\ 17.1\\ 13.2\\ 11.1\\ 23.0\\ 30.0\\ 34.0\\ 32.9\\ 32.7\\ 26.5\\ \end{array}$	2.8 5.5 8.5 8.5 10.7 17.8 25.2 25.6 25.6 16.7	45.9 37.9 49.7 66.7 67.6 46.5 59.3 74.1 77.8 78.3 63.0	$\begin{array}{c} .5\\ 1.2\\ 1.2\\ 2.2\\2\\6\\ -2.2\\60\\ -8.0\\ -7.6\\ -5.4\end{array}$
		Easte	rn and Ce	ntral Dist	ricts ²	·
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1978 1978 1980	8.4 18.7 22.1 14.4 11.4 28.1 32.3 32.5 29.0 23.2 28.4	9.5 14.3 18.4 19.0 16.3 19.2 24.7 32.2 34.5 32.7 26.7	17.9 33.0 40.5 33.4 27.7 47.3 57.0 64.7 63.5 55.9 55.1	7.1 12.8 17.4 18.7 14.6 19.3 27.0 36.1 38.8 34.0 24.5	39.7 38.8 43.0 56.0 52.7 40.8 47.4 55.8 61.1 60.8 44.5	$\begin{array}{c} 2.1 \\ 4.2 \\ 5.7 \\ 3.6 \\ 2.6 \\ 3.9 \\ 6.6 \\ 6.7 \\ 3.5 \\ 1.3 \\ 2.5 \end{array}$

Little Rock, San Francisco, and Seattle.
 Boston, New York, Pittsburgh, Atlanta, Cincinnati, Indianapolis, Chicago, Des Moines, and Topeka.

Source: Federal Home Loan Bank Board.

through" principal and interest payments to owners of the passthrough certificates. GNMA passthroughs carry a coupon rate 50 basis points below the rate on the mortgages in the pool; 44 basis points go to the originator as a servicing fee and 6 basis points go to GNMA as an insurance fee. In return for its six basis points, GNMA guarantees the timely payment of principal and interest to the owners of the passthroughs.

Passthroughs are designed to appeal to institutional investors, such as pension funds and life insurance companies, who do not want to become involved in the origination and servicing of mortgages but who value the attractive long-term yield and the high cash flow each month that characterize mortgages. Passthroughs also appeal to commercial banks and thrift institutions because the certificates are considered eligible mortgage investments by most regulatory bodies and qualify as mortgage investments in determining the tax treatment of thrifts.

Attracting nontraditional investors—e.g., pension funds and State and local governments—to the secondary mortgage market has increased communication between mortgage and bond markets. In this way, passthroughs may have contributed to increased volatility of mortgage rates, although other factors may also have been at work.⁷ Whatever the entire explanation, the increased volatility

^{6.} For more detailed discussion of mortgage pools and mortgage-backed securities, see: Charles M. Sivesind, "Mortgage-Backed Securities: The Revolution in Real Estate Finance," Federal Reserve Bank of New York Quarterly Review 4 (Autumn 1979): 1-10; David F. Seiders, "The GNMA-Guaranteed Passthrough Security: Market Development and Implications for the Growth and Stability of Home Mortgage Lending," Staff Economic Studies No. 108, (Washington, D.C.: Board of Governors of the Federal Reserve System, December 1979); Mary A. Fruscello, "The Mortgage Corporation and the Secondary Mortgage Market," Monograph Series No. 5, (Washington, D.C.: Federal Home Loan Mortgage Corporation, June 1977); Douglas E. Johnson, "The Implications of a GNMA Deposi-tory," Mortgage Banker 40 (September 1980): 48-51; James J. Connolly, "The GNMA Market: A Retrospec-tive," Mortgage Banker 40 (September 1980): 16-19; Richard G. Marcis, "Mortgage-Backed Securities: Financial Alternatives for Savings and Loan Associ-ations," Federal Home Loan Home Bank Board Journal 11 (November 1978): 5-11.

^{7.} One reason for doubting that increased communication is the sole explanation is that diversified investors—commercial banks, mutual savings banks, and life insurance companies—have been important participants in both markets for years. Other factors that may have contributed to the increased volatility include: an increased sensitivity to inflationary trends on the part of mortgage lenders, the rising importance of mortgage companies and their dependence on money and capital markets for loanable funds, and differential rates of deposit increase at commercial banks and thrift institutions.

itself is apparent (table 8). During the 1950's, mortgage rates typically peaked and troughed from 4 to 7 months after the peak or trough in Treasury bond yields (column 7) and the cyclical amplitudes of mortgage rates were much smaller than those of Treasury bond yields whether measured in basis points (columns 4, 9, and 11) or in percent (columns 5, 10, and 12). During the 1970's and into the 1980's, however, the lags were noticeably shorter and, measured in basis points, the cyclical amplitudes of mortgage rates were larger than those of Treasury bond yields.

Volatility aside, mortgage-backed securities are important primarily to the extent that they result in increased and more stable flows of

funds to mortgage originators and, thence, to mortgage borrowers. Not all of the proceeds from the sale of mortgage-backed securities constitute, however, a net addition to the supply of loanable funds in mortgage markets. Some of the funds presumably would have found a different channel the mortgage market-perhaps to through the direct purchase of mortgages, the purchase of debt of FSCA's or the origination of new mortgage loans. Nevertheless, it is generally agreed that passthroughs and like instruments have increased the supply of mortgage funds by offering an attractive yield along with various other characteristics (asset size, quality, marketability, and administrative simplicity) that have elicited at least some funds from investors who have traditionally shied away from mortgage investments.

The available data on the ownership of GNMA passthroughs are summarized in table 9. Unfortunately, almost one-half of the ownership is in the "nominees and others" category, which does not help much in identifying owners. GNMA, however, estimates that about one-third of this category represents holdings by pension and retirement funds. If this is correct, then holdings by these two types of institutions alone rose from 7.7 percent of total holdings in 1971 to about 25.2 percent, or \$30¹/₂ billion, by mid-1981.

In addition to increasing the flow of funds to mortgage originators, there

Table 7.—Securities Backed by Mortgage Pools

GNMA passthrough... FHLMC participation certificate. FHLMC guaranteed mortgage certificate. Type Privately insured passthrough. Tax-exempt mortgage revenue Private mortgage originators (more than 800 in 1981). FHLMC FHLMC Issued by ... Private mortgage originators State and local government agencies GNMA, with "full faith and credit" of U.S. Government. Not insured Insured by .. FHLMC FHLMC Private mortgage insurers. 1978. 1970. 1975. 1977... First issue ... 1971. \$101.6 billion \$12.6 billion ²\$37.0 billion. Amount outstanding July 1981 1\$21.6 billion 1\$2.9 billion FHA/VA.. FHA/VA and conventional. Type of mortgage in pool Conventional FHA/VA and conventional. Conventional. Monthly passthrough of princi-pal and interest, whether collected by mortgage ser-vicer or not. Semi-annual interest pay-ments; annual principal pay-ments. Same as GNMA passthrough Same as GNMA passthrough Same as other tax-exempt rev-enue bonds. Cash flow active secondary market; traded in futures market since 1975. Designed to appeal to investors who prefer bond-type instru-ments; none sold since De-cember 1979. Comments. Active traded

Total sales through July 1981; outstanding amount of participation certificates and guaranteed mortgage certificates combined was \$17.7 billion in July Total sau
 Estimate

NOTE .- GNMA: Government National Mortgage Association: FHLMC: Federal Home Loan Mortgage Corporation; FHA: Federal Housing Administration; VA: Veterans Administration

	Treasury bond yields ¹				М	lortgage	commitm	Mortgage commitment rates ²				
Turning point	Dete	Level	Change from previous turn		Ditt	T		Change from previous turn		Col. (9) Col.	Col. (10) Col.	
	Date		Basis points	Per- cent ³	Date	Lag	Level	Basis points	Per- cent ³	(4)	(5)	
Φ	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
Trough Peak Trough Poagh	12/49 6/53 7/54 10/57 4/58 1/60 5/61 6/70 10/71 8/74 12/76 3/80 6/80	2.19 3.13 2.47 3.73 3.12 4.37 3.73 6.99 5.46 7.33 6.38 6.38 11.87 9.40	$\begin{array}{c} & 94 \\ -66 \\ 126 \\ -61 \\ 125 \\ -64 \\ 326 \\ -153 \\ 187 \\ -95 \\ 549 \\ -247 \end{array}$	$\begin{array}{c} 35.3 \\ -23.6 \\ 40.6 \\ -17.8 \\ 33.4 \\ -15.8 \\ 60.8 \\ -24.6 \\ 29.2 \\ -13.9 \\ 60.2 \\ -23.2 \end{array}$	2/51 1/54 2/58 10/58 7/60 8/65 3/70 5/72 10/74 3/77 4/80 8/80	$ \begin{array}{c} 14 \\ 7 \\ 4 \\ 6 \\ 51 \\ -3 \\ 7 \\ 2 \\ 3 \\ 1 \\ 2 \end{array} $	4.31 4.87 4.68 5.69 5.38 6.10 5.47 7.33 9.64 8.68 8.64 16.16 12.19	$\begin{array}{c} 56\\ -19\\ 101\\ -31\\ 72\\ -63\\ 350\\ -164\\ 231\\ -96\\ 748\\ -397\end{array}$	$\begin{array}{c} 12.2 \\ -4.0 \\ 19.5 \\ -5.6 \\ 12.5 \\ -10.9 \\ 48.5 \\ -20.1 \\ 27.2 \\ -10.5 \\ 60.2 \\ -28.0 \end{array}$.35 .17 .48 .31 .37 .69 .80 .82 .93 .75 1.00 1.21	

Monthly average of daily yields on fully taxable U.S. Treasury bonds neither due nor callable for a specified number of years. Prior to April 1952 the "specified number" was 15; from April 1952 through March 1953, it was 12; and since April 1953 it has been 10.
 A spliced series. January 1949 through December 1963: conventional mortgage yields on one- to four-family properties authorized by life insurance companies; January 1964 through July 1972: the contract interest rate on conventional first mortgage loans originated by life insurance companies for the purchase of new single-family homes; January 1964 through July 1972 the verage contract interest rate on commitments by all lenders for newly built single-family homes (with a 75-percent loan-to-price ratio and a 25-year term of maturity). Data for August 1972 through December 1972 were interpolated.
 Calculated "symmetrically," i.e., the percent change from level X to level Y equals <u>Y-X</u>___x100.

 $\frac{1}{(X+Y)/2} \times 100.$

(X+1)/2 Sources: U.S. Department of the Treasury, Federal Home Loan Bank Board, and Jack M. Guttentag and Morris Beck, New Series on Home Mortgage Yields Since 1951, (New York: National Bureau of Economic Research, 1970).

			Type of holder (percent)									
			Depository institutions		tions			Mortgage				
End of year	amount outstand-	All holders		Thr	ifts	Credit	Pension and	companies	Individ-	Nominees		
	ing (billions of dollars)	noiders	Commer- cial banks	Savings and loan associ- ations	Mutual savings banks	unions	retirement funds	and invest- ment banks	uals	and others		
1971 1972 1973 1974 1975 1976 1977 1978 1979 1979 1980 1981	3.1 5.5 7.9 11.8 18.3 30.6 44.9 54.3 76.4 93.9 101.6	100 100 100 100 100 100 100 100 100	4.0 5.2 5.7 5.9 4.8 5.3 6.0 5.9 5.9 5.9 5.2	49.2 41.7 33.3 30.4 27.3 19.6 14.7 13.7 15.3 17.2 18.2	19.2 20.2 21.6 18.0 14.7 13.0 11.7 11.0 9.8 9.7 9.4	$\begin{array}{c} 6.7 \\ 6.1 \\ 5.1 \\ 4.0 \\ 3.2 \\ 2.6 \\ 2.6 \\ 2.4 \\ 2.1 \\ 2.0 \\ 1.8 \end{array}$	$5.1 \\ 5.0 \\ 7.1 \\ 7.7 \\ 7.9 \\ 10.0 \\ 11.4 \\ 11.5 \\ 9.8 \\ 9.2 \\ 9.0 \\ 9$	7.59.410.110.618.920.317.313.16.66.86.2	$1.0 \\ 1.3 \\ 1.9 \\ 1.6 \\ 1.2 \\ 1.1 \\ 1.2 \\ 1.4 \\ 1.6 \\ 1.8 $	7.7 10.4 15.3 21.7 22.0 28.1 35.0 41.1 48.9 48.0 48.4		

Table 9.-GNMA Passthrough Certificates Outstanding, by Type of Holder, 1971-81

1. July.

Source: Government National Morgage Association and Federal Reserve Board.

is another way in which passthroughs may have aided mortgage markets. Recall that most passthroughs are backed by FHA and VA mortgages. The FHA/VA sector of the mortgage market has generally been more stable than the conventional sector because the FHA/VA sector was not subject to State-imposed usury ceilings. By strengthening the relatively more stable sector, passthroughs may have increased the stability of the overall mortgage market.

Another way in which passthroughs may have contributed to more stable mortgage markets stems from the existence of an efficient secondary market for GNMA passthroughs. This secondary market permits originators to sell passthroughs out of portfolio during periods of slow deposit inflow. Several factors, however, suggest that this process may have been relatively unimportant. First, some funds used to purchase passthroughs would have found their way to mortgage markets anyway. Second, because periods of slow deposit inflow tend to be periods of high market interest rates, mortgage originators would have to record a capital loss if the passthroughs were sold from portfolio at those times; this they have been loath to do.⁸ Third, to

the extent that sales of passthroughs out of portfolio resulted in a net increase in loanable mortgage funds, mortgage interest rates would have tended to fall, inducing diversified investors to switch out of mortgages and into other assets.⁹

Mortgage revenue bonds.-Taxexempt mortgage revenue bonds (MRB's) are debt instruments issued by State housing finance agencies and by local governments to finance the origination of mortgages. A common approach is for a State or local government agency to lend the proceeds of the bond sale to financial institutions, who then relend them to homebuyers.¹⁰ Because the proceeds were originally raised in the tax-exempt market, the mortgages can be written at a lower rate than otherwise-perhaps 1 to 4 percentage points below the unsubsidized mortgage rate.

MRB's became an important source of housing finance in the late 1970's. Sales of these bonds amounted to \$14.3 billion in 1980, compared with only \$0.6 billion 5 years earlier. The Congressional Budget Office estimated that, in the absence of legislative restraints, MRB sales could have reached \$20-\$35 billion by 1984; Patric Hendershott estimated an eventual upper bound of \$440 billion, replacing one-half of regular home financing.¹¹

Concern about the Federal revenue loss caused by MRB's led to the enactment, late in 1980, of the Mortgage Bond Subsidy Act. The act limits the amount of single-family MRB's that may be issued in each State during 1981-83, and removes the tax exemption in later years. For each State, the limit is the larger of \$200 million or 9 percent of the average level of mortgage originations in the State during the preceding 3 years. In general, each State's limit is allocated equally to State and to local housing agencies.

Sales of MRB's virtually ceased with the enactment of this legislation because ambiguities in the act dissuaded potential issuers from going to market. MRB sales surged late in 1981, however, after Treasury Department regulations—issued in July and November to implement the new law—resolved many of the ambiguities.

In addition to limiting the volume of MRB sales, the act places restrictions on the price that may be paid for houses financed by MRB proceeds; in general, the price cannot exceed 90 percent of the average price of singlefamily houses in the city or county. Before this legislation was enacted, many MRB's specified income-eligibility limits for borrowers, but these had

^{8.} Edward J. Kane, Reregulation, Savings and Loan Diversification and the Flow of Housing Finance, Working Paper No. 640, (Cambridge, Mass: National Bureau of Economic Research, March 1981) p.13, points out that "[in] every year since 1966, S&L's unrealized mortgage losses were sufficient in the aggregate to wipe out their federal incometax liability." S&L's did not "book" the losses, however, and did make positive tax payments each year. Kane argues that S&L's did not "book" the losses because, if they had, the associations would have fallen short of the capital-adequacy requirements set by the Federal Saving and Loan Insurance Corporation (FSLIC) to determine eligibility for FSLIC insurance.

^{9.} See Seiders, "GNMA-Guaranteed Passthrough Security," on which this and the preceding paragraph have been based.

^{10.} MRB's are described and analyzed by John A. Tuccillo and John C. Weicher, Local Mortgage Revenue Bonds (Washington, D.C.: The Urban Institute, May 1979), and Peggy Brockschmidt, "Tax-Exempt Single-Family Bonds," Federal Reserve Bank of Kansas City Economic Review 65 (May 1980): 3-12.

^{11.} U.S. Congress, Congressional Budget Office, Tax-Exempt Bonds for Single-Family Housing (Washington, D.C.: U.S. Government Printing Office, April 1979) p. 40, and Patric H. Hendershott, Mortgage Revenue Bonds: Tax-Exemption with a Vengeance," Working Paper No. 447 (Cambridge, Mass: National Bureau of Economic Research, February 1980) p. 24.

Table 10.---Variable-Ceiling Certificates of Deposit

					Amount				
					The ceilin	[billion			
Туре	Maturity	Authorization effective	Reference rate	When the reference rate is:	For commercial banks	For savings and loans and mutual savings banks	Com- mercial banks	Sav- ings and loans	Mu- tual sav- ings banks
6-month money market (MMC)	26 weeks.	June 1, 1978.	Discount rate on 6- month U.S. Treasury bills.	8.75% and above 8.50% to 8.75% 7.50% to 8.50% 7.25% to 7.50% below 7.25%.	ref. rate + $\frac{1}{4}\%$ ref. rate + $\frac{1}{4}\%$ ref. rate + $\frac{1}{4}\%$ 7.75%.	ref. rate + ¼% 9.0% ref. rate + ½% ref. rate + ½% 7.75%.	216.3	182.3	53.7
2½-year small savers (SSC)	$2\frac{1}{2}$ to 4 years.	January 1, 1980.	Yield on 2½-year U.S. Treasury securities.	12.00% and above 9.50% to 12.00% below 9.50%.	11.75% ref. rate – ¼% 9.25%.	12.00% ref. rate 9.50%.	57.1	97.7	21.8
All savers (ASC)	1 year.	October 1, 1981.	Yield on 52-week U.S. Treasury bills.		70% of ref. rate.	70% of ref. rate.	18.6	19.8	5.1

Source: Federal Reserve Board, Federal Home Loan Bank Board, and National Association of Mutual Savings Banks.

generally been quite high. Of the 50 local jurisdictions that had sold MRB's by early 1979, 9 specified no income limits at all on the income of the borrowers. Of the remaining 41 jurisdictions, one-half specified income limits that were more than double the median income of the locality. In only seven jurisdictions were the income limits set so that families with more than 150 percent of median income would be ineligible.

Deregulation

In June 1978, the Federal regulatory agencies authorized depository institutions to issue small-denomination certificates of deposit carrying market-determined interest rates, and on March 31, 1980, the Depository Institutions Deregulation and Monetary Control Act of 1980 was signed into law. These actions were two of the most important steps in years toward freeing up the housing finance system.¹²

Variable-ceiling certificates.—The formulas used to determine the ceiling interest rate that can be paid on the three kinds of small-denomination certificates of deposit, as well as some of their other characteristics, are shown in table 10. The amount of these variable-ceiling certificates outstanding has risen rapidly. In January 1979, they accounted for 11 percent of all savings and small time deposits at depository institutions; by January 1982, they accounted for over

50 percent. Variable-ceiling certificates have enabled depository institutions to compete for funds despite high market interest rates that have characterized recent years. Previously, all savings and small time deposits had been subject to the fixed (usually low) rate ceilings of regulation Q. (Technically, regulation Q applies only to commercial banks. As in common practice, the term will be used to encompass the deposit rate ceilings to which thrifts have been subject since 1966.) When market rates rose above regulation Q ceilings, depositors tended to shift funds out of thrift institutions and into higher yielding market instruments. Slow or negative inflows of funds, in turn, led to reduced mortgage lending activity by thrifts.

Econometric models have been used to estimate the amount that deposits at thrift institutions would have fallen as a result of rising market rates if thrifts had not been authorized to offer variable-ceiling certificates. One such estimate concluded that about two-thirds of the \$110 billion invested in 6-month money market certificates (MMC's) at thrift institutions during 1978:III-1979:II were transferred out of other thrift accounts; and the remaining one-third (\$38 billion) represented new money money that would not have been deposited at thrifts if MMC's had not existed. Looked at from another angle, this finding implies that if MMC's had not existed, deposit flows to thrift institutions would have dried up in 1978:III-1979:II, averaging only \$3.9 billion per quarter (compared

with \$13.2 billion per quarter in 1977:III-1978:II). By preventing this decline, and thereby augmenting the supply of mortgage funds, MMC's may have induced about 300,000 housing starts during these four quarters.¹³

As just noted, a large fraction of the funds deposited in MMC's were transferred out of other accounts at thrifts. For at least three reasons, thrifts were not indifferent to this shift in the composition of their liabilities. First, and most obviously, MMC's are more costly than other small accounts. Thrifts' earnings, therefore, suffered. Second, because rates on MMC's are tied to a market rate, thrifts became more vulnerable to interest rate increases. In December 1977, 6 months before MMC's were authorized, only 71/2 percent of thrifts' liabilities were either tied to market rates or unregulated. By late 1981, 65 percent of thrifts' liabilities were in this category.

Third, the switch to MMC's caused a reduction in the average maturity of thrifts' liabilities. During most of the 1970's, the trend at S&L's had been toward lengthening the maturity of liabilities, thus bringing asset and

^{12.} Regulatory changes that permit thrifts to offer new types of mortgage instruments are covered in the following section.

^{13.} Dwight M. Jaffee and Kenneth T. Rosen, "Mortgage Credit Availability and Residential Construction," Brookings Papers on Economic Activity, No. 2 (1979):366. For alternative estimates, comparable in magnitude, see Allan Sinai, et al., "Mortgage Finance and the Housing Outlook," The Data Resources Review of the U.S. Economy 8 (February 1979):1.9-1.22. Patric H. Hendershott, however, argues that MMC's provided much less support to housing. See his "Real User Costs and the Demand for Single-Family Housing," Brookings Papers on Economic Activity, No. 2 (1980), especially pages 411 and 423 and Jaffee's reply (page 449).

Table 11.—Deposit Balances at Insured Savings and Loan Associations, by Type of Account, 197	081
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Type of account	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
						Billions of	f dollars					
Regular	0 0 53.3	90.0 1.1 0 70.7 (²) 161.8	98.7 1.8 0 91.8 (²) 192.3	$103.5 \\ 2.6 \\ 0 \\ 105.7 \\ 4.1 \\ 215.9$	$102.8 \\ 3.7 \\ 0 \\ 120.7 \\ 4.5 \\ 231.7$	116.8 5.3 0 142.4 5.7 270.2	$129.9 \\ 6.5 \\ 0 \\ 173.1 \\ 6.7 \\ 316.2$	142.5 8.5 0 210.6 7.7 369.3	142.1 13.6 19.3 0 229.8 7.0 411.7	126.3 23.1 101.9 0 197.0 4.9 453.3	116.936.6159.641.1129.43.7487.3	98.4 46.2 202.6 77.4 80.6 (²) 505.2
						Percent	of total					
Regular	.3 0 0 39.2	55.6 .7 0 43.7 (²) 100.0	51.3 .9 0 47.7 (²) 100.0	47.9 1.2 0 49.0 1.9 100.0	44.4 1.6 0 52.1 1.9 100.0	43.2 2.0 0 52.7 2.1 100.0	$\begin{array}{r} 41.1 \\ 2.1 \\ 0 \\ 54.7 \\ 2.1 \\ 100.0 \end{array}$	38.6 2.3 0 57.0 2.1 100.0	34.5 3.3 4.7 0 55.8 1.7 100.0	$27.9 \\ 5.1 \\ 22.5 \\ 0 \\ 43.5 \\ 1.1 \\ 100.0$	$24.0 \\ 7.5 \\ 32.7 \\ 8.4 \\ 26.6 \\ .8 \\ 100.0$	19.5 9.1 40.1 15.3 16.0 (²) 100.0

1. Certificates in the amount of \$100,000 or more 2. Included in "Other certificates."

NOTE.-Data are for September of each year; figures for 1970-72 are estimates.

Source: 1973-80: Federal Home Loan Bank Board.

liability maturities into better balance and reducing the exposure of S&L's to interest rate risk.¹⁴ Certificate accounts with maturities of 2 and 4 years were introduced in the early 1970's and an initial surge in these accounts took certificate accounts to about one-half of S&L deposits by late 1973 (table 11). The shift toward certificate accounts continued, albeit at a slower pace, during the middle of the decade; by late 1977, 57 percent of S&L deposits were in certificate accounts with relatively long maturities ("other certificates" in table 11). The introduction of the 6-month MMC in 1978 caused an immediate reversal of this trend; by September 1981, long certificates were down to 16 percent of total deposits.

At about the same time that the average maturity of liabilities at S&L's started to fall, the average "maturity" of their mortgage asset portfolios started to rise, worsening the maturity imbalance.¹⁵ By mid-1981—when the percentage of liabilities accounted for by long-term certificates was about one-half of its 1978 level—the maturity of mortgage assets was more than double its 1978 level. The Depository Institutions Act.— The changes mandated by the Depository Institutions Deregulation and Monetary Control Act of 1980 were designed to shape the development of thrifts (and commercial banks) for years to come. Five provisions of the act could have important consequences for mortgage lenders:

- -all depository institutions are authorized to offer interest-earning checking accounts (NOW accounts);
- -the investment powers of thrift institutions are to be expanded significantly;
- -State usury ceilings on residential first mortgage loans are eliminated;
- -all depository institutions that are subject to reserve requirements will have access to the Federal Reserve's discount window.

Other parts of the act increase the level of federally insured deposits from \$40,000 to \$100,000; require reserves to be held by all depository institutions offering transaction accounts or nonpersonal time deposits; permit the Federal Reserve Board to impose supplemental reserve requirements in "extraordinary circumstances"; require the Federal Reserve to establish a schedule of fees for its services; and simplify "Truth in Lending" disclosures.

The last two of the major provisions can be dealt with briefly. S&L's and mutual savings banks that experience exceptional difficulties may benefit from access to the discount window. although these institutions are required to avail themselves of normal borrowing channels before turning to the Federal Reserve for credit; for thrifts, this means that the Federal home loan banks will continue to supply the overwhelming portion of their emergency credit needs. The elimination of usury ceilings-which becomes permanent if States do not reimpose ceilings before April 1, 1983-should enable borrowers to obtain mortgage loans during periods of very high interest rates and may result in a more evenly distributed regional impact of high interest rates.¹⁶ (Although State ceilings were eliminated, Federal ceilings on FHA and VA mortgages persist; Congress has authorized a demonstration program, however, under which FHA mortgages may be written at market rates.)

The NOW accounts provisions of the act became effective January 1, 1981. If NOW accounts enable thrifts to attract funds away from commercial banks, mortgage markets could benefit in two ways. First, because thrifts devote a larger portion of their funds to mortgage lending than commercial banks do, the volume of mortgage lending would be expected to

^{14.} See Dwight M. Jaffee and Kenneth T. Rosen, "The Changing Liability Structure of Savings and Loan Associations," Journal of American Real Estate and Urban Economics Association 8 (Spring 1980):33-49, and Walt Woerheide, "The Reduction of Interest Rate Risk Susceptibility at S&L's: How It Can Be and Has Been Done," Federal Home Loan Bank Board Journal 13 (September 1980):16-19.

^{15.} The "maturity" of mortgage assets held by S&L's was calculated by dividing the amount of mortgage assets held at the beginning of a year by the amount of mortgage repayments during the year.

^{16.} To keep open the option of imposing lower ceilings in the future, some States have passed new usury laws with very high ceilings.

rise. Second, because funds in NOW accounts will probably be less interest-sensitive than savings and time deposits, mortgage lending may become more stable cyclically.

The gradual elimination of deposit rate ceilings, over a 6-year period, should smooth the inflow of deposits during periods of high market interest rates by eliminating the competitive disadvantage that depository institutions have faced vis-a-vis direct investments. (It will also, of course, do away with the competitive advantage that thrifts have had vis-a-vis commercial banks by virtue of the onequarter point thrift differential in regulation Q ceilings.) The cost of funds to thrifts is likely to rise substantially, although perhaps not as much as might at first be thought. When interest rates are high, thrifts supplement slow deposit flows (and slow mortgage repayments) with advances—although they are expensive—from the Federal home loan banks. Elimination of regulation Q should reduce the need for thrifts to resort to advances in these periods. Moreover, regulation Q has limited only explicit interest payments. Considerable evidence suggests that depository institutions have circumvented these limits (imperfectly, to be sure) by providing a variety of nonpecuniary returns to depositors. As just one example, the number of branch offices per insured S&L has risen from less than 1 in 1966, when thrifts were first subjected to regulation Q, to 4 in 1979, and increase of 14 percent per year.¹⁷ With the elimination of regulation Q, depository institutions will be able to avoid much of the expense of implicit interest payments such as these.

Expanded investment powers will permit thrifts to make more nonmortgage loans than they now do, and will permit a reduction in the maturity of thrifts' assets, bringing the maturity of the left side of the balance sheet closer to that of the right. The new asset powers include permission for federally chartered S&L's to do the following:

- -invest up to 20 percent of their assets in consumer loans, commercial paper, and corporate debt securities;
- -invest in shares or certificates of open-end investment companies (mutual funds) that are registered with the Securities and Exchange Commission and that restrict their portfolios to the same investment instruments that S&L's are allowed to hold directly;
- -invest up to 5 percent of their assets in loans for education and community development and in unsecured construction loans;
- —issue credit cards and extend credit in connection with credit cards;
- -provide trust and fiduciary powers under restrictions similar to those applicable to national banks.

For federally chartered mutual savings banks, new powers include permission to do the following:

- -invest up to 5 percent of total assets in commercial, corporate, and business loans within the home State of the bank or within 75 miles of the bank's home office;
- -accept demand deposits in connection with commercial, corporate, and business loan relationships.

In conjunction with NOW accounts, these new asset powers open up the possibility of S&L's becoming "family financial centers" that offer much the same range of services and convenience to households that "one-stop" commercial banking has offered for years. S&L's will be able to meet a family's needs for consumer and education loans, credit cards, trust services, and checking and savings accounts. All of these new asset powers also provide thrifts with a means to reduce the maturity of their asset portfolios, as does the authorization to invest in commercial paper, corporate debt securities, and mutual funds. Finally, diversification of its portfolio

will enable an S&L to earn a given level of return at lower risk or, conversely, to earn a higher level of income at a given risk.

The extent to which thrifts will avail themselves of their new powers remains to be seen, however. To take full advantage of the "bad debt allowance" afforded thrifts by Section 593 of the Internal Revenue Code-an allowance that reduces the maximum marginal tax rate for thrifts from 46 percent to 27.6 percent-at least 82 percent of an S&L's total assets (72 percent for a mutual savings bank) must be held as "qualifying assets." Basically, these assets are mortgages, Treasury debt, and cash. For most thrifts, the qualifying component of assets far exceeds the statutory minimum, and tax considerations will not be a constraint on whether or not to exercise their new asset powers. Nevertheless, some thrifts are close to, or at, the minimum. For these thrifts, which are presumably among the more innovative and aggressive in their industry, Section 593 constitutes a powerful disincentive to further diversification. For example, for an S&L to reduce its qualifying assets below the minimum without reducing its after-tax income, the net pretax yield on nonqualifying assets would have to be more than 50 percent higher than on qualifying assets.¹⁸

Perhaps of greater relevance, Statechartered thrifts that have had some of these investment alternatives open to them have made very little use of them. Virtually all of the 17 States in which mutual savings banks operate, for instance, allow at least some types of consumer lending. Yet consumer loans made up only 1.5 percent of total assets of mutual savings banks at yearend 1979 (and only 2.3 percent of total assets in New England, where savings banks have traditionally been granted rather broad consumer lending powers.)

Several factors contribute to the apparent lack of enthusiasm for consumer lending on the part of thrifts.¹⁹ First, commercial banks

^{17.} The number of branch offices would have increased from 1966 to 1980 even if thrifts had not been subject to regulation Q. A number of studies, however, have identified regulation Q as the major factor in increased branching. See, for example, Kristine L. Chase, "Interest Rate Deregulation, Branching, and Competition in the Savings and Loan Industry," Federal Home Loan Bank Board Journal 14 (November 1981:2-6.

^{18.} U.S. Congress, House of Representatives, Committee on Banking, Finance, and Urban Affairs, *The Report of the Interagency Task Force on Thrift Institutions*, Committee Print 96-14, 96th Congress, 2nd session, 1980, p. 111.

^{19.} See Report of the Interagency Task Force, pages 58-59.

have a competitive advantage by virtue of their long experience in the field. Second, consumer lending is quite expensive, with net returns lower than is commonly thought. The net vield (after operating expenses and losses) on installment credit loans held by medium-sized commercial banks averaged only 0.17 percentage points more than the net yield on mortgages during 1974-78. Moreover, rates on consumer loans respond only very sluggishly to changes in the general level of interest rates; thus, although these loans are short-term assets, they do not possess the principal attraction of other short-term instruments.²⁰ On the other hand, the low levels of consumer lending by mutual savings banks may reflect consumer preference. Consumers may prefer to borrow from the institutions that handle their other financial affairs: restrictions on thrifts that prevented them from offering "full service banking" may have encouraged consumers to look to other institutions to satisfy their credit needs.

Maris estimates that consumer loans at S&L's will rise from about 1 percent of assets in 1979 to about 9¹/₂ percent by the end of 1985.²¹ As he points out, increased consumer lending need not be entirely at the expense of mortgage lending. Consumer lending may attract additional deposits and thus generate larger total assets. Thus, although he expects mortgage loans to form a smaller percentage of total assets, the dollar value of mortgages need not fall.

Thrifts dissuaded from entering the consumer loan market directly either because of lack of demand or because of the start-up costs involved—may decide to participate in the market indirectly. Such participation might be arranged by purchasing consumer receivables from institutions that originate and service consumer loans and by purchasing liabilities (commercial paper and debt issues) from these institutions. Indirect participation would allow thrifts to diversify their portfolios with liquid assets, while avoiding the high cost that would be involved in developing their own origination and servicing departments. Furthermore, liabilities of consumer-loan originators would probably be safer, from the point of view of default risk, than direct consumer loans.

In the long run, the authorization to hold up to one-fifth of their total assets as corporate debt securities and commercial paper may be of more significance for federally chartered S&L's than their new consumer lending powers. It is reasonable to expect the behavior of S&L's to be similar to that shown by commercial banks and mutual savings banks for many years. When selecting assets for their portfolios, S&L's will pay close attention to the yields on mortgages, bonds, and commercial paper. Also, mutual funds may enable even small S&L's to use their new investment powers without having to establish their own bond and commercial paper departments.

It is unclear how quickly S&L's will take advantage of their expanded authority to invest in commercial paper. The entrance of S&L's into the bond markets, however, will probably be slow unless bond yields rise dramatically relative to mortgage yields. As shown by the behavior of diversified investors, the yield spread between mortgages and bonds strongly favored mortgage investment during 1976-80. Mutual savings banks' holdings of home mortgage rose 31 percent during this period, somewhat faster than their holdings of corporate bonds (21 percent). Commercial banks' holdings of home mortgages doubled while their holdings of corporate bonds declined.22

The ultimate effect of the provisions of the Depository Institutions Act cannot be predicted with any confidence. While some of the reforms (removal of interest rate ceilings and authorization of NOW accounts, for example) will probably tend to increase the volume and stability of funds flowing to mortgage lenders, others (such as expanded asset powers) may cut into funds that thrifts would otherwise use for mortgage originations.²³

Two consequences of the act do seem clear, however. First, competition among financial institutions will become much more intense. Thrifts will compete for loans with commercial banks, mortgage bankers, and finance companies and will compete for deposits with commercial banks and money market mutual funds. New types of institutions—institutions that cross traditional industry lines-will be developed, further intensifying competition. Congress is now considering legislation that would enable thrifts to compete even more effectively by granting them many of the powers now enjoyed by commercial banks. Even if such legislation is enacted. however. some-perhaps many-thrifts will find themselves unable to compete effectively in the changed environment and will close their doors or merge with stronger firms.

Second, the thirfts that do survive will not change into full-service commercial banks overnight or move en masse out of the mortgage markets or suddenly metamorphose into mortgage bankers. Local conditions-mortgage and consumer loan demand, competition from other financial institutions, deposit flows, managerial daring, etc.-will, in large part, determine which path a particular institution takes. Whichever path is chosen, however, the institution will find itself in need of new or retrained staff able to operate in unfamiliar markets. It will also be forced to compete against institutions that have more experience and expertise in those markets. These factors, along with simple inertia—which is an especially

should prove relatively mild."

^{20.} The net yields on consumer loans and mortgages outstanding at commercial banks "have moved up and down in almost complete tandem in recent years." (Brian Maris, "Consumer Lending by S&L's: The Prospects," *Federal Home Loan Bank Board Journal* 13 (May 1980): 21.)

^{21.} Maris, "Consumer Lending" p. 25.

^{22.} A formal analysis of S&L's authorization to invest in corporate bonds—concluding that associations are unlikely to make much immediate use of the authority—is provided by Patric H. Hendershott and Kevin E. Villani, Savings and Loan Usage of the Authority to Invest in Corporate Debt, Working Paper No. 725 (Cambridge, Mass.: National Bureau of Economic Research, July 1981).

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^{23.} Analyses of proposals similar to the provisions of the Depository Institutions Act generally found that the net effect on mortgage lending would be minor. See, for example, Ray C. Fair and Dwight M. Jaffee, "The Implications of the Proposals of the Hunt Commission for the Mortgage and Housing Markets: An Empirical Study," and Paul S. Anderson and Robert W. Eisenmenger, "An Empirical Study of the Hunt Commission Report Proposals for the Mortgage and Housing Markets," both in *Policies for a More Competitive Financial System*, Conference Series No. 8 (Boston: Federal Reserve Bank of Boston, June 1972). Addressing the Depository Institutions Act itself, Kane ("Reregulation," pp. 1-2) concludes that the act's effects "on S&L participation in mortgage markets

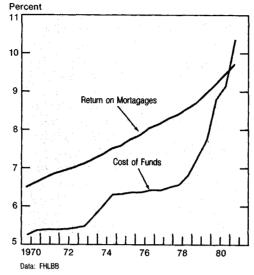
powerful force for thrift institutions that have cultivated a particular sense of their role in the local community—combine to guarantee that the pace of change will be moderate.

Recent legislative and regulatory developments.—During the first half of 1981, the average cost of funds to S&L's rose above the average return on their mortgage assets (chart 2). As a result, more than two-thirds of insured S&L's incurred losses, totaling \$1.5 billion. This was the first loss for a 6-month period in at least 40 years. By mid-1981, 10 percent of insured S&L's were on the Federal Home Loan Bank Board's "problem list", as compared with only 3 percent at the end of 1980. (In general, S&L's on the problem list face a significant probability of requiring Federal intervention to stave off insolvency.) Several legislative and regulatory actions taken in mid-1981 were addressed to the plight of the thrifts.

The Economic Recovery Tax Act of 1981 authorized depository institutions to offer a small denomination tax-exempt certificate of deposit-the All Savers Certificate-beginning October 1981. Yields on the 1-year certificates are to be set at 70 percent of the yield on 1-year Treasury bills, and 75 percent of the funds raised with the certificates-or 75 percent of net savings gains-is to be earmarked for housing loans. The certificates will probably prove popular with individuals in the higher tax brackets and should have a noticeable effect on the cost of funds at thrift institutions. Furthermore, some individuals who, because they are in lower tax brackets, would not benefit from the taxexempt status of All Savers Certificates may find the certificates attractive nonetheless. The low minimum denomination in which the certificates are being offered by most institutions, combined with a federally insured yield more than double the passbook rate may induce these individuals to shift funds from passbook accounts into All Savers Certificates. Although thrifts' earnings may benefit from the All Savers Certificate, it is less likely that they will channel much of the proceeds from sales of the certificates into housing. Thrifts are more likely to channel the proceeds into short-term instruments. The 1-year securities that FNMA has decided to offer, which will be count-

CHART 2

Average Return on Mortgages and Average Cost of Funds, Insured Saving and Loan Associations, 1970-81



U.S. Department of Commerce, Bureau of Economic Analysis 82-2-2

ed as mortgage securities for purposes of assessing compliance with the provisions of the act, are prime possibilities.

The act also liberalized the regulations governing Individual Retirement Accounts (IRA's) by increasing the number of people eligible to use IRA's and by raising annual contribution limits. Thrifts, which held more than one-half of all outstanding IRA's at yearend 1979, will be major beneficiaries of the change if, as is to be ex-

Table 12.—Mortgage Loans Held by Savings and Loan Associations: Percent Distribution by Rate, as of September 1980

D .		cent bution
Rate	Class	Cumu- lative
Under 5.50 percent	0.44	0.44
5.50 to 5.99		1.25
6.00 to 6.49		3.00
6.50 to 6.99		4.62
7.00 to 7.49		8.60
7.50 to 7.99		14.13
8.00 to 8.49		19.57
8.50 to 8.99	17.44	37.03
9.00 to 9.49	15.47	52.48
9.50 to 9.99	14.19	66.67
10.00 to 10.49	7.80	74.4
10.50 to 10.99		80.96
11.00 to 11.49	4.52	85.48
11.50 to 11.99		90.27
12.00 to 12.49		93.2
12.50 and over		99.9

Source: U.S. League of Savings Associations.

pected, the liberalization leads to larger and more stable funds flows.²⁴

Two steps taken in August 1981 address the problem that old, low-yielding mortgages constitute for thrifts. This problem is illustrated by the situation in September 1980. About 75 percent of the mortgages in S&L portfolios carried yields of less than 10.5 percent, although S&L's were paying about 10.8 percent on new MMC's (table 12).

First, the Federal Home Loan Bank Board proposed a regulatory change that would permit thrift institutions that sell low-yield mortgages to spread the resulting loss over several years, contrary to conventional accounting practice, which requires that the entire loss be recorded at the time it is incurred. FNMA announced that it would offer to buy unlimited quantities of old mortgages at market prices if the accounting change becomes effective.

Also in August, FNMA announced that it would swap passthrough certificates for old mortgages. A regulatory interpretation by the Bank Board holds that many S&L's will be able to make such swaps without recording the losses on their books even though the face value of the certificates would be considerably less than the outstanding balance on the mortgages.

Alternative mortgage instruments

High and volatile interest rates and sharply higher house prices have spurred participants in the mortgage market to turn to various techniques of "creative financing." This section first discusses several ad hoc devices that operate within the context of the standard fixed-payment mortgage (SFPM). It then describes the features of the SFPM that are responsible for much of the interest in developing alternatives to the SFPM, and finally it discusses four of these alternatives that have been and are being developed. These alternatives are summarized in table 13.

^{24.} See John A. Tuccillo, "Mortgages, Savings, and Expanded IRA's," Federal Home Loan Bank Board Journal 14 (May 1981): 14-19.

One of the ad hoc devices that is used in financing purchases of newly built houses is the "buy down" mortgage. With a buy-down mortgage, a borrower typically makes payments during the first few years as if the interest rate were one to three percentage points lower than it actually is. The difference between scheduled payments and payments by the borrower is made up by the builder. When the buy-down period ends, the borrower is responsible for all scheduled payments. Borrowers, of course, hope that their incomes rise sufficiently during the buy-down period to enable them to shoulder the increased payments, or that interest rates will fall and they will be able to refinance their loans at the end of the buy-down period. An April 1981 survey of builders by the National Association of Home Builders found that about onehalf of the survey respondents "buy down" mortgage interest rates for their purchasers.

For previously occupied houses, some form of "creative financing" is currently involved in about 75 percent of the sales. The most common form involves the assumption of the seller's outstanding, low-rate mortgage by the purchaser. Sellers are fre-

quently willing to hold second trusts in order to enable the buyer to complete the purchase. Another device buyers can sometimes use to get below-market-rate financing is the "wraparound" mortgage, in which the old low-rate mortgage is assumed as part of a new, larger mortgage that carries an interest rate roughly equal to the weighted average of the rate on the old mortgage and the market rate on new loans.

When mortgage rates have been rising, of course, mortgage assumptions are not in the best interest of holders of mortgages. Holders, eager to get old loans off their books and to replace them with new loans, have tried to enforce the "due on sale" clauses that are included in most outstanding. conventional mortgages. (FHA and VA mortgages do not contain such clauses.) Efforts to enforce these clauses have frequently wound up in court. About one-third of the States currently restrict the enforcement of the clauses.

The development of alternatives to the SFPM represents a more basic and longer term response to the high and volatile interest rates that have prevailed in recent years. Two features of the SFPM are responsible for

much of the interest in developing alternative mortgage instruments.²⁵ First, the SFPM exposes lenders to considerable risk when interest rates are volatile. Second, in an inflationary environment, an SFPM results in high real mortgage payments during the early years of the mortgage; this presumably decreases the demand for mortgages.

The major interest rate risk facing mortgage lenders arises because of the imbalance in the maturity structures of assets and liabilities at thrift institutions.²⁶ Long-term mortgages

25. See Donald R. Lessard and Franco Modigliani, "Inflation and the Housing Market," in Modigliani and Lessard, eds., New Mortgage Designs for Stable Housing in an Inflationary Environment, Conference Series No. 14 (Boston: Federal Reserve Bank of Boston, January 1975), pp. 14-26.

26. Other types of interest rate risk-ones that confront mortgage companies as well as thrift institutions-are generated by the lag between the time a commitment is made and the time the mortgage is "closed" and by the lag between the time a loan is closed and the time it is sold to the ultimate investor. In the former case, if interest rates rise during the period, the lender will incur a capital loss when the mortgage is sold. (If interest rates fall, on the other hand, the borrower probably will not take down the commitment.) Many lenders have addressed this asymmetry by shortening the commitment period, by charging higher, nonrefundable, commitment fees, and by using floating rates tied to some market indicator. Little use has been made of the financial futures market to hedge this risk, although this alternative has been open to mortgage companies and federally chartered thrift institutions for years.

Table	13	-Summarv	of	Alternative	Mortgage	Instruments
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		Sta	tus	_	Advantages c SF	ompared with PM	Disadvantages SF	compared with PM
Instrument	Distinguishing feature	Federally chartered thrifts	National banks	Prevalence	Borrowers	Lenders	Borrowers	Lenders
Variable rate mortgage (VRM)	Mortgage rate is linked to a reference rate and may change during life of loan.	Authorized nationwide in 1979; restrictions relaxed in 1981.	Authorized nationwide in 1981.	Variants popular in California, Ohio, and Wisconsin.	Slightly lower interest rate; increased availability of funds.	Interest rate risk is reduced.	Increased interest rate risk.	Lack of standardiza- tion makes it difficult for investors to evaluate loans.
Graduated payment mortgage (GPM)	Payments increase gradually in early years of loan and then level out.	Authorized nationwide in 1979.	Subject to State laws.	California, Florida, Texas, Colorado, and Arizona account for more than one-half of all FHA- insured GPM's.	Reduced payments in early years.		Payments may rise faster than income.	Negative amortization in early years.
Shared appreciation mortgage (SAM)	Lender shares in appreciation of the property.	Regulations proposed in 1980; not yet authorized.	Subject to State laws.	Incipient; long used in non- residential mortgages.	Substantially lower interest rate.	Interest rate risk is reduced.	Reduction of capital gains on appreciation; need to pay large amount at end of loan period.	Uncertain return on investment; reduced cash flow in early years.
Price level adjusted mortgage (PLAM)	Payments are constant in real terms.	Discussion stage.	Discussion stage.		Eliminates tilt in real payments stream.	Interest rate risk is reduced; certainty about the real value of payments.	Inflation- induced increase in equity is eliminated.	Reduced cash flow in early years.

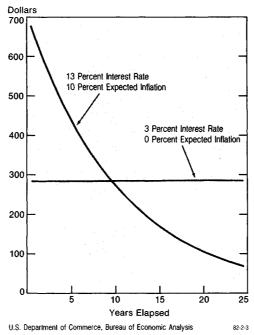
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constitute a large portion of the assets of these institutions, while short-term deposits are the dominant liability. When interest rates rise, thrift institutions frequently must raise the rate they pay to their depositors; at the same time, the interest that the institutions earn on their portfolios of the outstanding mortgages remains constant, or rises much slower than deposit rates as old mortgages are paid off and new mortgages are added to the portfolio. Moreover, the risk that rising rates constitute for mortgage lenders is not offset by a comparable opportunity to profit from interest rate declines, because borrowers can frequently refinance their mortgages at relatively little cost when rates drop. Variable rate mortgage (VRM's) are designed to reduce the interest rate risk that fluctuating rates pose

for lenders. Price level adjusted mortgages (PLAM's)-and, to a lesser extent, graduated payment mortgages (GPM's)-address a different shortcoming of the SFPM, namely the "tilt" in a mortgage's real payment stream that is induced by inflation. If the mortgage interest rate would be, say, 3 percent when the price level is expected to remain constant, it would be about 13 percent when inflation is expected to average 10 percent per year. In each case, the "real" discounted present values of the two payment streams would be identical and—if a house buyer's income kept up with the general price level-the aggregate amount of "real" payments would constitute the same percentage of aggregate income over the life of the mortgage. The time-pattern of real payments would be substantially different, however. Consider a \$60,000 mortgage with a 25-year term to maturity. At a 3-percent contract interest rate (corresponding to zero expectinflation), monthly payments ed would be \$287. At a 13-percent interest rate (10 percent expected inflation), monthly payments would be \$677. During the first year of the contract, when nominal payments and real payments are identical, real payments in the inflationary world are \$390 higher each month than in the noninflationary world. Inflation would gradually erode the real value of the \$677 payment, while the real value of the \$287 payment would

Real Value of Monthly Payments on \$60,000, 25-Year Mortgage

CHART 3



remain unchanged. These contrasting patterns are illustrated in chart 3.

If the demand for mortgages (and houses) depends in part on the timepattern of real outlays, then inflationinduced higher real payments in the early years of the mortgage clearly depress demand.²⁷ The inflation-induced tilt in the real payments stream can be especially serious for young house buyers. Members of this group typically want a house that will serve a growing family. Also, they may reasonably expect real income to rise as they move up the life-cycle curve. Such house buyers may, therefore, prefer a mortgage loan with a rising real payment stream rather than the SFPM's declining stream.

Variable rate mortgage.—The distinguishing characteristic of VRM's is

that the interest rate may be adjusted during the life of the contract in order to keep the rate in line with some reference rate-such as an index of the cost of funds to lenders or the average rate on new mortgages. VRM's are taken here in their generic sense to include renegotiable rate mortgages (RRM's), adjustable mortgage loans (AML's), and escalator mortgages. Variants on the general VRM principle are many and relate to the number, frequency, size, and cumulative amount of interest rate adjustments; borrower options to extend the maturity of the loan when the rate is increased (to keep monthly payments unchanged); and assumability of the loan.

VRM's clearly offer considerable protection to the lender by shifting part or all of the risk associated with long-term interest rate trends to the borrower. (Default risk, on the other hand, is probably somewhat higher for a VRM than for an SFPM.) They may also smooth the demand for mortgage funds by reducing the interest rate elasticity of demand. Borrowers will have less incentive to postpone their borrowing when rates are high, or to accelerate borrowing when rates are low, because subsequent adjustments will affect outstanding mortgages as well as new ones. The reduction in risk to lenders may increase the supply of mortgage funds by traditional lenders and may induce traditionally short-term lenders to enter the mortgage market. Another benefit to borrowers is that the initial interest rate on a VRM is usually a little lower than on an SFPM.

These benefits to borrowers must be weighed against the increased interest rate risk to which the VRM's expose them. For three reasons, borrowers are less well equipped to deal with this risk than lenders. First, rather small asset portfolios make it difficult for most borrowers to diversify away risk the way many lending institutions—with their large portfolios—do.²⁸ Second, most borrowers do not have the expertise that lending institutions have to gather and ana-

^{27.} Although inflation tilts an SFPM's real payments stream, depressing housing demand, one should not conclude that the overall effect of inflation is to depress demand. A number of considerations suggest that the net effect of inflation is to increase demand. First, tax-deductibility of mortgage interest payments mitigates the tilt itself. Furthermore, with an SFPM the real value of equity in a house can be expected to rise more rapidly in an inflationary environment than in an environment of stable prices. Finally, the tax treatment of capital gains from house sales constitutes an incentive for sellers to plow capital gains back into the purchase of another house, rather than to use the gains to acquire other assets.

^{28.} With their new investment powers, S&L's can diversify more efficiently than in the past. Previously, S&L diversification was mainly limited to diversification within the class of mortgages.

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lyze information on recent and prospective financial developments and what they portend for interest rates. Third, lending institutions can hedge against interest rate risk in the financial futures market; the very large size of minimum transactions in this market preclude all but the very wealthiest mortgage borrowers from availing themselves of it.

VRM's might also work to the disadvantage of borrowers if the mortgages tend to be tied to short-term interest rates. In this case, rates would fluctuate over a wider range than rates on SFPM's. The "tilt" problem would thus be more serious when rates are high.

Borrowers, of course, benefit from ceilings on the size, frequency, and cumulative amount of rate adjustments. It should be noted, however, that it may not be the ceiling on the size of rate adjustments, but the current mortgage commitment rate, that effectively limits rate adjustments. If an adjustment would bring the VRM rate up close to or above the rate on new SFPM's, borrowers might pay off their loans and refinance with SFPM's. Realizing this possibility, lenders may forego the interest rate adjustment when the new rate would be close to the prevailing rate on new SFPM's.29

The refinancing option was undoubtedly an important consideration in the Federal Home Loan Bank Board's decision (in April 1981) to authorize federally chartered thrift institutions to offer VRM's unconstrained with regard to number, size, frequency, or cumulative amount of interest rate adjustments and to use almost any index—so long as it is outside the control of the lending institution and is readily verifiable by the borrower—as a reference rate. Previously, the Board had placed restrictions on all these elements.

Competition among lenders may result in some limits being placed on rate adjustments—at least initially, until borrowers become accustomed to VRM's—as will, perhaps, lenders' concern about default. On the other hand, such limits would make VRM's less attractive to secondary market purchasers.

VRM's may have special appeal to borrowers with a short expected tenure. Because VRM's typically carry an interest rate marginally lower then SFPM's, and because the borrower expects to move before the VRM rate will be raised (or before it will be raised very much), the borrower is indifferent to the interest rate risk of VRM's that would be of concern to borrowers with long expected tenure.

VRM's have not been attractive to secondary market purchasers. The great variety of terms and conditions that have characterized VRM's have made it difficult for purchasers to evaluate the investment potential of a particular VRM. The same factor militates against the pooling of VRM's. If this heterogeneity were overcome, VRM's could presumably be offered successfully in secondary markets. Policies adopted in mid-1981 by FNMA and FHLMC to govern their purchases of VRM's may go far toward establishing standard types of VRM's and enhancing their secondary market appeal. In fact, a few public offerings of VRM-passthrough securities were made successfully even before those policies were adopted.

VRM's have gained considerable popularity in some areas, and many observers think that they will be the dominant mortgage instrument before long. State-chartered thrift institutions in California and New England began sizable amounts of VRM lending in 1975. (Federally chartered institutions were not authorized to extend VRM's at that time.) VRM's accounted for more than two-thirds of all new mortgage loans written by large State-chartered S&L's in California during 1975 and 1976. This proportion has fallen rather steadily since that time, going as low as one-fifth in 1980. Several factors explain the decline. First, high and rising mortgage rates since since 1976 led some lenders to expect a reversal. In an attempt to "lock-in" prevailing rates, these lenders preferred to offer SFPM's with prepayment penalties. substantial Second, in January 1979, federally chartered S&L's in California were authorized to extend VRM's; this deprived the State-chartered institutions of the competitive advantage they had previously enjoyed. (VRM authority was extended to the rest of the Nation's federally chartered thrifts 6 months later.) By mid-1981, two-fifths of all thrift institutions were offering VRM's and it was expected that the share would rise to two-thirds by the beginning of 1982.

Graduated payment mortgages.-GPM's tailor the pattern of mortgage payments to the borrower's expected income pattern by providing for mortgage payments that rise gradually for a period of years; during each year, monthly payments are fixed, but, from one year to the next, payments increase. After the period of graduation ends, payments are level until the mortgage is paid off. (For two mortgages of equal size, maturity, and interest rate, GPM payments must level off above SFPM payments so that the discounted present values of the two payments streams will be identical.)

GPM's can be explained in terms of the U.S. Department of Housing and Urban Development's Experimental Finance Program, the vehicle used to introduce the FHA-insured GPM.³⁰ Borrowers wishing a GPM under this program choose one of five plans. Table 14 lists these plans and also shows that Plan III—which provides for the lowest first-year payments and the fastest rate of increase—is by far the most popular.

For an SFPM, payments during the early years of the mortgage go overwhelmingly to the payment of interest. With the low initial payments of a GPM, none of the early payments goes to principal repayment; in fact, payments are insufficient even to cover interest due. The shortfall between interest due and interest paid—negative amortization—is added to principal outstanding.

Negative amortization was responsible for three obstacles to the development and acceptance of GPM's. First, at the time the GPM program was initiated, more than 30 States had usury laws that prohibited the collec-

^{29.} See William C. Melton and Diane L. Heidt, "Variable Rate Mortgages," *Federal Reserve Bank of New York Quarterly Review* 4 (Summer 1979): 24.

^{30.} The Housing and Community Development Act of 1974 authorized the Federal Housing Administration to insure GPM's. Subsequent legislation liberalized several features of FHA-insured GPM's and stimulated their use. The Housing and Community Development Act of 1977 made the program permanent.

Table 14.—FHA-Graduated Payment Mortgage Plans

Plan	Rate at which pay- ments in- crease each year (per- cent)	Period over which pay- ments in- crease (years)	Reduc- tion in first year pay- ments ¹ (per- cent)	Percent of sample total ²
I II II IV V	$2\frac{1}{2}$ 5 $7\frac{1}{2}$ 3	5 5 5 10 10	9 17 25 12 17	5.8 7.9 86.2 .1 (³)

 Compared with a standard fixed-payment mortgage of the same amount, interest rate, and maturity.
 Based on a sample of 56,496 loans insured during 1980 by the Federal Housing Administration under section 245 of the National Housing Act. 3. Less than .05 percent.

Source: U.S. Department of Housing and Urban Development.

tion of interest on interest. This obstacle was dealt with in the Housing and Community Development Act of 1977, which provided for a limited preemption of these State laws for FHA's GPM's.

Second, the original legislation provided that at no time could the principal of a GPM exceed the maximum insurable loan amount that could have been authorized for an SFPM at the time of origination. To prevent negative amortization from driving principal above this amount. GPM borrowers had to make substantially larger downpayments than did SFPM borrowers. The 1977 act lowered this obstacle by replacing the 1974 provision with one that permitted principal to rise to 97 percent of the original appraised value of the house being purchased. The Housing and Community Development Amendments of 1979 further relaxed this constraint by applying the 97-percent figure to the projected value of the house, which, for this purpose, is assumed to rise $2\frac{1}{2}$ percent per year.

Third, negative amortization creates tax problems for lenders who use the accrual method of accounting. FHA-insured GPM's are fixed-rate loans. A lender's accrued income is, thus, the interest income that would be generated by a comparable SFPM. Because the lender's cash income is less than this, the lender is liable for taxes on income that has not been received.31

Despite these problems, FHA's GPM program has grown rapidly; in 1980. FHA insured \$4.8 billion of GPM's, compared with \$9.5 billion of SFPM's (under Section 203(b)). Almost one-fourth of these GPM's were in California, a fact that complicates the comparison of national data on GPM's and SFPM's. (California is the only State where FHA-insured GPM activity exceeded FHA-insured SFPM activity in 1980.) It is clear, however, that GPM borrowers are generally younger than SFPM borrowers and have smaller incomes, but they take out larger mortgages and buy more expensive homes than SFPM borrowers (table 15). Moreover, a GPM borrower is more likely to purchase a newly built house than is an SFPM borrower; nationwide, 29 percent of GPM loans were made for the purchase of new houses, compared with only 12 percent of SFPM loans. (For California, the comparable figures are 26 percent and 21 percent, respectively.)

FHA's GPM program has stimulated the development of conventional GPM lending. Although no reliable data are available on the amount of conventional GPM lending, many observers seem to think that it is substantial and that a variation on the FHA theme has created the potential for even more rapid growth. The variation concerns the tax problems that negative amortization creates for lenders. Originators of conventional GPM's can finesse this problem rather simply by requiring that the borrowers place part of the loan proceeds in a pledged, interest-earning account at the lending institution. During the early years of the mortgage, funds are withdrawn from this account and used to prevent negative amortization. Lenders, therefore, receive a constant stream of payments and no wedge is driven between accrued and cash incomes. In addition, the device of the pledged account sidesteps State laws that prohibit the collection of interest on interest. (The Housing and Community Development Act of 1977 had preempted State laws in this regard only for FHA-insured loans.)

GPM's face no special problems on secondary markets and have been purchased by FNMA since shortly after they were introduced. Furthermore, the default rate on GPM's does not appear to differ much from the default rate on SFPM's, despite the

Table	15.—S	elected	C	haracteristi	cs of	FHA-
Grae	duated	Paymer	۱t	Mortgages	and	Stand-
ard	Fixed-H	Payment	Μ	lortgages, 19	980	

Item	Graduated payment mortgage (GPM)	Standard fixed-payment mortgage (SFPM)
Total value of mortgage United States California	\$1.45 billion .31 billion	\$1.55 billion .25 billion
Average mortgage size United States California	\$52,302 56,872	\$50,567 54,647
Median acquisition cost United States California	\$59,238 65,500	\$55,510 62,976
Median loan-to-value ratio United States California	87.6 percent 87.3 percent	92.6 percent 91.6 percent
Average monthly mortgage payment ¹ United States California	\$518.07 539.07	\$570.65 635.57
Median borrower annual income United States California	\$26,150 27,379	\$28,064 31,033
Average age of borrowers ² United States California	29.8 years 31.0 years	31.3 years 32.8 years

Includes principal, interest, taxes, and insurance.
 Married borrowers only.

Note.—Data are for new and proposed single-family home mortgages insured by FHA under section 245 (GPM's) and section 203 (SFPM's).

Source: U.S. Department of Housing and Urban Development

^{31.} Although not an impediment to the spread of GPM's, the tax treatment of a GPM borrower might be noted here. For a borrower who uses-as most individuals do-the cash method of accounting, the entire amount of GPM payments is deductible as interest

payments until such time as the outstanding principal falls below the original loan amount. For a GPM-III borrower with a \$30,000 mortgage, this occurs sometime in the eighth year of the mortgage. For the first 4 years of the GPM, interest deductions are smaller than for an SFPM with the same loan amount and interest rate. In years 5 through 8, deductions under the GPM are larger. If the income of the GPM borrower is rising over time-the presumption behind GPM's in the first place-then the borrower is moving into higher tax brackets and the value of a dollar's worth of deductions is increasing.

obvious potential for GPM payments to rise faster than borrowers' incomes.

Shared appreciation mortgages.—As is suggested by their name, the distinguishing feature of shared appreciation mortgages (SAM's)-is that the lender shares in the appreciation of the property securing the mortgage. SAM's differ from SFPM's in three important respects. First, the interest rate on a SAM is lower-typically much lower-than on an SFPM. Second, in return for this lower interest rate, the lender obtains a share in any increase in the value of the property securing the mortgage. The lender's share is termed "contingent interest." Third, although monthly payments on a SAM are calculated on the basis of a long amortization period, the loan itself becomes due and payable in no more than 10 years.

The lower interest rate on a SAM can result in substantially lower monthly mortgage payments and can, therefore, substantially increase the number of households that qualify for a mortgage. Potential borrowers, however, will be concerned about the unknown but possibly quite large amount of contingent interest that will have to be paid in no more than 10 years. Consider a \$50,000 SAM, in which the lender's share is one-third, used to purchase a \$62,000 house that subsequently appreciates 10 percent per year. At the end of 10 years, the house will have appreciated \$99,600, so that the borrower will have to pay the lender a lump sum of \$33,200 plus the unpaid principal of the mortgage. Refinancing this amount probably would not be a major problem for a borrower whose income had kept pace with inflation.

SAM's may appeal to first-time housebuyers. First-time buyers may not be able to make large enough downpayments on an SFPM to get mortgage payments they can afford. The reduced monthly payments under a SAM, therefore, could be important to them. SAM's may also appeal to elderly people for whom the investment aspect of housing is relatively unimportant.

From the lender's viewpoint, the contingent interest feature of SAM's provides a hedge against inflation, at
 Table 16.—Payments and Outstanding Balances for a Price Level Adjusted Mortgage and a

 Standard Fixed-Payment Mortgage

[Dollars]

	Standa mor	rd fixed-p rtgage (SF	ayment 'PM)	Price mor	e level adj tgage (PL	usted AM)
Year	Mon payr		Out- standing	Mon payr		Out- standing balance
	Nomi- nal	Real	balance end of year	Nomi- nal	Real	end of year
1 2 3 4 5 5 10 20 28 29 30	592 592 592 592 592 592 592 592 592 592	592 539 490 445 405 251 97 45 41 37	49,833 49,750 49,596 49,419 49,215 47,642 38,156 12,339 6,598 0	239 263 289 318 349 563 1,460 3,129 3,442 3,787	239 239 239 239 239 239 239 239 239 239	54,031 58,326 62,889 67,725 78,212 102,172 158,615 79,272 44,470 0

NOTE.—Both mortgages are for \$50,000. The interest rate on the SFPM is 14 percent; the interest rate on the PLAM is 4 percent. The inflation rate is assumed to average 10 percent during the 30-year term of each mortgage.

Source: Henry J. Cassidy, "Price-Level Adjusted Mortgages Versus Other Mortgage Instruments," Federal Home Loan Bank Board Journal 14 (January 1981): 4.

least to the extent that house prices mirror the general level of prices in the economy. Also, the 10-year maturity of SAM's would shorten the average maturity of a lender's portfolio, reducing interest rate risk somewhat. During its term, however, a SAM has poor cash flow compared with an SFPM. While SAM's would probably be attractive to borrowers during periods of high interest rates, it is precisely during such periods that SAM's would be least attractive to thrift institutions because income from SAM's—given their low interest rates-would not be sufficient to allow thrifts to pay competitive rates on deposits. Investors with longer term liabilities, on the other hand, may find SAM's an attractive outlet for funds.

There are several problems to the spread of SAM's. First, buyers in secondary markets need some assurance that the originators have not systematically overestimated the probable appreciation of the property backing the SAM. Perhaps requiring the originator to retain a significant share of SAM's placed in pools would help in this regard. Second, it will probably be difficult for a lender to determine differential rates of probable appreciation for properties in different neighborhoods, yet such a determination is crucial if the expected rate of return on various SAM's are to be equal. Further, even if this determination is made and different interest rates are applied to different SAM's, lender may be vulnerable to a ล charge (valid or not) of unlawful discrimination.

A final problem with SAM's is related to improvements made in the property by the owner. The cost of capital improvements would probably be subtracted from gross appreciation in order to determine contingent interest. Many improvements, however, add less to the value of a house than they cost. Improvements, therefore, make lenders' returns on SAM's more uncertain.³²

Price level adjusted mortgages.— The final alternative mortgage instrument to be discussed—the price level adjusted mortgage (PLAM)-is still in the discussion stage. Its distinctive feature is that payments are constant in real terms. This result follows from two elements of the mortgage contract. First, the contract interest rate is set at the rate that would prevail if no inflation were expected and is held constant for the life of the mortgage. This element, by itself, results in low monthly payments. Second, the real value of the outstanding mortgage balance is maintained by raising the nominal value of the mortgage balance by a factor equal to the rate of inflation. This element insulates lenders from inflation.

Table 16 contrasts the monthly payments under a PLAM with the payments under a SFPM of equal amount and maturity. While the SFPM entails monthly payments that are constant in nominal terms, the PLAM's are constant in real terms. The

⁽continued on p. 58)

^{32.} Joseph A. McKenzie, "Shared Appreciation Mortgages," *Federal Home Loan Bank Board Journal* 13 (November 1980) 13-14. Much of this discussion of SAM's is based on McKenzie's article.

Employment and Employee Compensation of U.S. Multinational Companies in 1977

Comprehensive data on employment and employee compensation of U.S. companies multinational (MNC's) were collected in BEA's 1977 benchmark survey of U.S. direct investment abroad, the results of which were released last year.¹ The data are important for analyzing the effect of U.S. MNC's on labor, both in the United States and abroad. In this article they are used to examine the distribution of total MNC employment between U.S. parents and their foreign affiliates; the proportion of all-U.S.-business employment accounted for by U.S. parents; the country and industry distribution of foreign affiliate employment, including the geographical concentration of employment; the distribution of parent and affiliate employment by employment size class; and affiliates' shares of total manufacturing employment in 10 developed countries. They are also used to examine and compare hourly compensation paid to production workers in manufacturing by U.S. parents and their majority-owned foreign affiliates, and to compare affiliate compensation rates with those for all manufacturing businesses in selected for-

Note.—Arnold Gilbert did the computer programming for most of the tables in this article and was responsible for the analysis-of-variance routine applied to foreign affiliate compensation rates. Ethel J. Wheeler provided statistical assistance. eign countries. A subsequent article will discuss growth in affiliate employment (and assets) since 1966, the year covered by the previous benchmark survey.

The employment data are also of interest as a measure of the overall size of U.S. MNC operations. Although employment has some limitations as a measure of size, it has the advantage of being affected neither by methods of valuation (as are, for example, total assets, which are based on book values), nor by the sources and patterns of financing (as is, for example, the direct investment position).

Although the 1977 benchmark survey covered parents and affiliates in all industries, this article, like others in a series of BEA studies of U.S. MNC's based on that survey. covers 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 survey, considerably 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 infomation needed for policy purposes to other U.S. Government agencies.

Highlights

• Worldwide employment of U.S. MNC's was 26,081,327; U.S. parents accounted for 72 percent, and their foreign affiliates for 28 percent, of the total. MNC's with U.S. parents in manufacturing accounted for about two-thirds of worldwide MNC employment.

• U.S. parents accounted for 35 percent of the employment of all U.S. business in industries covered by the Census Bureau's *Enterprise Statistics*. In petroleum and manufacturing, the parents' shares were over 50 percent. • Affiliates classified in manufacturing accounted for just over twothirds of total affiliate employment. Within manufacturing, affiliate employment was largest in "other manufacturing" and transportation equipment.

• More than two-thirds of foreign affiliates' total employment was in developed countries. Within the developed countries, 62 percent was in Europe. Within the developing countries, 62 percent was in Latin America.

• For all industries combined, four countries—the United Kingdom, Canada, Germany, and France—accounted for 44 percent of affiliate employment. Eight countries—the above four, plus Brazil, Japan, Mexico, and Australia—accounted for 65 percent. Among six major industries, the geographical concentration of employment was highest in finance (except banking), insurance, and real estate and in mining.

• For U.S. parents—and, to a lesser extent, for foreign affiliates—employment was skewed toward the larger companies. Parents having over 10,000 employees accounted for only 13 percent of the number, but for 78 percent of the total employment, of all parents.

• Among 10 developed countries for which reasonably comparable data could be obtained, the affiliate share of total foreign manufacturing employment was by far the highest in Canada, at 38 percent. It was the lowest in Denmark and Japan (2 percent each).

• For U.S. parents in manufacturing, hourly compensation of production workers was \$8.76; for foreign affiliates in manufacturing, it was \$4.92—about 56 percent of the parents' rate. In petroleum and coal products, the rate for parents was

^{1.} 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. A brief description of the benchmark survey and highlights of the data were given in International Investment Division, "1977 Benchmark Survey of U.S. Direct Investment Abroad," SURVEY OF CUREENT BUSI-NESS 61 (April 1981): 29-37. Detailed data and a more complete methodology of the survey were published in U.S. Department of Commerce, Bureau of Economic Analysis, U.S. Direct Investment Abroad, 1977 (Washington, D.C.: U.S. GPO, April 1981).

Table 1.—Worldwide Employment of U.S. Multinational Companies, by Industry of U.S. Parent, 1977

	Amount Distributi Number of employees Percent						
	Nu	umber of employe	es		Percent		
	Total	U.S. parents	Foreign affiliates	Total	U.S. parents	Foreign affiliates	
All industries	26,081,327	18,884,636	7,196,691	100	72	28	
Mining Metal mining Iron Copper, lead, zinc, gold, and silver	48,368 (P) (P)	65,342 21,796 (^D) (^D)	41,142 26,572 (^D) (^P)	100 100 100 100	61 45 (^D) (^D)	39 55 (^D) (^D)	
Bauxite, other ores, and services Coal and other nonmetallic minerals	(^D) 58,116	100 43,546	(^D) 14,570	100 100	(^D) 75	(^D) 25	
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	85,147 46,405 38,742 1,079,385 (^D) (^{D)}) (890,511 68,964 37,340 31,624 717,685 709,020 (^b) (^b) 57,638 46,224	424,995 16,183 9,065 7,118 361,700 (^D) (^P) 536 38,277 8,835	100 100 100 100 100 100 100 100 100	68 81 80 82 66 (⁽⁾) (⁽⁾) (⁽⁾) (⁽⁾) 60 84	32 19 20 18 34 (⁰) (^P) (^P) 40 16	
Manufacturing Food and kindred products Grain mill and bakery products Beverages. Other	1,500,662 276,985 183,559	11,775,031 1,016,702 199,016 122,782 694,904	5,322,882 483,960 77,969 60,777 345,214	100 100 100 100 100	69 68 72 67 67	31 32 28 33 33	
Chemicals and allied products Industrial chemicals and synthetics Drugs Soap, cleaners, and toilet goods Agricultural chemicals Other	997,058 479,357 302,106 26,985	$\begin{array}{r} 1,207,675\\652,827\\253,902\\167,363\\21,277\\112,306\end{array}$	$747,114\\344,231\\225,455\\134,743\\5,708\\36,977$	100 100 100 100 100 100	62 65 53 55 79 75	38 35 47 45 21 25	
Primary and fabricated metals Primary metal industries Ferrous Nonferrous Fabricated metal products	1,275,533 855,335 420,198	1,484,236 990,625 732,657 257,968 493,611	457,978 284,908 122,678 162,230 173,070	100 100 100 100 100	76 78 86 61 74	24 22 14 39 26	
Machinery, except electrical Farm and garden machinery and equipment. Construction and related machinery Office and computing machines Other	126.924	1,546,343 90,583 312,997 502,823 639,940	$762,544 \\ 36,341 \\ 143,060 \\ 357,815 \\ 225,328$	100 100 100 100	67 71 69 58 74	33 29 31 42 26	
Electric and electronic equipment Household appliances Radio, television, and communication equipment Electronic components and accessories Other	281,556 409,987 263,910	$\begin{array}{r} 1,274,090\\ 169,644\\ 320,321\\ 157,109\\ 627,016\end{array}$	658,595 111,912 89,666 106,801 350,216	100 100 100 100 100	66 60 78 60 64	34 40 22 40 36	
Transportation equipment Motor vehicles and equipment. Other	2,200,811	2,289,002 1,356,856 932,146	1,083,144 843,955 239,189	100 100 100	68 62 80	32 38 20	
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	174,893 825,108 323,930 505,811 300,467 526,346	$\begin{array}{c} 2.956,983\\ 97,993\\ 667,753\\ 268,438\\ 341,630\\ 253,418\\ 229,693\\ 67,268\\ 131,090\\ 170,639\\ 414,688\\ 250,373\end{array}$	$\begin{array}{c} 1,129,547\\ 76,900\\ 157,355\\ 55,492\\ 164,181\\ 47,049\\ 232,653\\ 16,389\\ 69,992\\ 79,731\\ 181,232\\ 48,573\end{array}$	100 100 100 100 100 100 100 100 100 100	72 56 81 83 84 56 80 65 68 65 70 84	28 44 19 17 32 16 44 20 35 32 30 16	
Trade	377,044 176,495 200,549	2,471,642 270,993 129,879 141,114 2,200,649	454,137 106,051 46,616 59,435 348,086	100 100 100 100 100	84 72 74 70 86	16 28 26 30 14	
Finance (except banking), insurance, and real estate Finance, except banking Insurance Real estate Holding companies Individuals, estates, and trusts ¹ .	172,088 1,002,387	862,004 145,452 694,844 6,167 15,541	430,219 26,636 307,543 1,038 47,319 47,683	100 100 100 100 100 100	67 85 69 86 25	33 15 31 14 75 100	
Other industries Agriculture, forestry, and fishing Construction Transportation, communication, and public utilities. Transportation Communication and public utilities. Services	3,343,422 (^D) 1,944,122 (^B) 901,896	2,820,106 24,644 283,471 1,772,387 682,420 1,089,967 739,604	523,316 (^b) 171,735 (^p) (^b) 162,292	100 100 100 100 100 100 100	84 (^b) (^p) (^p) (^b) 82	16 (^D) (^P) (^D) (^D) (^D) 18	

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

1. Consists of U.S. parents that were individuals, estates, or trusts directly holding investments. None of these parents were required to report employment (or other financial and operating data) in the 1977 benchmark survey. No foreign affiliates are classified in this category; however, when affiliate data are classified by industry of U.S. parent, the data for affiliates of individuals, estates, and trusts are shown in this category.

only moderately higher than that for affiliates-\$9.06 compared with \$8.63.

• For affiliates, compensation rates were influenced independently by both the affiliates' country and industry; the country effects were considerably more systematic than the industry effects.

• In 27 of 30 countries examined, majority-owned foreign affiliates in manufacturing (including petroleum and coal products) paid production workers at higher rates than did all foreign manufacturing businesses combined. Nevertheless, among countries, variations in the affiliate rates tended to follow rather closely the variations in rates for all foreign businesses.

Worldwide MNC Employment

Table 1 shows worldwide MNC employment, as well as employment of U.S. parents and foreign affiliates separately. In this and subsequent tables, employment of a given parent or affiliate is measured by the average number of full- and part-time employees on its payroll during the year. Because the table focuses on the MNC as a whole, employment of both the U.S. parent and its foreign affiliates was classified in a single industry. Although it would have been desirable to base the classification on the worldwide consolidated activities of the MNC as a whole, no MNC-wide industry codes were available from the benchmark survey; instead, the industry of the U.S. parent was used.²

Worldwide employment of U.S. MNC's was 26,081,327. About twothirds was in manufacturing. "Other industries"—agriculture, forestry, and fishing; construction; transportation, communication, and public utilities; and services—accounted for 13 percent. Trade accounted for 11 percent, and petroleum and finance (except banking), insurance, and real estate for 5 percent each. Mining accounted for the remainder, less than 1 per-

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cent. Among the major manufacturing industries, MNC employment was largest in "other manufacturing"—a residual category consisting of industries covered by 20 separate codes in the benchmark survey; this category accounted for nearly one-fourth of total manufacturing employment. Transportation equipment accounted for 20 percent, and the remainder was fairly evenly distributed among the other major manufacturing industries.

U.S. parents accounted for a much larger share of total MNC employment than did their foreign affiliates. Of the total, the parents accounted for 72 percent, and their affiliates for 28 percent. Among the six major industries, affiliate shares were above the 28-percent all-industries average in all but two-trade and "other industries," where affiliate shares were only 16 percent each. Within these industries, affiliate shares were particularly low in retail trade; transportation, communication, and public utilities: and services. The affiliate share was largest, at 39 percent, in mining. This reflected a particularly large share in metal mining; in coal and other nonmetallic minerals, the affiliate share was about the same as that in all industries combined.

In manufacturing, foreign affiliates accounted for 31 percent of MNC employment. Affiliate shares ranged from 24 percent in metals to 38 percent in chemicals.

U.S. Parent and All-U.S.-Business Employment Compared

U.S. parents accounted for a significant share of employment by all U.S. businesses, as measured by their shares in industries within the scope of the Census Bureau's *Enterprise Statistics* (table 2). The in-scope industries were mining, petroleum (selected subindustries), manufacturing, trade, and "other in-scope industries," which consists of construction and services (selected subindustries).³ Although, for all U.S. businesses, the Census data are the most comparable of those available to the data for U.S. parents, some incomparability between the two data sets may exist because of differences in classification by industry or in consolidation of companies. Consequently, the comparisons discussed below should be regarded as providing rough orders of magnitude.

Of all-U.S.-business employment of 44,312,000 in the five major in-scope industries, U.S. parents accounted for 15,591,000, or 35 percent.⁴ In petroleum and manufacturing, parents' shares were over 50 percent; in mining, trade, and "other in-scope industries," their shares were much lower—under 20 percent.

In mining, the parent share was low partly because U.S. businesses classified in mining included many small, independent coal mining operators, who tended not to make direct investments abroad. Many of the U.S. companies that did make mining investments abroad were themselves primarily engaged, and classified, in industries other than mining.

The low parent shares in trade and "other in-scope industries" may also have reflected a relatively high incidence of small enterprises that generally lacked the resources or incentives to establish foreign operations. In addition, success in those industries depends upon intimate knowledge of local markets, which typically is obtained more readily by local than by U.S. (or other foreign) investors. In manufacturing and petroleum, in contrast, success often depends to a greater degree upon unique products

^{2.} In the benchmark survey, the industry code assigned to a given parent or affiliate was that of the industry in which its sales were largest. In most cases, the MNC-wide industry code would have been the same as the parent's, because U.S. parents typically accounted for a considerably larger share of total MNC sales than did their foreign affiliates, and most affiliates were classified in the same industries as their parents. (Other tables show affiliate data classified by industry of the affiliate itself, indicating the industries of the foreign business enterprises for which the employees actually worked, rather than the industries of those enterprises' U.S. parents.)

^{3.} The in-scope petroleum and service subindustries are listed in table 2, footnotes 2 and 3.

^{4.} The Census Enterprise Statistics also contain data on wages and salaries (referred to as "annual payroll" in that publication). The data indicate that U.S. parents' share in wages and salaries paid by all U.S. businesses was higher than their share in employment-43 percent compared with 35 percent. This difference in shares indicates that wages and salaries per employee were higher for the parents. Data are not available at the enterprise level to determine to what extent the difference is due to differences in wages and salaries per hour worked or differences in hours worked per employee. In any event, the differences were relatively small except in petroleum. In that industry, wages and salaries per employee was probably depressed, relative to that of U.S. parents, by low wages and salaries of employees of retail service stations. Such employees accounted for a much larger share of all-U.S.-business employment, which included large numbers of employees of independent service station operators, than of U.S. parent employment, which was accounted for largely by employees of the major oil companies.

CHART 4

or processes, which have often enabled U.S. investors to penetrate foreign markets.

Within manufacturing, U.S. parents' shares of all-U.S.-business employment were by far the highest-97 and 86 percent, respectively-in chemicals and transportation equipment.⁵ Partly because of the importance of economies of scale, employment in both industries was highly concentrated among the largest firms, practically all of which had at least some direct investment abroad. The parents' share of U.S. business employment was lowest in "other manufacturing."

Industry and Country Distribution of Foreign Affiliate Employment

Industry distribution

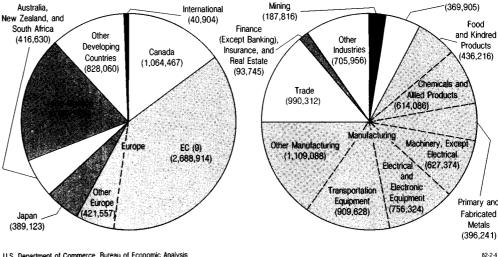
In table 3, and all subsequent tables that show data for foreign affiliates by industry, the data for affiliates are classified in the affiliates' own industries, rather than, as in table 1, in the industries of their U.S. parents. Of total affiliate employment, just over two-thirds was in manufacturing (chart 4). Trade accounted for 14 percent and "other industries" for 10 percent. Petroleum accounted for 5 percent, mining for 3 percent, and finance (except banking), insurance, and real estate for the remainder, about 1 percent.

Within manufacturing, affiliate employment was largest in "other manufacturing," which accounted for 23 percent of total manufacturing employment. Transportation equipment accounted for 19 percent, electrical machinery for 16 percent, and nonelectrical machinery and chemicals for 13 percent each. Food and metals each accounted for less than 10 percent.

Among the major industries, the differences between affiliate employment classified on the two bases-by industry of affiliate and by industry of U.S. parent-were proportionately largest in mining, trade, and finance (except banking), insurance, and real estate. Employment of mining affili-



Employment of Nonbank Foreign Affiliates of Nonbank U.S. Parents, 1977,



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

ates was more than four and one-half times as large as the employment of affiliates whose U.S. parents were classified in mining. As noted earlier, a large share of U.S. direct invest-Table 2.—Employment of U.S. Parents and All

U.S. Businesses, 1977¹

	Thou U.S. par- ents	All U.S. busi- nesses	U.S. parents as a per- centage of all U.S. busi- nesses
All industries	18,885	n.a.	n.a.
In-scope industries Mining Petroleum (selected subindustries) ² Manufacturing Poid and kindred products Primary and fabricated metals Machinery, except electrical Electrical and electronic equip- ment Transportation equipment Other manufacturing Trade	65 849 11,775 1,017 1,208 1,484 1,546 1,274 2,289 2,957 2,472	44,312 409 1,448 21,460 2,061 1,246 2,762 2,306 2,103 2,671 8,311 16,384 4,581	35 16 59 55 49 97 54 67 61 86 61 86 36 15 9
Partially in-scope industries ⁴ Out-of-scope industries ⁵	548 2,745	5,434 n.a .	n.a. n.a.

n.a. Not available. n.c. Not comparable. 1. All.U.S.-business data were obtained from U.S. Depart-ment of Commerce, Bureau of the Census, 1977 Enterprise Statistics: General Report on Industrial Organization (Washing-ton, D.C.: U.S. GPO, 1981), table 4. 2. Includes oil and gas extraction, petroleum and coal products, petroleum wholesale trade, and gasoline service sta-tions

3. Includes construction; advertising; motion pictures, includtelevision tape and film; and engineering, architectural surveying services.

ment in mining was by parents not classified in mining. Generally, these parents either (1) did not have significant mining operations domestically. but used foreign mining affiliates as a source of raw materials, or (2) did have significant domestic mining operations, but were nevertheless classified in nonmining industries, such as petroleum and manufacturing, because their operations in those industries were even larger.

Employment of trade affiliates was more than twice as large as employment of affiliates whose U.S. parents were classified in trade. Many parents in nontrade industries, primarily manufacturing, used trade affiliates to sell goods produced by the parents or their nontrade foreign affiliates. Also, the employment data from the benchmark survey probably overstated actual employment of trade affiliates, due to a classification problem involving a large, highly diversified, minority-owned affiliate.⁶

Employment of affiliates in finance (except banking), insurance, and real estate, unlike that of mining and trade affiliates, was considerably smaller than employment of affiliates whose U.S. parents were classified in

^{5.} One or both of the above-mentioned comparability problems (i.e., possible differences in industry classification or company consolidation) may exist in chemicals, whose share may thus have been somewhat overstated.

^{4.} Includes service industries not listed in footnotes 3 or 4. Includes service industries not listed in footnotes 3 or 5 as being in- or out-of-scope. These are industries for which U.S. parent data at the most disaggregated level contained both in- and out-of-scope industries. The major industries in the latter group were health (except dental laboratories), educational, and social services; U.S. businesses in these industries tended not to have significant direct investments abroad.
5. Includes petroleum industries not listed in footnote 2; finance (except banking), insurance, and real estate; agriculture, forestry, and fishing; transportation, communication, and public utilities; accounting, auditing, and bookkeeping services.

^{6.} When this affiliate's benchmark survey report was filed with BEA, information from its U.S. parent, which was classified in electrical machinery manufacturing, indicated that it was a wholesale trade affiliate; information obtained after the survey results had been published indicated that the affiliate probably should have been classified in electrical machinery manufacturing instead.

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Table 3.—Employment of Foreign Affiliates, 1977, Country by Industry

[Number of employees]

······································			1				Manuf	facturing					Fi- nance	
	All indus- tries	Mining	Petro- leum	Total	Food and kindred prod- ucts	Chemi- cals and allied prod- ucts	Pri- mary and fabri- cated metals	Ma- chinery, except electri- cal	Electric and elec- tronic equip- ment	Trans- portation equip- ment	Other manu- facturing	Trade	nance (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		187,816	369,905	4,848,957	436,216	614,086	396,241	627,374	756,324	909,628	1,109,088	990,312	93,745	705,956
Developed countries	4,980,691 1,064,467	93,345 38,063	214,125 58,412	3,403,636 614,828	252,742 63,187	376,720 60,314	291,367 59,300	528,296 53,960	449,655 69,266	736,021 116,341	768,835 192,460	833,600 199,905	75,857 32,891	360,128 120,368
Europe		2,761	117,786	2,348,374	151,903	255,727	205,710	414,106	338,741	508,408	473,779	408,102	33,166	200,282
European Communities (9) Belgium Denmark France. Germany Ireland Italy Luxembourg Netherlands. United Kingdom	$\begin{array}{c} 2,688,914\\ 157,002\\ 20,317\\ 470,886\\ 587,405\\ 27,555\\ 212,848\\ 7,548\\ 136,063 \end{array}$	681 (^P) (^D) (^P) (^D) (^D) (^D)	90,907 4,779 3,061 9,454 21,802 2,116 9,913 120 8,018 31,644	$\begin{array}{c} 2,074,335\\117,582\\9,172\\360,711\\482,244\\22,005\\168,042\\7,309\\96,857\\810,413\end{array}$	$\begin{array}{c} 127,156\\ 7,327\\ (^{\text{b}})\\ 16,871\\ 20,991\\ 2,677\\ 10,893\\ (^{\text{b}})\\ 9,766\\ 56,556\end{array}$	222,622 19,657 (^b) 33,324 35,879 2,868 23,812 (^b) 18,504 86,210	$170,925 \\ 5,710 \\ (^{\rm p}) \\ 36,487 \\ 36,294 \\ 802 \\ 8,788 \\ (^{\rm P}) \\ 11,582 \\ 70,331 \\ \end{array}$	$\begin{array}{c} 390,755\\ 16,532\\ (^{\text{D}})\\ 88,778\\ 78,880\\ (^{\text{P}})\\ 39,272\\ 1,706\\ 16,068\\ 146,457\end{array}$	$\begin{array}{c} 277,659\\ 30,856\\ (^{\text{D}})\\ 34,686\\ 64,941\\ 2,791\\ 37,575\\ (^{\text{D}})\\ 5,512\\ 97,394 \end{array}$	467,615 (^b) (^c) 81,745 177,186 (^b) 13,231 0 (^b) 172,070	417,603 (^D) 2,012 68,820 68,073 9,119 34,471 (^D) (^D) 181,395	$\begin{array}{c} 337,205\\ 22,300\\ 5,839\\ 63,887\\ 56,570\\ 2,063\\ 17,942\\ 84\\ 16,163\\ 152,357\end{array}$	24,477 1,514 257 1,767 3,030 45 738 (^D) 1,339 (^D)	161,309 (^D) 1,988 (^D) (^D) (^D) 16,213 (^D) 13,686 59,087
Other Europe Austria Greece Norway Portugal Spain Sweden Switzerland Turkey Other	$\begin{array}{r} 32,129\\ 16,601\\ 21,632\\ 19,372\\ 216,721\\ 42,864 \end{array}$	2,080 0 (^b) 0 1,529 0 0 (^b) 0 0 0 0 0	26,879 (^P) 1,905 6,377 (^P) 7,455 5,056 1,253 (^P) 1,156	$\begin{array}{c} 274,039\\ 15,684\\ 9,684\\ 8,510\\ 13,694\\ 170,664\\ 25,105\\ 18,505\\ 8,223\\ 3,970 \end{array}$	$\begin{smallmatrix} 24,747\\ 1,178\\ 1,395\\ (^{\rm P})\\ 1,120\\ 16,501\\ 2,693\\ (^{\rm P})\\ (^{\rm P})\\ (^{\rm P})\\ 0 \end{smallmatrix}$	33,105 1,887 1,997 496 2,091 21,297 2,494 2,102 (^b) (^c)	34,785 978 (^D) (^D) 27,118 1,268 1,370 0 59	23,351 1,742 0 (^D) 9,595 7,569 2,003 (^D) (^D)	61,082 (^P) 1,083 (^D) 4,533 38,197 (^D) 4,673 (^P) (^P)	40,793 (^D) 0 (^O) 35,934 1,822 0 (^D) 0 (^D) 0	56,176 6,078 (^P) 1,788 2,995 22,022 (^P) (^P) 2,831 2,669	70,897 7,373 2,688 4,313 3,901 18,770 10,036 19,193 638 3,985	8,689 (^D) 554 (^D) 625 157 1,326 0 42	38,973 1,688 (^D) 2,077 (^D) 17,678 2,510 6,832 (^D) 1,410
Japan Australia, New Zealand, and South Africa Australia. New Zealand South Africa.	389,123 416,630 269,344 21,245 126,041	0 52,521 27,527 (^D)	21,442 16,485 8,937 (^P) (^P)	185,504 254,930 167,090 13,094 74,746	11,326 26,326 14,059 2,290 9,977	29,342 31,337 20,131 1,957 9,240	7,392 18,965 13,482 256 5,227	37,246 22,984 14,548 797 7,639	13,794 27,854 15,677 1,144	42,081 69,191 54,225 (^b) (^b)	44,323 58,273 34,968 (^D) (^P)	169,296 56,297 40,520 4,962	4,913 4,887 3,624 281 982	7,968 31,510 21,646 1,126 8,738
Developing countries		94,471	130,088	74,746 1,445,321	9,911 183,474	9,249 237,366	5,227 104,874	99,078	11,033 306,669	173,607	340,253	10,815 156,712	982 17,888	0,700 330,616
Latin America	1,347,036	41,963	40,863	983,184	137,858	172,577	79,970	74,463	135,111	147,775	235,430	104,536	11,509	164,981
South America Argentina Brazil Chile Colombia Ecuador Peru Venezuela Other	$\begin{array}{c} 771,000\\ 108,039\\ 435,661\\ 10,121\\ 61,276\\ 9,622\\ 26,324\\ 101,241\\ 18,716\end{array}$	20,236 (^b) 7,432 (^b) (^b) 9,106 (^b) 899	$19,269 \\ 4,158 \\ 6,706 \\ 613 \\ 3,349 \\ 671 \\ 990 \\ 2,102 \\ 680$	$595,955 \\91,141 \\361,691 \\4,803 \\38,215 \\5,330 \\10,989 \\70,974 \\12,812$	58,229 8,834 26,716 $(^{D})$ 3,445 $(^{O})$ 1,846 12,151 3,675	$111,009 \\ 20,454 \\ 60,546 \\ 1,707 \\ 11,537 \\ 1,402 \\ 3,404 \\ 11,194 \\ 765$	46,555 3,146 26,694 651 3,807 (^P) 1,098 5,877 (^P)	53,872 7,198 44,543 (^D) 561 0 (^P) 1,171 (^D)	71,528 5,375 57,911 1,595 226 1,313 3,891 (^P)	108,734 23,867 67,758 (^b) 2,043 (^b) (^c) 12,753 (^b)	146,028 22,267 77,523 (^b) 15,227 2,176 (^b) 23,937 (^p)	55,892 6,555 19,652 1,070 5,954 1,096 3,898 16,938 729	7,433 524 2,867 (^D) 884 82 (^P) 2,837 140	72,215 (^D) 37,313 (^D) (^D) 2,443 (^D) (^D) (^D) 3,456
Central America. Mexico Panama Other.	480,374 370,115 20,828 89,431	14,211 9,653 0 4,558	7,236 2,683 (^D) (^D)	337,914 302,817 2,526 32,571	(^D) 30,930 1,308 (^D)	58,989 53,279 674 5,036	33,140 32,335 0 805	(^D) 20,190 0 (^D)	61,529 56,872 (^D) (^D)	(^D) 38,510 0 (^D)	81,252 70,701 (^P) (^D)	44,260 36,683 2,592 4,985	1,951 1,033 394 524	74,802 17,246 (^D) (^D)
Other Western Hemisphere Bahamas Bermuda Netherlands Antilles Trinidad and Tobago Other	7,595 2,481	7,516 (^D) 0 (^D) 0 7,314	14,358 (^P) 78 (^D) (^D) 1,190	49,315 580 (^D) 314 2,395 (^D)	(^b) (^b) (^b) 234 (^b)	2,579 (^D) 0 (^D) 1,247 919	275 0 0 (^D)	(^D) 0 0 0 0	2,054 (^D) 0 535 (^D)	(^D) 0 0 0 0 (^D)	8,150 217 (^D) (^D) (^D) 7,413	4,384 1,025 246 169 583 2,361	2,125 555 668 61 153 688	17,964 4,611 (^D) 2,345 (^D) (^D)
Other Africa Saharan Egypt Libya Other Sub-Saharan Liberia Nigeria Other	$\begin{array}{c} 161,129\\ 25,934\\ 5,705\\ 5,032\\ 15,197\\ 135,195\\ 29,766\\ 17,907\\ 87,522\\ \end{array}$	49,000 0 0 49,000 (^D) 0 (^D)	22,008 10,895 2,757 4,814 3,324 11,113 (^P) 4,335 (^P)	32,627 5,485 (^D) 5,019 27,142 (^D) 4,157 (^D)	10,601 1,222 0 1,222 9,379 (^b) (^b) 8,840	3,928 868 (^D) 0 (^D) 3,060 0 1,131 1,929	3,615 189 0 189 3,426 0 (^D) (^P)	281 (^b) (^b) (^b) (^c) (^b) (^c) (^c)	4,127 (^b) (^b) (^b) (^b) (^c) 2,972	1,784 (^D) 0 (^D) (^D) 0 0 (^D) (^D)	8,291 1,561 0 (^P) 6,730 (^P) (^P) 4,497	8,779 991 (^D) (^P) 7,788 (^D) 2,130 (^P)	822 (^b) (^b) 0 (^b) 102 (^b) 438	47,893 (^b) 2,326 42 (^b) 21,773 (^b) (^b)
Middle East Israel OPEC Iran Other Other	$\begin{array}{r} 138,317\\ 21,155\\ 104,877\\ 38,047\\ 66,830\\ 12,285\end{array}$	803 0 803 (^D) (^D) 0	41,159 (^P) 35,689 4,620 31,069 (^P)	31,102 16,706 10,315 9,981 334 4,081	1,677 (^D) (^D) (^D) (^D)	5,110 (^D) 2,681 2,396 285 (^D)	5,516 (^D) (^D) (^D) (^D)	(D) (2,367 (^B) 638 (^D) (^D) (^D)	9,010 7,927 (^D) 898 (^D) (^D)	3,030 (^b) (^b) (^b) 0 (^b)	4,392 2,750 (^D) (^D) 0 (^D)	9,795 1,810 6,939 6,443 496 1,046	1,096 (^b) 54 0 54 (^p)	54,362 1,207 51,077 ^(P) 2,078
Other Asia and Pacific Hong Kong India Indonesia. Malaysia. Philippines. Singapore South Korea. Taiwan. Thailand. Other	$\begin{array}{c} 528,614\\ 44,847\\ 94,622\\ 52,465\\ 35,969\\ 111,768\\ 44,184\\ 31,058\\ 68,040\\ 27,337\\ 18,324 \end{array}$	2,705 0 (^D) (^D) 0 0 0 232 (^D)	26,058 596 1,078 12,792 1,324 1,978 2,760 3,023 320 (^P) (^P)	398,408 32,775 90,958 14,454 28,608 80,221 35,330 223,537 65,364 15,130 12,031	33,338 (^D) (^D) 306 456 25,379 (^D) 378 963 4,227 (^D)	$\begin{array}{c} 55,751\\ 982\\ 30,585\\ 2,224\\ 1,100\\ 7,696\\ 359\\ 3,448\\ 3,623\\ 1,211\\ 4,523\end{array}$	15,773 532 (^D) 293 (^D) (^D) 1,965 (^D) (^D) 998 0	21,967 2,468 12,745 (^D) (^D) 3,750 (^D) (^D) (^D) (^D)	$\begin{smallmatrix} 158,421\\18,791\\(^{\mathrm{D}})\\5,250\\23,586\\8,922\\25,162\\8,459\\47,723\\(^{\mathrm{D}})\\1,870\end{smallmatrix}$	21,018 (^D) (^{D)})	92,140 9,810 18,095 6,202 2,105 33,127 3,164 3,259 7,750 3,669 4,959	33,602 5,654 1,561 2,323 1,690 8,331 3,075 1,565 2,049 6,450 904	4,461 2,001 (^b) 273 202 1,268 340 (^b) 43 (^b) (^b)	63,380 (^b) (^b) (^b) 19,970 2,679 (^b) 264 4,110 4,299
International	40,904	0 6 892	25,692	0	0	0 18 708	0 8.090	2.061	0	15 595	95 905	0	0 9 5 1 6	15,212
Addendum—OPEC	. 304,937	6,892	63,542	105,809	14,700	18,708	8,090	2,061	11,270	15,585	35,395	29,613	3,516	95,565

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

that industry. One reason was that most of the employment of the foreign affiliates of a large, diversified U.S. parent classified in insurance was in electrical machinery manufacturing. Also, for U.S. parents, the finance (except banking), insurance, and real estate industry included parents classified as "individuals, estates, or trusts." There was no comparable industry category for affiliates; therefore, when employment was classified by industry of affiliate, affiliates whose parents were individuals, estates, or trusts appeared elsewhere.

Country distribution

Of total affiliate employment, 69 percent was in developed countries, 30 percent in developing countries, and 1 percent in "international." (Affiliates classified in "international" were those that had operations spanning more than one country and that were engaged in petroleum shipping, other water transportation, petroleum trading, or the operation of oil and gas drilling equipment that was moved from country to country during the year.)

Within the developed countries, 62 percent of affiliate employment was in Europe, 21 percent in Canada, and the remainder about evenly divided between Japan and Australia, New Zealand, and South Africa. The United Kingdom, Germany, and France accounted for just over twothirds of affiliate employment in Europe.

Within the developing countries, 62 percent of affiliate employment was in Latin America, 24 percent in "other Asia and Pacific," and the remainder about evenly divided between "other Africa" and the Middle East. Brazil and Mexico alone accounted for 60 percent of affiliate employment in Latin America; Argentina, Venezuela, and Colombia accounted for an additional 20 percent.

Except for trade and "other industries," the distribution of affiliate employment among the six major industries was similar for the developed and developing countries. Trade accounted for a considerably larger share, and "other industries" for a considerably smaller share, of affiliate employment in developed than in developing countries.

The higher share of trade-both wholesale and retail-in developed countries may have reflected these countries' larger, more affluent markets. In addition, protectionist policies in some of the larger developing countries, particularly those in Latin America, may have made it difficult for U.S. MNC's to penetrate their markets through exports (which, in the importing countries, are often distributed by wholesale trade affiliates).7 The lower share of "other industries" in developed countries largely reflected agriculture's much lower share of affiliate employment in these countries than in the developing countries.

Manufacturing accounted for about the same shares of affiliate employment in developed and developing countries (68 and 66 percent, respectively). The distribution within manufacturing, however, differed significantly between the two groups. In particular, nonelectrical machinery and transportation equipment accounted for considerably larger shares, and food, chemicals, and electrical machinery for considerably smaller shares, of manufacturing employment in developed than in developing countries.

Geographical Concentration of Affiliate Employment

Table 4 shows the geographical concentration of affiliate employment by industry, measured by the percentage of employment in each industry accounted for by the four or eight countries in which employment was largest. The 55 industries at the lowest level of aggregation are ranked on the basis of both the four- and eight-country percentages, and the eight countries in which affiliate employment was largest are listed in descending order for each industry.

For all industries combined, four countries—the United Kingdom, Canada, Germany, and France—accounted for 44 percent of affiliate employment. (Canada and the United Kingdom alone accounted for 30 percent.) These four countries, plus Brazil, Japan, Mexico, and Australia, accounted for 65 percent.

The high geographical concentration of employment in mining reflected a number of factors. First, economically exploitable mineral resources themselves were geographically concentrated. Second, several countries that had significant resources restricted, prohibited, or otherwise discouraged foreign investment in mining. Finally, in some countries, mining was conducted largely by affiliates that not only extracted ores, but also refined them into primary metal products. Because these affiliates' sales were largely or wholly of the refined products, the affiliates generally were classified in primary metals, rather than in mining. Employment in mining would have been somewhat less concentrated geographically if these affiliates had been classified in mining.

Among the six major industries, employment was most concentrated, based on the four-country measure, in finance (except banking), insurance, and real estate. Based on the eightcountry measure, it was most concentrated in mining.

Compared with other industries, employment in finance (except banking), insurance, and real estate was much more highly concentrated in Canada and the United Kingdom, particularly the former. Whereas, in most countries, finance and insurance affiliates primarily served other parts of the same MNC, in Canada and the United Kingdom, several major affiliates primarily served individuals and unaffiliated companies. Employment of these affiliates tended to be considerably larger than that of affiliates whose operations were confined to providing services within the MNC. The concentration of these more labor intensive activities in Canada and the United Kingdom probably reflected the importance to such activities of a common language and the absence of cultural barriers, the restrictions on foreign ownership of insurance companies in a number of other countries, and the tendency for purchases of insurance to be high relative to national income in Canada.

Of the six major industries, employment was least concentrated in the heterogeneous "other industries" cat-

^{7.} The higher share of trade in developed countries also reflected the classification problem involving a minority-owned affiliate that was mentioned in footnote 6.

······································	Number	Emplo	yment a	ccounted	for by	
	Number of employ-	Four co	untries	Eight co	ountries	Eight countries in which employment was largest ¹
	ees	Per- cent	Rank	Per- cent	Rank	
All industries	7,196,691	44.4		64.7		United Kingdom, Canada, Germany, France, Brazil, Japan, Mexico, Australia
Mining		61.8		79.2		Canada, Australia, Zambia, South Africa, Mexico, Peru, Brazil, Liberia
Metal mining Iron	36,994	60.6 92.3	1	78.4 99.7	1	Canada, Zambia, South Africa, Australia, Peru, Mexico, Brazil, Liberia Canada, Australia, Liberia, Brazil, Guatemala, Spain, Norway, Gabon
Copper, lead, zinc, gold, and silver Bauxite, other ores, and services		63.7 66.2	22 17	90.2 90.4	6	Zambia, Peru, Canada, South Africa, Mexico, Australia, Namibia, Argenting South Africa, Australia, Canada, Gabon, Jamaica, Botswana, Brazil, Dominicar
Coal and other nonmetallic minerals	19,485	87.4	2	95.6	4	Republic Canada, Australia, Mexico, Iran, Spain, Brazil, Malaysia, Colombia
Petroleum	369,905	38.6		56.7		Canada, United Kingdom, Saudi Arabia, International, Germany, Japan, Indone
Oil and gas extraction	96,207	43.9		61.5		sia, Trinidad and Tobago Canada, Indonesia, International, United Kingdom, Libya, Norway, Iran, Nigeria
Crude petroleum (no refining) and gas	44,702	65.1	18	83.8	18	Indonesia, Canada, Libya, Trinidad and Tobago, United Kingdom, Netherlands Norway, United Arab Emirates
Oil and gas field services	51,505	38.1	53	57.3	54	International, United Kingdom, Iran, Canada, Algeria, Norway, Saudi Arabia Germany
Petroleum and coal products	185,613	54.8		75.4		Canada, Saudi Arabia, United Kingdom, Japan, Germany, France, Trinidad and Tobago, Italy
Integrated refining and extraction	106,088	81.5	5	98.0	2	Canada, Saudi Arabia, Germany, United Kingdom, Trinidad and Tobago, France Bahrain, Colombia
Refining without extraction	73,427	49.0	36	65.7	47	Japan, Italy, Spain, United Kingdom, Germany, South Africa, South Korea Netherlands
Petroleum and coal products, nec	6,098	69.0	11	82.7	20	United Kingdom, Australia, Mexico, Germany, Netherlands, South Africa, Canada Japan
Petroleum wholesale trade Other		35.5 75.3	55 6	53.3 86.3	55 13	Australia, Sweden, United Kingdom, Japan, Brazil, South Africa, Ireland, Greec International, Germany, Netherlands, United Kingdom, Brazil, Canada, Lebanor
Manufacturing	4,848,957	46.8		67.8		Israel United Kingdom, Canada, Germany, Brazil, France, Mexico, Japan, Spain Canada, United Kingdom, Dominicon Banublia, Manico, Basail, Bhilipping, Can
Food and kindred products		42.4 45.4	45	63.0 69.4	42	Canada, United Kingdom, Dominican Republic, Mexico, Brazil, Philippines, Ger many, France Canada, United Kingdom, Italy, France, Mexico, Spain, Brazil, Australia
Beverages	56,198	40.8	51	66.8	46	Canada, Mexico, United Kingdom, Brazil, Philippines, South Africa, Thailand Spain
Other		47.0	39	67.5	45	Canada, United Kingdom, Dominican Republic, Philippines, Mexico, Brazil, Ger many, Venezuela
Chemicals and allied products Industrial chemicals and synthetics	223,900	42.4 48.3	38	63.4 70.3	39	United Kingdom, Brazil, Canada, Mexico, Germany, France, India, Japan Canada, Brazil, Mexico, United Kingdom, Germany, Japan, Netherlands, Belgiur
Drugs Soap, cleaners, and toilet goods		36.7 42.9	54 50	59.4 67.7	52 44	United Kingdom, Brazil, India, Mexico, Italy, France, Germany, Argentina United Kingdom, Canada, Mexico, France, Brazil, Germany, Japan, Italy
Agricultural chemicals Other		51.9 52.9	34	71.5	38	India, Brazil, Canada, Australia, South Korea, Argentina, France, Netherland United Kingdom, Canada, France, Brazil, Mexico, Japan, Belgium, German
Primary and fabricated metals Primary metal industries	396,241	51.1 53.0		76.2 75.1		United Kingdom, Canada, France, Germany, Mexico, Spain, Brazil, Australi United Kingdom, Spain, France, Canada, Mexico, Brazil, Germany, Australi
Ferrous	67,011	63.7 55.1	21 30 25	86.8 73.4	11 33	Spain, Canada, Mexico, Brazil, France, United Kingdom, Germany, Italy United Kingdom, France, Mexico, Australia, Canada, India, Surinam, German
Fabricated metal products	224,326	59.7 58.7	25	80.2 81.2	25	Canada, United Kingdom, France, Germany, Mexico, Brazil, France, Netherlands, Australi United Kingdom, France, Germany, Canada, Brazil, Italy, Japan, Mexico
Machinery, except electrical. Farm and garden machinery and equipment	59,647	66.3	16	88.5 80.0	10 26	United Kingdom, Germany, France, Belgium, Brazil, Australia, Argentina, Mexic
Construction and related machinery Office and computing machines	206,488	55.4 64.8	29 19	88.7	9	United Kingdom, France, Brazil, Germany, Japan, Canada, Italy, Australia France, Germany, United Kingdom, Canada, Japan, Italy, Netherlands, Braz
Other Electric and electronic equipment	756,324	59.1 38.3	26	83.0 62.1	19	United Kingdom, Canada, France, Brazil, Germany, Italy, Mexico, Japan United Kingdom, Canada, Germany, Brazil, Mexico, Taiwan, Spain, Italy
Household appliances Radio, television, and communication equipment	249,869	66.6 46.7	15 40	84.6 73.3	17 34	Canada, United Kingdom, Germany, Australia, Brazil, Mexico, Spain, Italy Germany, United Kingdom, Spain, Italy, Taiwan, Brazil, France, Belgium Taiwan, Mexico, Malaysia, United Kingdom, Singapore, France, Hong Kong
Electronic components and accessories		46.3	42	68.8	43	Taiwan, Mexico, Malaysia, United Kingdom, Singapore, France, Hong Kong Germany
Other Transportation equipment	170,393 909,628	48.7	37	72.0	36	Brazil, Canada, United Kingdom, Mexico, India, Belgium, Spain, France Germany, United Kingdom, Canada, France, Brazil, Australia, Japan, Mexic
Motor vehicles and equipment Other	838,041	58.7 85.5	27	82.6 97.6	21 3	United Kingdom, Germany, Canada, France, Brazil, Australia, Japan, Mexic Germany, Canada, Spain, France, Italy, Taiwan, Brazil, United Kingdom
Other manufacturing	1,109,088	47.1		66.6		Canada, United Kingdom, Brazil, Mexico, France, Germany, Japan, Australi
Tobacco manufactures Textile products and apparel		44.3 51.5	48	64.2 72.1	48	United Kingdom, Brazil, Pakistan, Netherlands, Germany, Canada, Venezuela Mexico Canada, Philippines, United Kingdom, Mexico, Belgium, Venezuela, Brazil, Franc
Lumber, wood, furniture, and fixtures	57,779	64.3	20	79.9	27	Canada, United Kingdom, Philippines, Brazil, South Africa, Indonesia, France Singapore
Paper and allied products Printing and publishing	33,971	56.6 70.0	28	75.4	31 14	Canada, Brazil, United Kingdom, France, Mexico, Australia, Netherlands, German United Kingdom, Canada, Mexico, Australia, Germany, France, Hong Kong, Ital
Rubber products Miscellaneous plastics products	38,694	46.1 44.3	44 47	63.0 71.2	50 37	United Kingdom, Canada, Japan, Brazil, Mexico, Spain, France, Germany Brazil, United Kingdom, Germany, Canada, France, Mexico, Belgium, Australi
Glass products Stone, clay, cement, and concrete	82,892	52.5 46.1	32 43	76.5	29 40	United Kingdom, Canada, Japan, Brazil, Mexico, Spain, France, Germany Brazil, United Kingdom, Germany, Canada, France, Mexico, Belgium, Austral United Kingdom, Canada, Germany, Japan, Brazil, France, Venezuela, Argentir Canada, United Kingdom, Mexico, France, Italy, Germany, Brazil, Japan
Instruments and related products Other		61.6 46.7	24 41	81.6 69.5	23 41	United Kingdom, Germany, Canada, France, Japan, Italy, Brazil, Mexico Canada, United Kingdom, Mexico, Germany, Brazil, France, Hong Kong, Taiwa
Trade Wholesale trade	564,615	59.1 50.2		74.9 65.3		Canada, Japan, United Kingdom, France, Germany, Australia, Mexico, Belgiu Japan, United Kingdom, Canada, Germany, France, Switzerland, Italy, Australi
Durable goods	223,580	39.5 67.3	52 13	58.9 76.3	53 30	United Kingdom, Canada, Germany, Japan, France, Switzerland, Australia, Be gium Japan, United Kingdom, France, Germany, Canada, Iran, Switzerland, Braz
Retail trade Finance (except banks), insurance, and real estate	425,697	72.0 63.5	7	89.7 76.7	8	Canada, United Kingdom, France, Mexico, Australia, Japan, Germany, Braz
Finance (except banks), insurance, and real estate	24,273	69.9 68.9	9 12	85.0	15 28	Canada, United Kingdom, Austria, Japan, Australia, Germany, Brazil, Venezuel Canada, United Kingdom, Australia, Japan, Germany, Venezuela, France, Braz Canada, United Kingdom, Austria, Japan, Brazil, Germany, Australia, Netherland
Real estate		67.0	14	84.8	16	Canada, Hong Kong, Dominican Republic, Bahamas, Australia, France, Indonesia Spain
Holding companies	6,025	63.4	23	86.3	12	Venezuela, Hong Kong, United Kingdom, Belgium, Philippines, Canada, Panama Switzerland
Other industries		35.6		49.3		Canada, United Kingdom, Brazil, France, Saudi Arabia, Germany, Liberia, Autralia
Agriculture, forestry, and fishing Construction	179,447	52.3 43.7	33 49	80.5 64.0	24 49	Liberia, Philippines, Honduras, Costa Rica, Indonesia, Panama, Guatemala, Mexic Canada, Brazil, Saudi Arabia, Iran, France, United Kingdom, Australia, Ita
Transportation, communication, and public utilities	88,049	69.5		80.3		Canada, International, Germany, Spain, Colombia, Netherlands, United Kingdon Dominican Republic
Transportation	· · ·	69.2	10	82.3	22	International, Canada, Colombia, Germany, United Kingdom, Australia, Saud Arabia, Brazil
Communication and public utilities	39,951	82.1	4	91.7	5	Canada, Germany, Spain, Dominican Republic, Netherlands, Barbados, Bolivi Philippines
Services	308,057	44.7	46	60.3	51	Canada, United Kingdom, France, Germany, Brazil, Saudi Arabia, Australi Mexico

1. Countries are listed in descending order of affiliate employment.

egory. Low concentration in that category primarily reflected concentration of the various subindustries in different countries, rather than low geographical concentration in individual subindustries. For instance, in agriculture, forestry, and fishing, none of the eight countries in which affiliate employment was largest were included in the analogous list of countries for construction. Aside from "other industries," employment was least concentrated in petroleum. U.S. MNC's in petroleum had extensive operations in many counties, including both developed countries, where affiliates were primarily engaged in refining and distribution, and developing countries, where they were primarily engaged in exploration for and extraction of crude oil. (In a few countries, such as Canada and the United Kingdom, affiliates conducted significant operations of both types.)

Within manufacturing, employment was most concentrated in transportation equipment and in nonelectrical machinery. The high concentration in these industries may have reflected the large scale of operations characteristic of the production of goods such as automobiles, farm and industrial machiery, and computers. U.S. investment in the automobile manufacturing industry, for instance, was concentrated in a few countries that were large consumers of autos and possessed the various resources needed to produce them on an efficient scale.

Manufacturing employment was least concentrated in food products and chemicals. The low concentration in food may have partly reflected protectionist agricultural policies that, in many countries, have indirectly favored local processing of domestic agricultural products. It may also have reflected limited opportunities for economies of scale, and spoilage and high transportation cost that may have arisen if production had been more highly concentrated. In chemicals, especially pharmaceuticals, U.S. investors may have decided to produce in a number of countries partly to facilitate compliance with the particular regulatory requirements of each country. In petrochemicals, the low concentration may have reflected need for proximity to geographically dispersed petroleum resources or refineries.

Size Distribution of Employment

Table 5 shows, by industry, the number of parents and affiliates, and their respective employment, in each of several employment size classes, together with three summary statistics for total employment in each industry-the mean, median, and coefficient of variation. In this table, the "total" of U.S. parents and foreign affiliates refers only to the number that had employees. There were 3,058 parents and 20,670 affiliates that had employees, and 367 parents and 2,971 affiliates that had no employees.⁸

8. Practically all of the parents that had no employees were individuals, estates, or trusts, none of which were required to report employment (or any other financial and operating data) in the benchmark survey. The affiliates that had no employees were spread over a number of industries. When no employment was reported for an affiliate, BEA generally contacted the U.S. parent company to determine why. In many cases, it was found that labor services for the affiliate had been contracted out to another company, usually another of the parent's foreign affiliates. For instance several affiliates engaged in oil and gas extraction did not carry employees on their own payrolls, but instead used the employees of affiliates in the oil and gas field services industry on a contractual basis.

Table 5.—Distribution of Employment Among U.S. Parents and

							Size	classes					
								Nu	ımber				
	Line	To	al 1	1-	10	11-	100	101-	1,000	1,001-	10,000	Over	10,000
		Parents or affiliates	Employ- ees	Parents or affiliates	Employ- ees	Parents or affiliates	Employ- ees	Parents or affiliates	Employ- ees	Parents or affiliates	Employ- ees	Parents or affiliates	Employees
U.S. Parents													
All Industries Mining Petroleum Manufacturing Food and kindred products. Chemicals and allied products. Primary and fabricated metals Machinery, except electrical Electric and electronic equipment. Transportation equipment. Other manufacturing. Trade Finance (except banking), insurance, and real estate Other industries Foreign Affiliates	1 2 3 4 5 6 7 8 9 10 11 12 13 14	$\begin{array}{c} \textbf{3.058}\\ \textbf{29}\\ \textbf{157}\\ \textbf{1,838}\\ \textbf{112}\\ \textbf{194}\\ \textbf{277}\\ \textbf{320}\\ \textbf{223}\\ \textbf{84}\\ \textbf{628}\\ \textbf{374}\\ \textbf{244}\\ \textbf{416} \end{array}$	$\begin{array}{c} 8,884,636\\ 65,342\\ 890,511\\ 11,775,081\\ 1,016,702\\ 1,207,675\\ 1,484,236\\ 1,546,343\\ 1,274,090\\ 2,289,002\\ 2,956,983\\ 2,471,642\\ 862,004\\ 2,820,106\end{array}$	$ \begin{array}{r} 155 \\ 2 \\ 16 \\ 6 \\ 0 \\ 0 \\ 0 \\ 2 \\ 1 \\ 3 \\ 32 \\ 84 \\ 15 \\ \end{array} $	493 (P) 63 28 0 0 0 (P) (P) (P) 156 177 (P)	$\begin{array}{c} 324\\ 5\\ 27\\ 113\\ 4\\ 15\\ 24\\ 19\\ 9\\ 3\\ 39\\ 104\\ 31\\ 44\\ \end{array}$	16,336 200 1,199 7,048 264 967 1,467 1,318 (^P) (^D) (^D) 4,661 1,280 1,948	1,083 8 46 708 35 75 110 137 85 13 253 136 49 136	476,564 4,936 19,182 313,588 15,291 35,420 48,007 60,420 38,638 7,079 108,733 50,835 22,330 65,693	$\begin{array}{c} \textbf{1,085}\\ \textbf{13}\\ \textbf{47}\\ \textbf{735}\\ \textbf{45}\\ \textbf{63}\\ \textbf{112}\\ \textbf{135}\\ \textbf{102}\\ \textbf{34}\\ \textbf{244}\\ \textbf{62}\\ \textbf{58}\\ \textbf{170} \end{array}$	3,749,538 (^D) 155,487 2,496,486 189,860 225,063 423,945 435,235 327,146 118,806 776,431 209,337 217,434 (^D)	411 1 276 28 41 31 29 25 33 89 40 22 51	$\begin{array}{c} \textbf{14,641,705} \\ (\texttt{P}) \\ 714,580 \\ 8,957,881 \\ 811,287 \\ 946,225 \\ 1,010,817 \\ 1,049,370 \\ 907,707 \\ 2,162,954 \\ 2,069,521 \\ 2,206,651 \\ 2,206,651 \\ 2,206,631 \\ 620,783 \\ (\texttt{P}) \end{array}$
All industries. Mining Petroleum Manufacturing Food and kindred products. Chemicals and allied products. Primary and fabricated metals Machinery, except electrical Electric and electronic equipment. Transportation equipment. Other manufacturing. Trade. Finance (except banking), insurance, and real estate Other industries.	15 16 17 18 19 20 21 22 23 24 25 26 27 28	$\begin{array}{c} \textbf{20,670}\\ 237\\ 1,371\\ 9,437\\ 823\\ 2,192\\ 1,080\\ 1,247\\ 976\\ 458\\ 2,661\\ 5,505\\ 1,030\\ 3,090 \end{array}$	7,196,691 187,816 369,905 4,848,957 436,216 614,086 396,241 627,374 756,324 909,628 1,109,088 1,109,088 990,312 93,745 705,956	3,119 27 340 416 30 92 58 77 33 14 112 1,404 422 510	$\begin{array}{c} \textbf{16,147}\\ 120\\ 1,504\\ 2,447\\ 170\\ 524\\ 316\\ 446\\ 232\\ 72\\ 687\\ 7,961\\ 1,606\\ 2,509 \end{array}$	9,053 68 603 3,324 258 886 445 454 252 84 945 3,069 423 1,566	$\begin{array}{r} \textbf{384,760}\\ \textbf{3,016}\\ \textbf{25,772}\\ \textbf{162,854}\\ \textbf{12,601}\\ \textbf{42,648}\\ \textbf{21,806}\\ \textbf{22,254}\\ \textbf{13,572}\\ \textbf{4,410}\\ \textbf{45,563}\\ \textbf{110,291}\\ \textbf{15,517}\\ \textbf{67,310} \end{array}$	$\begin{array}{c} \textbf{7,169}\\ \textbf{98}\\ \textbf{355}\\ \textbf{4,749}\\ \textbf{439}\\ \textbf{1,090}\\ \textbf{504}\\ \textbf{588}\\ \textbf{539}\\ \textbf{245}\\ \textbf{1,344}\\ \textbf{908}\\ \textbf{168}\\ \textbf{891} \end{array}$	$\begin{array}{r} \textbf{2,331,163}\\ \textbf{36,590}\\ \textbf{117,548}\\ \textbf{1,612,416}\\ \textbf{156,381}\\ \textbf{334,492}\\ \textbf{166,712}\\ \textbf{196,048}\\ \textbf{213,024}\\ \textbf{97,319}\\ \textbf{448,440}\\ \textbf{238,173}\\ \textbf{46,788}\\ \textbf{279,648} \end{array}$	$\begin{array}{c} \textbf{1,261}\\ \textbf{43}\\ \textbf{70}\\ \textbf{900}\\ \textbf{93}\\ \textbf{123}\\ \textbf{71}\\ \textbf{122}\\ \textbf{142}\\ \textbf{94}\\ \textbf{255}\\ \textbf{114}\\ \textbf{17}\\ \textbf{117} \end{array}$	3,035,055 (°) 174,398 2,140,792 210,228 (°) (°) 360,301 295,382 557,304 291,087 29,834 (°)	68 1 3 48 3 1 2 6 6 10 21 5 10 0 0 6	1,429,566 (P) 50,683 930,448 56,836 (P) (P) (P) 169,195 512,445 57,094 342,800 0 (P)

less than 0.5 percent

Despression of percent.
 Psuppressed to avoid disclosure of data of individual companies.
 Refers only to parents and affiliates that had employees. There were 367 parents and 2971 affiliates that had no employees. See text for discussion

U.S. parents

Employment of U.S. parents was highly skewed toward the larger companies. Parents having over 1,000 employees accounted for 97 percent of the employment of all parents, but for only about one-half of the number of parents. Parents in the largest employment size class-over 10.000 employees-accounted for 78 percent of the employment of parents, but for only 13 percent of the number. In every industry except mining, where the proportion was much lower, parents in the largest employment size class accounted for at least two-thirds of total employment. The proportion was highest, at 94 percent, in transportation equipment. The dominance of the larger companies in the U.S. parent data reflected the considerable technological, managerial, financial, and other resources ordinarily required to establish and sustain foreign operations.

Employment of all U.S. businesses, like that of U.S. parents, was also highly skewed toward the larger companies. However, the larger companies accounted for a much lower share of total employment for all U.S. businesses than for U.S. parents. Of all U.S. businesses covered by *Enterprise Statistics*, those with at least 1,000 employees accounted for 43 percent, and those with at least 10,000 employees for 29 percent, of total employment; a negligible proportion of the number of U.S. businesses fell into each of these employment size classes.⁹

For all industries combined, mean, or average, employment of U.S. parents was 6,175. Among the six major industries, average employment was lowest in mining (2,253) and highest in "other industries" (6,779), followed closely by trade (6,609) and manufacturing (6,406). The high average employment in "other industries" was partly due to the very high employment of a few parents in communications.

Within manufacturing, average employment of U.S. parents was by far the highest—27,250—in transportation equipment, which contained most of the Nation's largest manufacturers of automobiles, trucks, aircraft, and parts. It was lowest-4,709-in "other manufacturing."

The median employment of parents was 948, compared with the average employment of 6,175. The large difference reflected the above-mentioned highly skewed character of the universe. For each industry shown in table 5 as well, median employment was considerably lower than average employment.

Among the six major industries, median employment ranged from 180 in finance (except banking), insurance, and real estate to 1,242 in manufacturing. Within manufacturing, it ranged from 1,051 in nonelectrical machinery to 6,436 in transportation equipment.

The coefficient of variation—the ratio of the standard deviation to the mean—indicates the relative dispersion of parent or affiliate employment around the average; the larger the coefficient, the higher the dispersion. For all parents, the coefficient was about 2. Among the six major industries, it ranged from 1.5 in mining to 5.8 in "other industries." The high dispersion in "other industries" apparently reflected the diversity of activities included in that industry, rather than diversity among compa-

Foreign Affiliates, by Industry and Employment Size Class, 1977

					Size c	lasses						Su	mmary statis	tics	
						Per	cent					Number of	employees		
To	tal	1-	-10	11-	-100	101-	1,000	1,001-	10,000	Over	10,000			Coefficient	Line
Parents or affiliates	Employees	Parents or affiliates	Employees	Parents or affiliates	Employees	Parents or affiliates	Employees	Parents or affiliates	Employees	Parents or affiliates	Employees	Mean	Median	of variation	
100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	5 7 10 (*) (*) (*) (*) 1 1 1 9 34 4	000000000000000000000000000000000000000	$ \begin{array}{c} 11\\ 17\\ 6\\ 4\\ 8\\ 9\\ 6\\ 4\\ 4\\ 6\\ 28\\ 13\\ 11\\ 11 \end{array} $	000000000000000000000000000000000000000	35 28 29 39 31 39 40 43 38 16 40 40 33 38 38 38 38 38 38 38 38 36 20 33	3 8 2 3 2 3 4 3 (*) 4 2 3 2	$egin{array}{c} 36 & 45 \ 30 & 40 \ 40 & 33 \ 340 & 42 \ 446 & 41 \ 39 & 17 \ 17 & 24 \ 41 \ \end{array}$	20 (⁰) 18 21 19 29 28 26 5 26 5 26 9 25 (^b)	13 3 13 15 25 21 11 9 11 39 14 11 9 12	78 (⁰) 80 76 80 78 68 68 68 68 68 71 94 70 89 72 (⁰)	6,175 2,253 5,672 6,406 9,078 6,225 5,358 4,832 5,713 27,250 4,709 6,609 3,533 6,779	948 984 652 1,242 2,525 1,272 1,126 1,051 1,294 6,436 1,141 201 180 1,150	2.08 1.50 3.06 3.23 1.61 1.89 2.60 2.94 3.58 2.61 2.04 4.37 2.99 5.78	1 2 3 4 5 6 7 7 8 9 10 11 12 13 3 14
100 100 100 100 100 100 100 100 100 100	100 100 100 100 100 100 100 100 100 100	15 11 25 4 4 4 5 6 3 3 3 4 4 26 41 17		44 29 44 35 31 40 41 36 26 18 36 56 41 51	5 2 7 3 3 7 6 4 2 1 4 4 11 17 10	$\begin{array}{c} 35\\41\\26\\50\\53\\50\\47\\47\\55\\54\\51\\17\\16\\29\end{array}$	$\begin{array}{c} 32\\ 20\\ 32\\ 33\\ 36\\ 55\\ 42\\ 31\\ 28\\ 11\\ 40\\ 24\\ 50\\ 40\\ \end{array}$	6 18 5 5 10 11 6 7 7 10 15 21 10 10 2 2 2 4	42 (^b) 47 44 48 (^b) (^b) (^b) (^b) 48 33 50 29 32 (^b)	$ \begin{array}{c} (\bullet) \\ (\bullet) \\ 1 \\ (\bullet) \\ (\bullet) \\ 1 \\ 1 \\ 5 \\ (\bullet) \\ (\bullet) \\ 0 \\ (\bullet) \\ (\bullet$	20 (^b) 14 19 13 (^b) (⁰) (⁰) 22 56 5 5 35 (•) (^e)	348 792 270 514 530 280 367 503 775 1,986 417 180 91 228	66 180 43 150 184 123 116 130 256 361 149 25 18 50	4.87 2.63 3.89 3.55 2.83 1.90 2.76 2.85 2.68 3.13 2.17 11.27 3.02 3.56	15 16 17 18 19 20 21 22 23 24 25 26 27 28

^{9.} U.S. Department of Commerce, Bureau of the Census, 1977 Enterprise Statistics: General Report on Industrial Organization (Washington, D.C.: U.S. GPO, 1981), p. 146.

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nies engaged in similar activities. Within manufacturing, the coefficient ranged from 1.6 in food to 3.6 in electrical machinery.

Foreign affiliates

Employment of affiliates, like that of parents, was skewed toward the larger companies, although not to the same extent.¹⁰ Also, foreign affiliates tended to have much lower employment than their U.S. parents. For the typical MNC, employment of the parent greatly exceeded the combined employment of its foreign affiliates, which was, in turn, usually spread among several individual affiliates.

More than 60 percent of affiliate employment was accounted for by affiliates that had over 1,000 employees; these affiliates accounted for only 6 percent of the total number of affiliates. The affiliates in the largest size class—over 10,000 employees—accounted for 20 percent of the employment, but for only a negligible proportion of the number, of all affiliates.

Among the six major industries, the proportion of employment accounted for by affiliates that had over 1,000 employees was highest-around 80 percent-in mining and lowest-less than one-third—in finance (except banking), insurance, and real estate. In manufacturing, the proportion was highest-nearly 90 percent-in transportation equipment and lowest-less than 40 percent-in chemicals. Although economies of scale were important in both industries, they appeared less so in chemicals. Also, much more labor intensive techniques were employed in transportation equipment than in chemicals, as can be seen by comparing the value of affiliates' net property, plant, and equipment per employee in the two industries. It was \$8,917 in transpor
 Table 6.—Employment in Manufacturing (Including Petroleum and Coal Products) by All

 Manufacturing Establishments and by Foreign Affiliates in 10 Developed Countries, 1977

[Thousands of employees, or percent]

	All manufac-	All affiliates	Major- ity- owned	Foreign as percent manufa establis	tage of all cturing
	turing establish- ments	in manu- facturing	affiliates in manu- facturing	All affiliates	Major- ity- owned affiliates
Belgium Canada Denmark France Germany	966 1,714 468 10,467 8,383	120 657 11 368 498	95 597 9 298 439	$12 \\ 38 \\ 2 \\ 4 \\ 6$	10 35 2 3 5
Italy Japan Netherlands Sweden United Kingdom		$175 \\ 202 \\ 100 \\ 26 \\ 829$	151 40 75 19 723	4 2 9 3 6	3 * 7 2 5

*Less than 0.5 percent.

Note.—Estimates for manufacturing establishments were prepared by the Office of Productivity and Technology, Bureau of Labor Statistics, U.S. Department of Labor. Definition and coverage of employment by all manufacturing establishments differ slightly among countries.

tation equipment, compared with \$24,988 in chemicals.

Affiliates in the two smallest size classes (100 or fewer employees) accounted for only 6 percent of employment, although they accounted for nearly 60 percent of the total number of affiliates. The proportion of employment accounted for by affiliates in these size classes exceeded 10 percent in only two industries—finance (except banking), insurance, and real estate (18 percent) and trade (12 percent). Both industries contained many affiliates established to perform some limited function, requiring only a few employees, within the MNC.

Average employment for affiliates in all industries combined was 348. Among the six major industries, average employment ranged from 91 in finance (except banking), insurance, and real estate to 792 in mining. Within manufacturing, it ranged from 280 in chemicals to 1,986 in transportation equipment.

Reflecting the skewed distribution, median employment of affiliates, at 66, was considerably lower than average employment. Among the six major industries, median employment ranged from 18 in finance (except banking), insurance, and real estate to 180 in mining. Within manufacturing, it ranged from 116 in primary and fabricated metals to 361 in transportation equipment.

The coefficient of variation of employment for affiliates was 4.9, much higher than that for U.S. parents. The higher dispersion of affiliate employment reflected wider variation in market size for affiliates, which were spread among many countries, than for parents, which, by definition, were all in the United States. It may also have reflected wider variation among foreign countries than within the United States in several other determinants of company size—such as relative prices of factors of production, availability of skilled labor and trained management, ability to utilize available technology, government regulations, and infrastructure.

Among the six major industries, the coefficient of variation ranged from 2.6 in mining to 11.3 in trade.¹¹ Within manufacturing, it ranged from 1.9 in chemicals to 3.1 in transportation equipment.

Affiliates' Shares of Total Foreign Manufacturing Employment

In table 6, affiliate employment in manufacturing is compared with employment by all manufacturing establishments in 10 developed countries for which consistently defined, reasonably comparable data were readily available. To conform to the treatment in the data for all manufacturing establishments, the petroleum

^{10.} Differences in skewness could not confidently be ascertained by inspection of table 5 alone because of the limited number of size classes and differences between parents and affiliates in average employment. Instead, Karl Pearson's measure of skewness was used. The measure is 3 multiplied by the difference between the mean and the median, all divided by the standard deviation. Positive values indicate positive skewness; negative values, negative skewness. By definition, the measure cannot exceed 3 in absolute value; in practice, values larger than 1 are said to be uncommon. The measure had a value of 1.22 for parents and 0.50 for affiliates. See Frederick E. Croxton and Dudley J. Cowden, *Practical Business Statistics* (Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1960), p. 259.

^{11.} The coefficient for trade was significantly inflated by the previously mentioned misclassification of a minority-owned affiliate in wholesale trade. However, even if the affiliate's classification could have been corrected, trade would still have shown the most variable employment of any major industry.

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and coal products industry, which is normally included in the petroleum industry in the MNC data, was included in manufacturing in this able.¹² One comparability problem that could not be resolved was that the data covering all foreign manufacturing were for establishments classified in manufacturing, whereas the data for affiliates were for enterprises. or companies, classified in manufacturing. (A given enterprise may have consisted of several establishments, not necessarily all in manufacturing.) Although the difference in classification is likely to have caused only minor problems at the all-manufacturing level, it more or less precluded detailed comparisons for industries within manufacturing.13

Table 6 shows affiliate employment both for all foreign affiliates and for majority-owned foreign affiliates (MOFA's)—i.e., affiliates that were owned over 50 percent by their U.S. parents and that were thus presumed to be unambiguously under parent control.¹⁴

The share of all affiliates in total foreign manufacturing employment was considerably higher in Canada, at 38 percent, than in any of the nine other countries. Both Canada's proximity to, and strong economic ties with, the United States probably contributed to the particularly high affiliate share. The next highest affiliate shares were in Belgium (12 percent) and the Netherlands (9 percent). The lowest shares were in Denmark and Japan (2 percent in each).

Shares for the MOFA's were highest and lowest in the same countries as shares for all affiliates. In most cases, the shares were only moderately lower for MOFA's than for all affiliates, because MOFA's generally accounted for a large share of all-affiliate employment in manufacturing. A notable exception was in Japan, where the MOFA share of all-affiliate employment was only about 20 percent. The unusually low MOFA share in Japan largely reflected that country's restrictions, which had only recently been liberalized, on majority ownership by foreigners. It also reflected the existence of a few large minority-owned Japanese affiliates in which the purpose of U.S. parents' investment was primarily to further trading relationships, rather than to control the enterprises.

Although comparable data covering developing countries could not be obtained, rough estimates were made for a few countries using data published by the Bureau of Labor Statistics.¹⁵ The estimates were constructed by multiplying the number of persons in the labor force by the percentage of the labor force engaged in manufacturing. The estimates overstate manufacturing employment to the extent that the labor force data included unemployed persons. Also, inconsistencies in coverage and definitions appeared larger for these countries than for the 10 developed countries shown in table 6. Although none of these comparability problems can be quantified or corrected here, the estimates nevertheless roughly indicate the relative shares of affiliates in total manufacturing employment in developing countries. These shares were about 11 percent in Venezuela, 9 percent in Mexico, 4 percent in Taiwan, and 1 percent in both Israel and Korea.

Compensation Per Hour of Production Workers in Manufacturing

Table 7 shows compensation per hour worked (CPH) by production workers in manufacturing and in petroleum and coal products for both U.S. parents and their MOFA's.¹⁶

The compensation rates indicate comparative levels of employer labor costs. They do not reliably indicate relative living standards of workers for several reasons, including the fact that prices of goods and services, particularly those not traded internationally, vary greatly among countries. Also, it should be noted that CPH indicates only labor cost per unit of time worked, not per unit of output. The two measures may vary independently because of variations in productivity. Estimates of unit labor costs will be derivable after BEA has completed a project to estimate gross product originating in (i.e., value added by) U.S. parents and their MOFA's.

For U.S. parents in manufacturing, CPH of production workers was \$8.76. For parents in petroleum and coal products, it was slightly higher, at \$9.06. Within manufacturing, CPH ranged from \$6.50 in food to \$11.44 in transportation equipment.

For foreign affiliates in manufacturing, CPH of production workers was \$4.92. For affiliates in petroleum and coal products, it was markedly higher, at \$8.63. Within manufacturing, CPH ranged from \$3.42 in food to \$6.14 in transportation equipment.

In every industry shown in table 7, CPH was lower for foreign affiliates than for U.S. parents. This probably reflected the tendency for overall compensation rates in most foreign countries to be lower than in the United States, whether the comparison is restricted to U.S. MNC's or not.

In manufacturing, affiliate CPH was 56 percent of that for U.S. parents. In petroleum and coal products, it was 95 percent of the parent rate: the average rate for affiliates in this industry was boosted by the very high compensation of employees who possessed specific scarce skills, for which the market was effectively international, or who were willing to work under difficult or hazardous conditions, often in remote areas. Within manufacturing, affiliate CPH as a percentage of parent CPH ranged from 49 percent in electrical machinery to 71 percent in nonelectrical machinery. The higher percentage in nonelectrical machinery largely reflected the particularly high concentration of affiliate employment in that industry in developed countries where, as noted below, rates were

^{12.} Because of the importance of petroleum affiliates in the direct investment universe and the need for analyzing the petroleum industry as a whole, the various stages of petroleum production—exploration, extraction, refining, and distribution—usually are treated as components of a single major industry group (petroleum) in direct investment statistics. In most other statistics, the various stages are classified in different groups—extraction is included in mining, refining in manufacturing, and so forth.

See Betty L. Barker, "A Profile of U.S. Multinational Companies in 1977," SURVEY 61 (October 1981): 42-45.

^{14.} The coverage of the data for MOFA's was restricted to those having assets, sales, or net income of at least \$3 million; this restriction facilitated comparisons with other data in the benchmark survey that were collected only for these affiliates. The coverage lost by this restriction was small (only about 3 percent of total MOFA employment).

^{15.} U.S. Department of Labor, Bureau of Labor Statistics, *Handbook of Labor Statistics* (Washington, D.C.: U.S. GPO, December 1980), table 177.

^{16.} Data needed to compute CPH in other industries were collected in the benchmark survey, but they were not considered to be of publishable quality (see U.S. Direct Investment Abroad, 1977, p. 12). Because the number, hours worked, and compensation of production workers were not collected for minority-owned affiliates, CPH of their production workers could not be computed.

Table 7.—Compensation per Hour of Production Workers of U.S. Parents and Majority-Owned Foreign Affiliates in Manufacturing, 1977, Country by Industry

[Dollars per hour]

				Manufa	acturing				Adde
	Total	Food and kindred products	Chemi- cals and allied products	Primary and fabricat- ed metals	Machin- ery, except electri- cal	Electric and electron- ic equip- ment	Trans- portation equip- ment	Other manu- facturing	dum- petro leum and co produc
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
U.S. parents	8.76	6.50	8.45	10.05	8.59	7.36	11.44	7.16	9
Foreign affiliates, all countries	4.92	3.42	5.10	5.67	6.13	3.60	6.14	4.70	8
eloped countries	6.34	5.46	6.53	6.81	6.86	5.88	6.71	6.00	9
anada	8.31	6.95	8.27	9.81	9.03	7.15	9.29	7.80	10
urope	5.89	4.97	6.26	5.70	6.57	5.76	6.17	5.37	
European Communities (9)		5.09	6.42	5.68	6.53	5.86	6.28	5.37	
Belgium Denmark	8.00	7.30 4.92	10.44 (^D)	7.04 (^D)	9.30 (^D)	8.22 7.51	(^D)	(^D) (^D)	1
France Germany	7.04	6.40 7.38	6.11 8.97	6.50 7.49	7.89 9.08	6.80 7.51	7.73 8.90	6.19 8.06	1
Ireland	3.36	2.61	5.06	2.68	3.22	2.90	(P) 5.93	3.40	
Italy Luxembourg	8.97	5.92	6.25 (^D)	5.42 (^D)	6.41 8.04	5.89 (^D)		5.28 (^b)	l
Netherlands United Kingdom		7.92 3.58	9.05 3.85	7.29	8.59 4.27	6.98 3.90	(^Þ) 3.88	(^D) 3.59	
Other Europe	5.30	3.72	4.95	6.02	7.23	5.33	4.81	5.37	
Austria Greece	6.58	4.36 (^D)	(^D) 3.80	(D) (D)	(D)	(^D) 2.68	(D)	8.31 2.48	
Norway	9.16	2.30	. 7.83 (^D)	(Þ)	(^D) (^D)	(^b)	(^D)	8.50 2.47	
Spain	4.82	3.83	4.92	4.79	4.45	5.07	4.90	4.44 (P)	
Sweden	7.24	(^D) (^D)	10.11 7.49	8.04 (^D)	11.00 8.80	(^b) 7.87	8.45	7.06	
Turkey Other		(D)	(^D)	(D)		(^D) (^D)	(^D)	(^D) (^D)	l
pan	7.37	6.58	6.11	7.91	8.61	6.07	(^D)	5.93	
ustralia, New Zealand, and South Africa		3.91	4.85	3.80	4.81	3.69	5.31	3.99	
Australia	6.10	6.14	6.25	5.35	6.45	6.20 2.65	6.18 (^D)	5.79	1
New Zealand South Africa	3.12 1.80	2.89 1.24	3.10 2.06	2.10	4.19 2.95	1.55	(^b)	(^D)	
eloping countries		1.00 1.16	2.52 2.73	2.36 2.39	2.53 2.96	1.10 1.63	2.91 3.00	1.77 2.17	
South America		1.88	2.78	2.54	3.05	1.82	2.97	2.27	
Argentina Brazil	2.28	1.22 1.91	2.16 3.03	2.37 2.25	3.25 3.02	1.66 1.75	3.29 2.69	1.93 1.99	
Chile	2.30	(P) 1.78	4.12	1.97 (^D)	(^D)	(D) (D)	(^D)	(^D) 2.59	
Ecuador	1.94	1.92	1.62	(Þ)	(^b)	(^D)	(P)	(^D) 2.75	1
Peru Venezuela	3.63	1.65 2.75	1.82 4.11	3.28	(²) (^D)	1.50 2.89	4.42	3.97	
Other		1.02	(^D)	(^D)		(^D)	(^D)	(^D)	
Central America		(^D) 1.60	2.57 2.68	1.96 1.96	2.59 2.59	1.42 1.46	3.13 3.15	(^D) 2.04	
Panama Other	2.13	(D) (D)	2.56 1.59	1.91	· · · · ·	1.10	(^D)	(^D) (^D)	
Other Western Hemisphere		(^D)	3.19	(^D)		(^D)		(^D)	
Bahamas	(D)	(P)	(^D)				•••••		
Bermuda Netherlands Antilles		(^D)	(^D)						
Trinidad and Tobago Other	(D) (D)	(D) (D)	4.54	(^D)		(^D)	•••••	(^b)	
her Africa		.43	1.84	(^D)	(^D)	1.17	(^D)	(^D)	
Saharan Egypt	(P)	(^D)	(^D)	(P)	(^D)			4.21	
Libya Other	(^D)	(^D)	(^D)	(^D)	(^D)			4.21	
Sub-Saharan		.43	1.86	(^D)		1.17	(^D)	(^D)	
Liberia	(^D)	(^D)		(^e)			(-)		
Nigeria Other	2.05 (^D)	.42	2.21 1.35	(⁰)		(^D) .84	(^D)	(^D) (^D)	
ddle East	4.08	(⁰)	3.98		. (^D)	3.13		(^D)	
israel	4.70	(^D)	4.70		. (D) (D)	3.44 (^D)		(^D)	
Iran Other	(^D)		. 3.28 (^D)		(^D)	(P)			·
Other		(^D)	(¤)		. (e)			••••••	
her Asia and Pacific		.55 (^D)	1.37	(^D)	(^D)	.77	1.57	.74	
Hong Kong India	1.27 	(^D)	3.29 (^D)	(^D)		1.28 (^P)		. 1.43 . (^D)	ļ
Indonesia Malaysia		(D) (D)	1.06 1.74	(^D) (^D)	(D)	45 .58	(^D)	. 1.01 (^D)	
Philippines Singapore		.48 (^D)	1.23 (^D)	(D) (D)	1.78	.58 .48 .80	(^D)	(D) (D)	
South Korea	1.39	(^P) 1.15	(^D)		(^D)	1.47	(^D)	. (D)	
Thailand		.82	1.61	(^D)		62 (^D)	(°)	.65 1.09	
bther		(^D)	(^D)			. (^D)		. (^D)	
national		ł	+			+			· · · · · · ·
ndum-OPEC	2.91	2.68	3.22	3.24	(^D)	1.51	4.42	3.05	1

^pSuppressed to avoid disclosure of data of individual companies.

generally much higher than in developing countries.

For all affiliates in manufacturing, CPH was much higher in developed Sountries than in developing countries—\$6.34 compared with \$1.74. CPH also varied considerably among the countries within each area group, but there was relatively little overlap in rates between the groups; thus, only a few of the highest rates for individual developing countries exceed-

Table 8.—Analysis of Variance of Compensation Per Hour of Production Workers of Majority-Owned Foreign Affiliates in Manufacturing, 1977

	_	· · · · · · · · · · · · · · · · · · ·			
Source of variation	Line	Sum of squares	De- grees of free- dom	Mean square ¹	F ratio ²
All countries					
			ļ		
Total	1	7,408	308		
Mean, rows, and columns Partial analysis of mean-row- column	2	6,987	63		
variation: ³ Increment supplied by rows (countries)	3	2,031	56	36.27	21.10
Increment supplied by	0	2,031	- 00	50.21	21.10
columns (industries)	4	61	6	10.08	5.87
Residual	5	421	245	1.72	
Developed countries					
Total	6	6,268	147		
Mean, rows, and columns Partial analysis of mean-row-	7	6,004	29		
column variation: ³ Increment supplied by rows (countries) Increment	8	741	22	33.67	15.05
supplied by columns (industries)	9	35	6	5.81	2.60
Residual	10	264	118	2.24	
Developing countries					
Total	11	1,140	161		
Mean, rows, and columns Partial analysis of mean-row-	12	989	40		
column variation: ³ Increment supplied by rows					
(countries) Increment supplied by columns	13	216	33	6.54	5.24
(industries)	14	32	6	5.33	4.27
Residual	15	151	121	1.25	

NOTE.—Data are from table 7.

Sum of squares divided by degrees of freedom. E. Ratio of row or column mean square to residual mean

E. Ratio of row or column mean square to residual mean square. 3. Because some cells in table 7 contain no data, it is not possible to factor the mean-row-column variation neatly into mean effects, row effects, and column effects. See Franklin A. Graybill, An Introduction to Linear Statistical Models, Vol. I (New York: McGraw-Hill Book Co., Inc., 1961), Chapter 13 ("Two-Way Classification with Unequal Numbers in Sub-classes"). ed the lowest rates for individual developed countries.

In petroleum and coal products, the rates were much closer together-\$9.57 and \$6.67, respectively. In the developing countries, many employees in petroleum had been recruited from developed countries, because workers with their specific skills were not available locally. Thus, their compensation rates did not reflect local labor market conditions but rather buoyant conditions in an international market for workers with such skills. Often the rates these workers were paid included a premium needed to induce them to work in a foreign country. This appeared particularly true of the Middle East, which accounted for a large share of employment of affiliates in petroleum and coal products.

Inspection of table 7 suggests that the differences in CPH among countries for all manufacturing industries combined also extended across industries within manufacturing. Thus, they were not exclusively due to differences in the extent to which employment was concentrated in highor low-wage industries. For example, CPH was higher in Canada than in the United Kingdom in all seven manufacturing industries shown in the table. Although the difference in any given industry may have reflected differences in mix among subindustries, the overall pattern more likely reflected the fact that labor was not homogeneous internationally, and that world markets were not sufficiently integrated to eliminate intercountry differences in prices of the various factors of production, including labor.

Table 7 also suggests, although more tentatively, that differences in CPH among manufacturing industries tended to extend across country lines. One reason may be that, because of differences in technology or other factors, workers in some industries were more likely to be highly skilled (or, in some instances, highly organized) than those in other industries, regardless of the country in which they were employed.

To confirm and quantify these country and industry effects on CPH, statistical analysis of variance (AOV) was applied to the rates shown in table 7 for individual countries and for individual industries within manTable 9.—Compensation Per Hour of Production Workers in Manufacturing (Including Petroleum and Coal Products) in Selected Countries, 1977

(Dollars)

	All foreign busi- nesses	Major- ity- owned foreign affiliate
selected developed countries:		
Canada	7.55	8.4
Belgium	8.38	8.1
Denmark	7.28	6.6
France	5.42	7.0
Germany.	7.70	8.5
Ireland	3.24	3.3
Italy	5.13	5.9
Luxembourg	8.31	8.9
Netherlands	8.11	8.2
United Kingdom	3.34	3.8
Austria	5.19	6.5
Greece	1.91	2.7
Norway	8.49	9.4
Portugal	1.58	2.3
Spain	3.19	4.8
Sweden	8.85	9.1
Switzerland	6.87	7.2
Turkey	.80	3.1
Japan	4.03	7.3
Australia	5.77	6.1
New Zealand	3.24	3.1
elected developing countries:		
Brazil Mexico Venezuela	$1.46 \\ 1.75 \\ 2.20$	2.3 2.0 3.6
Hong Kong	.99	1.2
India	.32	.8
Israel	2.68	4.7
Singapore	.82	1.0
South Korea	.63	1.3
Taiwan	.66	.6

NOTE.-Estimates for all foreign businesses are unpublished ones prepared by the Office of Productivity and Technology, Bureau of Labor Statistics, U.S. Department of Labor.

ufacturing.¹⁷ The AOV results indicated the existence of country differences in CPH over and above those that might have been due to differences among countries in the industry distribution of employment. This is shown by the highly significant F

(continued on p. 60)

The hypotheses tested using AOV were (1) that the row (country) means computed from table 7 were equal to one another, and (2) that the column (industry) means were equal. (Subtotals were excluded in computing the means.) If, for instance, the hypothesis of equal row (country) means were accepted, then systematic differences among countries in CPH in each industry would have been ruled out as an explanation for differences at the all-industries level, and the presumption would have been that these differences resulted from differences in industry mix. If, however, the hypothesis were rejected (as was in fact the case), then one would have concluded that, whatever the effect of industry mix, systematic differences among countries in CPH in each industry had an effect on the differences at the all-industries level.

^{17.} The routine used was one specifically applicable to a table such as table 7, in which some of the cells contain no data. See Franklin A. Graybill, *An Introduction to Linear Statistical Models*, Vol. I (New York: McGraw-Hill Book Co., Inc., 1961), Chapter 13 ("Two-Way Classification with Unequal Numbers in Subclasses").

Pollution Abatement and Control Expenditures, 1972-80

KEAL spending for pollution abatement and control (PAC) showed almost no change in 1980, compared with a 1-percent increase in 1979 and a 5-percent average annual rate of increase during 1972-79 (chart 5). According to the PAC fixed-weighted price index, prices for goods and services increased 13 percent in 1980, more than in any year since 1974.

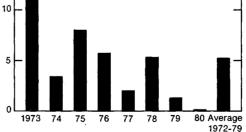
This article discusses real PAC spending and prices in 1980 and evaluates the limited data available for 1981. It also presents revised estimates of PAC spending for 1972-79, and discusses trends in real spending since 1972.

PAC expenditures are for the reduction of pollutant emissions and the collection and disposal of solid wastes by means acceptable to Federal, State, and local authorities. PAC expenditures consist of those for pollution abatement (PA), which reduce pollutant emissions directly, plus expenditures for regulation and monitoring and for research and development, which lead indirectly to the reduction of emissions. Expenditures for other aspects of environmental control, such as expenditures for natural resource conservation or protection of endangered species, are excluded. Pollutants are defined as substances and other emissions (e.g., noise) that degrade the quality of air or water shared by all.

Real PAC spending in 1980.—In sharp contrast to the increase in each of the previous 9 years for which estimates are available, real spending for PAC showed almost no change in 1980. Air PAC spending increased 7 percent, to \$11.2 billion, and solid waste PAC spending increased 1 percent, to \$4.5 billion. Water PAC spending fell to \$10.9 billion, a 7-percent decrease.

Most of the \$0.8 billion increase in air PAC spending was for purchases of motor vehicle emission abatement devices. This change in purchases of abatement devices is shown in table 1 as increases in personal consumption expenditures for durables and in business expenditures on capital account; it appears in table 2 under business capital account, and in table 6 under mobile sources. Although unit sales of motor vehicles decreased, relatively expensive improvements in abatement devices caused a near-record increase in spending for them. The improvements were in both catalytic and noncatalytic devices on 1980 model year cars and light-duty trucks. Even more expensive improvements, including the addition of computerlike electronic equipment that regulates engine operation, were made on many 1981 model year cars, which





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

were sold in the fourth quarter of $1980.^{1}$

The remaining increase in air PAC spending was for industrial plant and equipment and spending by business on current account. The only significant decrease in air PAC spending was in personal consumption expenditures for nondurables (operation of emission abatement devices on motor vehicles).

Most of the increase in solid waste PAC was in current-account expenditures (labor, materials, and services).² Small increases in spending for capital and for regulation and monitoring were more than offset by a decrease in State and local government spending for solid waste collection and disposal.

Of the \$0.8 billion decrease in water PAC spending, one-half was in construction of public sewer systems. This change in spending for sewer construction is shown as a decrease in government enterprise fixed capital in table 1, is shown separately in table 2, and is shown in table 7 as part of spending for public sewer systems and private connectors. This decrease occurred despite a 1979 increase in Federal funding (table 4). State and local long-term borrowing for public sewer systems decreased in

^{1.} Catalytic devices use noble metal (e.g., rhodium) catalysts to decrease carbon monoxide and hydrocarbon emissions; advanced devices also decrease nitrogen oxide emissions.

^{2.} Solid waste PAC, i.e., the collection and disposal of solid waste by acceptable means, is contrasted table 8 with related solid waste series. For further discussion, see Gary L. Ruthledge and Susan L. Trevathan, "Pollution Abatement and Control Expenditures, 1972-79," SURVEY OF CURRENT BUSINESS 61 (March 1981): 27.

1978 and decreased sharply in 1979, the result of persistently high interest rates.

More than one-half of the remaining decrease in water PAC spending was to install private septic systems and connectors to public sewers (residential systems), shown in table 2. This change in residential system spending reflects the decrease in residential construction activity in 1980. The remainder of the decrease was in industrial plant and equipment spending for PA and spending on current account to operate PA plant and

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			_	1972'				_	1973 <i>'</i>					1974'		
	Line	Total	Air	Water	Solid waste	Other and unallo- cated ²	Total	Air	Water	Solid waste	Other and unallo- cated ²	Total	Air	Water	Solid waste	Other and unallo- cated ²
							М	illions of	current do	ollars						
Pollution abatement and control	12	18,434 17,245	6,482 5,808	8,727 8,440	3,462 3,421	236 424	21,930 20,537	8,321 7,572	10,089 9,731	3,745 3,697	- 225 - 463	26,261 24,678	10,446 9,665	11,634 11,235	4,373 4,311	-193 -53
Personal consumption Durable goods	3	1,536 476	$1,536 \\ 476$				2,065 670	2,065 670				2,667 690	2,667 690			
Nondurable goods and services Business	5	1,060 10,960	$1,060 \\ 4,153$	4,957	2,277	- 428	1,395 13,097	$1,395 \\ 5,378$	5,770	2,419	470	1,977 15,527	1,977 6,840	6,354	2,870	- 53
On capital account On current account	7	5,399 5,561	2,366 1.787	2,723 2,235	$310 \\ 1,967$	- 428	$6,766 \\ 6,331$	$3,264 \\ 2,114$	3,158 2,612	344	-470	7,436	3,810 3,029	3,205 3,149	421 2,450	53
Private	9	4,838	1,764	1,107	1,967		5,459	2,085	1,299	2,074		6,994	2,973	1,572	2,450	
Government enterprise Costs recovered	10 11	$1,151 \\ -428$	23	1,128	(*)	(*) 428	1,342 470	29	1,313	(*)	(*) -470	1,635 - 538	56	1,577	(*)	53
Government Federal	12 13	4,749 139	119 56	3,483 75	1,144	3	5,375 203	129 47	3,961 133	1,278	66	6,484 294	158 56	4,881 196	1,441 39	
State and local	14	1,311	(*)	171	1,140	ભઁ	1,433	(*)	171	1,262	(*)	1,591	(*)	189	1,403	0
Government enterprise fixed capi- tal	15	3,299	63	3,237			3,738	82	3,657	 	}	4,598	102	4,496		
Regulation and monitoring	16 17	367 200	143 48	144 79	14 9	66 64	490 278	165 50	190 99	18 14	117 115	595 346	183 52	247 135	27 22	13 13
Federal	18	167	95	66	5	2	212	115	91	4	2	248	131	112	5	(*
Research and development Private	. 19 20	823 519	531 411	142 64	$\frac{27}{12}$	122 32	903 569	583 451	168 73	30	122 35	988 608	599 492	153 57	35 13	20
Federal	21	205	104	34	6 10	62	269	126	62	11	69	342	100	78	17	14
State and local	22	99	17	44	10	28	65	6	33 stant (1972	9	18	39	7	. 18	5	
									·	·	,	г- -	r			
Pollution abatement and control Pollution abatement ³	23 24	18,434 17,245	6,482 5,808	8,727 8,440	3,462 3,421	-236 -424	20,603 19,298	$7,832 \\ 7,130$	9,459 9,124	3,489 3,445	177	21,307 19,951	8,092 7,428	9,659 9,315	3,640 3,587	8 37
Personal consumption	. 25	1,536	1,536				1,965	1,965				2,116	2,116		·····	
Durable goods Nondurable goods and services	$ \begin{array}{c} 26 \\ 27 \end{array} $	476 1.060	476 1,060				$670 \\ 1.295$	$670 \\ 1,295$			}	651 1,465	651 1,465			
Business	. 28 29	$10,960 \\ 5,399$	4,153	4,957 2,723	2,277 310	-428	$12,330 \\ 6,435$	$5,042 \\ 3,124$	5,441 2,981	2,254 330	-407	12,372 6,200	5,186 3,164	5,182 2,683	2,387 353	-38
On capital account On current account	30	5,561	$2,366 \\ 1,787$	2,235	1,967	- 428	5,895	1,918	2,460	1,925	-407	6,172	2,022	2,499	2,034	- 38
Private Government enterprise	31 32	4,838 1,151	$1,764 \\ 23$	$1,107 \\ 1.128$	1,967 (*)	(*)	$5,039 \\ 1,263$	1,893 25	$1,221 \\ 1,239$	1,925	·····	5,259 1,296	1,996 26	1,230 1,269	2,034 (*)	
Costs recovered	. 33	-428				- 428	-407				~407	- 383				38
Government Federal	34 35	4,749 139	119 56	3,483 75	1,144	3	5,002 190	123 45	3,683 124	1,190 16	6	5,463 245	127	4,133 165	1,200 32	
State and local	. 36	1,311	(*)	171	1,140	(*)	1,330	(•)	155	1,175	(Ť)	1,305	(Ť)	137	1,168	(*
Government enterprise fixed capi- tal	37	3,299	63	3,237			3,482	78	3,404			3,913	82	3,831		
Regulation and monitoring	. 38 . 39	367 200	143 48	144 79	14 9	66 64	456 259	154 47	177	17 13	109 107	515 303	157 45	214 118	23 19	12 12
Federal State and local	40	167	95	66	5	2	197	107	85	3	2	212	112	96	4	(
Research and development Private	41	823 519	$531 \\ 411$	142 64	27 12	122 32	849 535	548 424	158 69	28	115 33	840 512	507 415	130 48	30 11	17
Federal	. 43	205	104	34	6 10	62	253	118	59	11	65	294	86	67	15	12
State and local	. 44	99	17	44	10	28	61	6	31	8	17	34	6	16	4	
									it price de	·····						
Pollution abatement and control Pollution abatement	45 46	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 100.0	106.4 106.4	106.2 106.2	106.7 106.7	107.3	112.4 115.4	123.3 123.7	129.1 130.1	120.4 120.6	120.1 120.2	129. 140.
Personal consumption	. 47	100.0	100.0				105.1	105.1				126.0	126.0			ļ
Business On capital account	48 49	100.0 100.0	$\begin{array}{c} 100.0\\ 100.0\end{array}$	100.0 100.0	100.0 100.0	100.0	$106.2 \\ 105.1$	$106.7 \\ 104.5$	106.1 105.9	107.3 104.5	115.5	125.5 119.9	131.9 120.4	122.6 119.4	120.3 119.2	140.
On current account Government	50 51	100.0 100.0	$100.0 \\ 100.0$	100.0 100.0	$100.0 \\ 100.0$	100.0 100.0	$107.4 \\ 107.4$	$110.2 \\ 105.2$	106.2 107.5	107.8 107.4	115.5 106.7	131.1 118.7	149.8 125.1	126.0 118.1	120.5 120.1	140 121
Regulation and monitoring	52	100.0	100.0	100.0	100.0	100.0	107.4	107.5	107.3	107.2	107.4	115.4	116.2	115.5	115.0	114.
Research and development	53	100.0	100.0	100.0	100.0	100.0	106.4	106.4	106.2	106.5	106.3	117.6	118.2	116.9	117.1	116.
		·		1	Adder	ndum: Bus	siness capi	tal consur	nption all	owance (m	ullions of	dollars) ⁵	,		·	,
Valued at replacement cost in current dol- lars	. 54	1,831					2.195					2,839		}		
Valued at replacement cost in constant						[}				{		[
(1972) dollars	. 55	1,831	·····				2,094					2,391		Ì		h

^r Revised.
⁹ Preliminary.
[•] Less than \$500,000.
1. Includes expenditures for air and water pollution abatement and control. Includes expenditures for solid waste collection and disposal by means acceptable to Federal, State, and local attorities. Excludes agricultural production of crops and livestock except feedlots.
2. "Other" includes expenditures for abatement and control of noise, radiation, and pesticide pollution; "unallocated" includes business expenditures not assigned to media.
3. Expenditures are attributed to the sector that performs the air or water pollution abatement or solid waste collection and disposal.
4. Current-dollar estimates divided by constant-dollar estimates.
5. To facilitate conversion of expenditures to a cost basis.

equipment. The only significant increases in water PAC spending were current-account spending by government enterprises and spending for regulation and monitoring; together these increased almost \$0.1 billion.

Prices in 1980.—Prices of PAC goods and services, according to both the chain and fixed-weighted price indexes, increased 13.5 percent in 1980,

compared with 12.8 percent in 1979 (table 3). The acceleration of price change in 1980 was general, i.e., across most goods and services purchased for PAC.

Both the chain and fixed-weighted indexes are measures of pure price change in that they do not allow the composition of purchases to change and possibly obscure the effect of price movement. The chain index is based on the composition of PAC purchases in the immediately preceding year and the fixed-weighted index is based on their composition in 1972.

Prices of air PAC goods and services increased substantially more than those for other types of PAC in 1980, reflecting a relatively high concentration of energy purchases in air

Table 1.—Expenditures for Pollution Abatement a	٦d	Control in C	urrent
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			1975 · 1976 ·										1977 *				
	Line	Total	Air	1975 Water	Solid waste	Other and unallo- cated ²	Total	Air	1976 Water	Solid waste	Other and unallo- cated ²	Total	Air	Water	Solid waste	Other and unallo cated ²	
															Mil	llions of	
Pollution abatement and control Pollution abatement a Personal consumption Durable goods Nondurable goods and services. Business. On capital account On current account. Private. Government enterprise. Costs recovered. Government Federal. State and local Government Geral. Regulation and monitoring Federal. State and local	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 6 17 18	30.923 29,167 3,463 1,361 2,102 18,134 8,832 9,302 8,100 1,896 -693 7,570 432 1,752 5,387 653 381 272	12,840 12,053 3,463 1,361 2,102 8,403 4,790 3,613 3,568 45 188 88 1 100 206 66 66 66 139	13,561 13,117 7,349 3,627 3,722 1,872 1,872 1,850 5,768 5,768 5,768 210 5,287 219 153 126	4,741 4,666 3,075 415 2,660 2,659 (*) 1,591 1,591 1,541 32 26 6	- 692	32,677 3,994 1,821 2,173	14,162 13,279 3,994 1,821 2,173 9,029 4,774 4,255 4,197 2566 105 1 1 150 203 6 9 9135	15,513 15,006 8,653 4,229 4,424 2,162 2,162 6,353 257 204 5,892 328 151 177	5,286 5,220 3,539 466 3,074 3,074 (*) 1,681 52 1,629 28 21 7 7	- 280 - 828 - 887 - 887 - 887 - 887 - 887 59 59 (*) 167 162 55	37,962 35,652 4,311 2,166 2,145 22,761 10,101 11,022 2,603 -966 8,580 490 1,963 6,128 833 429 404	15,581 114,536 4,311 2,166 2,145 9,930 4,956 4,975 4,975 4,975 4,975 106 106 1 1 188 241 80 0 161	16,838 16,268 	5,828 5,750 3,933 520 3,413 3,413 (*) 1,817 43 1,774 39 26 14	-285 -903 -965 -965 -965 62 62 (*) 182 182 177 5	
Research and development. Private Federal State and local	19 20 21 22	1,103 608 448 47	581 464 108 8	165 69 77 19	43 22 15 6	315 52 248 14	1,279 706 528 45	680 543 131 6	180 78 84 18	39 20 14 4	381 65 299 17	1,478 849 578 51	803 653 144 7	200 92 90 18	39 21 14 4	436 83 330 23	
Pollution abatement and control	23	23.008	9.119	10.300	3.672		24.325	9,546	10.985	3.902	- 108	24.800	9.805	Mill 11.031	ions of c	- 101	
Pollution abatement ³ Personal consumption Durable goods Nondurable goods and services. Business On capital account On current account Private Government enterprise Costs recovered Government Federal State and local Government enterprise fixed capital Regulation and monitoring Federal State and local Research and development Private Federal State and local State and local		$\begin{array}{c} 23,603\\ 22,603\\ 1,205\\ 1,405\\ 1,405\\ 13,057\\ 6,662\\ 6,395\\ 5,520\\ 1,330\\ -455\\ 5,998\\ 332\\ 1,344\\ 4,322\\ 517\\ 305\\ 213\\ 847\\ 461\\ 348\\ 38\\ \end{array}$	8,514 2,589 1,184 1,405 5,793 3,596 2,197 2,177 20 133 61 (*) 71 162 533 109 443 352 84 6	9,952 5,340 2,758 2,582 1,273 1,309 4,612 214 147 4,251 221 122 99 127 52 60 15	3,613 2,378 308 2,070 2,070 (*) 1,235 38 1,197 26 21 5 33 17 11 5 5		22,868 2,857 1,489 1,368 13,789 6,762 7,027 6,138 1,444 -555 6,221 339 1,349 4,534 538 303 234 920 501 385 35	8,912 2,857 1,489 1,368 5,884 3,425 2,459 2,433 2,459 2,433 2,459 1711 68 1 103 149 522 98 485 385 95 5 5	10,613 5,850 3,008 2,842 1,424 1,418 4,763 189 142 4,432 242 114 128 130 555 61 14	3,854 2,610 329 2,281 (*) 1,243 38 1,206 21 16 5 28 14 10 3 3 10 3 10 10 10 10 10 10 10 10 10 10	-501 -511 -555 -555 -555 -555 -555 -555	$\begin{array}{c} 23,230\\ 2,945\\ 1,683\\ 1,262\\ 14,315\\ 6,760\\ 7,555\\ 6,550\\ 1,574\\ -569\\ 7,555\\ 9,770\\ 323\\ 1,359\\ 4,288\\ 577\\ 304\\ 274\\ 993\\ 562\\ 562\\ 394\\ 37\end{array}$	9,104 2,945 1,683 1,262 5,977 3,357 2,621 2,595 25 25 181 61 1 120 166 577 109 5335 433 433 438 55	10,641 6,165 3,063 1,555 1,548 4,476 191 117 4,169 255 103 152 135 135 161 61 13	2,740 340 2,400 (*) 1,271 30 1,242 27 18 9 9 266 14 10 3	-527 -527 -568 -568 -568 -569 42 41 (*) 129 129 129 129 129 129 297 55 5225 17 implicit	
Pollution abatement and control Pollution abatement Personal consumption Business On capital account On current account Government Regulation and monitoring Research and development	45 46 47 48 49 50 51 52 53	134.4 134.8 133.8 138.9 132.6 145.5 126.2 126.2 130.3	140.8 141.6 133.8 145.1 133.2 164.4 141.4 127.1 131.2	131.7 131.8 137.6 131.5 144.2 125.1 126.3 129.5	129.1 129.1 129.3 134.8 128.5 128.9 125.7 129.8	141.3 151.3 152.4 152.4 152.4 124.0 125.0 129.1	142.6 142.9 139.8 147.5 140.0 154.6 134.2 134.8 139.0	148.4 149.0 139.8 153.5 139.4 173.0 149.3 136.0 140.1	141.2 141.4 147.9 140.6 155.7 133.4 135.3 138.2	135.5 135.6 141.6 134.7 135.2 134.1 138.5	149.1 158.0 159.9 159.9 134.0 132.6 137.4	153.1 153.5 146.4 159.0 147.4 167.6 143.7 144.2 148.9	158.9 159.7 146.4 166.1 147.6 189.8 162.7 145.3 150.1	152.6 152.9 160.0 151.0 168.8 143.1 145.1 148.1	143.4 143.3 143.5 152.9 142.2 142.9 143.1 148.1	159.0 168.5 169.5 169.5 149.0 141.5 147.5	
Valued at replacement cost in current dollars	54 55	3,578 2,713					4,282 3,066				A0	dendur 5,061 3,413	n: Busin	ess capit	tal consu	umption	

See footnotes on page 51.

- All and the darked block and a specification of

PAC. The largest increase was in air PAC prices of nondurables, which include gasoline. Prices of all other energy goods and services continued increase at high rates in 1980; prices of PAC goods other than energy accelerated moderately.

The implicit price deflator for PAC increased 13.1 percent in 1980, com-

pared with 12.9 percent in 1979. It measures the average price of PAC purchases in each year and changes in it reflect not only changes in prices but also shifts in the composition of purchases from year to year.

Real PAC spending in 1981.—The limited information available as of January indicates that the level of real spending, and also the pattern of component changes, in 1981 were about the same as in 1980. A large increase in air PAC spending in 1981 once again offset a large decrease in water PAC. The increase was mainly for the purchase of the expensive improvements in motor vehicle emission abatement devices on model year 1981

		1978 [,]					1979 ^r					1980 ^p			
Total	Air	Water	Solid waste	Other and unallocat- ed ²	Total	Air	Water	Solid waste	Other and unallocat- ed ²	Total	Air	Water	Solid waste	Other and unallocat- ed ²	Line
current dolla	ars														
43,015 40,433	17,132 15,925	19,671 19,047	6,605 6,515	- 394 - 1,055	49,188 46,390	20,517 19,217	21,610 20,944	7,658 7,533	- 5 96 - 1,304	55,661 52,592	25,435 24,058	22,324 21,569	8,671 8,517	- 769 -1,552	1
4.649	4,649 2,412				5,475 2.741	5,475 2,741			1,004	7,020 3,643	7,020 3.643				
2,412 2,237 25,409	2,237 10,993	11,011	4,479	- 1,075	2,734 29,571	2,734 13.374	12,267	5,289	-1,359	3,378 34,020	3,378 16,560	13,039	6,031	-1,610	
10,809 14,599	5,261 5,732	4,966 6,045	582 3,897	-1,075	$12,039 \\ 17,531$	6,026 7,348	5,290 6,977	724 4,566	- 1,359	13,085 20,935	7,103 9,457	5,149 7,890	833 5,198	1,610	
12,626 3,048	5,660 72	3,069 2,976	3,897 (*)	(*)	15,363 3,528	7,242 106	3,556 3,421	4,566 (*)		18,465 4,080	9,309 148	3,958 3,932	5,197 (*)	(*)	. 9
-1,075 10,375	283	8,036	2,036	-1,075 20	-1,360 11,344	368	8,677	2,244	-1,360 55	-1,610 11,552	478	8,530	2,486	-1,610	11
472 2,208	90 (*)	316 218	47 1,989	19 1	548 2,459	103 (*)	347 257	48 2,196	50 6	504 2,731	100 (*)	298 293	56 2,430	50 8	14
7,695 949 507	193 276 93	7,502 405 186	55	213 201	8,338 1,067 592	265 300 100	8,073 425 232	86 37	257 225	8,318 1,297 786	378 340 125	7,940 528 330	111	318 280	16
442 1,633	183 931	219 219	55 28 28 35 16	12 12 449	593 474 1,731	200 1,001	193 241	49 39	225 32 451	511 1,772	215 1,037	198 227	51 60 43	280 38 465	$ \begin{array}{c c} 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ \end{array} $
985 592	777 146	99 104	16 16	93 326	1,099 564	888 105	103 118	11 24	96 317	1,124 570	900 130	110 90	15 25	99 325	21
57	8	17	4	29	69	8	19	4	38	79	7	27	4	41	22
(1972) dollar									[I			I	I
26,108 24,474	10,065 9,313 2,990	11,851 11,451	4,342 4,284		26,438 24,765	10,406 9,648	11,718 11,315	4,501 4,426	188 623	26,468 24,728	11,185 10,410	1 0,945 10,516	4,538 4,451	- 200 - 649	23 24 25 26 27 28 29 30 30 30 30 33 34 34 35 36 36 39 40 41 42 43
2,990 1,740 1,250	2,990 1,740 1,250			••••••	2,990 1,833 1,158	2,990 1,833 1,158				3,304 2,255 1,049	3,304 2,255 1,049				. 20
14,867 6,729	6,160 3,352	6,353 3,031	2,941 347	- 586	$1,158 \\ 15,327 \\ 6,813$	6,465 3,517	6,391 2,908	3,124 388	- 653	15,406 6,775	6,877 3,799	6,031 2,577	3,176 399	678	28
8 138	2,808 2,780	3,322 1,648	2,594 2,594	- 586	$8,514 \\ 7,383$	2,948 2,916	3,483 1,732	2,735 2,735	- 653	8,631 7,481	3,078 3,039	3,454 1,666	2,777 2,777	- 678	30
7,022 1,703 -587 6,617	28	1,675	(*)	(*) - 587	1,783 - 653	32	1,751	(*)	(*) -653	1,828 - 678	39	1,788	(*)	(*) -678	32
288	163 48	5,098 198	1,344 30	12 11	6,448 297	192 48	4,924 194	1,303 28 1,275	30 27 3	6,019 249	229 44	4,485 149	1,275 30	-678 29 25	34
1,417 4,913 620	(*) 115 179	102 4,798 263	1,314 	1 142	1,392 4,759 652	(*) 144 181	115 4,615 259	1,2?5 	160 ³	1,365 4,405 736	(*) 185 191	116 4,220 300	1,245	4	. 31
620 340 280	62 116	125 139	19 17	142 134 8	372 280	63 118	235 145 114	23 29	100	455	191 72 118	191 109	30	162	39
1,014 604	574 476	137 61	22 10	282 57	1,021 628	578 508	144 59	24	275 55	1,004 630	584 505	129	33 25 8	21 266 56	41
373 38	92 5	65 11	10 3	206 19	349 43	65 5	73 12	15 2	196 24	328 46	75	61 52 16	14 2	187 24	45
price deflato	ors ⁴								I					I	1
164.8 165.2	170.2 171.0	166.0 166.3	152.1 152.1	171.3 182.9	186.0 187.3	197.2 199.2	184.4 185.1	170.1 170.2	188.7 207.3	210.3 212.7	227.4 231.1	204.0 205.1	191.1 191.4	211.8 235.7	45
155.5 170.9	155.5 178.5	173.3		183.3	183.1 192.9	183.1 206.9		169.3	208.3	212.5 220.8	212.5 240.8	216.2		237.4	45 46 47 48 50 51 51 52 55
160.6 179.4	157.0 204.1	163.9 181.9	167.9 150.2	183.3	176.7 205.9	171.3 249.2	181.9 200.3	186.3 166.9	208.3	193.1 242.6	187.0 307.2	199.8 228.4	208.8 187.2	237.4	. 49
$156.8 \\ 153.2 \\ 161.0$	173.4 154.8	157.6 154.0 159.9	151.5 153.5 159.3	163.7 149.7	175.9 163.5	191.4 165.6	176.2 163.7	172.3	185.3 160.3	191.9 176.2	208.5 178.3	190.2 176.2	195.0 177.9	197.0 173.6	
	162.3 nillions of de	L.,	199.3	159.0	169.6	173.2	166.8	164.8	163.9	176.5	177.7	175.6	174.5	174.7	5
5,939					7,066					8,332	[1	. 54
3,746					4,067					4,369					. 5

Table 2.-Business and Government Expenditures for Air and Water Pollution Abatement in Current and Constant Dollars and Selected Implicit **Price Deflators**

	Air Water																	
					Air								-	Water	r	-	_	
	1972'	19737	19747	1975'	19767	1977 <i>'</i>	1978'	1979 <i>°</i>	1980 <i>°</i>	1972'	1973'	1974'	1975'	1976'	1977 [,]	19787	1979 <i>°</i>	1980 <i>°</i>
								Millic	ons of cu	urrent o	dollars							
Business (line 6) ¹	4,153	5,378	6,840	8,403	9,029	9,930	10,993	13,374	16,560	4,957	5,770	6,354	7,349	8,653	9,862	11,011	12,267	13,039
On capital account (line 7)	2,366	3,264	3,810	4,790	4,774	4,956	5,261	6,026	7,103	2,723	3,158	3,205	3,627	4,229	4,625	4,966	5,290	5,149
Motor vehicle emission abatement Plant and equipment expenditures ²	$225 \\ 2,141$	339 2,925	444 3,366	770 4,019	963 3,811	1,158 3,798	1,352 3,910	1,527 4,499	2,032 5,071	1,460	1,688	1,931	2,556	2,972	3,042	3,106	3,207	3,283
Residential systems ³										1,260 3	1,468	1,268	1,063 7	$1,250 \\ 8$	1,575 8	$1,855 \\ 5$	2,080	1,863 3
On current account (line 8) Private (line 9)	1,787 1,764	$2,114 \\ 2,085$	3,029 2,973	$3,613 \\ 3,568$	4,255	4,975	$5,732 \\ 5,660$	7,348 7,242	9,457 9,309	$2,235 \\ 1,107$	2,612 1,299	3,149 1,572	3,722 1,872	4,424 2,262	5,237 2,694	6,045 3,069	6,977 3,556	7,890
Motor vehicle emission abatement Manufacturing establishments	435 772	610 812	1,060 960	1,294 1,200	1,492 1,508	1,659 1,804	1,912 2,038	2,640 2,337	3,804 2,698	591	698	846	1,021	1,246	1,508	1,710	1,977	2,193
Manufacturing establishments Privately owned electric utility establishments Other nonmanufacturing establishments	279 278	361 303	593 360	633 441	633 564	779 673	944 767	$1,382 \\ 883$	$1,780 \\ 1,027$	32 289	35 355	54 441	65 538	85 660	92 800	100 933	114 1,106	130 1,240
Residential systems ³	.									195	211	229	247	268	292	322	354	389
Agricultural business 4 Government enterprise (line 10)	23 23	29 29	56	45	58 58	60 60	72 72	106	148	$\begin{array}{c cccc} 3 & 4 \\ 1,124 & 1,308 \end{array}$	1,577	1,850	2,162	2,543	2,976 10	3,421 12	3,932	
Publicly owned electric utilities Public sewer systems ⁵			56 	45				106	148		$\begin{vmatrix} 1,308\\1 \end{vmatrix}$ 1,57	1,571	1,842	2,153	$ \begin{array}{c} 10 \\ 2,533 \end{array} $	2,965	3,409	13 3,919
Other				•••••							-		(*)	1	(*)	1	1	(*)
Government (line 12)	119	129	158	188	256	295	283	368	478	3,483	3,961	4,881	5,768	6,353	6,406	8,036	8,677	8,530
Federal (line 13) Federal excl. highway erosion abatement	56 56	47 47	56 56	88 88	105 105	106 106	90 90	103 103	100 100	75 70	133 129	196 192	271 266	257 252	279 273	316 310	347 339	298 290
Highway erosion abatement State and local (line 14)	······	······	(*)	1	1	1	 (*)	······	(*)	5	171	189	5 210	5 204	6 188	7 218	8 257	8 293
State and local excl. highway erosion abatement Highway erosion abatement	(*)	(•)	(*)	Ī		Ī	(*) (*)	(*)	(*)	171	171	189	210	204	188	218	257	293
Government enterprise fixed capital (line 15) Publicly owned electric utilities	63 63	82 82	102 102	100 100	150 150	188 188	193 193	265 265	378 378	3,237 29 3,208	3,657 54 3,603	4,496	5,287 64 5,223	5,892 73	5,939 80	7,502	8,073	7,940
Public sewer systems ⁵											<u> </u>	4,421	0,220	5,818	5,859	7,366	7,971	7,849
			1					fillions o		r	1	T			тт			
Business (line 28) ¹	4,153	5,042	5,186	5,793	5,884	5,977	6,160	6,465	6,877	4,957	5,441	5,182	5,340	5,850	6,165	6,353	6,391	6,031
On capital account (line 29) Motor vehicle emission abatement	007	3,124 339	3,164 419	3,596	3,425 787	3,357	3,352	$3,517 \\ 1.021$	3,799 1,258	2,723	2,981	2,683	2,758	3,008	3,063	3,031	2,908	2,577
Plant and equipment expenditures ²	225 2,141	2,786	2,745	2,926	2,638	2,457	975 2,376	2,496	2,541	$1,460 \\ 1,260$	1,585 1,394	1,596 1,083	1,945 808	2,138 866	2,050 1,008	1,928 1,100	1,809 1,097	1,711 865
Agricultural business ⁴	1.787	1,918	2,022	2,197	9.450	2,621	0 000	2,948	3,078	3	2,460	2,499	5	2,842	1,000 5 3,103	3,322	3,483	3,454
On current account (line 30) Private (line 31)	1,764	1,893	1.996	2,177	2,459	2.595	2,808 2,780	2.916	3,039	2,235 1,107	1,221	1,230	2,582 1,273	1,424	1,555	1,648	1,732	1,666
Motor vehicle emission abatement Manufacturing establishments	435 772	$\frac{566}{745}$	780 686	860 756	935 883	975 942	1,068 980	$1,116 \\ 1,005$	1,179 1,007	591	655 33	646	671	760	843	892	933 52	885
Privately owned electric utility establishments Other nonmanufacturing establishments	279 278	304 278	273 256	283 277	286 329	330 349	367 366	419 377	474 380	32 289	333	41 336	351	50 400	49 445	50 484	519	51 497
Residential systems ³				•••••						195 (*)	200	206	209	213 2	216 2	220 2	226 2	231
Government enterprise (line 32) Publicly owned electric utilities	23 23	25 25	26 26	20 20	26 26	25 25	28 28	32 32	39 39	1,128	1,239	1,269	1,309	1,418	1,548 5	1,675	1,751	1,788
Public sewer systems ^s Other										1,124	1,234	1,264	1,304	1,413	1,542 (*)	1,669	1,745	1,783
Government (line 34)	119	123	127	133	171	181	163	192	229	1	3,683	4,133	4,612	4,763	4,476	5,098	4,924	4,485
Federal (line 35)	56 56	45 45	44	61 61	68 68	61 61	48	48	44	3,483 75 70	124 120	165 162	214 211	189 185	191 187	198 195	194	149
Federal excl. highway erosion abatement Highway erosion abatement		45	44	61		61	48	48	44	. 5	4	3	3	4	4	3	4	146
State and local (line 36) State and local excl. highway erosion abatement		(*) (*)	(*) (*)	(*) (*)	1	1	(*) (*)	(*) (*)		171	155	137	147	142	117	102	115	116
Highway erosion abatement Government enterprise fixed capital (line 37)	 63	78 78	82	71 71	103	120	115	144	185	171 3,237	155 3,404	137 3,831	147	142 4,432	117 4,169	102 4,798	115 4,615	116
Publicly owned electric utilities Public sewer systems ⁵	63	78	82	71	103	120	115	144	185	29 3,208	51 3,353	59 3,772	45 4,206	49 4,382	51	82 4,716	56 4,559	45
-		1	1	1	1	L	ـــــــــــــــــــــــــــــــــــــ	l Selected	implicit				1	1 · -	1		L	
Plant and equipment expenditures (see above, business, capital						[Γ	1	<u> </u>							<u> </u>	
account) ² Manufacturing, privately owned electric utilities, and other non- manufacturing establishments (see above, business current	100.0	105.0	122.6	137.4	144.5	154.6	164.5	180.2	199.6	100.0	106.5	121.0	131.4	139.0	148.4	161.1	177.2	191.9
account)	100.0	111.1	157.3	172.7	180.6	200.9	218.9	255.7	295.9	100.0	106.6 106.0	$131.1 \\ 124.3$	152.9 141.2	164.6 152.4	179.5	192.4 177.6	212.6 195.3	248.8 219.8
Public sewer systems (see above, business, current account) * Public sewer systems (see above, government, fixed capital) *										100.0	106.0	124.3	141.2	132.4	164.2	156.2	195.3	188.0
				L		1	1	1	1	4	1	1	1	4	1	L	1	

'Revised.

^p Preliminary.
[•] Less than \$500,000.

Line numbers correspond to those in table 1.
 Consists of manufacturing, private and cooperatively owned electric utilities, and other non-manufacturing companies.

Consists of private septic systems and sewer connections linking household plumbing to street sewers.
 Feedlot operations only, see footnote 1 on table 1.
 Public sewer systems consist of treatment plants, collection sewers, interceptor sewers, pumping stations, and dry waste disposal plants.
 Current-dollar estimates divided by constant-dollar estimates.

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passenger cars and light-duty trucks, although business private purchases on current account also increased. The large decrease in water PAC re-**W**ilted largely from the continued decline in construction of public sewer systems. Business spending on capital account for water decreased for the third consecutive year. Solid waste collection and disposal spending increased, but was largely offset by a decrease in "other and unallocated" spending.

Revisions in real spending, 1972-79.-The PAC spending series is revised annually to incorporate improvements in methods and, less frequently, in sources. This year's revisions are upward and average about 1 percent of total PAC spending (table 5). They are largely due to the substantial improvement in estimates of the net stocks of industrial plant and equipment for air and water PA. These estimates, to be published separately by BEA later this year, have been used to reestimate air and water PA spending on current account by "other nonmanufacturing" (table 2).3 The most significant of several other improvments is the incorporation of revised estimates of plant and equip-

3. This PA spending is assumed to have the same relationship to the "other nonmanufacturing" net stock of plant and equipment for air and water PA as manufacturing air and water PA spending on current account has to the manufacturing stock of similar plant and equipment.

ment expenditures for air and water PA.4

Real PAC spending during 1972-80.—Almost all components of real PAC spending exhibit a lower growth rate for 1975-80 than for 1972-75. Total PAC spending grew at an average annual rate of 8 percent during 1972-75 and at a rate of 3 percent during 1975-80. Consumer spending for durables grew at a 35-percent annual rate during 1972-75 and at a 14-percent rate during 1975-80. The

4. Preliminary revised figures for new plant and equipment expenditures for air and water PA were incorporated in the previous article on PAC expenditures in March 1981. Final estimates, first published in June 1981, are incoporated in the present article.

Table 3.—Percent Change From Preceding Year in Pollution Abatement and Control Expenditures (Total and Selected Components) in Current and **Constant Dollars, Implicit Price Deflators, and Price Indexes**

	1972–79 average annual rate ¹	1973 <i>'</i>	1974 <i>'</i>	19757	19767	1977 <i>1</i>	19787	1979 <i>1</i>	1980 <i>°</i>
Pollution abatement and control-total: Current dollars		$19.0 \\ 11.8 \\ 6.4 \\ 6.5 \\ 6.5$	19.8 3.4 15.9 16.0 15.9	17.8 8.0 9.0 9.8 9.8	12.2 5.7 6.1 6.2 6.3	9.5 2.0 7.4 7.3 7.4	13.3 5.3 7.6 7.7 7.8	14.4 1.3 12.9 12.8 12.8	13.2 1 13.1 13.5 13.5
Pollution abatement and control—air: Current dollars		28.4 20.8 6.2 6.5 6.5	25.5 3.3 21.6 21.7 22.5	22.9 12.7 9.1 10.8 10.9	10.3 4.7 5.4 5.7 5.7	10.0 2.7 7.1 7.3 7.7	10.0 2.7 7.1 7.0 7.0	19.8 3.4 15.9 15.9 16.1	24.0 7.5 15.3 17.4 17.8
Business capital—air: Current dollars	5.8 7.9	$37.9 \\ 32.0 \\ 4.5 \\ 4.5 \\ 4.5 \\ 4.5$	16.7 1.3 15.2 15.7 16.0	25.7 13.6 10.6 11.7 11.9	3 -4.7 4.7 5.3 5.2	$3.8 \\ -2.0 \\ 5.9 \\ 6.5 \\ 6.7$	$6.2 \\2 \\ 6.4 \\ 6.8 \\ 6.6$	14.5 4.9 9.1 9.2 9.4	17.9 8.0 9.2 10.1 10.5
Business current account, private—air: Current dollars	7.4 13.8	18.2 7.3 10.1 10.2 10.2	42.6 5.4 35.3 37.2 37.2	20.0 9.1 10.0 10.4 10.5	$17.6 \\ 11.8 \\ 5.2 \\ 5.6 \\ 5.5$	17.1 6.7 9.8 9.4 9.9	15.2 7.1 7.5 7.5 8.0	28.0 4.9 22.0 21.5 19.4	28.6 4.2 23.4 22.8 20.0
Pollution abatement and control—water: Current dollars		$15.6 \\ 8.4 \\ 6.7 \\ 6.7 \\ 6.7$	15.3 2.1 12.8 13.0 12.9	16.6 6.6 9.4 9.6 9.7	14.4 6.6 7.2 7.0 7.2	8.5 .4 8.1 7.5 7.6	16.8 7.4 8.8 8.8 9.1	9.9 1.1 11.1 10.8 10.8	$3.3 \\ -6.6 \\ 10.6 \\ 10.6 \\ 10.5$
Business capital—water: Current dollars	.9 8.9	16.0 9.5 5.9 6.0 6.0	$1.5 \\ -10.0 \\ 12.7 \\ 12.7 \\ 12.3$	13.2 2.8 10.1 10.6 10.6	16.6 9.1 6.9 6.8 7.5	9.4 1.8 7.4 7.1 7.4	$7.4 \\ -1.0 \\ 8.5 \\ 8.1 \\ 8.1$	$\begin{array}{r} 6.5 \\4.1 \\ 11.0 \\ 10.9 \\ 11.3 \end{array}$	$-2.7 \\ -11.4 \\ 9.8 \\ 10.5 \\ 10.8$
Business current account, private—water: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index		$17.4 \\ 10.3 \\ 6.4 \\ 6.3 \\ 6.3$	21.0 .7 20.1 20.2 20.0	19.1 3.5 15.1 15.2 15.1	20.8 11.9 8.0 7.6 7.6	19.1 9.2 9.1 8.8 8.8	13.9 5.9 7.5 7.4 7.4	15.9 5.1 10.2 10.1 10.0	$11.3 \\ -3.8 \\ 15.7 \\ 16.1 \\ 15.7$
Pollution abatement and control—solid waste: Current dollars	3.8 7.8	8.2 .8 7.3 7.3 7.3	16.8 4.3 11.9 12.0 12.0	8.4 .9 7.5 7.5 7.4	11.5 6.3 5.0 4.9 4.9	$10.3 \\ 4.2 \\ 5.8 \\ 5.8 \\ 5.9 \\ 5.9$	$ \begin{array}{r} 13.3 \\ 6.8 \\ 6.1 \\ 6.2 \\ 6.2 \end{array} $	15.9 3.7 11.8 11.8 11.8	13.2 8 12.3 12.3 12.4

 r Revised. p Preliminary. 1. Compounded annually; not calculated for chain because it is defined for adjacent years only.

Ta	ble 4.–	-Federal	Grants-in-A	hid to	State and	Local	Governments for
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				1972					1973			1974 r					1975 r				
	Line	Total	Air	Water	Solid waste	Other and unallo- cated	Total	Air	Water	Solid waste	Other and unallo- cated	Total	Air	Water	Solid waste	Other and unallo- cated	Total	Air	Water	Solid waste	Other and unalle- cat
																		llions of			
Pollution abatement and control	1	923	56	821	15	31	1,057	49	975	13	19	2,242	52	2,172	8	10	2,870	56	2,788	11	15
Pollution abatement Regulation and monitoring Research and development	2 3 4	758 66 99	(*) 39 17	755 21 44	3 3 10	(*) 2 28	916 76 65	(*) 43 6	913 30 33	3 2 9	(*) 2 18	2,112 91 39	(*) 45 7	2,110 44 18	1 2 5	(*) (*) 9	2,721 102 47	$\begin{smallmatrix}&1\\47\\&8\end{smallmatrix}$	2,718 52 19	3 3 6	(*) (*) 14
																				Mil	lions of
Pollution abatement and control	5	923	56	821	15	31	983	46	906	12	18	1,906	45	1,846	7	9	2,304	44	2,240	9	12
Pollution abatement Regulation and monitoring Research and development	6 7 8	758 66 99	(*) 39 17	755 21 44	3 3 10	(*) 2 28	851 71 61	(*) 40 6	848 28 31	2 2 8	(*) 2 17	1,794 78 34	(*) 39 6	1,793 37 16	1 2 4	(*) (*) 8	2,186 79 38	(*) 37 6	2,184 40 15	2 2 5	(*) (*) 11

'Revised.

^pPreliminary

*Less than \$500,000.

1. Constant-dollar estimates are derived using measures of price change of goods and services purchased by State and local governments for pollution abatement and control.

Table 5.—Revisions of Constant-Dollar Spending for Pollution Abatement and Control, 1972-79

[Millions of constant (1972) dollars]

		llution ab nd contro	
Year 972 973 975 976 977 978 979	Previ- ously pub- lished	Revi- sions	Revised
1050	10.000	~ ~ ~	
1972	18,220	214	18,434
1973	20,530	73	20,603
1974	21,113	194	21,307
1975	22,941	67	23,008
1976	24,187	138	24,325
1977	24,503	297	24,800
1978	25,771	337	26,108
1979	26,112	326	26,438

declining rate was due to the smaller increases in the average expenditures per vehicle for emission abatement devices in the later period, except in 1980. Spending by consumers for nondurables grew at an average annual rate of 10 percent during 1972–75 and fell at an average rate of 6 percent during 1975–80. The fall was due to decreases in engine maintenance costs and increases in the efficiency of fuel use following the introduction of catalytic emission abatement devices in 1974.

Business spending on captial account grew at an annual rate of 7 percent during 1972–75 and at a rate of less than 1 percent during 1975–80. The largest component of business capital spending, industrial plant and equipment for air and water PA, actually decreased at an average annual rate of 3 percent in the later period, compared with average increases of
 Table 6.—Constant-Dollar Spending for Abatement of Air Pollutant Emissions from Mobile and Stationary Sources¹

[Millions of constant (1972) dollars]

	1972 ⁻	1973 '	1974 ^r	19757	1976	1977'	1978 [,]	1979 [,]	1980°
Total	6,230	7,130	7,428	8,544	8,912	9,104	9,313	9,648	10,411
Mobile sources ²	2,196	2,869	3,315	4,119	4,579	4,820	5,033	5,127	5,743
Devices	701	1,008	1,070	1,853	2,276	2,583	2,715	2,853	3,513
Cars	588	843	865	1,578	1,942	2,236	2,352	2,489	3,10
Catalytic	0	0	200	917	1,086	1,187	1,204	1,266	1,436
Noncatalytic	588	843	665	660	856	1,049	1,148	1,223	1,669
Trucks	113	165	205	276	335	347	364	365	408
Operation of devices	1,495	1,861	2,245	2,266	2,303	2,237	2,318	2,274	2,223
Cars	1,348	1,658	1,886	1,784	1,668	1,475	1,404	1,228	1,049
Trucks	147	203	359	481	635	762	913	1,046	1,178
Stationary sources	4,034	4,261	4,113	4,425	4,333	4,284	4,280	4,521	4,67
Facilities	2,626	2,864	2,827	3,027	2,740	2,576	2,491	2,640	2,720
Industrial	2,563	2,786	2,745	2,956	2,638	2,457	2.376	2,496	2,54
Manufacturing	1,142	1,453	1,595	1,640	1,254	1,095	1,155	1,177	1,080
Nonmanufacturing	1,421	1,332	1,150	1,316	1,384	1,362	1,222	1,319	1,45
Other ³	63	78	82	71	103	120	115	144	185
Operation of facilities	1.408	1,397	1.286	1,398	1,592	1,708	1,789	1,880	1,944
Industrial	1,329	1,328	1,216	1,317	1,498	1,621	1,713	1,800	1,86
Manufacturing	772	745	686	756	883	942	980	1,005	1,00
Nonmanufacturing	557	582	529	560	615	679	733	796	854
Other ⁴	79	69	70	82	95	87	77	80	8

'Revised. PPreliminary

The Clean Air Act classifies sources of pollutants as either mobile, such as passenger cars, or stationary, such as factories.
 Excludes spending to reduce emissions from mobile sources other than cars and trucks; such spending was insignificant during 1972-80.

3. Consists of spending for fixed capital of government enterprises such as the Tennessee Valley Authority.
 4. Consists of spending to operate government enterprises and all spending by government; separate data on spending to acquire and operate government pollution abatement facilities are not available.

11 percent for air PA and 10 percent t for water PA during 1972-75.

Government spending for PA showed almost no change between 1975 and 1980 after increasing at an average annual rate of 8 percent during 1972-75. Spending for regulation and monitoring (R&M), all by government, increased at an average annual rate of 12 percent during 1972-75 and 7 percent during 1975-80—following the trend for total PAC spending. Research and development (R&D) spending by government and industry ran counter to the general trend. It grew at an average annual rate of 1 percent during 1972-75 and 3 percent during 1975-80.

Three additional exceptions to the general trend were business spending for solid waste capital, capital spending for residential systems, and business spending on current account. Business spending for solid waste capital was almost unchanged during 1972-75 and increased at an average annual rate of 5 percent during 1975-80. The increase in the later period was probably due to increasing concern over hazardous wastes and the

Pollution Abatement and Control in Current and Constant Dollars 1

	1976	r					1977	,				1978	r				1979	r				1980	р —		
Total	Air	Water	Solid waste	Other and unallo- cated	Total	Air	Water	Solid waste	Other and unallo- cated	Total	Air	Water	Solid waste	Other and unallo- cated	Total	Air	Water	Solid waste	Other and unallo- cated	Total	Air	Water	Solid waste	and	Line
urrent dollars			-																						
,386	56	3,298	11	22	4,061	62	3, 9 56	15	28	4,150	71	4,012	25	42	5,205	81	5,004	44	76	5,303	91	5,075	51	87	
,189 151 45	1 48 6	3,184 96 18	4 3 4	(*) 5 17	3,815 194 51	1 55 7	3,809 129 18	6 6 4	(*) 5 23	3,879 214 57	(*) 63 8	3,871 124 17	7 15 4	1 12 29	4,905 231 69	(*) 73 8	4,892 93 19	7 33 4	6 32 38	4,971 254 79	(*) 84 7	4,954 94 27	9 38 4	8 38 41	
onstant (1972) doll	ars						k	·					·		1										
2,546	41	2,481	8	16	2,847	42	2,775	10	20	2,644	45	2,556	16	28	2,976	48	2,855	26	46	2,817	50	2,690	27	49	1
2,401 110 35	$1 \\ 35 \\ 5$		3 2 3	(*) 3 13	2,679 132 37	1 37 5	2,675 87 13	4 4 3	(*) 3 17	2,471 136 38	(*) 40 5	2,466 78 11		(*) 8 19	2,796 137 43	(*) 44 5	2,788 55 12	19	3 19 24	2,631 139 46	(*) 46 4	2,623 51 16	21 21 2	4 21 24	

passage of the Resource Conservation and Recovery Act of 1976. Spending for residential systems decreased at an average annual rate of 14 percent during 1972-75 and increased at a rate of 1 percent during 1975-80. This is a volatile component of PAC spending and fluctuates with residential construction activity. Business spending on current account grew at a rate of 5 percent during 1972-75 and 6 percent during 1975-80. Current-account spending increases reflect the operation of a growing capital stock.

The composition of PAC spending by type (e.g., air PAC), function (e.g., R&M), and sector shifted during the 1972-80 period. Air PAC increased as a percent of total PAC (from 34 percent in 1972, to 38 percent in 1975, and to 40 percent in 1980), and water PAC decreased (from 45 percent, to 43 percent, and to 39 percent). Solid waste PAC fluctuated moderately (18 percent, 15 percent, and 16 percent). By function, the composition of PAC spending has not changed much: PA spending continues to account for the largest portion of PAC (about 94 percent) and composition shifts between R&M and R&D were small. By sector, the majority of PAC expenditures continue to be made by business (64 percent in 1972, 60 percent in 1975, and 621/2 percent in 1980). Government spending first increased (from 28 percent to 29 percent in 1975) and then decreased (to $25\frac{1}{2}$ percent), largely reflecting variations in spending for public sewer systems. Personal consumption spending increased (from 8 percent, to 11 percent, to 12 percent).

Table 7.—Constant-Dollar Spending for Abatement of Water Pollutant Emissions From Point Sources 1

[Millions of constant (1972) dollars]

	1972 '	1973 r	1974 '	1975 r	1976 '	1977 '	1978 '	1979 ^r	1980 P				
Total	7,551	8,214	8,535	9,298	9,916	9,923	10,722	10,581	9,861				
Facilities	5,436	5,831	6,078	6,711	7,098	6,845	7,421	7,130	6,489				
Industrial Manufacturing Nonmanufacturing	626	1,585 838 746	1,596 852 744	1,945 999 947	2,138 1,173 964	2,050 1,164 886	1,928 801 1,127	1,810 725 1,084	1,711 624 1,088				
Public sewer systems, private connectors to them, and other Public sewer systems and private connectors Other ²		4,246 4,193 54	4,482 4,418 64	4,765 4,717 49	4,960 4,906 54	4,795 4,739 56	5,493 5,409 84	5,321 5,263 58	4,778 4,731 47				
Operation of facilities	2,115	2,384	2,457	2,586	2,818	3,077	3,301	3,451	3,373				
Industrial Manufacturing Nonmanufacturing	591	1,021 655 366	1,023 646 376	1,062 671 392	1,210 760 450	1,337 843 494	1,426 892 534	1,504 933 571	1,433 885 548				
Public sewer systems, private connectors to them, and other Public sewer systems, and private connectors Other ³		1,363 1,234 129	1,435 1,264 171	1,524 1,304 220	1,609 1,413 196	1,740 1,542 198	1,875 1,669 206	1,947 1,745 202	1,940 1,783 157				

' Revised. ^P Preliminary

1. The Federal Water Pollution Control Act defines point sources as facilities that discharge to a body of water through a pipe or ditch

or nicco. 2. Consists of spending by owners of animal feedlots and spending for fixed capital of government enterprises such as the Tennessee Valley Authority.

rennessee valley Authority. 3. Consists of spending by owners of animal feedlots, spending to operate government enterprises, and spending by government except highway erosion control; separate data on spending to acquire and operate government pollution abatement facilities are not available.

Table 8.—Constant-Dollar Spending by Business and Government for Solid Waste Collection and
Disposal and Related Series

	Line	1972 r	1973 r	1974 r	1975 ′	1976 r	1977 r	1978 ′	1979 [,]	1980 ^p		
				Million	s of consta	ant (1972)	dollars					
Solid waste collection and dis- posal by means acceptable to Federal, State, and local au- thorities	1	3,416	3,429	3,554	3,575	3,816	3,982	4,254	4,398	4,421		
olid waste managment Pollution abatement Other ¹	2 3 4	4,680 887 3,792	4,687 994 3,693	4,854 1,162 3,693	4,897 1,260 3,637	5,206 1,438 3,769	5,413 1,619 3,795	5,770 1,897 3,873	5,976 2,170 3,806	6,039 2,333 3,706		
	Percent change from preceding year											
Solid waste collection and dis- posal by means acceptable to Federal, State, and local au- thorities	5		.4	3.6	.6	6.7	4.4	6.8	3.4	.5		
Solid waste management Pollution abatement Other ¹	6 7 8		.1 12.1 -2.6	3.6 16.9 0	.9 8.4 -1.5	$6.3 \\ 14.1 \\ 3.6$	4.0 12.6 .7	$\begin{smallmatrix} 6.6\\17.2\\2.1\end{smallmatrix}$	3.6 14.4 -1.7	1.1 7.5 -2.6		

Revised

Preliminary. 1. Consists of spending for the avoidance of the slowing of production or consumption activity due to the accumulation of solid waste and for other purposes except pollution abatement

(continued from p. 18)

withholding change was a permanent one, overwithholding as a proportion of total collections continues to be larger than it was before 1972.

The imposition of mandatory withholding, as well as other actions intended to increase the operational efficiency of a tax, has been treated as an administrative change. Such actions nonetheless can have a visible effect on the growth of a tax; a withholding system results in more tax dollars than a system that requires only annual filing. Some of the increases recorded in 1966-69 were the result of imposition of mandatory withholding in States (notably California) where income taxes were previously paid at filing or where withholding was optional.

Information about legislative actions affecting local income taxes are not readily available, especially before 1970, and therefore the percent due to legislative actions shown in table 5 are not comprehensive. Among the major identifiable actions in the mid-1960's were the imposition of income taxes in New York City, Baltimore, and in a number of Maryland counties. Much of the 1971-72 increase in-

Table 6.—Change in Selected State and Local Government Tax Receipts

	Change in taxes (bi doll	llions of	Change due to legisla- tive actions as a percent- age of total change		
Year 1962 1963 1964 1965 1966 1969 1969 1969 1970 1971 1972 1973 1974 1973 1974 1975 1976 1979 1979 1979 1980	Total	Due to legisla- tive actions			
	2.6 2.2 3.0 3.3 4.0 4.6 7.7 7.1 7.4	1.4 1.2 1.3 1.6 1.8 1.5 2.7 2.0 1.8	55 55 44 4 4 4 33 31 21 21		
1972	7.9 11.0 7.9 7.1 8.5 13.0 13.4 9.8 7.9 14.1	$1.2 \\ 1.1 \\ -2.0 \\ -2.6 \\ -1.3 \\ .3 \\ -9.0 \\ -13.3 \\ -7.2$			

volved further actions in New York City, and the major 1977 legislative increase was in Philadelphia.

Summary

Table 6 shows total annual changes for the seven types of taxes discussed, and the part due to legislative actions (including, for this purpose, changes

in assessment/market ratios for property taxes). Legislative actions accounted for a substantial part-between 24 percent and 52 percent-of receipts growth in most years from 1962 to 1972. After 1972, legislative actions held down receipts growth in 7 of the 8 years. (It seems likely-on the basis of data now available, largely relating to sales and personal income taxes-that legislative actions in 1981 added slightly to the increase in receipts.) Conversely, while economic activity and inflation accounted for more than one-half of growth in these taxes in 1962-72, they accounted for virtually all such growth after 1972.

Moreover, the negative effects of legislative actions after 1972 appeared largely in receipts of local governments, specifically in property taxes. At the State level, the net effect of legislative actions, although small, was generally positive. Growth in State receipts due to increases in economic activity and to inflation occurred without the countering effects of legislative actions, such as occurred in local receipts. The result was a shift in fiscal resources toward State governments and away from localities.

(continued from p. 36)

PLAM's monthly payments start at only \$239, 60 percent lower than payments for the SFPM, and, assuming an inflation rate of 10 percent, remain lower through the first 10 years of the loan. (A GPM-III, in contrast, would carry initial monthly payments of \$461, 22 percent lower than the SFPM's and almost double the PLAM's.) If mortgage lenders use a 25-percent payment-to-income rule, an SFPM borrower would need an income of \$28,400 to qualify for a \$50,000 mortgage, while a PLAM borrower would need an income of only \$11,500.

There are two clear drawbacks to the PLAM from the borrower's point of view. First, of course, is the danger that income will not keep pace with inflation and that, as a result, payments as a percentage of income will rise, perhaps to an onerous level. Second, equity accumulates much more slowly with a PLAM than with a SFPM. If house prices rise 10 percent per year, for example, the SFPM borrower in table 16 will have \$114,467 of equity in the house after 10 years, but the PLAM borrower will have equity of only \$59,937. (Of course, the PLAM borrower will have made smaller outlays—monthly pay-

ments totaling \$45,600—than the SFPM borrower—monthly payments totaling \$71,000.)

From the lender's point of view, the chief advantages of a PLAM are the elimination of interest rate risk and certainty about the real value of payments. The biggest disadvantage is the reduced cash flow associated with PLAM's in their early years, which, as with SAM's, would make it difficult for lenders profitably to off competitive rates on deposits. Also, PLAM's would probably entail the same kind of tax problems that are associated with negative amortization under GPM's.

Constant-Dollar Inventories, Sales, and Inventory-Sales Ratios for Manufacturing and Trade

Tables 1, 2, and 3 present constant-dollar inventories, sales, and inventory-sales ratios, respectively, quarterly and monthly. Table 4 pre-sents quarterly constant-dollar fixed-weight inventory-sales ratios, i.e., ratios obtained by weighting detailed industry ratios by 1972 sales. Table 5 presents monthly inventories by stage of fabrication; these were introduced in "Constant-dollar Manufacturing Inventories" in the November 1981 SURVEY OF CURRENT BUSINESS.

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

[Billions of 1972 dollars]

				1981			
	III ′	IV ^p	Aug.	Sept. ^r	Oct.	Nov.	Dec. ^p
Manufacturing and trade	268.5	269.4	267.1	268.5	269.7	270.4	269.4
Manufacturing	147.7	147.5	146.9	147.7	148.1	148.1	147.5
Durable goods	100.9	100.7	100.2	100.9	101.1	101.1	100.7
Primary metals	14.0	14.0	13.8	14.0	14.0	14.0	14.0
Fabricated metals	11.6	11.5	11.6	11.6	11.7	11.6	11.5
Machinery, except electrical	24.8	24.7	24.6	24.8	24.8	24.9	24.7
Electrical machinery	15.4	15.4	15.3	15.4	15.5	15.5	15.4
Transportation equipment	18.0	18.4	17.9	18.0	18.3	18.2	18.4
Other durable goods ¹	17.0	16.7	16.9	17.0	16.9	16.9	16.7
Nondurable goods	46.8	46.9	46.7	46.8	47.0	47.0	46.9
Food and kindred products	12.0	11.7	12.0	12.0	11.9	11.8	11.7
Nonfood	34.8	35.1	34.8	34.8	35.1	35.2	35.1
Paper and allied products	4.4	4.5	4.3	4.4	4.4	4.5	4.5
Chemicals and allied products	9.0	9.0	8.9	9.0	9.0	9.1	9.0
Petroleum and coal products	3.3	3.2	3.3	3.3	3.2	3.2	3.2
Rubber and plastic products	3.1	3.0	3.1	3.1	3.1	3.1	3.0
Other nondurable goods ²	15.1	15.4	15.1	15.1	15.3	15.4	15.4
Merchant wholesalers	54.5	55.5	53. 9	54.5	54.7	55.5	55.5
Durable goods	36.4	37.0	36.0	36.4	36.5	37.1	37.0
Nondurable goods		18.5	17.9	18.1	18.2	18.4	18.5
Groceries and farm products		7.3	6.9	7.0	7.2	7.2	7.3
Other nondurable goods	11.0	11.3	11.0	11.0	11.0	11.2	11.3
Retail trade	66.4	66.3	66.3	66.4	66.9	66.8	66.3
				00-		00.1	00.0
Durable goods		30.3	31.0	30.7	30.8	30.6	30.3
Auto dealers		14.8	15.6	15.3	15.2	14.9	14.8
Other durable goods		15.5	15.4	15.4	15.6	15.6	15.5
Nondurable goods	35.7	36.0	35.3	35.7	36.1	36.2	36.0
Food stores	7.2	7.2	7.1	7.2	7.2	7.2	7.2
Other nondurable goods	28.5	28.8	28.2	28.5	28.9	29.0	28.8

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

[Billions of 1972 dollars]

				1981			
	III '	IV ^p	Aug.	Sept. '	Oct.	Nov.	Dec. ^p
Manufacturing and trade	158.5	153.2	158.2	158.4	153.4	153.4	152.9
Manufacturing	73.9	70.2	73.8	73.4	70.8	69.8	69.9
Durable goods Primary metals Fabricated metals Machinery, except electrical Electrical machinery Transportation equipment Other durable goods ¹	40.8 4.7 4.6 8.7 6.4 8.8 7.7	38.1 4.1 4.2 8.6 6.2 7.7 7.4	40.9 4.7 4.6 8.7 6.4 8.9 7.5	40.4 4.6 4.5 8.7 6.4 8.6 7.6	38.4 4.3 4.4 8.4 6.1 7.8 7.5	38.0 4.1 4.1 8.7 6.1 7.5 7.3	37.9 3.8 4.1 8.7 6.3 7.7 7.3
Nondurable goods Food and kindred products Paper and allied products Chemicals and allied products Petroleum and coal products Rubber and plastic products Other nondurable goods ²	33.2 10.9 22.2 2.8 5.8 2.2 1.8 9.7	32.1 10.7 21.4 2.7 5.7 2.1 1.7 9.1	33.0 10.8 22.2 2.7 5.8 2.2 1.8 9.6	33.0 11.0 22.1 2.8 5.8 2.2 1.8 9.5	32.4 10.8 21.6 2.7 5.6 2.2 1.8 9.3	31.9 10.5 21.3 2.7 5.8 2.1 1.6 9.1	32.0 10.7 21.3 2.8 5.8 2.1 1.7 9.0
Merchant wholesalers	38.2	38.1	37.6	38.4	37.8	38.5	37.9
Durable goods Nondurable goods Groceries and farm products Other nondurable goods	$17.5 \\ 20.6 \\ 11.0 \\ 9.7$	17.2 20.9 11.4 9.5	17.5 20.1 10.6 9.4	17.2 21.1 11.5 9.6	16.9 20.8 11.2 9.6	17.4 21.1 11.4 9.7	17.2 20.7 11.6 9.2
Retail trade	46.4	45.0	46.8	46.6	44.9	45.1	45.1
Durable goods Auto dealers Other durable goods Nondurable goods Food stores Other nondurable goods	15.9 8.9 7.0 30.5 9.7 20.8	14.6 7.9 6.7 30.4 9.7 20.7	16.1 9.2 6.9 30.7 9.8 20.9	16.1 9.2 7.0 30.5 9.7 20.8	14.6 7.9 6.7 30.3 9.6 20.7	$14.6 \\ 7.9 \\ 6.7 \\ 30.5 \\ 9.8 \\ 20.6$	14.7 8.0 6.7 30.4 9.7 20.7

See footnotes to table 4.

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

[Ratio, based on 1972 dollars]

				1981			
	III '	IV ^p	Aug.	Sept."	Oct.	Nov.	Dec. ^p
Manufacturing and trade	1.69	1.76	1.69	1.70	1.76	1.76	1.76
Manufacturing	2.00	2.10	1.99	2.01	2.09	2.12	2.11
Durable goods Primary metals	$2.54 \\ 2.86 \\ 2.40$	$\begin{array}{c} 2.64 \\ 3.42 \\ 2.73 \\ 2.87 \\ 2.50 \\ 2.40 \\ 2.27 \end{array}$	2.45 2.91 2.54 2.82 2.40 2.01 2.25	2.50 3.07 2.57 2.84 2.42 2.09 2.24	$2.63 \\ 3.25 \\ 2.68 \\ 2.95 \\ 2.55 \\ 2.35 \\ 2.26$	$2.66 \\ 3.40 \\ 2.82 \\ 2.84 \\ 2.53 \\ 2.42 \\ 2.31$	2.66 3.68 2.77 2.84 2.46 2.40 2.29
Nondurable goods Food and kindred products Nonfood Paper and allied products Chemicals and allied products Petroleum and coal products Rubber and plastic products Other nondurable goods ²	$1.41 \\ 1.10 \\ 1.57 \\ 1.58 \\ 1.54 \\ 1.53 \\ 1.71 \\ 1.56$	$1.46 \\ 1.10 \\ 1.64 \\ 1.62 \\ 1.58 \\ 1.50 \\ 1.79 \\ 1.69$	$1.42 \\ 1.11 \\ 1.57 \\ 1.58 \\ 1.54 \\ 1.50 \\ 1.73 \\ 1.57 \\ $	$1.42 \\ 1.10 \\ 1.58 \\ 1.58 \\ 1.54 \\ 1.52 \\ 1.74 \\ 1.58 $	$1.45 \\ 1.11 \\ 1.62 \\ 1.61 \\ 1.60 \\ 1.45 \\ 1.76 \\ 1.65$	$1.48 \\ 1.13 \\ 1.65 \\ 1.63 \\ 1.58 \\ 1.52 \\ 1.91 \\ 1.69$	$1.47 \\ 1.10 \\ 1.65 \\ 1.62 \\ 1.56 \\ 1.56 \\ 1.80 \\ 1.71$
Merchant wholesalers	1.43	1.46	1.43	1.42	1.45	1.44	1.47
Durable goods Nondurable goods Groceries and farm products Other nondurable goods		2.16 .89 .64 1.19	2.06 .89 .64 1.17	2.11 .86 .61 1.15	2.15 .88 .65 1.14	2.14 .87 .63 1.16	2.15 .90 .63 1.23
Retail trade	1.43	1.47	1.42	1.42	1.49	1.48	1.47
Durable goods Auto dealers Other durable goods Nondurable goods Food stores Other nondurable goods	$1.93 \\ 1.72 \\ 2.21 \\ 1.17 \\ .73 \\ 1.37$	2.07 1.87 2.30 1.19 .74 1.39	$1.93 \\ 1.70 \\ 2.22 \\ 1.15 \\ .72 \\ 1.35$	$1.90 \\ 1.67 \\ 2.21 \\ 1.17 \\ .74 \\ 1.37$	2.11 1.92 2.33 1.19 .75 1.40	2.09 1.89 2.33 1.19 .73 1.40	2.06 1.86 2.30 1.18 .74 1.39

See footnotes to table 4.

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

[Ratio, based on 1972 dollars]

		198	1	
	I	п	III ′	IV ^p
Manufacturing and trade	1.63	1.66	1.69	1.78
Manufacturing	1.96	1.95	2.00	2.12
Durable goods Nondurable goods	$2.40 \\ 1.45$	2.37 1.46	$\begin{array}{c} 2.46 \\ 1.46 \end{array}$	$2.65 \\ 1.50$
Merchant wholesalers	1.34	1.40	1.43	1.48
Durable goods Nondurable goods	1.93 .86	2.02 .88	2.07 .89	2.15 .92
Retail trade	1.31	1.38	1.39	1.44
Durable goods Nondurable goods	1.74 1.09	1.97 1.08	1.92 1.12	$2.05 \\ 1.14$

See footnotes to table 4.

^rRevised. ^pPreliminary. 1. Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; instruments and related products; and miscellaneous manufacturing industries. 2. Includes tobacco manufacturers; textile mill products; apparel products; printing and publishing; and leather and leather products.

Note.—Manufacturing inventories are classified by the type of product produced by the establishment holding the inventory. Trade inventories are classified by the type of product sold by the establishment holding the inventory. Trade is the trade of the inventory. Table 4: The I-S ratios shown in this table were obtained by weighting detailed industry I-S ratios y 1972 sales. For manufacturing, 20 industries were used; for merchant wholesalers, 20 kinds of business; and for retail trade, 8 kinds of business.

Table 5.—Manufacturing Inventories by Stage of Fabrication in Constant Dollars, Seasonally Adjusted End of Period

[Billions of 1972 dollars]

	Materials and supplies 1981				Work-in-process 1981					Finished goods 1981					
	Aug.	Sept. '	Oct.	Nov.	Dec. P	Aug.	Sept. '	Oct.	Nov.	Dec. ^p	Aug.	Sept. '	Oct.	Nov.	Dec
Manufacturing	51.3	51.7	51.7	51.8	51.9	50.9	51.1	51.1	51.2	50.8	44.7	44.9	45.3	45.1	44
Durable goods Primary metals Fabricated metals Machinery, except electrical Electrical machinery Total Transportation equipment. Other durable goods ¹	5.5 4.6 7.1 4.6 4.2	$\begin{array}{r} 32.6 \\ 5.6 \\ 4.7 \\ 7.2 \\ 4.6 \\ 4.2 \\ 6.3 \end{array}$	32.6 5.6 4.7 7.2 4.6 4.2 6.3	32.7 5.6 4.7 7.2 4.6 4.2 6.3	32.6 5.6 4.6 7.0 4.6 4.5 6.2	43.8 5.0 4.2 10.7 7.5 11.7 4.7	44.0 5.1 4.2 10.7 7.5 11.8 .4.7	44.1 5.1 4.2 10.7 7.5 11.9 4.6	44.2 5.1 4.2 10.7 7.6 11.9 4.6	43.8 5.1 4.2 10.7 7.5 11.7 4.7	24.1 3.3 2.8 6.8 3.2 2.1 6.0	24.3 3.3 2.7 6.9 3.3 2.1 6.0	24.4 3.3 2.7 6.9 3.3 2.2 5.9	24.3 3.3 2.7 6.9 3.3 2.1 5.9	24 3 2 7 3 2 5
Nondurable goods Food and kindred products Paper and allied products Chemicals and allied products Petroleum and coal products Rubber and plastic products Other nondurable goods ²	4.1 2.4 3.4 .9	19.1 4.2 2.4 3.4 .9 1.2 7.1	19.1 4.1 2.4 3.4 .9 1.2 7.2	19.1 4.1 2.4 3.4 .9 1.2 7.2	19.3 4.1 2.4 3.4 .9 1.2 7.4	7.1 1.1 1.3 .8 .5 2.9	7.1 1.1 .5 1.3 .8 .5 2.9	7.0 1.0 .5 1.2 .8 .5 3.0	7.0 1.1 .5 1.2 .8 .5 2.9	7.0 1.0 .5 1.2 .8 .6 2.9	$20.6 \\ 6.8 \\ 1.5 \\ 4.3 \\ 1.6 \\ 1.4 \\ 5.1$	$\begin{array}{c} 20.6 \\ 6.8 \\ 1.5 \\ 4.3 \\ 1.6 \\ 1.3 \\ 5.0 \end{array}$	20.8 6.8 1.6 4.4 1.6 1.4 5.1	$\begin{array}{c c} 20.9 \\ 6.7 \\ 1.6 \\ 4.5 \\ 1.6 \\ 1.3 \\ 5.2 \end{array}$	20 6 1 4 1 1

See footnotes to table 4

(continued from p. 49)

ratio—essentially a ratio of systematic to unsystematic variation—for rows (countries) in line 3 of table 8.

The results also indicated the existence of industry differences in CPH over and above those that might have been due to differences among industries in the geographical distribution of employment. This is shown by the highly significant F ratio for columns (industries) in line 4 of table 8. Although highly significant, this ratio was significant at a much lower level than the ratio for rows (countries). Thus, although CPH was influenced independently by both the affiliates' country and industry, the country effects were considerably more systematic than the industry effects.

The results of applying AOV to data for developed countries and developing countries separately are shown in lines 6-10 and 11-15, respectively, of table 8. Although markedly lower than for all countries combined, the F ratios for rows (countries) were still statistically significant for both developed and developing countries separately. This confirmed that country effects on CPH existed within each of the two groups of countries, and were not confined to differences between the groups.¹⁸

Affiliate and All-Foreign-Business Compensation Rates Compared

Table 9 compares CPH of production workers of MOFA's in manufacturing (including petroleum and coal products) with unpublished Bureau of Labor Statistics estimates for all foreign manufacturing businesses (including affiliates of U.S. companies) in 30 countries. (Petroleum and coal products was included in manufacturing in the affiliate data to conform to its treatment in the BLS estimates.) Affiliates tended to pay comparatively high CPH; in 27 of the 30 countries, CPH of affiliates exceeded that of all foreign businesses. The data needed to determine definitively the extent to which the higher CPH for affiliates at the all-manufacturing level might have been due to differences in industry mix were not readily available. However, examination of CPH in a few industries within manufacturing that were similarly defined in the two data sets suggested that differences in

industry mix were probably not the only reason for the higher affiliate rates, because, in most of the individual industries, affiliate rates also tended to be higher than the rates for all foreign businesses.

Instead, the differences in CPH could have reflected differences in the nature of the operations of affiliates, compared with those of other foreign businesses. U.S. companies that have direct investments abroad are widely regarded as being among the most technologically advanced in the world. To the extent that they are, their foreign operations may have required more highly skilled, and thus more highly paid, labor than was required by most purely local foreign businesses.

CPH for affiliates, although generally higher than that for all foreign businesses, nevertheless followed rather closely the substantial variations among countries in the all-foreign-business rates. (The simple linear correlation between the two compensation rates for the 30 countries was 0.96; it was even slightly higher if Turkey, which had a wide difference in rates but very low affiliate employment, was eliminated.) This suggested that, although affiliation with a U.S. company apparently had an effect on CPH, local labor market conditions were probably the principal determinant of the rates paid by affiliates.

^{18.} AOV was applied to data for developed and developing countries separately in order to investigate country effects. In addition, it may be noted that the F

ratios for columns (industries) were lower (although still significant at the 5-percent level) for the two country groups than for all countries combined. The reasons for, and implications of, this result were not obvious; the result would, however, have been consistent with the existence of greater similarity in the mix of subindustries among countries within the two country groups than between them.

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 \$9.50, 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		197	79			198	 30			. 198	31		1982
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	A	nnual tota	al	I.	п	ш	IV	I	п	III	IV	I	II	ш	IV	I
(ENE	RAL I	BUSIN	IESS	INDI	CAT	DRS-	-Qua	rterly	v Seri	es		I			
NEW PLANT AND EQUIPMENT EXPENDITURES †																
Unadjusted quarterly or annual totals: Total nonfarm business bil. \$ Manufacturing	231.24 79.72 40.43 39.29	270.46 98.68 51.07 47.61	295.63 115.81 58.91 56.90	57.26 19.65 10.04 9.61	66.81 23.68 12.31 11.37	68.39 24.93 12.99 11.94	77.99 30.42 15.73 14.69	65.18 24.10 12.54 11.56	74.02 28.86 14.79 14.06	74.12 28.98 14.49 14.50	82.31 33.87 17.09 16.78	69.75 26.90 13.24 13.66	79.60 31.39 15.83 15.56	81.75 32.15 15.45 16.69	'91.51 37.82 18.42 19.41	77.14 29.47 14.31 15.16
Nonmanufacturing do Mining do Railroad do Air transportation do Other transportation do	151.52 10.21 3.48 3.09 4.10	$171.77 \\ 11.38 \\ 4.03 \\ 4.01 \\ 4.31$	$179.81 \\ 13.51 \\ 4.25 \\ 4.01 \\ 3.82$	37.61 2.59 0.86 0.80 0.82	43.13 2.81 1.00 1.19 1.08	43.47 2.87 1.04 0.91 1.18	47.57 3.11 1.12 1.10 1.23	41.08 2.74 0.99 0.90 0.84	45.16 3.27 1.06 1.27 0.98	45.13 3.50 1.00 0.93 1.07	48.44 4.01 1.20 0.91 0.94	42.85 3.69 0.96 0.88 0.74	48.21 4.28 1.12 0.97 1.03	49.60 4.41 1.04 0.77 1.07	53.68 4.42 1.16 1.21 1.12	47.67 3.92 0.95 0.70 0.91
Public utilities	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	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	10.01 7.49 2.52 21.77 10.53	10.51 8.15 2.35 23.65 11.61	8.84 7.03 1.81 22.12 10.24
Seas. adj. quarterly totals at annual rates: Total nonfarm business				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	$316.73 \\ 125.49 \\ 63.10 \\ 62.40$	$328.25 \\ 130.11 \\ 62.58 \\ 67.53$	¹ 332.06 132.22 64.73 67.50	'345.46 136.47 66.26 70.21
Nonmanufacturing do Mining do Railroad do Air transportation do Other transportation do				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	$198.13 \\ 17.55 \\ 4.18 \\ 3.34 \\ 4.09$	199.84 16.59 4.32 4.93 3.96	$208.98 \\ 17.23 \\ 4.20 \\ 3.06 \\ 4.53$
Public utilities		•••••		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	39.55 30.54 9.01 87.55 41.89	38.09 29.82 8.27 88.27 43.69	40.14 30.59 9.55 95.12 44.71
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 dom. Transfers under U.S. military agency sales contracts	221,021 142,054 8,090	228,925 184,473 6.609	344,667 223,966 8,231	65,424 42,036 1,894	68,890 43,834 1,705	74,718 47,236 1,599	79,894 51,367 1,411	85,764 54,898 1,738	83,617 55,667 2,085	86,655 56,252 2,272	88,636 57,149 2,136	94,431 61,098 2,131	95,083 60,477 2,279	94,250 58,037 2,562		
Receipts of income on U.S. assets abroad do Other services	43,265 27,614	66,700 31,145	75,936 36,536	14,111 7,383	15,582 7,769	18,055 7,828	18,952 8,164	20,465 8,663	16,860 9,005	18,850 9,281	19,764 9,587	21,566 9,636	22,399 9,928	23,610 10,041		
Imports of goods and services do Merchandise, adjusted, excl. military do Direct defense expenditures do Payments of income on foreign assets in the	-230,030 -175,813 -7,352	-281,917 -211,819 -8,556	-333,888 -249,308 -10,746	-62,885 -46,766 -2,028	-68,188 -51,117 -2,029	-72,265 -54,210 -2,164	-78,582 -59,726 -2,334	-85,981 -65,024 -2,656	-82,830 -62,411 -2,512	80,177 59,154 2,727	-84,902 -62,719 -2,851	-89,641 -65,775 -2,699	-92,423 -67,387 -2,977	-90,256 -65,079 -2,634		
U.S. mil. \$ Other servicesdo	-21,865 -25,000	-33,236 -28,307	-43,174 -30,660	-7,352 -6,739	-7,949 -7,093	-8,734 -7,157	-9,203 -7,319	-10,629 -7,672	-10,342 -7,565	-10,697 -7,600	-11,507 -7,825	-12,513 -8,654	-13,666 -8,393	-14,120 -8,423		
Unilateral transfers (excl. military grants), net mil. \$ U.S. Government grants (excl. military) do Other do	-5,067 -3,183 -1,884	-5,593 -3,536 -2,058	-7,056 -4,659 -2,397	-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	-1,518 -965 -553	1,894 -1,292 -602		
U.S. assets abroad, netdo U.S. official reserve assets, netdo U.S. Gov't assets, other than official reserve	-61,070 732	-62,639 -1,133	84,776 8,155	-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	-21,971 -905	-18,004 -4		
assets, net mil. \$ U.S. private assets, net	-4,644 -57,159 -16,056	-3,767 -57,739 -23,949	-5,165 -71,456 -18,546	-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	-1,485 -19,581 -4,945	-1,242 -16,758 -1,433		
Foreign assets in the U.S., net do Foreign official assets, net. do Other foreign assets, net do Direct investments in the U.S. do	63,748 33,561 30,187 7,897	38,946 -13,757 52,703 11,877	50,261 15,492 34,769 10,854	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	12,888 -2,779 15,667 3,839	15,056 -5,847 20,903 3,947		
Allocation of special drawing rights do Statistical discrepancy	11,398	$1,139 \\ 21,140$	1,152 29,640	1,139 3,430	9,309	-455	8,857	$1,152 \\ 6,073$	18,151	2,676	2,736	1,093 10,901	7,941			
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	-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		-4,677 4,790 4,240 3,263	-6,910 2,660 2,107 1,142	-7,042 3,994 3,392 2,100		

See footnotes at end of tables.

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data		1980	1980						19	31						1982
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS		ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	GENE	RAL	BUSI	NESS	IND	ICAT	ORS-	-Moi	nthly	Serie	es	1		1		
PERSONAL INCOME BY SOURCE †																
Seasonally adjusted, at annual rates: † Total personal income bil. \$	1,943.8	2,160.2	2,276.6	2,300.7	2,318.2	2,340.4	2,353.8	2,367.4	2,384.3	2,419.2	2,443.4	2,462.6	*2,474.7	¹ 2,492.0	¹ 2,490.9	2,494.7
Wage and salary disbursements, total do Commodity-producing industries, total do	1,236.1 437.9	1,343.7 465.4	1,411.2 491.1	$1,433.1 \\ 500.5$	1,442.8 500.3	$1,452.8 \\ 503.2$	1,459.6 504.8	1,467.3 508.1	1,473.9 511.5	1,484.9 517.0	$1,500.3 \\ 521.2$	1,510.3 522.4	1,517.5 522.5	1,527.7 522.2	'1,521.1 '518.3	1,524.9 516.1
Manufacturingdo Distributive industriesdo	333.4 303.0	350.7 328.9	369.9 341.7	375.6 348.4	377.2 352.6	379.4 354.8	383.7 357.0	387.8 357.7	388.8 358.7	391.7 360.7	394.7 365.9	395.4 369.3	393.9 368.5	*391.8 *371.7	r387.3 r367.1	385.0 370.6
Service industries do Govt. and govt. enterprises do	259.2 236.1	295.7 253.6	313.7 264.8	318.3 265.9	322.6 267.2	326.5 268.4	328.4 269.4	330.9 270.5	332.2 271.7	334.4 272.8	339.6 273.6	341.4 277.2	344.6 281.9		*351.0 *284.6	351.9 286.4
Other labor income	118.6 30.8	137.1 23.4	145.0 22.6	146.6 19.9	148.0 18.7	149.5 18.2	150.9 20.2	151.6 21.7	153.0 23.2	154.8 24.4	156.3 25.2	157.8 24.4	159.2	160.5	161.9 ⁻ 22.9	163.2 20.6
Nonfarm do Rental income of persons with capital	100.7	107.2		112.8	112.6	114.2	113.0	112.2	112.2	112.2	112.4	112.5	111.9		111.0	110.8
consumption adjustment	30.5 48.6	31.8 54.4	32.5 56.7	32.5 57.4	32.7 58.2	32.9 58.3	33.1 59.4	33.3 60.2	33.5 61.1	33.7 62.4	33.9 63.0	34.1 63.5	34.3 63.9	34.5 64.1	34.7 64.3	34.9 64.5
Personal interest income do Transfer payments do	209.6	256.3 294.2	314.7	281.8 318.4	289.1 318.4	295.2 321.9	297.9 322.5	300.6 323.5	304.1 326.5	309.2 341.9	315.7 341.7	322.3 343.0	326.3 7343.6	"329.1 "347.4	331.5 *350.0	333.8 351.9
Less: Personal contrib. for social insur do Total nonfarm income do	80.6 1,892.9	87.9 2,112.6	91.9 2,228.5	101.9 2,254.8	102.3 2,273.2	102.6 2,295.4	102.9 2,306.4	103.1 2,318.1	103.3 2,333.1	104.3 2,366.4	105.2 2,389.3	105.5 2,409.0	106.3 r2,420.6	'106.8 '2,437.7	*106.3 *2,437.2	109.9 2,442.7
DISPOSITION OF PERSONAL INCOME * Seasonally adjusted, at annual rates:	ł										i					
Total personal income	1,943.8 302.0	2,160.2 338.5	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	2,419.2 393.7	2,443.4 400.2	2,462.6 405.4	394.8	r399.5	1399.6	2,494.7 393.7
Equals: Disposable personal income do Less: Personal outlays do Personal consumption expenditures do	1,641.7 1,555.5 1,510.9	1,821.7 1,720.4 1,672.8	1,913.1 1,819.7 1,771.0	1,931.4 1,847.8 1,799.3	1,946.6 1,855.6 1,806.9	1,965.4 1,873.2 1,824.1	1,975.6 1,869.6 1,820.0	1,984.9 1,875.5 1,825.7	1,996.3 1,891.9 1,841.6	2,025.5 1,916.1 1,865.6	2,043.2 1,945.5 1,894.3	2,057.3 1,943.6 1,891.7	r2,079.9 r1,948.1 1,895.3	1,964.8	1,970.8	2,101.1 1,985.4 1,932.4
Durable goods	212.3	211.9 675.7	224.2 713.1	236.6 721.5	237.7	240.5 729.6	229.4 733.9	226.4 731.5	226.1	230.0 746.8	245.2 752.5	233.4	226.3	*227.8	226.4	234.1 757.2
Services	696.3	785.2	833.7	841.2	842.4	853.9	856.6	867.9	874.9	888.8	896.6	903.8	*913.8		*930.4	941.0
businessdo Personal transfer payments to foreigners (net)do	43.7 1.0	46.4 1.2	47.1	47.4 1.1	47.7 1.0	48.2 1.0	48.6 1.0	48.8 1.0	49.3 1.0	49.6 1.0	50.3 1.0	50.9 1.0	51.2 1.6	51.2		51.4 1.6
Equals: personal saving do	86.2	101.3		83.6	91.0	92.2	106.0	109.4	104.4	109.3	97.7	113.7	r131.9			115.7
Personal saving as percentage of disposable personal income §percent	5.2	5.6	4.9	4.6	4.6	4.9	5.2	5.4	5.4	5.1	5.2	^{5.6}	6.0	¹ 6.1	5.8	
Disposable personal income in constant (1972) dollars bil. \$ Personal consumption expenditures in	1,011.5	1,018.4	1,027.4	1,030.4	1,034.1	1,035.3	1,036.8	1,036.5	1,037.3	1,041.6	1,045.5	1,043.7	1,048 .1	1,049.5	1,044.3	
constant (1972) dollars	930.9 146.6	935.1 135.8	951.1 139.2	959.9 146.0	959.8 146.8	960.9 147.7	955.1 139.6	953.4 136.6	956.9 136.0	959.4 137.0	969.3 145.8	959.7 138.0	[*] 955.1 133.1	"958.9 "133.8	957.6 132.6	
Nondurable goods do Services do	. 354.6 . 429.6	358.4 440.9	362.8	364.8 449.1	365.5 447.6	363.1 450.1	366.5 449.0	365.5 451.3	368.9 452.0	368.7 453.6	370.1 453.4	367.7 454.0	367.0 *455.1	'369.2 455.9		
Implicit price deflator for personal consumption expenditures index, 1972=100	162.3	178.9	186.2	187.4	188.3	189.8	190.6	191.5	192.5	194.5	195.4	197.1	198.4	'199.4	200.3	
INDUSTRIAL PRODUCTION Federal Reserve Board Index of Quantity Output																
Not Seasonally Adjusted					;											
Total index	152.5	147.0	145.8	146.4	151.7	152.7	151.5	152.6	156.5	151.0	155.4	155.8	152.4	146.5	P139.3	°134.6
Products, total	150.0 147.2	146.7 145.3	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	151.5 150.1	156.0 154.4	157.6 156.5	153.8 153.3	'147.6 '147.2	₽140.5	°136.8 °137.5
Consumer goods do Durable consumer goods do Nondurable consumer goods do	150.8 155.8 148.8	145.4 136.7 148.9	138.1 132.1 140.5	140.8 134.1 143.5	147.0 142.8 148.7	148.1 148.3 148.0	147.2 148.3 146.7	148.4 150.5 147.6	154.4 153.6 154.8	147.7 134.8 152.9	154.7 137.4 161.6	156.2 142.4 161.7	152.5 145.0 155.5	143.7 131.7 148.4	P117.2	°132.5 °112.1 °140.7
Equipment do	148.0 142.2 160.5	145.2 151.9	147.0 149.7	145.3 148.1	140.7 149.4 154.1	149.9 155.1	149.1 155.2	151.0 155.9	155.9 159.7	153.3 156.9	154.0 162.0	157.0 161.5	*154.4 *155.9	152.2	P148.7 P141.4	°144.3 °134.2
Materials do	156.4	147.6	149.6	150.4	155.4	156.7	154.5	155.1	157.2	150.2	154.3	153.2	'150.1	r144.8	₽137.0	*131.4
Mining and utilities do Manufacturing do	144.7 153.6	149.5 146.7	153.1 144.9	158.6 144.8	158.1 150.7	154.4 152.5	145.2 152.4	145.5 153.4	155.6 156.6	161.4 149.5	164.1 154.3	156.8 155.5	*152.5 *152.4	*152.3 *145.8		*159.8 *131.5
Nondurable manufactures	164.0 146.4	161.2 136.7	156.5 137.0	156.9 136.4	164.3 141.3	164.8 144.1	165.3 143.4	166.1 144.7	170.5 147.0	163.9 139.5	172.2 142.0	173.4	169.3 140.7	145.8 161.4 135.0	P149.7	°145.2 °122.1
Seasonally Adjusted											-					
Total index do By market groupings:	152.5	147.0	150.4	151.4	151.8	152.1	151.9	152.7	152.9	153.9	153.6	151.6	'149.1	146.4	Р143.4	°139.1
Products, total	150.0 147.2	146.7 145.3	149.4 147.8	149.9 147.8	150.2 148.2	150.7 149.0	151.3 149.9	152.3 151.3	152.2 151.4	$153.0 \\ 152.1$	$152.6 \\ 151.5$	151.0 150.0	'149.4 '148.9	147.6 147.1	P145.8	°142.3 °142.3
Consumer goods do Durable consumer goods do	150.8 155.8	145.4 136.7	147.1 141.3	146.9 140.1	147.8 141.2	148.3 143.6	148.9 144.3	150.7 147.3	150.3 147.9	150.7 146.5	149.6 142.5	147.8 140.4	'146.5 '136.3	144.2 r129.7	P142.3 P123.7	°138.1 °116.9
Automotive products do Autos and utility vehicles do	167.7 154.3	132.8 110.1	139.0 116.2	$130.4 \\ 102.7$	133.9 108.5	139.2 116.1	142.9 120.2	151.8 129.1	153.1 131.4	147.6 123.0	137.6 107.8	139.1 110.0	'132.8 '101.7	'121.7 '88.9		°106.4 °70.4
Autos do Auto parts and allied goods do	136.7 201.5	103.6 190.4	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	$\begin{array}{c} 118.1 \\ 210.0 \end{array}$	104.0 213.1	103.3 212.9	'92.5 '211.8	81.1 "205.0		°61.3 °197.7
Home goods	149.2 127.4 173.0	138.9 117.3	142.6 126.4 157.3	145.6 132.2	145.2 125.8	146.1 129.1 160.2	145.0 121.2 165.2	144.8 121.4	145.0 120.0	145.8 123.6	145.3 126.8	141.1 119.0	138.2 116.7	*134.3 *107.7	P125.6	°122.9 °88.4
Carpeting and furniture do Nondurable consumer goods do	148.8	155.2 148.9	157.3 149.3	156.2 149.6	160.4 150.5	150.1	150.7	163.1 152.1	166.3 151.2	163.2 152.3	160.1 152.5	158.6 150.8	'152.6 '150.5	*148.0 *150.0		°146.6
Clothing do Consumer staples do Consumer foods and tobacco do	131.9 153.5 145.0	126.0 155.2 147.4	121.0 157.2 149.0	121.2 157.5 149.3	120.9 158.6 150.5	118.9 158.8 150.5	120.6 159.0 150.2	122.1 160.3 151.3	120.9 159.6 149.6	122.8 160.5 150.5	121.9 161.0 150.6	119.3 159.5 149.5	*117.8 *159.6 *150.7	116.4 159.3 150.7	P159.5 P151.3	°157.6
Nonfood staples do	163.4	164.3	166.6	167.0	168.1	168.4	169.3	170.8	171.3	172.2	173.0	171.1	*169.9	'169.3	P169.0	*167.5
Equipmentdo Business equipmentdo Industrial equipment #do	142.2 171.3 152.2	145.2 173.2 156.5	148.8 177.1 159.1	149.1 177.7 161.5	148.7 177.5 163.4	150.0 179.3 164.6	151.4 181.0 165.9	152.1 182.0 167.0	153.0 183.6 169.0	154.1 184.8 169.4	154.0 184.4 170.2	152.9 182.7 168.9	'152.1 '180.5 '166.9	'151.2 '178.6 '165.2	₱150.5 ₱177.0 ₱163.5	°148.0 °172.9 °160.1
Building and mining equip	206.3 130.3	239.9 128.2	253.3 128.5	264.0 127.7	270.4 128.4	276.6 128.6	281.7 128.5	286.4 128.4	289.7 130.6	290.3 130.8	293.0 130.8	293.6 129.3	"295.6 "125.7	r292.8 123.9	P292.6 P121.9	°289.4 °118.6
Commercial, transit, farm eq. # do Commercial equipment do	193.4 228.1	192.4 237.8	$198.0 \\ 248.5$	196.6 249.3	$193.7 \\ 250.4$	$196.2 \\ 252.7$	198.6 254.5	199.4 258.0	200.4 259.9	$202.5 \\ 263.7$	200.9 264.3	198.5 264.2	r196.2	194.1 259.0	₽192.5 ₽256.9	*187.6 *251.1
Transit equipment do Defense and space equipment	151.6	139.9 98.2	139.0 101.0	133.1 100.9	124.8 100.5	127.8 100.7	131.5	130.0 102.0	129.7	128.4 102.6	124.6 102.8	121.0	'120.6	'116.6	₽116.3	°113.0
See footnotes at end of tables.	93.4	98.2	101.0	100.91	100.51	100.71	101.5	102.01	101.7	102.61	102.8	l 103.0	r104.5	l 105.1	₽106.0	*106.1

See footnotes at end of tables.

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SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, dat		1980	1980					<u> </u>	19	81			<u></u>			1982
through 1978 and descriptive notes are as show in the 1979 edition of BUSINESS STATISTIC	s	nual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	GE	NERA	L BU	SINE	SS IN	IDIC	ATOF	RS_C	ontir	nued			•	·		•
INDUSTRIAL PRODUCTION—Continued																
Seasonally Adjusted—Continued By market groupings—Continued																
Intermediate products	158.0	140.9	155.4 145.2 165.5	157.5 148.4 166.6	157.7 148.9 166.4	157.1 149.0 165.1	156.3 147.9 164.7	156.1 146.5 165.6	154.9 143.4 166.2	156.2 144.3 168.0	156.8 144.0 169.5	154.6 139.7 169.4	151.4 135.2 167.5	149.2 130.6 167.5	P146.9 P128.2 P165.6	°122.0
Materials do. Durable goods materials # do.	157.8	147.6 143.0	152.2 147.4	153.8 150.0	154.3 150.6	154.4 152.2	152.9 151.8	153.4 152.8	154.0 152.4	155.3 153.6	155.2 154.3	152.5 150.4	148.5 145.6	r144.6 r140.8	P139.3 P134.9	°134.1 °128.4
Durable consumer partsdo. Equipment partsdo. Nondurable goods materials #do.	189.9		113.8 186.1 179.6	114.7 189.7 180.2	114.3 188.9 179.9	118.4 191.1 177.5	119.7 192.8 179.3	121.1 194.0 179.0	123.1 193.2 176.9	123.2 193.8 176.5	121.8 194.7 175.4	114.5 192.7 175.5	107.6 190.3 170.6	102.5 188.0 165.1	P93.6 P183.9 P157.6	*82.6 *178.9 *150.5
Textile, paper, and chemical	183.7 128.9	177.7	187.8 129.6	187.6 130.2	187.3 131.6	185.1 130.9	186.8 123.1	187.3 123.0	183.7 129.3	183.5 133.3	182.4 132.6	182.5 128.9	176.4 128.3	100.1 170.4 128.5	°160.6 °127.2	*153.6 *127.5
By industry groupings: Mining and utilities do.	144.7	149.5	152.4	153.3	154.1	154.8	150.5	152.1	156.3	159.1	158.2	155.8	r156.1	r155.6	₽154.2	°154.1
Mining do. Metal mining do. Coal do.	127.0	109.2	138.6 122.2 153.5	140.4 125.5 147.5	143.1 134.1 159.0	143.2 131.1 151.2	135.2 123.1 75.9	135.4 125.0 77.0	141.7 123.5 122.9	146.5 123.6 170.0	146.0 124.1 167.4	145.0 121.5 161.9	145.3 119.8 166.9	143.7 114.8 160.8	P142.2 P109.4 P145.5	°141.7 °144.7
Oil and gas extraction # do. Crude oil do.	121.7 94.6	133.3 94.9	138.4 95.1	141.4 95.4	142.2 95.0	144.1 95.7	146.1 96.3	146.2 95.2	148.2 96.2	147.7 95.2	148.2 94.8	148.8 95.0	"148.9 94.0	'149.1 93.9	P150.3 P94.5	°150.9
Natural gas do. Stone and earth minerals do.	137.6	111.1 132.8	114.4 137.4	113.3 138.4	108.7 140.0	111.8 138.8	112.7 133.7	111.8 132.2	112.8 132.7	$111.5 \\ 133.3$	116.8 128.2	111.5 123.4	111.9 122.0		P114.2	
Utilities do. Electric do.			167.9 189.5	167.6 189.3	166.4 187.1	167.8 188.9	167.6 188.6	170.7 192.9	172.7 195.6	173.1 196.2	171.9 194.2	167.8 188.3	"168.1 "189.4	r168.9 r190.9	P167.5 P189.3	°167.9 °189.7
Manufacturing do. Nondurable manufactures do. Foods do.	164.0	146.7 161.2 149.6	150.4 165.0 151.0	151.1 165.6 151.9	151.2 166.2 152.5	151.6 165.3 152.4	152.0 165.9 151.9	152.8 166.4 152.2	152.4 165.8 151.3	153.2 167.1 151.6	153.2 167.3 151.9	151.1 165.9 150.7	7148.0 7162.8 7151.4	145.2 160.6 152.7	P141.9 P157.6 P152.0	
Tobacco products do. Textile mill products do.		119.9	118.8 135.6	123.5 138.4	125.4 139.3	125.7 136.2	122.2 138.9	122.3 138.8	120.9 138.3	121.3 139.4	123.8 140.7	122.4 136.3	*124.3 *132.5	124.4 126.3	P123.2	
Apparel products] 134.4	127.0	122.7 157.0	123.8 156.5	121.6 156.0	120.2 157.6	121.6 157.0	122.6 155.9	121.1 153.4	122.6 154.9	122.6 156.7	122.5 158.6	'117.8 153.3	114.4	P146.1	
Printing and publishing do. Chemicals and products do.	211.8	139.6 207.1	143.0 220.5	143.9 218.9	144.8 219.8	142.7 218.5	141.6 219.8	141.3 220.6	143.1 218.4	$144.4 \\ 221.5$	146.1 219.2	145.9 216.3	"145.6 "208.8	'144.7 '205.2	P146.3 P198.8	
Petroleum products do. Rubber and plastics products do. Leather and products do.	272.2	132.9 255.7 70.1	131.3 262.3 67.9	133.1 264.0 68.9	131.5 270.2 68.3	130.3 269.5 68.8	130.0 275.2 68.9	129.8 280.3 69.8	129.3 285.1 68.4	128.7 285.3 70.1	130.4 286.7 69.6	129.1 282.2 69.7	128.3 י276.0 71.2	r128.2 r263.5 r70.8	P128.9 P252.0 P66.5	*125.0
Durable manufactures do. Ordnance, pvt. and govt do. Lumber and products do.	75.2	136.7 78.5 119.3	140.3 79.6 123.6	141.0 78.6 127.4	140.8 78.4 126.2	142.1 78.5 125.6	142.5 79.8 126.3	143.5 80.9 126.2	143.2 80.9 122.5	143.6 80.6 122.9	143.4 81.8 119.1	140.9 82.3 113.2	'137.8 '82.5 109.6	'134.5 '83.8 '104.8	P131.0 P85.3 P101.8	°126.0 °85.9
Furniture and fixtures do. Clay, glass, and stone products do.	163.9	150.0 147.5	148.6 153.0	150.0 156.8	154.3 156.4	155.6 154.6	158.7 154.3	158.9 151.7	162.4 148.1	164.9 148.7	163.3 148.2	159.9 147.3	157.2 143.4	154.5 '135.8	P150.8 P133.4	
Primary metals do. Iron and steel do. Nonferrous metals do.	113.2	102.3 92.4 119.8	$111.5 \\ 103.0 \\ 127.1$	114.1 108.7 124.1	114.5 108.4 125.9	114.9 108.0 127.7	110.6 103.4 122.2	111.9 105.6 121.6	107.4 98.5 123.1	109.4 99.7 131.8	113.1 105.1 128.8	108.6 99.2 125.0	'102.3 '92.2 '119.3	¹ 96.7 187.2 1112.9	₽88.8 ₽77.8 ₽108.5	*83.0
Fabricated metal products do. Nonelectrical machinery do.	148.5 163.7	134.1 162.8	135.7 166.9	135.8 167.3	137.6 168.3	139.2 169.2	139.5 169.7	138.4 172.1	139.3 174.1	140.1 176.7	140.0 176.4	136.8 173.9	'133.8 '169.7	*130.5 *167.9	P126.6 P164.8	*121.2 *160.0
Electrical machinery do. Transportation equipment do.	135.4	172.8 116.9	175.1 120.4	177.6 117.4	174.9 116.1	177.4 119.5	178.8 121.3	179.9 123.7	180.1 123.4	180.9 119.8	182.6 115.4	180.0 114.2	179.6 110.6	"176.3 "106.1	P172.2	°168.3 °97.3
Motor vehicles and parts do. Instruments do.	159.9 174.9	119.0 171.1	125.7 171.9	120.0 173.9	119.9 171.1	127.1 170.0	130.7 170.0	136.4 170.6	137.5 171.3	130.5 172.1	123.1 172.3	120.4 169.7	113.8 168.6	'105.5 '167.2	P100.7 P164.0	°90.2 °159.0
BUSINESS SALES Mfg. and trade sales (unadj.), total ‡ mil. \$. 3,536,797	3,846,477	356,011	323,300	331,124	361,175	354,873	353,099	366,401	341,248	349,730	357,025	358,871	'343,537	358,986	
Mfg. and trade sales (seas. adj.), total ‡ do.	13,536,797	13,846,477	343,752	349,018	350,334						-	353,717		1 .		
Manufacturing, total †	1,727,291 909,631 817,660	936,030 909,906	163,719 83,482 80,236	164,588 83,329 81,259	165,508 84,215 81,293	165,804 85,058 80,746	167,491 86,327 81,164	167,527 86,664 80,863	171,494 88,770 82,724	170,324 87,319 83,005	169,518 86,841 82,677	168,581 86,179 82,402	164,085 82,583 81,502	"161,979 "81,641 "80,338	161,629 81,275 80,534	
Retail trade, total § do. Durable goods stores do.	304,809	¹ 956,655 297,926	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	88,591 28,439	88,699 28,380	86,660 26,319	*87,222 *26,484	87,060 26,640	
Nondurable goods stores do. Merchant wholesalers, total @ do.	589,534 ¹ 915,163	658,729	57,460 96,591	58,388 98,967	58,482 98,016	59,179 96,486	59,499 97,577	58,965 96,217	59,852 95,564	59,597 97,085	60,152 94,674	60,319 96,437	60,341 94,542	¹ 60,738 ¹ 96,012	60,420 94,592	
Durable goods establishments do. Nondurable goods establishments do.	410,079 505,084	438,439 605,447	39,403 57,188	40,370 58,597	41,511 56,505	39,907 56,579	40,299 57,278	40,584 55,633	41,045 54,519	41,244 55,841	40,552 54,122	40,294 56,143	39,603 54,939	*40,700 *55,312	40,498 54,094	
Mfg. and trade sales in constant (1972) dollars (seas. adj.), total * bil. \$ Manufacturing * do.			159.4 74.4	160.5 73.9	161.4 74.3	160.4 74.3	159.8 74.8	158.5 74.2	160.2 75.7	159.0 74.6	158.2 73.8	158.4 73.4	153.5 70.8	"153.4 "69.8	152.9 69.9	
Retail trade *			45.7 39.2	46.7 39.9	47.1 40.1	46.8 39.2	46.0 39.0	45.7 38.5	46.4 38.1	45.9 38.5	46.8 37.6	46.6 38.4	44.9 37.8	'45.1 '38.5	45.1 37.9	
BUSINESS INVENTORIES Mfg. and trade inventories, book value, end of year																
or month (unadj.), total ‡ mil. \$ Mfg. and trade inventories, book value, end of year	440,354	470,769	470,769	476,328	483,898	489,556	490,985	492,671	494,485	495,544	498,254	504,114	513,410	[*] 520,102	507,488	
or month (seas. adj.), total ‡ mil. \$ Manufacturing, total † do.		475,202 257,979	475,202 257,979		484,069	485,467 266,524	487,060 267,506	490,254 269,260	494,226 269,709		502,458 273,361	508,132 276,616	511,682 278,440	"515,165 "279,544	513,080 277,172	
Durable goods industries do. Nondurable goods industries do.	161,390	171,603 86,376	171,603 86,376	261,752 174,223 87,529	264,496 175,620 88,876	266,524 176,229 90,295	267,506 177,123 90,383	269,260 177,635 91,625		180,855	273,361 182,221 91,140	276,616 185,140 91,476	186,718	*187,275 *92,269	185,789 91,383	
Retail trade, total § do. Durable goods stores do. Nondurable goods stores do.) 53.274	111,694 51,853 59,841	111,694 51,853 59,841	$111,790 \\ 52,234 \\ 59,556$	$113,507 \\ 52,374 \\ 61,133$	113,404 51,791 61,613	113,963 52,306 61,657	115,426 53,529 61,897	117,307 54,880 62,427	119,824 56,199 63,625	$121,277 \\ 57,121 \\ 64,156$	122,219 57,124 65,095	123,485 57,492 65,993	"123,799 "57,464 "66,335	123,662 56,970 66,692	
Merchant wholesalers, total @ do. Durable goods establishments do. Nondurable goods establishments	93,817 60,291	105,529 67,938 37,591	105,529 67,938 37,591	104,909 67,319 37,590	106,066 68,482 37,584	105,539 68,571 36,968	105,591 69,174 36,417	105,568 69,876 35,692	107,210 70,589 36,621		107,820 70,855 36,965	109,297 72,501 36,796	109,757 72,874	'111,822 '74,648 '37,174	$112,246 \\ 74,499 \\ 74,499$	
Mfg. and trade inventories in constant(1972)dollars end of year or month(seas.adj.),total*bil. \$ Manufacturing *do. Retail trade *do. Merchant wholesalers *do.			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	266.5 146.8 66.4 53.2	267.1 146.9 66.3 53.9	268.5 147.7 66.4 54.5	269.7 148.1 66.9 54.7	r270.4 148.1 r66.8 r55.5	269.4 147.5 66.3	

See footnotes at end of tables.

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SURVEY OF CURRENT BUSINESS

February 1982

Unless otherwise stated in footnotes below, data	1979	1980	1980						198	81						1982
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Anr	nual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	GEI	NERA	L BU	SINE	SS IN	DICA	ATOR	RS_C	ontin	ued		6		<u>.</u>		f
BUSINESS INVENTORY-SALES RATIOS																
Manufacturing and trade, total ‡ ratio Manufacturing, total † do	1.41 1.57	1.45 1.65	1.38 1.58	1.37 1.59	1.38 1.60	1.39 1.61	1.39 1.60	1.40 1.61	1.39 1.57	1.40 1.60	1.42 1.61	1.44 1.64	1.48 1.70	"1.49 1.73	1.49 1.71	
Durable goods industries	1.98 0.65	2.16 0.70	2.06 0.64	2.09 0.66	2.09	2.07 0.65	2.05 0.65	2.05 0.64	2.01 0.63	2.07 0.65	2.10	2.15 0.67	2.26 0.70	^{1.10} 2.29 0.71	2.29 0.70	
Work in process	0.85	0.96 0.50	0.93 0.48	0.96 0.47	0.95 0.47	0.95 0.47	0.94 0.47	0.92 0.46	0.92 0.46	0.94	0.96	0.98 0.51	1.03 0.53	1.05 0.54	1.04 0.54	
Nondurable goods industries do	1.12	1.13	1.08	1.08	1.09	1.12	1.11	1.13	1.10	1.10	1.10	1.11	1.13	1.15	1.00	
Materials and supplies	0.46	0.46 0.18	0.44 0.18	0.44 0.18	0.45 0.18	0.45 0.18	0.45 0.18	0.45 0.19	0.44 0.18	0.44 0.17	0.44 0.18	0.45 0.18	0.45 0.17	0.46 0.18	0.46 0.18	j
Finished goods do Retail trade, total § do	0.47	0.48 1.41	0.46 1.34	0.46 1.31	0.47 1.31	0.48 1.29	0.48 1.33	0.49 1.35	0.49 1.34	0.49 1.37	0.48 1.37	0.49 1.38	0.50 1.42	0.51 1.42	0.49 1.42	
Durable goods stores	2.08	2.09 1.10	2.00 1.04	1.93 1.02	1.85	1.82 1.04	1.98 1.04	2.02 1.05	1.99 1.04	2.02 1.07	2.01 1.07	2.01 1.08	2.18 1.09	2.17	2.14 1.10	
Merchant wholesalers, total @ do	1.17	1.16	1.09	1.06	1.08	1.09	1.08	1.10	1.12	1.10	1.14	1.13	1.16	1.16	1.19	
Durable goods establishments	1.64	1.71 0.74	1.72 0.66	1.67 0.64	1.65 0.67	1.72 0.65	1.72 0.64	1.72 0.64	1.72 0.67	1.69 0.65	1.75 0.68	1.80 0.66	1.84 0.67	1.83 0.67	1.84 0.70	
Manufacturing and trade in constant (1972) dollars,			1.05	1.04	1.00	1.04	1.05	1.07		1.00	1.60	1 70	1.70	11.70	1.70	
total *do Manufacturing *do			1.65 1.95	1.64 1.97 1.38	1.63 1.96 1.36	1.64 1.97	1.65 1.96 1.39	1.67 1.98 1.41	1.66 1.93	1.68 1.97 1.45	1.69 1.99 1.42	1.70 2.01 1.42	1.76 2.09 1.49	1.76	1.76 2.11	
Retail trade * do Merchant wholesalers * do			1.41 1.36	1.38	1.30	1.36 1.35	1.35	1.38	1.41 1.41	1.45	1.42	1.42	1.45	1.48 1.44	1.47 1.47	
MANUFACTURERS' SALES, INVENTORIES, AND ORDERS ¶																
Manufacturers' export sales: Durable goods industries:																2
Unadjusted, total mil. \$ Seasonally adj., total do	82,988	97,078	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 † do	1,727,291	1,845,936	157,597	152,094	167,163	175,250	170,022	169,040	179,978	156,408	166,520	174,010	170,346	י161,275	156,075	
Durable goods industries, total do Stone, clay, and glass products do	909,631 44,239	936,030 45,519	79,978 3,665	75,385 3,476	84,746 3,903	91,521 4,277	88,627 4,364	88,289 4,279	95,046 4,592	78,497 4,151	83,181 4,288	88,536 4,335	86,763 4,164	*80,945 *3,824	78,408 3,373	
Primary metals	136,201 66,902	134,052 62,481	10,981 5,639	11,353 5,765	12,253 6,108	12,559 6,392	12,431 6,437	12,267 6,364	12,628 6,617	10,806 5,736	11,556 5,921	11,724 5,965	11,191 5,698	10,114 '10,114' '5,154	9,117 4,802	
Fabricated metal products do Machinery, except electrical do	115,159 166,680	116,869 182,838	10,010 16,545	9,263 15,160	10,405 16,982	11,078 18,412	10,724 17,194	10,800 16,869	11,300 18,736	9,701 15,465	10,535 16,244	10,671 17,814	10,497 17,136	"9,297 16,675	9,020 17,667	{
Electrical machinery do Transportation equipment do	112,482 200,538	125,908 191,388	10,596 16,653	9,986 15,535	11,293 17,706	$11,812 \\ 20,522$	$11,301 \\ 19,872$	$11,338 \\ 20,067$	12,330 21,924	10,351 16,373	11,402 16,547	12,339 18,286	11,839 18,828	'11,583 '17,433	11,422 16,494	
Motor vehicles and parts do Instruments and related products do	133,099 39,343	114,909 45,994	9,860 4,059	9,980 3,641	11,236 4,027	12,912 4,327	12,664 3,979	13,045 4,148	14,397 4,552	10,228 3,894	9,997 4,198	11,039 4,587	12,299 4,395	10,670 r4,251	8,992 4,228	
Nondurable goods industries, total do	817,660 240,821	909,906 254,745	77,619	76,709 20,901	82,416	83,729 22,860	81,395	80,751 21,749	84,932 23,171	77,911 21,057	83,339 22,394	85,474 23,316	83,583 22,763	780,330 721,900	77,667 21,603	
Food and kindred products do Tobacco products do Textile mill products do	11,009 44,558	12,467 46,167	22,383 1,159 3,689	1,037	22,348 1,058 4,130	1,060 4,558	$22,312 \\ 1,101 \\ 4,225$	1,046 4,409	1,149 4,755	1,186	1,218 4,430	1,190	1,164 4,320	1,199	1,217	
Paper and allied products do	66,040	71,660	5,855	6,036	6,679	6,799	6,587	6,553	6,720	6,106	6,658	6,690	6,581	*6,347	6,008	
Chemical and allied products do Petroleum and coal products do	153,849 134,297	167,101 176,599	14,609 15,880	14,074 16,866	$15,250 \\ 17,091$	16,472 16,109	$15,607 \\ 15,723$	$15,413 \\ 16,236$	16,153 16,491	14,180 15,772	15,055 16,458	16,078 16,086	14,787 16,249	14,477 15,778	14,503 15,738	
Rubber and plastics products do	48,944	48,061	3,530	3,617	3,869	4,017	4,133	3,915	4,227	3,732	4,040	4,087	4,152		3,413	
Shipments (seas. adj.), total † do By industry group: Durable goods industries, total # do			163,719 83,482	164,588 83,329	165,508 84,215	165,804 85,058	167,491 86,327	167,527 86,664	171,494 88,770	170,324 87,319	169,518 86,841	168,581 86,179	164,085 82,583	*161,979 *81,641	161,629 81,275	
Stone, clay, and glass products			4,124 11,849	4,170	4,215 4,216 11,896	4,211 11,321	4,293 11,691	4,180	4,207	4,250	4,004 11,981	4,024	3,845 11,065	^{3,860} 10,635	3,791 9,834	
Blast furnaces, steel mills do			6,077	6,286	5,896	5,622	6,101	6,209	6,172	6,228	6,111	5,929	5,710	•5,518	5,169	
Fabricated metal products do Machinery, except electrical do			10,693 16,196	10,211 16,636	10,518 16,573	10,550 16,919	10,459 16,836	10,594 16,775	10,591 17,303	10,547 17,070	10,432 17,246	10,286 17,353	9,989 16,924 11,262		9,622 17,127	
Electrical machinery			10,756 17,560	10,777 16,941	11,041 17,338	11,284 18,453 11,285	11,373 18,961	11,597 19,130	11,679 20,440	11,713 18,967	11,682 19,431	11,667 18,956	17,198	'16,803	11,587 17,285	
Motor vehicles and parts do Instruments and related products do			11,034 4,065	10,543 4,039	10,909 4,129	11,285 4,136	11,987 4,030	12,257 4,208	13,378 4,257	12,390 4,308	12,370 4,205	11,971 4,299	10,686 4,241	10,018	10,074 4,235	
Nondurable goods industries, total # do Food and kindred products			80,236 22,274	81,259 22,476	81,293 22,121	80,746 21,930	81,164 22,700	80,863 21,931	82,724 22,676	83,005 22,638	82,677 22,453	82,402 22,421	81,502 22,077	780,338 721,493	80,354 21,557	
Tobação producta do	1		1,133 3,857	1,079 4,078	1,122 4,167	1,086 4,235	1,095 4,195	1,034 4,350	1,154 4,467	1,195	1,186	1,211 4,427	1,099 4,061	1,173	1,192	
Paper and allied products do Chemicals and allied products			6,397 15,610	6,279 14,865	6,575 14,911	6,525 15,166	6,536 14,704	6,426 14,875	6,392 15,296	6,493 15,459	6,446 15,458	6,537 15,489	6,489 15,053	6,533 15,328	6,572	
Textile mill products			15,573 3,920	16,883 3,924	16,747 3,730	16,153 3,766	15,969 3,962	16,404 3,850	16,357 4,074	15,859 4,129	16,405 3,956	16,049 3,971	16,479 3,945	15,830 3,642	15,435 3,789	
By market category: †										-						
Home goods and apparel	¹ 125,499 ¹ 307,267 ¹ 246,683	1329,448	11,554 29,024 24 217	11,869 28,882 24,233	12,173 28,759 24 315	$12,054 \\ 28,366 \\ 25,641$	$12,282 \\ 29,003 \\ 25,185$	12,235 28,207 25 241	12,572 29,344 25,938	12,792 29,219 25,208	12,400 28,919 26.044	12,217 29,267 26 185	11,971 28,664 25,163	11,793 28,506	28.576	
Equipment and defense prod., exc. auto do Automotive equipment do Construction materials and supplies do	153,819 146,246	1277,290 134,880 143,461	$24,217 \\ 12,764 \\ 12,854$	24,233 12,225 13,062	24,315 12,738 13,040	25,641 13,017 13,100	25,185 13,827 13,056	25,241 14,134 12,812	25,938 15,230 12,696	25,208 14,381 12,754	26,044 14,227 12,289	26,185 13,688 12,310	25,163 12,442 11,925	'26,236 '11,600 '11,564	11,783	
Other materials and supplies	146,246	143,461	12,854 73,306	74,316	74,484	73,626	13,056 74,137	12,812 74,898	75,714	12,754 75,949	75,639	74,914	73,920	·11,564 ·72,280	71,361	
Household durables	¹ 55,039 1277,017	¹ 57,950 1308,369	4,910 26,838	5,124 26,721	5,322 26,923	5,292 28,159	5,547 27,773	5,291 27,982	5,403 28,714	5,512 28,160	5,274 28,992	5,360 28,822	5,194 27,871	'5,128 '28,935	5,148	
Nondefense do Defense do	¹ 242,591 ¹ 34,426	¹ 267,211 ¹ 41,158	23,156 3,683	23,156 3,564	23,062 3,861	23,999 4,161	23,810 3,964	24,041 3,941	24,602 4,112	23,931 4,229	24,573 24,419	24,608 4,214	23,534 4,337	*24,433 *4,502	24,456	
Inventories, end of year or month: † Book value (unadjusted), total do	240,407	256,583	256,583	262,735	266,053	267,908	269,614	271,609	270,228	271,008	272,545	273 900	276,040	277,405	275,538	
Durable goods industries, total	159,631 80,776	169,616 86,966		174,255 88,480	176,849 89,205	177,879 90,029	179,091 90,523	179,959 91,650		180,681	181,967 90,578	183,091 90,809		185,149 192,256	183,712	
Book value (seasonally adjusted), total † do	241,572	257,979	257,979	261,752	264,496	266,524	267,506	269,260	269,709			276,616			· ·	
By industry group: Durable goods industries, total # do	161,390	171,603	171,603	174,223 6,223	175,620	176,229	177,123	177,635	178,676	180,855	182,221			r187,275	185,789	
Stone, clay, and glass products do Primary metals do Blast furnaces, steel mills do	5,726 21,446	6,145 21,976	6,145 21,976	22,771	6,369 23,240	6,398 23,640	6,390 23,402	6,509 23,163	6,599 23,334	6,642 23,926	6,831 24,412	$185,140 \\ 7,037 \\ 25,087$	25,268	'6,953 '25,361	6,924 25,184	
	11,792	11,844	11,844	12,190	12,454	12,722	12,362	12,112	12,169	12,556	12,734	13,120	13,148	'13,129	13,083	
Fabricated metal products do Machinery, except electrical	19,888 37,468	19,773 39,189	19,773 39,189	20,129 39,317	20,034 39,582	19,812 39,618	19,799 39,705	19,796 40,070	19,973 40,342	20,031 41,036	20,232 41,366	20,440 42,017	20,598 42,282	¹ 20,733 ¹ 42,502	20,171 42,540	
Electrical machinery do Transportation equipment	22,749 32,166	24,383 36,810	24,383 36,810	24,756 37,623	25,083 37,810	25,057 38,111	25,589 38,305	25,457 38,427	25,689 38,628	25,987 38,949	26,243 38,695	26,517 39,424	26,865 40,264	'27,976 '40,250	26,779	
Motor vehicles and parts do Instruments and related products do	10,887	9,694 9,281	9,694 9,281	9,612 9,330	9,568 9,372	9,605 9,380	9,489 9,581	9,376 9,645	9,275 9,603	9,397 9,569	9,088 9,585	9,316 9,738	9,453 9,714	9,094 r9,771	9,001 9,649	

See footnotes at end of tables.

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SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown in the 1970 addition of DUSINESS STATUSTICS	1979	1980	1980			[]			196	51				<u></u>		1982
in the 1979 edition of BUSINESS STATISTICS	Ann		Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
······································	GEI	NERA	L BU	SINE	SS IN		ATOF	ts—C	ontin	ued						
MANUFACTURERS' SALES, INVENTORIES, 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	53,808 8,924 10,993 7,229	53,808 8,924 10,993 7,229	55,293 9,429 11,003 7,491	55,870 9,522 10,942 7,488	55,495 9,401 10,843 7,340	55,857 9,135 11,123 7,577	55,282 8,695 11,069 7,556	55,816 8,849 11,212 7,581 9,762	56,867 9,074 11,150 7,626	56,594 9,095 11,195 7,842	57,495 9,315 11,482 7,798	57,648 9,374 11,480 7,928	'57,740 '9,426 '11,562 '7,903	56,830 9,318 11,298 7,790	
Transportation equipment do Work in process # do	9,042 70,462	8,836 77,935 7,960	8,836 77,935	9,123 79,743	9,258 80,090	9,594 80,584 8,951	9,627 81,000 8,958	9,549 81,933 9,157	9,762 81,769 9,107	10,394 82,431 9,315	9,766 82,996 9,571	9,931 84,083 9,888	9,899 84,986 9,913	"9,807 "85,574 "9,944	10,056 84,912 9,969	
Primary metalsdo Machinery, except electricaldo Electrical machinerydo Transportation equipmentdo	8,045 17,120 11,058 19,277	17,556 12,452 23,902	7,960 17,556 12,452 23,902	8,463 17,759 12,582 24,625	8,648 17,884 12,866 24,622	17,844 12,893 24,600	17,671 13,136 24,807	18,000 13,098 25,107	17,828 13,290 25,022	18,327 13,465 24,762	18,503 13,375 25,065	18,537 13,551 25,499	18,654 13,661 26,065	*18,764 *13,714 *26,337	18,611 13,714 25,921	
Finished goods # do Primary metals do Machinery, except electrical do Electrical machinery do Transportation equipment do	37,434 5,176 9,443 4,588 3,847	39,860 5,092 10,640 4,702 4,072	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	42,631 5,746 11,668 5,026 3,864	43,562 5,884 11,998 5,168 3,994	44,084 5,981 12,148 5,276 4,300	r43,961 r5,991 r12,176 r5,359 r4,106	44,047 5,897 12,631 5,275 4,038	
Nondurable goods industries, total # do Food and kindred products	80,182 21,308	86,376 22,325	86,376 22,325	87,529 22,133	88,876 22,074	90,295 22,237	90,383 22,055	91,625 22,114	91,033 21,862	91,017 21,836	91,140 21,951	91,476 21,826	91,722 21,600	'92,269 '21,619	91,383 20,930	·····
Tobacco products	3,487 6,047 7,079 17,001 6,594	3,507 6,386 7,798 18,489 8,240	3,507 6,386 7,798 18,489 8,240	3,699 6,439 8,090 18,879 8,422	3,604 6,525 8,233 19,201 9,117	3,689 6,518 8,286 19,488 9,885	3,643 6,545 8,246 19,490 9,932	3,699 6,562 8,224 20,029 10,278	3,570 6,604 8,332 20,218 9,996	3,765 6,608 8,429 20,116 9,604	3,931 6,550 8,445 20,281 9,320	3,966 6,642 8,588 20,363 9,206	4,043 6,676 8,664 20,722 8,772	4,036 *6,709 *8,822 *20,755 *8,663	4,245 6,730 8,801 20,585 8,609	
Rubber and plastics products do By stage of fabrication: do Materials and supplies do Work in process do Finished goods do	5,568 33,362 12,871 33,949	5,279 35,572 14,108 36,696	5,279 35,572 14,108 36,696	5,321 36,113 14,401 37,014	5,539 36,381 14,682 37,813	5,538 36,412 14,782 39,103	5,652 36,656 14,799 38,927	5,616 36,673 14,979 39,973	5,634 36,311 14,607 40,115	5,677 36,786 14,573 39,658	5,624 36,421 14,772 39,947	5,703 36,692 14,568 40,216	5,729 36,716 14,222 40,784	'5,801 '37,022 '14,063 '41,184	5,560 37,285 14,328 39,770	
By market category: † Home goods and apparel mil. \$ Consumer staples do Equip. and defense prod., exc. auto do Automotive equipment	19,814 30,685 61,876 13,488	20,663 32,201 69,908 11,872	20,663 32,201 69,908 11,872	20,873 32,522 70,784 11,819	21,022 32,553 71,469 11,717	21,201 32,880 71,400 11,775	21,420 32,693 72,284 11,666	21,761 32,891 72,697 11,592	21,410 32,658 73,240 11,530	21,637 32,826 73,756 11,688	21,881 33,205 74,156 11,394	21,982 33,142 75,148 11,714	22,570 33,184 76,180 11,866	¹ 23,064 133,020 176,570 111,570	22,887 32,848 76,674 11,478	
Construction materials and supplies do Other materials and supplies do Supplementary series: Household durables	20,694 95,015 9,978	21,266 102,070 9,992	21,266 102,070 9,992	21,372 104,382 10,065	21,532 106,203 10,139	21,602 107,666 10,236	21,660 107,783 10,360	22,055 108,264 10,323	22,393 108,478 10,250	22,613 109,352 10,446	22,727 109,998 10,674	23,006 111,624 10,719	22,795 111,845 10,981	"22,901 "112,419 "11,037	22,429 110,856 10,895	
Capital goods industries	69,027 60,421 8,606 1,770,917	78,245 67,224 11,021 1,860,708	78,245 67,224 11,021 161,700	79,571 68,154 11,418 157,134	80,243 68,616 11,628 169,653	80,456 68,473 11,984 177,003	81,266 69,100 12,165 171,926	81,608 69,335 12,273 168,602	82,376 69,676 12,700 178,014	83,283 70,602 12,681 156,831	83,742 71,053 12,689 164,781	85,074 72,055 13,019 172,733	86,053 72,985 13,068 168,150	"86,513 "72,972 "13,541 "158,259	86,488 73,020 13,468 155,590	
Durable goods industries, total	952,236 818,681 1,770,917	951,169 909,539 ¹ 1,860,708	83,964 77,736 166,900	80,159 76,974 165,423	86,993 82,659 166,987	93,232 83,771 167,361	90,242 81,684 168,584	87,680 80,922 169,340	93,280 84,734 170,913	79,035 77,796 172,611	81,487 83,294 170,063	87,507 85,226 168,444	84,898 83,252 159,005	"78,472 "79,787 "159,923	78,148 77,442 160,277	
Durable goods industries, total	¹ 952,236 ¹ 139,164 ¹ 67,296 ¹ 57,112	¹ 951,169 ¹ 134,057 ¹ 63,213 ¹ 58,694	86,577 11,634 5,788 4,718	84,208 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	89,696 12,466 6,436 4,842	87,350 11,602 6,082 4,466	86,278 11,422 6,022 4,348	77,804 10,170 5,107 3,944	r79,956 r10,032 r5,124 r4,036	80,184 9,492 5,001 3,743	
Fabricated metal products	¹ 118,122 ¹ 174,481 ¹ 118,430 ¹ 222,639 ¹ 65,198	¹ 115,993 ¹ 182,782 ¹ 130,744 ¹ 202,676 ¹ 63,658	10,912 18,030 11,051 18,177 4,465	10,063 17,718 11,416 17,825 5,111	10,604 15,876 11,290 18,633 5,118	10,556 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	10,979 17,303 12,600 20,909 4,083	$10,804 \\ 16,376 \\ 12,055 \\ 20,653 \\ 6,116$	9,901 17,658 11,920 20,375 5,106	10,054 17,498 12,487 18,627 5,617	9,282 15,984 10,370 15,780 3,432	^{19,262} 17,472 11,873 15,429 3,966	9,399 17,420 12,021 16,090 4,390	
Nondurable goods industries, total do Industries with unfilled orders ‡ do Industries without unfilled orders ¶ do	¹ 818,681 ¹ 170,301 ¹ 648,380	1909,539 184,074 1725,465	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	82,915 17,213 65,702	82,713 17,033 65,680	82,166 17,031 65,135	81,201 16,605 64,596	r79,967 r16,644 r63,323	16,809	
By market category: † Home goods and apparel	¹ 125,037 ¹ 307,300 ¹ 272,908 ¹ 152,456	¹ 134,892 ¹ 329,506 ¹ 291,959 ¹ 133,322 ¹ 149,702	11,623 29,035 27,534 12,828 10,857	12,009 28,908 26,746 12,281	12,494 28,746 24,742 12,922	12,245 28,376 26,834 13,089	12,328 29,075 25,606 13,822	$12,083 \\ 28,188 \\ 25,365 \\ 14,258 \\ 12,755 \\ 1$	12,776 29,384 25,025 15,083	$\begin{array}{r} 12,828 \\ 29,253 \\ 26,944 \\ 14,474 \\ 12,900 \end{array}$	12,353 28,945 27,503 14,284	12,221 29,282 25,302 13,408	11,578 28,655 23,225 12,490	*11,556 *28,547 *26,956 *11,171 *11,698	11,768 28,528 25,382 11,943 11,050	
Other materials and suppliesdo Supplementary series: Household durablesdo Capital goods industriesdo	¹ 146,659 ¹ 766,557 ¹ 55,000 ¹ 310,832	¹ 142,793 ¹ 828,236 ¹ 58,183 ¹ 326,752	12,857 73,023 5,040 29,656	12,869 72,611 5,264 29,353	13,001 75,082 5,675 27,436	13,154 73,662 5,473 29,307	12,843 74,909 5,603 28,699	76,691 5,119 29,248	13,166 75,479 5,625 28,186	76,059 5,510 29,708	11,944 75,034 5,252 30,459	12,273 75,958 5,388 29,580	11,571 71,486 4,810 24,826	"69,995 "4,873 "28,663	71,606 5,199 28,263	
Nondefense do. Defense do Unfilled orders, end of year or month (unadjusted), total † mil, \$	¹ 270,115 ¹ 40,717 302,889	¹ 270,571 ¹ 56,181 317,661	24,664 4,991 317,661	24,823 4,530 322,700	21,185 6,251 325,192	24,460 4,848 326,943	3,976 328,847	23,865 5,383 328,411	23,230 4,956 326,446		24,700 5,759 325,133		20,996 3,830 321,651		318,146	
Durable goods industries, total do Nondur. goods ind. with unfilled orders ‡ do Unfilled orders, end of year or month (seasonally	291,856 11,033	306,995 10,666	306,995 10,666		314,017 11,175	315,727 11,216		316,736 11,675	314,968 11,478	315,502 11,364	313,812 11,321	312,779 11,074	310,908 10,743	'308,436 '10,199	308,171 9,975	
adjusted) total † mil. \$ By industry group: Durable goods industries, total # do	304,963 293,668	319,729 308,815	319,729 308,815	320,566 309,695	322,045 310,926	323,602 312,598		326,508 314,954	325,918 314,477	328,206 316,853	328,757 317,369	328,613 317,460	323,538 312,681	'321,478 '310,995	320,123 309,900	
Primary metalsdo Blast furnaces, steel millsdo Nonferrous and other primary met do	30,220 16,684 8,795	30,248 17,439 9,008	30,248 17,439 9,008	28,561 16,469 8,391	28,536 16,524 8,499	28,955 16,926 8,557	29,095 17,161 8,572	29,080 17,028 8,712	28,595 16,897 8,425	29,090 17,105 8,599	28,708 17,075 8,344	28,521 17,168 8,062	27,627 16,565 7,638	"27,024 "16,171 "7,522	26,683 16,004 7,424	
Fabricated metal products do Machinery, except electrical do Electrical machinery do Transportation equipment do Aircraft, missiles, and parts do	31,062 74,318 42,335 101,898 75,867	30,189 74,396 47,225 113,043 88,371	30,189 74,396 47,225 113,043 88,371	30,041 75,478 47,863 113,928 89,122	30,127 74,781 48,112 115,223 89,993	30,134 74,602 48,494 116,198 91,299	29,964 75,270 49,082 115,934 90,249	29,975 75,580 49,207 116,900 91,319	30,362 75,578 50,124 115,515 90,504	30,620 74,885 50,466 117,456 92,166	30,091 75,297 50,707 118,405 92,449	29,856 75,440 51,526 118,073 93,126	29,150 74,499 50,634 116,657 92,010	¹ 28,917 ¹ 74,526 ¹ 51,072 ¹ 115,283 ¹ 91,187	28,694 74,818 51,506 114,086 90,405	
Nondur. goods ind. with unfilled orders ‡ do By market category: †	11,295	10,913	10,913	10,870	11,119	11,005	11,244	11,554	11,441	11,353	11,388	11,153	10,857	'10,483	10,223	
Home goods, apparel, consumer staples do Equip. and defense prod., incl. auto do Construction materials and supplies do Other materials and supplies	4,393 173,693 18,276 108,600	3,988 186,876 17,587 111,277	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	191,739	4,609 191,9°0 17,137 112,772	4,854 190,926 17,607 112,531	4,922 192,756 17,752 112,645	4,902 194,278 17,407 112,170	4,921 193,108 17,371 113,213	4,517 191,219 17,017 110,785	'17,151	4,310 190,299 16,771 108,743	
Supplementary series: Household durables	3,302 197,598 144,066 53,532	2,954 216,028 147,673 68,355	2,954 216,028 147,673 68,355		3,447 219,174 147,463 71,711		148,838	3,511 222,518 148,666 73,852	3,732 222,984 147,288 74,696	3,728 223,533 147,581 75,952	3,708 225,006 147,712 77,294	3,735 225,758 146,126 79,632	143,589	r3,093 r222,442 r142,969 r79,473	3,143 221,676 141,320 80,356	

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Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980	1980						19	91			r			1982
in the 1979 edition of BUSINESS STATISTICS	Anr	iual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	GEI	NERA	L BU	SINE	SS IN	DICA	ATOF	rs—c	ontin	ued						
BUSINESS INCORPORATIONS ‡ New incorporations (50 States and Dist. Col.): Unadjusted	524,565	533,520	48,940 51,807	46,960 45,864	42,935 47,662	51,278 47,927	52,032 49,574	48,115 48,907	51,729 48,489	52,566 50,433	45,762 47,483	48,305 48,792				
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	1,015 150 190 150 421 104	1,109 155 229 150 468 107	1,133 153 228 156 494 102	1,212 173 228 180 505 126	1,557 217 327 225 625 163	1,464 211 335 180 592 146								
Liabilities (current), totalthous. \$ Commercial servicedo Constructiondo Manufacturing and miningdo Retail tradedo Wholesale tradedo	2,667,362 347,749 291,323 970,178 636,859 421,253	4,635,080 413,502 752,109 1,885,017 993,539 590,913	288,298 27,466 46,720 65,828 124,397 23,887	421,360 124,915 69,030 98,765 99,301 29,349	789,205 34,309 54,401 522,110 88,002 90,383	485,335 40,629 51,853 219,521 87,064 86,268	536,877 65,913 58,801 188,987 165,283 57,893	428,199 60,998 63,722 113,187 109,416 80,876								
Failure annual rate (seasonally adjusted) No. per 10,000 concerns	127.8	'42.1	46.8	48.6	47.8	47.6	61.8	62.0								
			C	OMM	ODI	ry pi	RICE	S				r	, <u> </u>	r		r
PRICES RECEIVED AND PAID BY FARMERS ¶											l					
Prices received, all farm products 1910-14=100. Crops # do Commercial vegetables do Cotton do Feed grains and hay do Food grains do Fruit do Tobacco do Livestock and products # do Dairy products do Meat animals do Poultry and eggs do	602 501 548 490 360 403 534 1,145 708 736 937 252	r614 r539 562 r583 417 452 r465 1,219 691 798 878 878 255	*663 *617 640 683 490 498 *459 1,300 711 863 864 298	*660 *623 *694 *647 *490 497 *455 1,296 697 863 863 848 279	r658 r623 r795 r598 r491 492 r456 1,296 693 856 845 275	r653 r629 r834 r607 r490 486 r450 1,297 677 844 822 270	r652 r618 r664 r614 r488 486 r456 r456 1,300 687 832 851 264	*648 *615 *650 *612 494 471 *470 1,304 680 826 845 254	*650 *597 *601 478 439 *475 1,304 704 820 890 890 261	*649 *595 *662 *594 463 436 *440 1,369 704 820 885 270	r627 r558 r622 549 430 r430 r474 1,409 820 820 877 265	r609 521 r600 490 393 r427 r464 1,452 701 844 873 264	*594 *516 *607 526 382 436 *477 1,404 675 856 856 823 255	*593 *524 *621 507 373 442 *561 1,422 664 856 794 266	r528 r528 r432 r381 r434 r547 1,469 r641 r856 r756 253	59: 53: 82: 42: 38: 38: 51: 1,47: 65: 85: 78: 25:
Prices paid: All commodities and services do Production items do All commodities and services, interest, taxes, and wage rates (parity index) Parity ratio § do Conjugation do Parity ratio § do	725 720 850 71	810 *799 *950 *65	851 1835 1998 166	862 *844 *1,012 65	(²) '847 '1,017 65	"854 "1,024 64	*863 *1,031 63	"863 "1,033 63	"866 "1,037 "63	*859 *1,035 *63	*858 *1,038 60	r859 r1,040 59	*850 *1,037 57	*849 *1,037 57	'840 '1,031 '57	85 1,05 5
CONSUMER PRICES (U.S. Department of Labor Indexes) Not Seasonally Adjusted ALL ITEMS, WAGE EARNERS AND CLERICAL WORKERS, REVISED (CPI-W)	217.7	247.0	258.7	260.7	263.5	265.2	266.8	269.1	271.4	274.6	276.5	279.1	279.7	280.4	281.1	282.
ALL ITEMS, ALL URBAN CONSUMERS (CPI-U) 1967=100. Special group indexes: do All items less shelter	217.4 210.8 213.0 216.1 208.4 215.9 198.7 191.1	246.8 235.5 244.0 245.5 233.9 245.0 235.2 210.4	258.4 245.2 255.5 257.1 243.8 254.1 242.0 221.1	260.5 247.6 257.6 259.2 245.4 256.9 245.3 245.3 221.0	263.2 251.2 260.4 261.9 248.3 262.3 253.2 220.3	265.1 253.3 262.3 263.7 249.8 265.2 257.5 219.8	266.8 254.9 264.2 265.4 250.8 265.9 258.1 221.1	269.0 256.2 267.0 267.6 251.9 265.8 258.2 258.2 223.9	271.3 257.8 269.5 269.9 253.2 266.2 258.0 226.6	274.4 259.9 272.7 273.0 255.0 267.1 257.5 229.6	276.5 261.4 274.9 274.9 256.2 268.1 258.4 230.9	279.3 263.5 278.2 277.8 257.7 269.5 260.3 232.6	279.9 264.5 279.0 278.3 257.9 269.5 260.7 232.9	280.7 265.4 280.1 279.0 258.0 269.5 261.1 233.2	281.5 266.0 280.8 279.6 258.4 269.8 261.1 233.7	282. 267. 281. 280. 258. 270. 260. 260. 233.
Commodities less food do Services do Services less rent do Food # do Food at home do Housing do Shelter # do	195.1 234.2 244.9 234.5 232.9 227.6 239.7	222.0 270.3 285.1 254.6 251.5 263.3 281.7	231.0 284.7 300.7 266.4 263.9 276.9 298.5	232.4 287.7 304.2 268.6 265.6 279.1 300.1	235.4 290.1 306.9 270.8 267.3 280.9 300.5	237.0 292.5 309.5 272.2 268.6 282.6 301.6	238.0 295.4 312.8 272.9 268.7 284.8 303.8	239.6 299.6 317.4 272.5 267.7 288.5 308.4	241.1 303.5 321.9 273.6 268.7 292.2 312.6	242.6 308.8 328.1 276.2 271.6 297.0 318.5	243.8 312.2 331.7 277.4 272.8 299.7 322.0	245.5 317.3 337.5 278.0 273.2 303.7 326.9	245.9 318.6 338.7 277.6 272.1 303.5 326.6	246.2 320.6 340.8 277.1 271.0 304.2 327.2	246.5 321.8 342.0 277.8 271.7 305.2 328.0	245. 323. 344. 281.0 275. 306. 328.
Rent, residential do Homeownership do Fuel and utilities # do Fuel oil, coal, and bottled gas do Gas (piped) and electricity do Household furnishings and operation do Apparel and upkeep do	176.0 262.4 239.3 403.1 257.8 190.3 166.6	191.6 314.0 278.6 556.0 301.8 205.4 178.4	199.6 334.2 289.9 585.3 313.9 211.6 183.9	200.9 335.8 296.7 625.9 318.5 212.6 181.1	201.9 335.8 304.5 675.6 322.9 214.9 182.0	203.0 336.8 308.4 693.4 326.7 216.9 185.1	204.2 339.3 310.5 690.6 330.6 219.2 186.4	205.9 345.0 314.9 685.8 339.6 220.1 186.4	206.8 350.4 320.2 682.0 350.2 221.1 185.8	207.8 358.0 325.1 677.9 357.6 222.4 184.7	210.3 361.8 327.8 674.6 360.8 222.9 187.4	211.9 367.8 331.1 673.4 364.5 224.5 190.7	213.6 366.7 330.1 672.7 360.6 225.6 191.5	215.0 367.2 329.8 676.1 358.3 227.2 191.3	216.5 367.8 331.8 682.5 359.9 227.7 190.5	217. 367. 336. 686.0 367. 228. 187.
Transportation do Private do New cars do Used cars do Public do Medical care do Seasonally Adjusted do	212.0 212.3 166.0 201.0 200.3 239.7	249.7 249.2 179.3 208.1 251.6 265.9	261.1 259.4 184.5 234.4 280.1 275.8	264.7 262.9 185.3 234.0 286.4 279.5	270.9 269.4 184.8 234.3 288.1 282.6	273.5 271.7 182.9 235.4 293.9 284.7	275.3 273.4 186.1 239.1 297.2 287.0	277.8 276.0 190.9 245.2 297.7 289.0	279.9 277.9 192.2 252.9 303.9 291.5	282.6 279.6 192.5 260.3 323.1 295.6	283.7 280.5 191.9 266.9 326.5 299.3	285.2 281.9 191.3 272.8 329.1 301.7	287.2 283.9 192.5 278.2 330.8 304.8	289.1 285.8 195.3 281.4 333.2 308.2	289.8 286.5 197.0 281.9 333.8 310.2	289.9 286.0 197.4 280.8 334.9 313.4
All items, percent change from previous month Commodities 1967 = 100. Commodities less food do Food do Food at home do Apparel and upkeep do Private do New cars do			1.0 *244.9 *231.8 *268.2 *265.5 *182.7 *263.5 *263.5 *262.1 *183.5	^{10.8} ^{1246.4} ^{1233.4} ^{1269.3} ^{1266.1} ^{183.0} ^{1266.5} ^{1264.9} ^{183.9}	1.0 *249.0 *236.3 *271.0 *267.3 184.0 *272.6 *271.3 *183.9	0.6 *250.1 *237.5 *271.7 *268.0 *184.9 *275.3 *273.8 *183.1	0.4 *250.1 *237.3 *272.3 *267.9 *185.7 *274.5 *272.8 *186.1	r0.8 r251.1 r238.5 r272.6 r268.0 r185.8 r275.8 r275.8 r274.1 r189.9	0.7 r252.1 r239.7 r273.2 r268.2 r186.1 r276.9 r274.9 r274.9 r192.0	^{11.1} ^{2254.0} 241.6 ^{275.0} ^{269.9} ^{187.1} ^{279.7} ^{276.6} ^{192.8}	0.8 *255.4 *243.0 *276.5 *271.3 *188.4 *281.4 *278.3 *192.8	*1.1 *257.3 244.9 *278.3 *273.3 *189.0 *284.6 *281.5 *193.7	0.4 258.3 r245.9 r279.0 r273.5 r189.5 r288.2 r285.1 r194.0	0.5 ² 258.8 ² 246.5 ² 279.3 ² 273.3 189.3 ² 290.8 ² 287.8 ² 194.6	0.4 ² 259.6 ² 247.5 ² 279.5 ² 273.1 ¹ 189.4 ² 292.5 ² 289.6 ¹ 96.1	0.: 259.9 247.: 281.1 275.9 189.: 291.9 288. 196.1

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Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980	1980			r -		·	19	31		r,				1982
in the 1979 edition of BUSINESS STATISTICS	Anr	nual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
		CC	MM	DDIT	Y PR	ICES	-Cor	ntinuo	ed							
PRODUCER PRICES § (U.S. Department of Labor Indexes)																
Not Seasonally Adjusted Spot market prices, basic commodities:																
22 Commodities	¹ 277.1 ¹ 255.6	¹ 283.5 ¹ 264.3	287.7 272.6	281.7 267.7	273.4 258.5	275.1 255.0	276.0 253.0	269.7 244.0	(2) (2)					·····		
13 Raw industrials do All commodities do	¹ 293.0 235.6	¹ 297.9 268.8	298.4 280.8	291.6 284.8	284.2 287.6	289.8 290.3	293.0 293.4	288.9 294.1	(²) 294.8	 296.2		·····		 295.5	295.9	298.2
By stage of processing: † Crude materials for further processing do	233.0	304.6	323.5	328.0	336.5	334.2	336.3	334.4	335.4	337.3	333.0	'327.4	320.3	314.1	311.6	318.2
Intermediate materials, supplies, etc do Finished goods #	243.2 217.7	280.3 247.0	291.9 257.2	296.1 260.9	298.3 263.3	302.0 266.0	305.8 268.5	306.7 269.9	307.2 270.5	$308.5 \\ 271.8$	310.1 271.5	'309.7 '271.5	309.3 274.0	309.0 274.5	309.6 275.3	311.3 277.4
Finished consumer goods do Capital equipment do	217.9 216.5	248.9	258.9 250.9	262.5 254.6	265.0 256.7	268.2 258.1	270.6 260.8	271.5 262.5	272.3 263.8	273.5 265.4	273.0 265.8	273.1 265.3	274.7 271.4	274.9 272.9	$275.6 \\ 274.1$	277.7 276.1
By durability of product: Durable goods do	226.9	251.5	261.0	262.7	263.8	264.9	267.8	268.6	269.1	270.8	271.9	[•] 271.8	274.9	275.2	275.9	277.4
Nondurable goods do Total manufactures do	241.7 228.8	282.4 261.5	296.3 272.0	302.6 277.3	306.8 279.3	310.9 282.3	314.2 285.3	314.8 286.2	315.7 286.9	316.8 288.0	316.2 288.6	'315.0 '288.3	312.7 289.7	311.5 289.6	311.6 290.0	314.7 291.8
Durable manufactures do Nondurable manufactures do	226.1 231.1	250.8 273.0	260.4 284.3	262.3 293.5	263.4 296.4	264.4 301.7	267.2 304.9	268.2 305.7	268.9 306.4	270.6 306.9	271.7 306.9	*271.7 *306.3	274.9 305.4	275.5 304.6	276.3 304.5	277.8 306.8
Farm prod., processed foods and feeds do Farm products # do	229.8 241.4	244.7 249.4	257.0 265.3	257.9 264.5	$255.1 \\ 262.4$	253.5 260.7	253.8 263.3	252.9 259.6	254.3 260.7	256.8 263.3	254.2 257.9	*250.3 *251.1	246.1 243.3	242.7 237.4	$241.2 \\ 234.5$	246.2 242.1
Fruits and vegetables, fresh and dried do Grains	229.0 214.8	238.6 239.0	245.1 265.2	$258.7 \\ 277.7$	$275.1 \\ 267.5$	292.8 261.8	286.1 264.7	275.3 257.7	263.3 257.1	265.6 257.4	*258.1 242.7	'252.8 227.0	247.9 227.6	253.2 226.5	279.8 213.6	288.3 225.2
Live poultry do Livestock do	194.3 260.3	202.1 252.7	218.9 251.4	213.1 244.3	220.8 244.6	213.5 239.3	195.4 246.6	207.2 251.8	210.0 263.0	$215.3 \\ 266.5$	$210.3 \\ 262.0$	196.7 257.3	185.7 244.4	$175.0 \\ 231.1$	$171.4 \\ 225.0$	186.8 236.8
Foods and feeds, processed # do Beverages and beverage materials do	222.5 210.7	241.2 233.0	$251.5 \\ 240.5$	253.3 243.0	$250.2 \\ 244.8$	248.5 245.4	247.6 246.0	$248.2 \\ 247.6$	249.9 248.1	$252.2 \\ 249.0$	251.2 249.4	⁷ 248.9 7249.1	246.6 248.3	244.7 250.8	$244.0 \\ 251.5$	247.4 253.5
Cereal and bakery products	210.3 211.2	236.0 230.6	248.7 242.3	251.5 244.7	252.1 245.0	252.2 245.1	253.9 245.4	256.3 244.6	256.4 245.2	258.3 245.1	257.7 *245.3	^{1258.5} 1245.5	256.6 247.4	257.5 246.9	255.9 247.2	256.6 247.7
Fruits and vegetables, processed do Meats, poultry, and fish do	221.9 242.0	228.7 243.1	236.6 248.1	238.4 248.1	243.7 243.6	255.2 242.0	258.0 239.1	259.4 245.2	$262.5 \\ 248.6$	265.9 257.1	r267.3 254.4	*270.0 253.3	271.3 246.6	$270.1 \\ 240.0$	$271.4 \\ 236.3$	272.8 244.2
Industrial commodities do	236.5	274.8	286.6	291.5	2 9 5.7	299.6	303.5	304.7	305.1	306.2	307.2	r307.4	308.8	309.1	310.1	311.7
Chemicals and allied products # do Agric. chemicals and chem. prod do	222.3 214.4	$260.3 \\ 257.1$	268.1 263.3	274.3 267.6	$277.6 \\ 271.6$	280.4 275.8	286.0 277.8	$288.6 \\ 279.1$	290.5 288.9	291.3 288.9	293.3 293.4	293.3 *292.6	292.8 292.3	292.5 295.4	292.7 294.5	293.4 295.8
Chemicals, industrial do Drugs and pharmaceuticals do	264.0 159.4	324.0 174.5	334.6 182.6	344.5 184.7	$352.1 \\ 187.3$	354.5 189.3	362.4 191.0	368.5 192.4	369.7 193.2	370.4 195.5	'371.5 195.0	'371.8 197.8	369.4 198.1	365.6 198.1	364.6 198.7	363.8 200.9
Fats and oils, inedible do Prepared paint do	376.7 204.4	298.0 235.3	$317.1 \\ 241.4$	310.7 242.9	289.7 246.6	295.7 246.6	312.7 248.1	$312.1 \\ 250.0$	$303.1 \\ 250.0$	290.9 250.7	305.6 ¹ 250.7	285.6 250.7	277.7 251.0	282.5 254.8	$280.4 \\ 256.7$	272.8 259.3
Fuels and related prod., and power # do Coal do	408.1 450.9	574.0 467.3	615.7 475.3	634.6 477.8	667.5 480.8	696.5 481.1	707.2 486.1	709.0 487.3	707.6 491.7	704.9 505.5	704.3 *507.0	*703.5 *510.2	697.2 511.1	697.5 513.1	702.7 515.6	705.8 526.1
Electric power	270.2 544.1	321.6 760.7	337.6 844.3	341.4 857.1	346.2 881.6	351.2 889.9	355.5 907.8	360.4 933.9	366.6 954.6	374.6 969.4	'385.8 949.3	*383.8 *976.6	375.9 964.7	377.6 981.4	383.8 1,007.7	392.5 990.2
Petroleum products, refined do	444.8	674.7	717.0	736.9	769.6	825.5	840.9	835.3	828.1	816.3	813.4	'806.1	802.0	797.9	798.3	802.9
Furniture and household durables # do Appliances, household do Furniture, household	171.3 160.9 186.3	187.7 174.2 204.8	193.1 179.5 212.1	194.0 182.2 212.9	195.2 183.5	195.8 184.2	196.4 185.1 216.5	197.4 185.5 216.4	197.3 186.1 218.6	199.5 188.8	199.6 7189.1	'201.0 '190.1 '222.2	201.4 189.5 224.1	$201.6 \\ 189.7 \\ 225.4$	202.2 190.2 227.0	202.7 192.0 228.2
Home electronic equipment do	91.3	91.4	91.0	91.1	213.8 91.3	214.5 91.4	90.9	90.8	86.7	220.0 87.4	*220.7 *87.6	87.8	88.3	88.0	87.8	87.5
Hides, skins, and leather products # do Footwear	$252.4 \\ 218.0$	248.9 233.1	256.9 236.9	258.2 238.4	$257.7 \\ 240.7$	261.2 240.4	263.5 241.1	263.7 241.4	$261.6 \\ 241.5$	$261.1 \\ 242.4$	261.3 "242.5	'261.7 '242.9	262.7 241.6	261.7 241.1	$262.7 \\ 241.7$	264.5 241.4
Hides and skins do Leather	535.4 356.7	370.9 310.6	392.8 332.4	377.5 332.6	367.4 310.0	(²) 322.5	337.8	330.0	321.0	319.0	'313.7	r313.2	312.1	311.3	311.9	320.3
Lumber and wood products do Lumber do	300.4 354.3	288.9 325.8	299.4 333.0	296.5 331.3	294.7 326.9	294.4 326.2	299.4 333.6	298.4 336.3	298.1 335.8	296.5 332.4	294.5 329.9	r289.3 r320.2	284.4 312.0	283.0 308.8	285.2 309.7	285.7 310.6
Machinery and equipment # do Agricultural machinery and equip do	213.9 232.1	239.8 259.2	249.8 272.9	253.3 276.4	$255.3 \\ 278.4$	257.5 279.8	259.6 282.5	260.7 285.7	262.1 286.8	264.8 288.1	266.2 7290.3	r268.1 r292.8	268.8 292.1	270.0 298.7	271.6 301.3	273.5 302.2
Construction machinery and equip do Elec ical machinery and equip	256.2 178.9	$289.4 \\ 201.7$	301.4 208.9	$305.9 \\ 211.9$	$310.0 \\ 213.7$	312.8 216.0	317.0 217.4	318.4 217.5	320.1 219.2	$323.8 \\ 221.1$	325.0 222.8	'326.5 '224.2	329.0 225.0	329.6 226.0	332.0 226.9	$337.0 \\ 228.3$
Met: orking machinery and equip do Metals and metal products #	241.3 259.3	274.4 286.4	285.7 290.6	289.7 294.0	291.6 294.0	294.9 296.4	298.7 298.8	299.9 299.1	301.3 298.4	302.9 302.0	303.5 304.1	305.3 r304.9	306.5 305.5	307.5 303.9	312.2 303.6	313.7 305.1
Heating equipment	$ 187.1 \\ 283.5 $	206.5 305.2	214.0 316.4	216.6 323.0	217.6 323.2	219.5 328.2	219.8 331.0	222.3 330.4	223.5 330.1	226.4 338.8	227.9 339.9	*228.5 *339.8	228.4 341.5	227.6 339.8	229.2 339.7	232.2 343.1
Nonferrous metals do Nonmetallic mineral products # do	261.7 248.6	305.0 283.0	293.4 291.2	292.1 296.6	287.4 297.9	286.5 300.9	288.4	287.7 312.0	284.5	282.8	287.3	*289.4	286.8	281.4	277.5	275.4
Clay prod., structural, excl. refrac	240.0 217.9 244.1	231.5 273.9	233.6 277.6	239.5 239.5 286.2	2397.9 239.8 286.6	244.6 286.9	310.8 246.0 289.9	250.1 291.2	313.6 250.7 293.5	314.3 250.9 293.4	314.1 *250.9 *293.4	*313.2 *255.3 292.9	313.1 255.6 293.3	313.5 255.9 293.2	313.6 257.1 293.5	315.1 257.1 294.8
Gypsum products do Pulp, paper, and allied products do	252.3 219.0	256.3 249.2	252.7 256.7	259.6 264.4	257.3 267.2	257.6 269.0	256.8 271.4	261.1 272.1	260.7 272.9	259.7 274.9	255.3 275.9	252.9 277.8	252.4 279.1	251.3 280.2	249.7 280.7	250.4 283.9
Rubber and plastics products do	229.6 194.3	256.8 217.4	269.4 223.3	$271.7 \\ 224.8$	$272.9 \\ 226.4$	273.8 228.4	275.2 230.8	275.9 231.8	278.5 233.4	279.7 232.1	^{-282.1} 234.1	*285.9 *235.7	288.6 237.7	$287.1 \\ 238.7 \\ 257.5$	$287.5 \\ 239.0$	288.8 239.5
Tires and tubes do Textile products and apparel do	205.9 168.7	236.9 183.5	245.2 190.4	240.9 193.1	243.5 193.9	248.6 195.2	250.7 197.6	251.2 199.2	251.2 200.1	246.8 201.3	'249.9 202.4	256.5 *202.9	257.7 203.0	257.5 203.2	255.9 203.1	256.6 203.7
Synthetic fibers	119.0 109.2	134.7 122.5	140.8 128.2	146.5 129.8	147.1 130.3	148.9 134.6	151.5 151.5 135.0	156.4 138.6	157.9 139.3	159.7 140.3	161.2 142.0	'161.0 '142.3	163.5 142.0	162.5 140.3	162.4 139.8	163.7 135.3
Gray fabrics do Finished fabrics	$127.1 \\ 107.4$	138.1 115.7	$144.0 \\ 120.1$	143.6 122.2	144.0 122.9	144.7 123.2	146.6 124.9	145.8 125.7	147.4 125.6	$148.2 \\ 126.0$	149.0 126.8	149.1 126.8	147.8 126.1	147.9 126.5	147.7 125.8	148.3 126.7
Apparel	160.4 190.4	172.4 206.9	$177.5 \\ 214.3$	179.9 219.8	180.7 221.3	181.4 221.3	184.3 222.1	$ \begin{array}{r} 185.2 \\ 224.0 \end{array} $	186.2 223.9	$ 187.2 \\ 227.1 $	'187.8 '228.8	"188.0 "232.2	187.9 237.4	$ 188.7 \\ 237.9 $	189.1 238.1	190.1 241.9
Transportation equipment #Dec. 1968=100 Motor vehicles and equip 1967=100	188.1 190.5	207.0 208.8	$224.3 \\ 226.2$	$227.4 \\ 229.0$	$229.1 \\ 230.9$	$228.1 \\ 229.5$	231.9 233.9	$233.6 \\ 236.0$	234.3 236.7	$235.0 \\ 237.4$	235.9 238.4	'231.8 '232.8	244.4 247.5	246.2 248.6	246.7 249.2	248.3 250.4
Seasonally Adjusted ‡																
Finished goods, percent change from previous			0.4	1.2	0.8	'1.1	۰0.9	r0.2	¹ 0.6	0.4	0.3	r0.2	'0.5	0.5	0.3	0.4
By stage of processing: † Crude materials for further processing 1967=100			328.1	r329.1	'332.1	'328.4	'333.2	*333.7	'336.9	'337.6	r334.4	*328.4	'323.1	'318.2	r313.8	319.2
Intermediate materials, supplies, etc do Finished goods #			$293.5 \\ 257.8$	^r 297.1 260.8	'298.4 262.8	'301.5 '265.7	*304.1 *268.2	"305.7 "268.8	'306.9 '270.3	'308.1 '271.3	*309.7 272.1	"309.8 "272.6	'309.7 '273.9	"310.6 "275.3	311.3 *276.1	$312.4 \\ 277.3$
Finished consumer goods do Food do			259.7 250.9	262.7 *250.7	264.6 *250.4	"267.8 "252.3	270.4 252.7	270.6 253.3	'272.0 '254.5	r272.9 r256.6	273.3 *256.8	*273.9 *255.5	*274.9 *254.8	¹ 276.1 1253.2	'276.6 '253.1	277.9 255.9
Finished goods, exc. foods do Durable			261.2 212.9	¹ 265.5 ¹ 213.2	¹ 268.3 ¹ 214.2 1208 7	r272.1 r214.4	¹ 275.5 1216.2	*275.6 *217.7	'277.1 218.9	"277.4 "218.5 "221 2	^r 277.9 219.6 r221.5	r279.3 r219.5 r323.9	*281.0 *222.3	¹ 283.4 1224.1	284.2 224.3	284.8 224.0
Nondurable do Capital equipment do			297.4 250.8	'304.5 '253.8	'308.7 '256.0	'315.1 '257.9	'319.8 '260.2	"318.8 "262.0	'320.4 264.1	r321.2 r265.6	"321.5 "267.4	323.9 267.8	r324.8 r270.4	'327.6 '272.5	'328.9 '274.1	$330.1 \\ 275.2$

Capital equipment See footnotes at end of tables.

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SURVEY OF CURRENT BUSINESS

																19 130
Unless otherwise stated in footnotes below, data	1979	1980	1980						196	81						1982
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Anr	nual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
		CC	MMC	DIT	Y PR	ICES	-Cor	ntinue	ed			<u></u>				
PRODUCER PRICES-Continued																
(U.S. Department of Labor Indexes)—Continued Seasonally Adjusted																l
By durability of product: Total manufactures			273.3	(2)			ĺ									ļ
Durable manufactures do			261.2 285.9	(2) (2)												
PURCHASING POWER OF THE DOLLAR				()												
As measured by: Producer prices	0.459	0.405	0.389	0.383	0.380	0.376	0.372	0.371	0.370	0.368	0.368	r0.368	0.365	0.364	0.363	0.36
Consumer prices do	0.460		0.387	0.384	0.380	0.377	0.375	0.372	0.369	0.364	0.362	0.358	0.357	0.356	0.355	0.35
		CON	STRU	JCTIC	ON A	ND R	EAL	EST	ATE							.
CONSTRUCTION PUT IN PLACE																
New construction (unadjusted), total mil. \$ Private, total # do	230,781	230,273 174,897	19,696 15,413	16,882 13,190	16,184 12,689	18,020 14,182	19,254 15,088	19,978 15,565	21,297 16,355	21,498 16,440	21,407 16,409	21,834 16,363	'21,261 '16,261	"20,057 "15,522	18,640 14,752	
Residential dododo	99,030 78,587	87,261 63,139	7,480	6,623 4,920	6,178 4,668	6,924 5,242	7,584	7,883 5,613	8,001 5,810	7,814 5,694	7,610 5,541	7,359 5,384	7,099 5,031	r6,690 r4,613	5,955 3,902	
Nonresidential buildings, except farm and public utilities, total # mil. \$	47,298	52,434	4,536	4.110	4,042	4,450	4,614	4,716	5.073	5,333	5,511	5,527	5,635	¹ 5,498	4,996	
Industrial do	14,950	13,837 29,945	1,228 2,548	1,093 2,324	1,063 2,283	1,252 2,457	1,239 2,609	1,283	1,370 2,875	1,492 3,028	1,621 3,065	1,651 3,031	1,684 3,087	1,611 3,067	1,480 2,791	
Public utilities: Telephone and telegraph do	6,343	6,733	1 ,040 545	456	455	588	557	566	611	590	602	645	696	626		
Public, total # do	49,090	55,376	4,283	3,693	3,496	3,839	4,166	4,414	4,941	5,058	4,998	5,470	4,999	*4,535	3,888	
Buildings (excluding military) # do Housing and redevelopment do	15,857 1,211	18,864 1,648	$1,620 \\ 152$	1,499 150	1,361 140	$1,508 \\ 147$	1,493 159	1,507 158	1,553 155	1,601 146	1,615 150	1,745 129	1,528 125	'1,571 '139	1,472 141	
Industrial do	1,411	1,788	174	180	135	178	170	191	187	183	157	230	112	r159	204	
Military facilities do Highways and streets do	1,647 11,996	1,880 13,785	149 824	140 664	170 594	135 653	168 880	181 1,061	182 1,465	180 1,530	145 1,469	163 1,563	164 1,414	168 r1,121	160 729	
New construction (seasonally adjusted at annual rates), total			245.4	259 .0	254.5	250.3	246.5	235. 9	234.0	233.9	229.8	230.9	*229.9	'231.6	229.3	
Private, total # do			187. 9	193.9	193.2	189.6	189.9	184.1	181.8	182.3	180.6	178.6	178.2	'179 .2	177.2	
Residential do New housing units do			98.9 70.4	100.7 74.2	99.7 75.1	96.3 73.0	95.2 72.9	89.7 67.7	86.0 64.3	82.9 60.5	80.5 58.1	78.5 55.9	78.2 •52.8	78.1 51.0	78.9 50.4	
Nonresidential buildings, except farm and public utilities, total # bil. \$			54.3	58.2	58.4	58.3	58.1	56.8	58.4	60.5	61.4	61.2	61.2	r62.1	59.8	
Industrial do Commercial do Duble activitient			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	18.3 33.7	18.3 33.4	18.6 33.0	*18.4 *34.5	17.2 33.8	
Public utilities: Telephone and telegraph do			6.2	7.1	7.3	7.1	6.9	7.0	6.5	6.8	6.7	7.1	7.2	7.4		
Public, total # do			57.6 20.4	65.2 20.7	61.3 19.7	60.6 20.4	56.6 18.6	51.8 17.9	52.2 17.6	51.6 17.4	49.3 17.5	52.2 18.5	51.6 *17.5	י52.4 י18.9	52.0 18.7	1
Buildings (excluding military) # do Housing and redevelopment do Industrial do			1.8 2.2	2.3 2.3	1.9 1.9	1.9 2.0	2.0 2.0	1.9	1.8 2.0	1.5	1.8	1.4	1.4	10.5 1.6 72.2	1.6 2.6	
Military facilities do			1.7	1.8	2.2	1.7	2.1	2.1	2.3	2.1	1.6	1.8	2.1	2.0	1.9	
Highways and streets do CONSTRUCTION CONTRACTS			13.1	19.4	17.8	16.2	15.1	12.4	13.3	13.2	12.2	12.5	11.5	^{12.5}	11.3	
Construction contracts in 50 States (F.W. Dodge							I									
Division, McGraw-Hill): Valuation, total mil. \$ Index (mo. data seas. adj.)	168,446 '186	*148,393 *162	'12,214 193	10,467 192	$10,405 \\ 177$	13,904 183	14,378 172	13,350 160	14,919 170	13,651 153	12,289 156	12,868 159	12,328 157	9,722 142	11,577 172	
Public ownership mil. \$	46,646	*41,717	'3 ,167	3,242	3,007	3,649	3,703	3,236	3,407	3.292	3,336	3,965	3,541	2,406	2,862	
Private ownership do By type of building:	121,800	106,676	°9,046	7,225	7,399	10,255	10,675	10,113	11,512	10,360	8,953	8,903	8,787	7,316		
Nonresidential do Residential do Non-building construction do	50,206 74,557 43,683	*52,492 *63,668 *32,234	*4,471 *5,540 *2,203	4,122 4,207 2,139	4,085 4,206 2,114	5,345 5,929 2,630	5,272 6,569 2,537	5,050 5,887 2,413	5,560 5,904 3,454	5,572 5,853 2,227	5,270 4,894 2,126	5,125 4,844 2,898	5,287 4,872 2,169	4,380 3,737 1,605	4,445 3,739 3,393	
New construction planning (Engineering News-Record) §	135,005	149,143	13,071	14,991	12,449	11,212	15,545	14,093	11,684	12,897	11,890	11,999	16,597	15,492	17,516	
HOUSING STARTS AND PERMITS	100,000	110,110	10,011	1,001	,	,	,	,	,	,	,	,				
New housing units started: Unadjusted:																
Total (private and public)thous Privately owned do	1,760.0 1,745.1	1,312.6 1,292.2	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	87.3 86.3	90.9 84.1	88.1 87.2	r64.9 r64.6	"60.8 "60.2	47.
One-family structures do	1,194.1	852.2	56.6	48.0	48.0	70.5	83.6	73.8	72.5	69.5	57.0	58.3	49.9	^{40.1}	*34.7	29
Seasonally adjusted at annual rates: Total privately owned do One-family structures			'1,457 '927	r1,585 r974	'1,294 '835	'1,318 '863	1,301 868	1,172 ¹ ,177	*1,046 *705	'1,040 '696	'946 '614	7899 7623	*854 *507	*860 *554	*899 *559	
New private housing units authorized by building				0.1	000		000				~~~					
permits (16,000 permit-issuing places): Monthly data are seas. adj. at annual rates:	1	1 101	1.040	1 01 /	1.100	1 150	1 100	1 100	000	010	ont	050	700	700	1700	
Totalthous One-family structuresdo	1,552 982	1,191 710	1,249 753	1,214 715	1,165 677	1,153 678	1,186 689	1,167 654	963 567	913 528	865 494	850 453	722 398	723 401	*789 *454	
Manufacturers' shipments of mobile homes Unadjustedthous	277.4	r221.6	16.0	15.9	'17.4	'21.6	[*] 24.1	22.9	"23 .1	r21.8	'22.4	21.5	20.2	15.7	14.2	
Seasonally adjusted at annual rates do See footnotes at end of tables.			*239	r232	*254	255	265	r262	256	267	'238	'232	'208	'207	206	

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February 1982

SURVEY OF CURRENT BUSINESS

February 1982		50	JKVE	I OF	CUR	RENT	BUS	INES	S							3-1
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown		1980	1980						19	81						1982
in the 1979 edition of BUSINESS STATISTICS		nual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	CON	STRU	CTIO	N AN	ID RI	EAL I	ESTA	TE—	Conti	nued						
CONSTRUCTION COST INDEXES										Ĺ						
Dept. of Commerce composite 1977 = 100.	. 128.7	143.3	147.8	149.2	149.7	152.1	151.1	150.6	150.2	152.2	153.0	154.5	155.5	156.0	158.2	
American Appraisal Co., The: 1913=100. Average, 30 cities do Atlanta do New York do San Francisco do St. Louis do	. 2,357 2,506 2,431 2,498 2,424	2,495 2,660 2,553 2,671 2,343	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	2,676 2,898 2,658 2,893 2,494	2,678 2,892 2,655 2,896 2,491	2,678 2,878 2,646 2,918 2,523	2,700 2,893 2,659 2,934 2,535	
Boeckh indexes: Average, 20 cities: Apartments, hotels, office buildings 1977=100. Commercial and factory buildings	. 114.7	125.1 -127.7		131.1 133.9		132.6 135.3		135.4 138.1		139.7 141.9		142.1 145.3		143.2 145.9		144. 146.
Residences do Engineering News-Record: Building	. 119.0	287.7	298.6	129.7 298.2	298.4	131.3 298.0	305.5	134.4 307.3	308.3	138.3 312.1	313.5	140.4 316.6	319.1	141.6 323.6	323.3	142. 1324.
Federal Highway Adm.—Highway construction: Composite (avg. for year or qtr.)	. 279.5	301.4 163.0	314.3 161.8	313.9	314.0	315.0 160.0	321.4 	323.3	326.8 152.4	331.6	332.8	336.1 157.3	341.9	345.4	344.9 156.8	'346.
CONSTRUCTION MATERIALS Dutput 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		141.4 202.2	11.3 "177 11.3	7.4 *128 12.5	8.3 ¹ 121 14.9	13.0 *144 17.3	11.3 120 18.2	8:8 *88 15.5	7.4 *84 14.2	6.2 *65 13.8	7.2 *84 11.9	5.4 *58 8.5	4.5 50 9.0	4.6 61 8.7	8.2 126 9.1	7. 13 9.
Requests for VA appraisals do Seasonally adjusted annual rates do			169	177	191	190	194	183	154	152	138	102	101	120	r141	14
lome 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	1,351.14 954.90	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	1,014.78 660.19	654.28 485.73	727.94 464.19	593.31 357.69	443.8 327.3
ederal Home Loan Banks, outstanding advances to member institutions, end of period mil. \$.	. 41,838	48,963	48,963	48,581	48,206	49,175	51,530	53,148	56,095	59,475	62,471	64,347	64,662	64,409	65,194	65,09
New mortgage loans of all savings and loan associations, estimated total mil. \$. By purpose of loan:			6,942	4,285	3,676	4,923	5,533	5,730	6,047	4,983	4,052 772	3,861 802	3,462	r2,932	3,532 807	
Home construction	. 62,740	42,957	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	2,321 959	1,968 1,091	649 1,837 976	'599 '1,497 '836	1,604 1,121	
				DOM	ESTI	C TR	ADE									
ADVERTISING																
McCann-Erickson national advertising index, seasonally adjusted: Combined index	274 312 293				······			•••••								
Newspapers do Magazine advertising (Publishers Information Bureau):																••••••
Cost, total mil. \$. Apparel and accessories do. Automotive, incl. accessories do. Building materials do. Drugs and toiletries do. Foods, soft drinks, confectionery do.	46.4	2,846.1 111.7 229.5 48.3 284.2 211.6	254.3 9.7 22.1 2.4 22.6 18.4	184.3 6.7 14.8 2.3 18.1 9.0	225.7 6.2 24.0 3.2 24.9 17.9	268.0 12.1 25.7 3.2 27.4 18.4	288.3 14.4 27.2 4.8 31.6 19.4	297.9 11.1 31.0 7.4 31.3 17.5	267.1 7.4 29.0 5.3 27.4 19.5	196.6 6.4 17.6 3.6 21.4 17.6	210.9 12.9 17.4 4.8 22.3 15.8	284.8 21.1 14.7 7.2 30.9 18.4	330.5 15.4 29.3 5.4 28.2 23.7	393.3 16.5 38.4 5.4 31.1 34.2	11.6 21.1 3.8 23.5	
Beer, wine, liquorsdo Houshold equip., supplies, furnishingsdo Industrial materialsdo. Soape, cleansers, etcdo. Smoking materialsdo. All otherdo.	. 234.0 132.5 69.9 . 35.0 . 278.2 1,070.8	238.9 138.8 70.8 29.8 289.7 1,198.0	36.9 10.8 4.5 1.4 23.4 102.2	11.5 8.9 4.3 1.9 20.7 86.0	14.4 7.8 3.8 1.9 24.8 96.8	17.8 11.6 5.8 2.1 30.0 113.9	19.6 14.8 6.0 3.0 29.8 117.8	19.0 18.4 7.2 3.4 24.8 126.8	25.7 12.3 5.4 2.0 28.5 104.5	15.0 9.9 4.3 1.4 25.5 73.4	14.3 9.5 4.0 1.9 27.5 80.7	18.1 14.6 5.9 3.2 25.6 125.1	24.8 21.1 7.9 3.6 23.6 146.8	33.7 23.5 8.3 3.5 28.4 152.3	37.9 13.0 4.7 1.7 25.2	· · · · · · · · · · · · · · · · · · ·
Newspaper advertising expenditures (Media Records Inc.): Total	7,641.3	8,192.3	680.5	671.2	703.8	840.3	816.6	884.5	772.2	707.3	811.7	779.3	856.7	936.7	795 .0	
Automotive do Classified do Financial do. General do. Retail do.	. 196.0 2,179.3 . 243.8 . 982.1 . 4,040.1	183.6 2,191.8	11.2 136.2 27.9 76.6 428.5	16.2 197.7 33.9 100.6 322.7	19.4 199.2 24.6 113.3 347.4	22.5 235.0 31.2 136.2 415.4	18.4 215.6 30.9 126.5 425.2	21.3 240.2 26.0 134.9 462.1	15.7 217.1 28.0 114.0 397.4	15.8 208.8 29.7 94.1 358.9	21.3 238.8 35.2 92.8 423.6	17.4 204.3 39.4 109.4 408.8	24.7 207.8 45.5 129.4 449.4	19.6 201.3 31.1 137.1 547.5	13.2 149.1 31.7	
WHOLESALE TRADE †																
Merchant wholesalers sales (unadj.), total mil. \$. Durable goods establishmentsdo Nondurable goods establishmentsdo	. 915,163 410,079 . 505,084	1,043,886 438,439 605,447	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	96,072 41,459 54,613	93,655 41,349 52,306	96,992 41,587 55,405	99,236 42,065 57,171	^r 94,449 r39,195 r55,254	96,982 40,110 56,872	
Merchant wholesalers inventories, book value, end of year or month (unadj.), total mil. \$. Durable goods establishments do Nondurable goods establishments	. 59,198	66,716	66,716	105,446 66,230 39,216	68,251	107,907 69,208 38,699	106,420 69,673 36,747	71,113		105,556 70,729 34,827	71,487	72,348	71,958	r111,930 r73,432 r38,498	73,151	

See footnotes at end of tables.

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SURVEY OF CURRENT BUSINESS

February 1982

Unless otherwise stated in footnotes below, data	1979	1980	1980						198	31						1982
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
		E	OME	STIC	TRA	DE-	-Cont	inued	l							L
RETAIL TRADE																
All retail stores: † Estimated sales (unadj.), total † mil. \$	894,343	956,655	100,755	77,361	74,321	84,652	85,770	87,383	87,784	88,768	89,555	86,023	89,289	*87,813	105,929	¹ 77,044
Durable goods stores #	304,809 50,272 35,255 7,838	297,926 48,210 33,682 7,743	28,093 3,971 2,616 825	23,239 3,351 2,360 565	23,857 3,359 2,360 538	28,295 4,043 2,785 655	27,688 4,524 3,038 771	27,669 4,798 3,221 809	29,130 4,993 3,463 809	29,038 4,769 3,361 784	29,438 4,646 3,298 748	27,797 4,534 3,225 731	27,315 4,495 3,198 758	"25,867 "4,048 "2,850 "716	⁷ 28,972 73,712 2,352 877	¹ 21,895 ¹ 2,940
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	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	16,922 15,050 1,872	17,352 15,501 1,851	15,988 14,181 1,807	$15,382 \\ 13,517 \\ 1,865$	'13,932 '12,190 '1,742	'13,846 12,079 1,767	¹ 12,752
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	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	3,779 2,281 1,182	3,915 2,378 1,211	3,873 2,332 1,204	3,920 2,319 1,264	'4,016 2,382 '1,296	*4,885 2,607 1,720	¹ 3,458
Nondurable goods stores	589,534 109,740 ²88,520 8,385	658,729 116,287 94,185 8,856	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	59,730 9,530 7,757 716	60,117 10,355 8,467 757	58,226 9,827 8,099 668	61,974 10,910 8,909 757	*61,946 *12,492 *10,203 *787	"76,957 "19,902 "16,145 1,444	¹ 55,149 17,643 16,200
Food stores do Grocery stores do Gasoline service stations do	195,826 182,365 73,202	217,511 202,065 94,470	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	20,234 18,840 8,955	19,597 18,243 8,648	20,779 19,407 8,762	'19,562 '18,218 '8,364	"21,775 "20,019 "8,641	18,612 8,232
Apparel and accessory stores # do Men's and boys' clothing do	42,375 7,830	44,487 8,025	6,335 1,283	3,279 565	2,911 494	3,448 552	3,972 621	3,735 615	3,632 626	3,598 565	4,126 649	3,929 623	4,234 725	¹ 4,271 ¹ 744	'6,659 1,236	
Women's clothing, spec. stores, furriers do Shoe stores	15,802 7,127	16,991 8,040	2,339 942	1,258 614	$\begin{array}{c}1,141\\530\end{array}$	1,355 665	1,532 831	1,470 728	1,404 690	1,439 660	1,592 774	1,561 756	1,654 793	1,639 761	2,518 1,051	
Eating and drinking placesdo Drug and proprietary storesdo Liquor storesdo	79,576 28,107 15,294	86,612 31,557 16,556	7,510 3,775 1,926	7,065 2,722 1,275	6,742 2,530 1,195	7,710 2,701 1,247	7,897 2,769 1,285	8,344 2,810 1,381	8,264 2,758 1,367	8,524 2,769 1,448	8,588 2,756 1,422	8,073 2,714 1,343	8,271 2,880 1,403	"7,653 "2,843 "1,383	7,916 4,036 1,981	12,848
Estimated sales (seas. adj.), total † do Durable goods stores # do			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	88,591 28,439	88,699 28,380	86,660 26,319	*87,222 *26,484	"87,060 "26,640	, í
Building materials, hardware, garden supply, and mobile home dealers # mil. \$ Building materials and supply storesdo Hardware stores			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	4,260 2,910 735	4,158 2,850 751	4,145 2,834 723	3,952 2,712 707	r4,095 r2,827 r729	r3,950 2,658 735	
Automotive dealers do Motor vehicle dealers do Auto and home supply stores do	·····		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	15,998 14,212 1,786	16,726 14,948 1,778	16,630 14,818 1,812	14,937 13,226 1,711	'15,067 '13,337 '1,730	'15,271 13,572 1,699	
Furniture, home furn., and equip. # do Furniture, home furnishings stores do Household appliance, radio, TV do	·····		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	3,719 2,215 1,163	3,883 2,336 1,212	3,907 2,372 1,197	3,807 2,251 1,227	r3,780 r2,220 r1,238	'3,836 2,287 1,218	
Nondurable goods storesdo General merch. group storesdo Department storesdo Variety stores	(²)		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	60,152 10,713 8,756 781	60,319 10,507 8,607 738	60,341 10,581 8,624 750	r60,738 r10,745 r8,758 r753	r60,420 10,790 8,751 756	10,747 18,757
Food stores do Grocery stores do Gasoline service stations do			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	20,328 18,897 8,480	20,050 18,596 8,683	20,206 18,805 8,557	"20,538 "19,116 "8,578	'20,318 '18,886 '8,581	
Apparel and accessory stores #do Men's and boys' clothingdo Women's clothing, spec. stores, furriers do Shoe storesdo	······		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	4,052 708 1,595 746	4,062 706 1,559 722	3,992 713 1,502 734	3,940 *634 *1,525 *710	r3,980 639 1,548 758	
Eating and drinking placesdo Drug and proprietary storesdo Liquor storesdo			7,563 2,755 1,386	7,885 2,815 1,390	7,876 2,768 1,404	8,006 2,770 1,386		7,902 2,830 1,396	7,893 2,826 1,368	7,799 2,837 1,376	7,793 2,844 1,404	8,081 2,909 1,414	8,077 2,924 1,396	r8,005 r2,934 r1,377		17,907 12,960
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	108,717 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	117,342 55,969 9,711 27,503 8,472	118,980 56,238 9,487 27,893 8,382	119,106 54,680 9,461 25,878 8,480	122,080 54,663 9,358 25,552 8,553	r127,815 r56,654 r9,375 r26,669 r8,887	57,752 9,367 27,626		
Nondurable goods stores #	53,478 18,628 13,734 11,517 8,547	57,558 19,894 14,819 12,471 9,120	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	62,742 23,515 17,319 12,893 9,718	64,426 24,437 17,992 12,936 10,154	67,417 26,274 19,447 13,239 10,590	^r 71,161 ^r 28,451 ^r 21,164 ^r 13,690 11,043	72,738 28,780 21,645 13,977 11,282		
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	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	$115,426 \\ 53,529 \\ 9,590 \\ 25,066 \\ 8,423$	117,307 54,880 9,558 26,446 8,447	119,824 56,199 9,487 27,672 8,458	121,277 57,121 9,537 28,282 8,463	122,219 57,124 9,443 28,265 8,468	'123,485 '57,492 '9,518 '28,311 '8,562	123,897 57,571 9,548 28,133 8,772		
Nondurable goods stores #	55,561 20,456 14,993 11,414 8,875	59,841 21,861 16,178 12,372 9,470	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	62,427 23,304 17,248 12,840 9,643	63,625 23,795 17,691 13,050 9,876	64,156 24,070 17,849 13,146 9,955	65,095 24,685 18,433 13,373 9,962	'65,993 '25,381 '18,863 '13,291 9,985	13,401		
Firms with 11 or more stores: Estimated sales (unadjusted), total mil. \$	296,593	324,279	39,694	25,080	23,689	27,291	28,755	29,643	- 29,017	29,238	29,772	28,814	¹ 31,026	31,997]
Durable goods stores do Auto and home supply stores do	22,568 3,338	23,390 3,501	3,101 320	1,606 260	1,565 250	1,863 288	2,039 324	2,148 315	2,206 343	2,170 339	2,123 324	2,086 313	"2,131 "332	2,264 312		
Nondurable goods stores #do General merchandise group storesdo Department storesdo Variety storesdo Miscellaneous general storesdo	274,025 95,933 83,857 6,258 5,818	300,889 101,963 89,229 6,627 6,107	1,085	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	26,811 8,874 7,809 548 517	27,068 8,390 7,372 530 488	27,649 9,162 8,057 572 533	26,728 8,701 7,687 508 506	*28,895 *9,593 *8,440 *570 *583	29,733 11,008 9,645 619 744		

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980	1980						19	81						1982
in the 1979 edition of BUSINESS STATISTICS	Anr	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
		I	OOME	STIC	TRA	DE-	-Cont	inue	3							
RETAIL TRADE—Continued																
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	10,652 10,486	10,281 10,153	9,207 9,058	9,883 9,743	10,128 9,960	10,694 10,543	10,267 10,116	10,980 10,818	10,5 46 10,3 9 0	10,327 10,179	711,075 10,925	10,334 10,180		
Apparel and accessory stores #do Women's clothing, specialty stores, furriers	14,285 5,876 3,455 3,420	15,204 6,191 3,664 3,707	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	1,272 523 307 317	1,225 528 296 292	1,491 584 374 370	1,392 562 330 357	*1,452 *594 *362 *358	1,529 603 406 352		
Eating places do Drug stores and proprietary stores do	15,165 13,720	17,011 15,665	1,505 2,055	1,413 1,317	1,336 1,226	$1,548 \\ 1,344$	1,547 1,392	1,645 1,416	1,610 1,403	1,683 1,409	1,681 1,400	1,530 1,325	1,637 1,394	1,578 1,433		
Estimated sales (sea. adj.), total # do Auto and home supply stores			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	29,418 307 8,002 575 10,147	30,118 317 8,290 585 10,322	29,833 316 8,057 577 10,332	30,223 316 8,332 602 10,645	30,205 317 8,178 560	r29,847 r307 r8,170 r572 r10,455	30,092 299 8,230 584 10,549		
Apparel and accessory storesdo Women's clothing, spec. stores, furriers do Shoe stores			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	1,410 583 352 1,448	1,427 580 358 1,469	1,390 560 343 1,475		r1,355 r544 r336 r1,452	325		
All retail stores, accts, receivable, end of yr. or mo.: Total (unadjusted)	40,387 11,391 28,996	(²) (²) (²)			······											
Charge accounts do Installment accounts do	12,268 28,119	(²) (²)		·····	······											
Total (seasonally adjusted) do Durable goods stores do Nondurable goods stores do Charge accounts do	37,437 11,194 26,243 11,743	(²) (²) (²) (²)			·····	·····							 			
Installment accounts	25,694	(') (²)														
	LAB	OR FO	ORCE	, EMI	PLOY	MEN	[T , A]	ND E	ARN	INGS						
POPULATION OF THE UNITED STATES																
Total, incl. armed forces overseas ‡mil LABOR FORCE	¹ 225.06	1227.66	228.67	228.83	228.98	229.12	229.28	229.44	229.62	229.80	230.03	230.26	230.48	*230.60	230.84	
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.	^{107,050} 2,088 104,962 98,824 6,137	^r 109,042 2,102 ^r 106,940 ^r 99,303 ^r 7,637	^{109,133} 2,124 107,009 99,579 7,430	^{109,010} 2,125 106,885 98,139 18,746	^{109,136} 2,121 107,015 98,401 8,614	"109,762 2,128 "107,634 "99,364 "8,271	*110,035 2,129 *107,906 *100,345 *7,561	2.127	2.131	2,139 110,742	'112,259 2,160 '110,099 '102,152 '7,947	2,165 108,273	'111,402 2,158 '109,244 '101,028 '8,216	^{111,337} 2,158 109,179 100,502 8,676	*110,738 2,164 *108,574 *99,562 *9,013	110,173 2,159 108,014 97,831 10,183
Seasonally Adjusted ¶									}							
Civilian labor force, total do Participation rate *percent. Employed, totalthous. Employment-population ratio *percent. Agriculturethous. Nonagriculturedo.	63.7 • 59.2 • 3,347 • 95,477	63.8 58.5 r3,364 r95,938	*107,531 *63.7 *99,632 *58.3 *3,486 *96,146	"107,923 63.8 "99,901 58.3 "3,445 "96,456	63.8 100,069 58.4 13,346	*108,364 *63.9 *100,406 *58.5 *3,343 *97,063	*108,777 *64.1 *100,878 *58.7 *3,470 *97,408		58.3 3,348	58.5	*108,818 *63.9 *100,840 *58.4 *3,404 *97,436	'63.6 '100,258 '58.0 '3,358			'109,184 '63.8 '99,613 '57.5 '3,209 '96,404	108,879 63.5 99,581 57.4 3,411 96,170
Unemployed, total	'1,241	r1,871	r7,899 r2,401	"8,022 "2,391	"7,965 "2,322	"7,958 "2,269	*7,899 *2,187	^{18,248} 12,231	*8,004 *2,363	"7,824 "2,170	"7,978 "2,217	*8,236 *2,248	*8,669 *2,292	'9,100 '2,364	'9,571 '2,372	9,298 2,399
All civilian workers. Men, 20 years and over Women, 20 years and over Both sexes, 16-19 years.	5.8 *4.2 5.7 16.1	7.1 5.9 '6.4 '17.8		7.4 '6.1 6.7 '18.9	"7.4 6.0 "6.6 "19.1	7.3 *6.0 6.6 *19.2	7.3 5.8 6.6 19.0	*7.5 6.3 *6.7 *19.4	^r 7.4 6.1 ^r 6.6 ^r 19.2	r7.2 r5.8 6.7 r18.7	7.3 6.0 6.6 19.0	7.6 6.2 6.9 719.7	8.0 6.7 7.0 *20.4	'8.3 '7.1 '7.2 '21.4	*8.8 *7.9 *7.4 *21.5	8.5 7.5 7.2 21.7
White Black and other Married men, spouse present Married women, spouse present Women who maintain families	5.1 11.3 72.8 5.1 8.3	6.3 *13.1 4.2 5.8 *9.2	⁷ 6.4 713.6 4.3 5.8 710.2	r6.6 r12.8 4.2 r6.0 r10.3	r6.5 r13.2 4.1 5.8 r9.8	"6.4 "13.6 4.1 "5.9 "9.6	r6.4 13.2 3.8 5.9 r9.9	r6.7 r13.7 r4.0 r5.8 r10.4	6.4 14.2 4.2 r5.7 r10.7	'6.3 '13.8 3.9 '5.7 '11.2	r6.2 r14.7 r4.0 r5.5 r10.1	r6.6 14.8 4.4 6.0 10.7	^{r7.0} ^{r15.2} ^{r4.8} 6.1 ^r 10.6	7.4 *15.2 *5.2 *6.5 *10.8	"7.7 15.7 5.7 6.6 10.5	7.5 16.8 5.3 6.2 10.4
Occupation: White-collar workers Blue-collar workers Industry of last job (nonagricultural);	r3.4 r7.0	3.7 10.0	3.9 10.4	3.9 10.2	3.8 10.2	3.9 10.0	4.0 9.7	4.0 9.9	3.9 9.8	4.0 9.5	3.9 9.5	4.1 10.2	4.1 *10.9	4.2 11.8	'4.5 '12.7	4.2 12.5
Private wage and salary workers Construction Manufacturing Durable goods EMPLOYMENT †	*5.8 *10.3 *5.6 5.0	7.4 *14.1 8.5 *9.0	7.6 13.8 8.8 9.1	7.6 13.7 8.5 8.4	7.6 13.7 8.5 8.7	7.5 14.7 8.1 8.0	7.3 14.5 7.6 7.5	7.7 15.7 7.8 7.4	7.4 16.1 7.4 7.1	7.2 15.2 7.3 7.1	7.3 16.2 7.0 6.5	7.7 16.3 7.9 7.7	8.1 *17.6 8.6 8.6	'8.4 '17.8 9.4 '9.5	"9.1 18.1 11.0 11.8	8.8 18.7 10.4 11.0
Employees on payrolls of nonagricultural estab.: Total, not adjusted for seasonal variationthous Private sector (excl. government) do Seasonally Adjusted †	89,823 73,876	90,564 74,316	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	91,600 76,213	91,598 76,450	92,159 76,599	92,424 76,403	"92,293 "76,136	¹ 91,915 175,786	₽89,781 ₽73,897
Total employees, nonagricultural payrolls do Private sector (excl. government) do Nonmanufacturing industries do Goods-producing do Mining do Construction do	89,823 73,876 52,836 26,461 958 4,463	90,564 74,316 54,016 25,718 1,020 4,399	25,631 1,069	91,091 74,868 54,694 25,647 1,083 4,390	91,258 75,018 54,841 25,657 1,091 4,389	91,347 75,143 54,952 25,705 1,098 4,416	91,458 75,288 54,958 25,700 950 4,418	91,564 75,433 55,019 25,705 957 4,334	91,615 75,575 55,151 25,818 1,110 4,284	91,880 75,888 55,353 25,939 1,132 4,272	91,901 75,984 55,479 25,931 1,151 4,275	92,033 76,128 55,632 25,930 1,162 4,272	91,832 75,894 55,653 25,662 1,162 4,259	^{r91,522} ^{r75,596} ^{r53,579} ^{r25,418} ^{r1,172} ^{r4,229}	^r 91,096 ^r 75,166 ^r 55,416 ^r 25,117 ^r 1,176 ^r 4,191	P90,859 P74,963 P55,426 P24,761 P1,172 P4,052

See footnotes at end of tables.

SURVEY OF CURRENT BUSINESS

February 1982

5-12		S(CUL									F	ebruai	y 198
Unless otherwise stated in footnotes below, data	1979	198 0	1980		•			•	198	81						1982
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Anr	nual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
LABO	OR FO	ORCE,	EMP	LOYN	MENT	Γ , ΑΝ	D EA	RNII	NGS-	-Con	tinue	d				
EMPLOYMENT †—Continued								·								
Seasonally Adjusted † Imployees on nonag, payrolls-Continued																
Goods-producing—Continued Manufacturingthous	21,040	20,300	20,175	20,174	20,177	20,191	20,332	20,414	20,424	20,535	20,505	20,496	20,241	⁷ 20,017	19,75 0 ا	₽19,53
Durable goods do Lumber and wood products do	12,760 767	12,181 690	12,077 687	12,084 689	12,074 691	12,099 692	12,207 702	12,254 710	12,278 699	12,333 702	12,332 686	12,311 677	12,115 652	'11,932 '634	*11,727 *618	P11,58 P60
Furniture and fixtures do Stone, clay and glass products do Primary metal industries	498 709 1,254	469 666 1,144	464 655 1,137	464 654 1,137	466 654 1,140	467 651 1,141	478 656 1,145	484 658 1,142	486 658 1.144	488 658 1,140	487 660 1,148	485 655 1,139	480 644 1,114	'470 634 '1.090	7465 7621 71,061	P45 P60 P1.04
Fabricated metal products §	1,234 1,718 2,485	1,609 2,497	1,581 2,490	1,579 2,487	1,577 2,481	1,581 2,480	1,595 2,491	1,604 2,511	1,604 2,521	1,614 2,533	1,610 2,542	1,606	1,575 2,549	1,546	1,001 1,514 2,490	P1,49 P2,46
Electric and electronic equipment @ do Transportation equipment §	2,117 2,077	2,103 1,875	2,103 1,839	2,110 1,840	2,110 1,833	2,117 1,849	2,134 1,878	2,143 1,872	2,148 1,886	2,163 1,886	2,166 1,889	2,163 1.889	2,150 1,811	"2,119 "1,783	"2,088 "1,736	₽2,0 ₽1,7
Instruments and related products do Miscellaneous manufacturing	691 445	708 419	712 409	713 411	711 411	712 409	714 414	716 414	717 415	723 426	727 417	727 419	723 417	719 415	·716 ·418	P7 P4(
Nondurable goods do Food and kindred products do	8,280 1,733	8,118 1,711	8,098 1,701	8,090 1,696	8,103 1,705	8,092 1,691	8,125 1,697	8,160 1,703	8,146 1,673	8,202 1,691	8,173 1,668	8,185 1,669	8,126 1,675	'8,085 '1,676	'8,023 '1,669	₽7,94 ₽1,66
Tobacco manufactures do	70 885	69 853	71 842	71 841	72 839	72	72 842	71 843	71 846	71 856	73 849	71 849	70	70 823	69 1,005 69	P79
Apparel and other textile products do Paper and allied products do	1,304 707	1,266 694	1,250 692	1,244 691	1,243 691	1,243 689	1,250 691	1,258 694	1,264 695	1,278 696	1,272 698	1,273 703	1,259 691	1,251 686	1,233 682	₽1,20 ₽67
Printing and publishing do Chemicals and allied products do	1,235 1,109	1,258 1,107	1,269 1,105	1,269 1,106	1,272 1,109	1,276 1,108	$1,280 \\ 1,107$	$1,283 \\ 1,109$	$1,284 \\ 1,111$	$1,290 \\ 1,110$	$1,295 \\ 1,106$	1,301 1,112	1,302 1,108	1,302 r1,104	'1,300 1,102	P1,30 P1,09
Petroleum and coal products do Rubber and plastics products, nec do	210 782	197 731	209 729	211 730	210 731	210 734	211 744	213 753 233	212 757	212 760	212 764	211 760	210 744	210 733	209 722	P20
Leather and leather products do Service-producing do	246 63,363	233 64,847	230 65,318	231 65,444	231 65,601	231 65,642	231 65,758	233 65,859	233 65,797	238 65,941	236 65,970	236 66,103	234 66,170	230	r223 r65,979	P21
Transportation and public utilities do Wholesale and retail trade do	5,136 20,192	5,143 20,386	5,118 20,470	5,124 20,529	5,135 20,600	5,139 20,635	5,161 20,636	5,148 20,714	5,149 20,717	5,167 20,796	5,170 20,862	5,186 20,872	5,168 20,916	^{15,147} 120,838	*5,109 *20,725	₽5,10 ₽20,89
Wholesale trade do Retail trade do	5,204 14,989	5,281 15,104	5,300 15,170	5,305 15,224	5,313 15,287	5,316 15,319	5,333 15,303	5,346 15,368	5,349 15,368	5,360 15,436	5,375 15,487	5,370 15,502	5,360 15,556	'5,363 '15,475	15,337 15,388	₽5,3 ₽15,5
Finance, insurance, and real estate do Services do	4,975 17,112	5,168 17,901	5,254 18,240	5,268 18,300	5,283 18,343	5,293 18,371	5,316 18,475	5,326 18,540	5,331 18,560	5,344 18,642	5,354 18,667	5,366	5,360 18,788	'5,355 '18,838	15,367 18,848	°5,3 °18,84
Government do Federal	15,947 2,773 13,174	16,249 2,866 13,383	16,236 2,800 13,436	16,223 2,799 13,424	16,240 2,795 13,445	16,204 2,781 13,423	16,170 2,767 13,403	16,131 2,779 13,352	16,040 2,781 13,259	15,992 2,777 13,215	15,917 2,770 13,147	15,904 2,765 13,140	15,938 2,759 13,170	15,926 2,748 13,178	'15,930 '2,738 '13,192	P15,89 P2,73 P13,10
oduction or nonsupervisory workers on private																ļ
nonagric. payrolls, not seas. adjusted thous Manufacturing do	60,367 15,068	60,457 14,223	61,279 14,126	59,760 13,975	59,633 13,971	60,115 14,049		61,204 14,195	61,911 14,325	61,814 14,108	62,018 14,230	62,194 14,376	62,007 14,147	'61,727 '13,904	"61,372 "13,601	°59,56 °13,29
Seasonally Adjusted † oduction or nonsupervisory workers on private														1		
nonagricultural payrolls †thous Goods-producingdo	60,367 19,351	60,457 18,442	60,667 18,278 791	60,807 18,305	60,870 18,298	60,961 18,346	61,114 18,338	61,179 18,317	61,292 18,387	61,585 18,476	61,622 18,459	61,770 18,454	61,527 18,185	'61,210 '17,934	'60,742 '17,629	P17,31
Mining do Construction do	719 3,565	757 3,461	3,428	800 3,452 14,053	806 3,439	813 3,459	689 3,462	694 3,376	819 3,323	834 3,315	850 3,315	857 3,316	854 3,301	*862	'865 '3,232	₽8 ₽3,00
Manufacturing	15,068 9,110 654	14,223 8,438 577	14,059 8,301 573 374	8,306 575	14,053 8,297 576	14,074 8,325 577 376	14,187 8,412 586	14,247 8,442 593	14,245 8,455 585	14,327 8,491 585	14,294 8,485 571	14,281 8,465 563	14,030 8,267 540	13,797 18,083	13,532 7,880 505	P13,3 P7,7 P4
Furniture and fixtures do	406 559	378 516	374 505	374 504	376 503	376 501	386 506	392 507	393 506	396 508	395 510	391 505	385 495	521 376 485	'372 '472	P3
Primary metal industries	986 1,299	879 1,193	874 1,168	876 1,166	879 1,164	879 1.169	884 1,178	880 1,184	$\frac{882}{1,187}$	879 1,197	883 1,193	877 1,187	851 1,157	r828 r1,132	7801 1.100	₽7 ₽1.0
Machinery, except electrical do Electric and electronic equipment @ do	1,634 1,388	1,605 1,336	1,577 1,322	1,577 1,324	1,573 1,326	$1,575 \\ 1,334$	1,580 1,345	1,594 1,353	1,602 1,354	1,605 1,365	1,618 1,364	1,624 1,362	1,615 1,347	1,587 1,308	'1,557 1,278	°1,5 °1,2
Transportation equipment § do Instruments and related products do	1,423 422	1,215 424	1,182 423	1,183 422	1,176 419	1,190 420	1,218 422	1,210 423	1,218 422	1,213 427	1,217 426		1,147 423		'1,070 '418	P4
Miscellaneous manufacturing do Nondurable goods do	339 5,958	314 5,786	303 5,758	305 5,747	305 5,756	304 5,749	307 5,775	306 5,805	306 5,790	316 5,836	308 5,809	309 5,816	307 5,763	*307 *5,714	307 5,652	°2 °5,5
Food and kindred products do Tobacco manufactures	1,191 56	1,175 54	1,166 55	1,162 55	1,1 6 8 55	1,158 56	1,164 56	1,170 55	1,144 56	1,160 55	1,140 57	1,140 56	1,149 55	"1,149 55	1,142° 54	P
Apparel and other textile products do	771	741 1,082	731 1,068	729 1,062	727 1,061	727 1,061	729 1,065	731 1,071	733 1,077	742 1,092	736 1,082	737	722 1,071	710	r700 1,046	₽1,0
Paper and allied products	536 697 633	524 703 626	521 707 622	521 705 623	520 707 625	519 708 626	521 709 627	523 710 629	524 709 632	525 711 630	526 714 630	531 718 631	520 718 626		r511 r716 r614	P7
Petroleum and coal products	137 612	124 562	133 561	134 562	625 134 564	134 566	134 575	629 135 584	133 585	133 586	132 592	131	130 573	129 573	'128 '560	Р1
Leather and leather products do	209 41,016	196 42,015	194 42,389	194 42,502	195	194	195 42,776	197 42,862	197 42,905	202 43,109	200 43,163	200	199	r199 r43,342	196 '43,249	₽1
Service-producing	41,016 4,299 17,748	42,015 4,291 17,881	4,265	4,264	42,572 4,270 18,013	42,615 4,268 18,031	42,776 4,291 18,027	42,862 4,272 18,084	42,905 4,269 18,093	43,109 4,284 18,200	43,163 4,284 18,230	43,316 4,305 18,271	43,342 4,277 18,311	143,342 14,277 18,311	*43,249 *4,260 *18,201	₽4,2
Wholesale trade	4,274 13,474	4,319 13,562	4,324 13,608	4,324 13,658 3,986	4,329 13,684	4,330 13,701	4,342 13,685	4,352 13,732	4,350 13,743	4,367 13,833	4,370 13,860	4,367 13,904	4,359 13,952	*4,359 *13,952	'4,353 '13,848	P4,3
Finance, insurance, and real estate do Services do	3,776 15,193	3,913 15,930	3,972 16,220	3,986 16,270	3,992 16,297	3,996 16,320	4,017 16,441	4,024 16,482	4,030 16,513	4,037 16,588	4,047 16,602	4,055	4,049	^r 4,049	*4,038	P4,04
AVERAGE HOURS PER WEEK † Seasonally Adjusted																
vg. weekly hours per worker on private nonagric. payrolls: 1 Not seasonally adjusted hours	35.6	35.3	35.6	35.1	35.0	95.9	35.2	35.2	25.4	35.6	35.6	35.0	95.1	125.1	25.0	
payrons: Not seasonally adjusted hours Seasonally adjusted do Mining ‡	43.0	35.3 43.2	35.6 35.3 44.1	35.1 35.3 43.6	35.0 35.2 42.8	35.2 35.3 42.3	35.2 35.4 43.6	35.2 35.3 43.8	35.4 35.2 42.1	35.5 35.3 43.5	35.6 35.2 44.1	35.0 34.9 43.8	35.1 35.0 44.5	'35.1 35.0 '44.3	35.2 34.9 44.8	
Construction do Manufacturing:	37 .0	37.0	37.2	36.4	35.0	37.2	36.9	36.9	37.2	37.7	37.3	35.7	37.5	r37.0	*37.0	
Not seasonally adjusted do Seasonally adjusted do	40.2	39.7	40.8 39.9	39.9 40.1	39.5 39.8	39.9 39.9	39.7 40.2	40.1 40.3	40.2 40.1	39.6 40.0	39.8 40.0	39.5 39.3	39.7 39.5	39.6 39.3	r39.9 r39.0	₽36 ₽36
Overtime hours	3.4 40.8	2.8 40.1	3.0 40.4	3.0 40.6	2.8 40.1	2.8 40.4	2.9 40.8	3.2 40.8	3.0 40.5	3.0 40.5	3.0 40.5	2.7 39.7	2.7 39.9	2.5 39.7	2.4 r39.3	₽2 ₽37
Overtime bours	40.8 3.5 39.4	40.1 2.8 38.6	40.4 3.1 39.3	40.6 3.0 39.8	40.1 2.8 39.1	40.4 2.8 39.1	40.8 3.0 39.6	40.8 3.2 39.8	40.5 3.0 39.0	40.5 3.0 38.8	40.5 3.0 38.6	2.6 37.3	2.6 37.6	39.7 2.4 37.5	-39.3 2.4 737.8	▶37 ▶2 ▶34
Furniture and fixtures do Stone, clay, and glass products do	38.7 41.5	38.0 40.8	38.4 41.0	38.5 41.3	38.6 40.6	38.6 40.7	38.8 41.2	39.0 41.0	38.9 40.8	38.5 40.9	38.6 40.8	37.5 40.3	38.1 40.0	*37.7 *40.0	r37.6 r39.6	₽32. ₽38.
Primary metal industries	41.4	40.1		41.1	40.7	41.0		41.0	40.8	40.5	40.7	40.6				

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February	1982
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February 1982		St	JRVE	Y OF	CUR	RENI	BUS	INES	is					.		S-13
Unless otherwise stated in footnotes below, data		1980	1980						190	81		,				1982
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS		nual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
LAB	OR FO)RCE,	EMP	LOYN	MENT	Γ , AN	D EA	RNI	NGS-	-Con	tinue	d				
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 do Electric and electronic equipment @ do	40.7 41.8 40.3	40.4 41.0 39.8	40.5 40.9 40.0	40.5 41.1 40.1	40.2 40.8 39.6	40.2 40.9 40.0	40.9 41.3 40.2	40.9 41.4 40.4	40.7 41.1 40.2	40.5 41.1 40.5	40.5 41.2 40.4	39.5 40.3 39.6	40.0 40.7 39.9	39.6 40.6 39.3	39.3 40.3 r39.3	>37.9 >39.0 >37.6
Transportation equipment §	41.2	40.6 40.5	41.0 40.4	41.3 40.6	40.5 40.5	40.9 40.5	42.0 40.1	41.8 40.4	41.4 40.4	41.2 40.5	41.3 40.8	39.9 40.5	40.5 40.4	40.3 40.3	*39.4 *39.7	₽37.5 ₽38.0
Miscellaneous manufacturing do Nondurable goods do	38.8 39.2	38.7 39.0	38.9 39.2	38.8 39.5	38.6 39.2	38.7 39.2	38.9 39.3	39.2 39.6	39.1 39.4	39.2 39.3	39.1 39.3	38.4 38.9	39 .0 39 .0	39.0 38.8	*38.4 *38.6	₽36.7 ₽36.1
Overtime hoursdo Food and kindred productsdo Tobacco manufacturesdo	3.1 39.8 38.0	2.8 39.7 38.1	2.9 39.7 38.1	3.0 40.3 38.6	2.9 39.9 35.5	2.8 39.7 37.2	2.9 40.1 37.2	3.1 40.0 38.6	3.0 39.8 38.5	2.9 39.4 38.6	2.9 39.4 40.7	2.8 39.2 40.2	2.8 39.5 39.4	2.7 *39.6 38.8	*2.5 39.7 *38.1	P2.4 P39.0 P35.6
Textile mill products do Apparel and other textile products do	37.0 35.2	40.0 35.4	40.1 35.5	40.0 36.1	40.0 35.6	39.9 35.7	39.8 35.5	40.5 36.0	40.2 36.1	40.4 35.9	40.3 36.1	38.9 35.2	39.3 35.7	r38.8 35.6	*38.2 35.1	°30.7 °29.9
Paper and allied productsdo Printing and publishingdo	42.6 37.5	42.3 37.1	42.8 37.4	42.6 37.5	42.4 37.3	42.4 37.1	42.6 37.3	42.8 37.6	42.7 37.4	42.7 37.3	42.7 37.3	43.1 37.1	42.4 37.1	41.9 36.9	r41.8 r37.3	₽40.8 ₽36.4
Chemicals and allied products do Petroleum and coal products do Rubber and plastics products, nec do	41.9 43.8 40.5	41.5 41.8 40.1	41.6 43.2 40.8	41.6 43.8 40.9	41.6 43.8 40.3	41.5 43.5 40.5	41.5 44.1 40.7	41.7 43.8 41.3	41.7 43.4 41.0	41.8 43.1 40.5	41.7 42.8 40.6	42.3 43.3 39.6	41.5 42.1 40.0	41.3 42.3 r39.6	r41.5 r42.7 r39.3	P40.4 P45.2 P39.2
Leather and leather products do	36.5 39.9	36.7	36.6 40.0	36.8 39.4	37.0	37.1 39.4	36.6 39.3	37.1	37.4 39.8	36.5 39.8	36.9	36.1 39.2	36.8 39.1	r36.7 39.3	"36.1 "39.2	P35.1
Transportation and public utilities ‡do Wholesale and retail tradedo Wholesale tradedo	32.6 38.8	39.6 32.2 38.5	32.1 38.6	32.2 38.8	39.5 32.2 38.6	32.2 38.6	32.3 38.6	39.3 32.1 38.5	32.1 38.5	32.2 38.7	39.5 32.1 38.6	$32.1 \\ 38.5$	31.9 38.5	32.0 38.6	31.9 38.4	P31.5 P37.9
Retail trade do Finance, insurance, and real estate ‡ do Services	30.6 36.2 32.7	30.2 36.2 32.6	30.0 36.3 32.7	30.1 36.4 32.7	30.2 36.4 32.8	30.2 36.4 32.8	30.3 36.3 32.8	30.1 36.1 32.7	30.1 36.1 32.5	30.1 36.3 32.5	30.1 36.3 32.4	30.1 36.0 32.4	29.9 36.2 32.5	29.9 36.2 32.6	29.8 136.1 132.7	P29.5 P36.1 P32.3
AGGREGATE EMPLOYEE-HOURS †	02.7	02.0	02.1	02.1	02.0	52.0	02.0	52.1	04.0	52.0	02.4	02.4	02.0	52.0	02.1	-02.0
Seasonally Adjusted Employee-hours, wage & salary workers in non-																
agric. establish, for 1 week in the month, seas adj. at annual rate bil. hours	169.53	169.70	171.12	172.87	171.65	172.14	170.56	171.43	170.92	171.09	171.29	167.94	170.64	r170.05	'169.85	₽165.44
Total private sector	138.26 2.15 8.59	137.84 2.31 8.46	139.22 2.50 8.56	140.86 2.57 9.07	140.02 2.52 8.36	140.20 2.48 8.60	139.85 2.17 8.43	139.87 2.19 8.26	139.41 2.39 8.04	139.94 2.54 8.12	140.12 2.61 8.05	139.66 2.58 7.78	139.98 2.64 8.10	*139.83 *2.70 *8.24	*138.63 *2.79 *8.14	°136.08 °2.70 °7.69
Manufacturing	43.92 10.65	41.96 10.60	42.15 10.62	42.54 10.63	42.24 10.62	42.21 10.60	42.19 10.62	42.50 10.56	42.19 10.60	42.21 10.59	42.30 10.52	41.84 10.56	41.63 10.54	'41.14 '10.54	740.59 10.40	P38.88 P10.34
Wholesale and retail trade	34.35 9.39 29.21	34.29 9.75 30.47	34.39 9.94 31.06	34.79 9.99 31.28	34.79 10.03 31.46	34.75 10.04 31.51	34.84 10.04 31.56	34.70 10.05 31.60	34.65 10.04 31.49	34.73 10.08 31.59	34.92 10.11 31.61	35.05 10.08 31.77	35.06 10.09 31.90	r35.02 r10.12 r32.07	34.52 10.11 *32.07	P34.65 P10.09 P31.73
Government do	31.26	31.86	31.90	32.01	31.63	31.94	30.71	31.57	31.51	31.15	31.17	28.28	30.66	'30.22	r31.23	₽29.36
Indexes of employee-hours (aggregate weekly): Private nonagric. payrolls, total	108.4 108.6	107.3 102.5	107.9 102.3	$108.2 \\ 102.4$	107.9 100.9	108.4 102.4	108.9 102.8	108.9 103.1	108.7 102.6	109.4 103.5	109.2 103.4	108.6 101.1	108.4 100.8	108.0° 99.3	'106.8 '97.0	₽103.9 ₽90.3
Miningdo Constructiondo Manufacturingdo	115.3 119.7 106.2	122.1 116.1 99.0	130.1 115.6 98.5	130.1 113.9 98.9	128.6 109.1 98.0	128.2 116.6 98.4	112.0 115.8 99.9	113.3 112.9 100.7	128.0 109.3 100.2	136.5 110.9 100.5	139.8 110.0 100.4	139.0 105.2 98.5	140.1 109.8 97.2	'141.1 '111.1 '95.1	143.5 108.4 92.6	°136.4 °98.3 °86.6
Durable goods do Nondurable goods	109.1 101.9	99.5 98.3	98.5 98.4	99.0 98.9	97.8 98.3	98.6 98.1	100.7 98.7	101.1 100.1	100.6 99.5	100.9 99.8	100.9 99 .5	98.6 98.5	96.9 97.8	94.1 96.4	°91.0 °95.1	₽85.7 ₽88.0
Service-producing	108.2 107.1 106.6	110.0 106.3 105.9	111.0 106.6 105.9	111.3 105.0 106.6	111.7 105.4 106.8	111.8 105.1 106.9	112.3 105.4 107.2	112.0 104.9 106.9	112.1 106.2 107.0	$112.6 \\ 106.0 \\ 107.8$	112.5 105.2 107.9	$112.8 \\ 105.5 \\ 108.0$	112.7 104.0 107.7	*112.8 *104.7 *107.3	112.2 102.7 106.2	P111.4 P102.1 P105.8
Wholesale trade do Retail trade do	110.3 105.1	110.4 104.2	110.9 103.9	$111.5 \\ 104.7$	$111.1 \\ 105.2$	111.1 105.4	$111.4 \\ 105.6$	$111.4 \\ 105.2$	111.3 105.3	$112.3 \\ 106.0$	112.1 106.2	111.8 106.6	111.6 106.2	'111.8 '105.5	*110.8 *104.5	P109.0 P104.5
Finance, insurance, and real estate do Services do	110.6 109.9	114.6 115.0	$116.5 \\ 117.3$	117.3 117.7	117.4 118.2	117.5 118.4	117.8 119.3	117.4 119.2	117.6 118.7	118.1 119.3	118.7 119.0	118.3 119.6	$118.5 \\ 120.1$	'118.2 120.8	*117.9 *121.1	₽117.9 ₽119.7
HOURLY AND WEEKLY EARNINGS † Average hourly earnings per worker: 1																
Not seasonally adjusted: Private nonagric. payrolls dollars Mining do	6.16 8.49	6.66 9.17	6.94 9.57	7.03 9.77	7.06 9.86	7.10 9.85	7.13 9.70	7.17 9.68	7.20 9.94	7.24 10.11	7.30 10.15	7.40 10.29	7.42 10.28	7.46 10.42	7.44 10.41 ⁻	₽7.53 ₽10.58
Construction do Manufacturing do	9.27 6.70	9.92 7.27	10.33 7.70	10.42 7.73	10.41 7.75	10.44 7.80	10.43 7.88	10.53 7.92	13.60 7.97	10.74 8.02	10.87 8.02	11.02 8.15	11.10 8.15	'11.12 '8.20	r11.19 r8.25	P11.57 P8.38
Excluding overtime do Durable goods do Excluding overtime do	6.43 7.13 6.83	7.02 7.75 7.48	7.40 8.23 7.90	7.46 8.23 7.95	7.48 8.26 7.98	7.53 8.32 8.04	7.62 8.40 8.12	7.64 8.45 8.15	7.68 8.52 8.21	7.74 8.55 8.26	7.74 8.57 8.27	7.86 8.68 8.39	7.88 8.71 8.42	7.93 8.75 8.48	*7.98 *8.80 *8.52	₽8.14 ₽8.86 ₽8.62
Lumber and wood products do Furniture and fixtures do	6.83 6.07 5.06	6.53 5.49	6.74 5.70	8.23 7.95 6.79 5.71	6.81 5.74	8.04 6.79 5.76	6.83 5.78	6.92 5.83	7.10 5.89	8.26 7.16 5.91	7.13 5.98	7.15 6.00	7.09 6.05	r7.15 r6.04	"7.14 "6.10	₽7.39 ₽6.21
Stone, clay, and glass products do Primary metal industries do Fabricated metal products 8	6.85 8.98 6.85	7.50 9.77 7.45	7.83 10.36 7.88	7.87 10.36 7.89	7.89 10.56 7.91	7.94 10.52 8.01		8.20 10.68 8.17	8.31 10.76 8.23	8.39 10.79 8.22	8.41 10.97 8.27	8.53 11.22 8.34	8.50 10.97 8.39	*8.54 11.10 *8.43	*8.55 *11.09 8.53	°8.61 °11.14 °8.55
Fabricated metal products § do Machinery, except electrical do Electric and electronic equipment @ do	6.32	8.00 6.95	8.50 7.38	7.89 8.53 7.41	8.56 7.43	8.62 7.47	8.67 7.51	8.75 7.55	8.81 7.60	8.85 7.69	8.86 7.76	8.98 7.79	9.05 7.84	9.10 7.86	9.19 7.92י	₽9.18 ₽7.96
Transportation equipment § do Instruments and related products do Miscellaneous manufacturing do	8.53 6.17 5.03	9.32 6.80 5.47	10.09 7.13 5.73	9.96 7.19 5.82	9.93 7.20 5.83	10.08 7.23 5.85	10.14 7.25 5.91	10.25 7.31 5.93	10.36 7.34 5.93	10.35 7.44 5.98	10.30 7.56 5.97	10.41 7.60 6.07	10.65 7.61 6.06	10.66 7.70 6.12	10.67 7.72 6.21	P10.58 P7.75 P6.34
Nondurable goods	6.01	6.56 6.33	6.89 6.63	6.97 6.72	6.98 6.74	7.01 6.77	7.08	7.11 6.86	7.14 6.88	7.23 6.98	7.24 6.97	7.37 7.09	7.34 7.08	7.39 r7.13	7.45 7.20	₽7.69 ₽7.44
Food and kindred products do Tobacco manufactures do	6.27	6.86 7.73	7.13 8.10	7.21 8.50 5.35	7.24 8.56	7.29 8.61	6.86 7.37 8.90	7.43 9.03	7.43 9.33	7.47 9.43	7.50 8.61	7.58 8.66	7.53 8.58	"7.63 "8.96	r7.71 r8.92	₽7.83 ₽9.13
Textile mill products	4.66 4.23 7.13	5.08 4.57 7.84	5.34 4.81 8.27	4.89 8.27	5.35 4.87 8.28	5.36 4.94 8.30	5.36 4.96 8.37	5.40 4.98 8.42	5.42 5.00 8.55	5.51 4.94 8.73	5.66 4.98 8.67	5.69 5.06 8.95	5.72 5.07 8.82	5.74 5.06 *8.89	5.73 5.04 *8.96	₽5.76 ₽5.17 ₽9.06
Apparel and other textile products do Paper and allied products	6.94 7.60	7.53 8.30	7.88 8.69	7.92 8.74	7.96 8.80	8.02 8.84	8.04 8.94	8.10 8.99	8.13 9.07	8.22 9.16	8.27 9.19	8.40 9.38	8.42 9.37	r8.44 r9.42	*8.47 9.47	₽8.56 ₽9.67
Rubber and plastics products, nec do	9.36	$ \begin{array}{r} 10.09 \\ 6.56 \\ 4.58 \end{array} $	10.38 6.97 4.74	11.06 7.06 4.86	11.33 7.04 4.88	11.23 7.07 4.98	11.40 7.15 4.93	11.28 7.22 4.95	11.29 7.23 4.98	11.41 7.28 4.96	11.31 7.32 4.97	11.53 7.38 5.08	11.46 7.39 5.09	'11.57 '7.41 5.10	11.52° 7.50° 5.14	₽12.05 ₽7.61 ₽5.21
Leather and leather products do Transportation and public utilities do Wholesale and retail trade	1 5.06	8.87 5.48	9.30 5.62	4.86 9.33 5.80	9.45 5.84	9.42 5.85	9.54 5.87	9.59 5.89	9.63 5.89	9.69 5.91 7.59	9.89 5.94	9.97 6.04	9.96 6.00	'10.07 6.03	'10.07 6.00	P10.12 P6.16
Wholesale trade do Retail trade do Finance, insurance, and real estate do	4.53	6.96 4.88 5.78	7.23 4.99 6.00	7.32 5.18 6.10	7.38 5.20 6.21	7.42 5.20 6.19	7.47 5.22 6.20	7.51 5.23 6.24	7.51 5.23 6.24	7.59 5.24 6.27	7.67 5.26 6.37	7.71 5.37 6.38	7.74 5.29 6.42	"7.81 5.32 "6.51	"7.81 "5.30 "6.47	₽7.93 ₽5.44 ₽6.57
Services do				6.21	6.27	6.29	6.30	6.33	6.33	6.34	6.41	6.51		*6.67		₽6.77

Unless otherwise stated in footnotes below, data	1979	1980	1980						19	81						1982
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Anr	iual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
LAB	OR FO	ORCE,	EMP	LOYN	IENT	r, an	D EA	RNI	NGS-	-Con	tinue	d				
HOURLY AND WEEKLY EARNINGS †-Cont.																
Average hourly earnings per worker—Cont. Seasonally adjusted: Private nonagricultural payrolls Mining do. Construction do. Manufacturing do. Transportation and public utilities do. Wholesale and retail trade do. Finance, insurance, and real estate 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 5.78	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	7.26 10.11 10.77 8.02 9.71 5.93 6.27 6.42	7.34 10.15 10.85 8.08 9.88 5.99 6.37 6.51	$7.37 \\10.29 \\10.88 \\8.14 \\9.88 \\6.05 \\6.38 \\6.52$	7.39 10.28 11.01 8.15 9.89 6.02 6.42 6.58	r7.45 r10.42 r11.09 r8.18 r9.99 6.05 r6.51 r6.64	^r 7.44 ^r 10.41 ^r 11.16 ^r 8.18 ^r 10.02 6.07 ^r 6.47 ^r 6.64	P7.50 P10.58 P11.54 P8.34 P10.12 P6.07 P6.57 P6.70
Indexes of avg. hourly earnings, seas. adj.: ¶ Private nonfarm economy: Current dollars 1977 dollars ‡ do. Mining do. Mining do. Mining do. Mining do. Manufacturing do. Transportation and public utilities do. Finance, insurance, and real estate do. Services Common labor Skilled labor Farm (U.S.) wage rates, hired workers, by method of pay: All workers, including piece-rate Sper hr.	$116.7 \\ 97.3 \\ 122.9 \\ 114.1 \\ 117.6 \\ 116.8 \\ 118.0 \\ 116.0 \\ 115.1 \\ 10.78 \\ 14.22 \\ 3.39$	127.3 93.5 134.1 121.8 129.4 127.2 127.8 127.0 125.5 11.73 18.42 3.66	132.6 92.7 139.8 126.2 135.4 132.8 132.4 131.9 131.1 12.29 16.04	133.8 92.8 142.0 127.6 136.5 133.7 133.2 132.0 12.28 16.07 4.12	135.0 92.7 143.2 128.0 137.5 135.4 135.0 133.2 133.2 133.2 12.28 16.07	135.8 92.8 144.0 128.6 138.6 136.1 135.8 136.0 134.0 12.36 16.11	136.7 93.0 145.7 139.0 139.9 137.3 136.4 135.4 134.8 12.45 16.13 3.92	$137.7 \\ 93.1 \\ 145.6 \\ 129.4 \\ 140.7 \\ 138.9 \\ 137.4 \\ 136.8 \\ 136.0 \\ 12.56 \\ 16.30 \\ 12.56 \\ 16.30 \\ 12.56 \\ 16.30 \\ 12.56 \\ 16.30 \\ 12.56 \\ 16.30 \\ 12.56 \\ 16.30 \\ 12.56 \\ 16.30 \\ 10.52$	138.4 92.9 147.2 130.4 141.6 139.8 137.8 137.8 137.1 136.6 12.77 16.48	139 0 92.2 148.9 131.8 142.5 139.3 138.4 137.4 136.9 13.03 16.85	140.7 92.7 149.4 132.5 143.6 141.8 140.0 140.4 139.4 13.09 16.98	141.5 92.1 151.5 132.9 144.8 141.7 141.2 140.3 139.8 13.27 17.31	141.9 92.0 151.3 134.3 142.5 142.0 140.5 140.9 140.7 13.62 17.66	143.2 r92.5 r153.3 r135.4 146.4 r144.0 141.5 r143.2 r142.6 13.69 17.74	143.3 r92.1 r152.7 r136.1 r146.8 144.2 141.4 r142.1 r142.4 13.69 17.72	P144.8 P92.9 P154.5 P140.8 P148.3 P145.1 P142.0 P143.3 P143.7 P13.78 P13.78
All workers, other than piece-rate	3.34 3.58 3.41 8.93	3.59 3.82 3.67 9.92	10.39	4.04 4.36 4.09 10.51	10.71	10.49	3.88 4.09 3.91 10.58	10.62	10.54	10.56	10.66	10.65	10.61	10.79		
Avg. weekly earlings per worker, private nonfarm: [Current dollars, seasonally adjusted ‡ 1977 dollars, seasonally adjusted ‡ Spendable earnings (worker with 3 dependents): Current dollars, seasonally adjusted ± 1977 dollars, not seasonally adjusted ‡ Current dollars, not seasonally adjusted ‡ Private nonfarm, total Mining do. Construction do. Manufacturing do. Nondurable goods do. Mondurable doct do. Molesale and retail trade do. Wholesale trade do. Retail trade do.	219.91 183.41 178.00 148.46 219.91 365.07 342.99 269.34 290.90 236.19 325.58 164.96 247.93 138.62	$\begin{array}{c} 235.10\\ 172.74\\ 188.82\\ 138.74\\ 235.10\\ 396.14\\ 367.04\\ 288.62\\ 310.78\\ 255.84\\ 351.25\\ 176.46\\ 267.96\\ 147.38\end{array}$	244.98 171.19 213.90 149.48 247.06 422.04 384.28 314.16 341.55 274.91 372.00 182.65 281.25 152.20	246.75 *171.83 213.96 148.38 246.75 425.97 379.29 308.43 332.49 273.22 367.60 183.86 281.82 152.81	247.81 170.20 214.75 147.49 247.10 422.01 364.35 306.13 329.57 271.52 373.28 185.13 282.65 153.92	250.28 170.96 216.62 147.96 249.92 416.66 388.37 311.22 336.96 274.09 371.15 186.62 285.67 154.96	252.76 172.06 218.48 148.73 250.98 422.92 384.87 312.84 338.52 275.41 374.92 188.43 287.60	253.45 171.37 219.00 148.07 252.38 423.98 388.56 317.59 343.07 280.13 376.89 188.48 289.14 156.38	254.50 170.92 219.80 147.62 254.88 418.47 394.32 320.39 345.91 282.03 383.27 190.25 289.89 158.99	256.28 170.06 221.14 146.74 257.74 404.90 317.59 341.15 282.69 385.66 193.85 294.49 161.92	258.37 170.20 222.71 146.71 259.88 447.62 405.45 319.20 344.51 285.26 390.66 194.83 296.83 162.53	257.21 167.45 221.05 144.43 259.00 450.70 393.41 321.93 345.46 288.17 390.82 194.49 296.84 162.17	258.65 167.74 223.86 145.18 260.44 457.46 416.25 323.56 349.27 286.99 389.44 191.40 299.54 157.64	r168.23 225.20 r145.46 r261.85	*259.66 *166.98 224.90 *144.46 *261.87 *466.37 *414.03 *329.18 *355.52 *292.79 *394.74 193.20 *302.25 *160.06	P164.05
Finance, insurance, and real estate do Services	190.77 175.27 158	209.24 190.71 129	217.80 199.51 130	222.04 201.83 128	226.04 204.40 129	225.32 205.05 125	225.06 205.38 118	225.26 205.73 118	225.26 206.99 121	227.60 209.22 123	231.35 210.89 119	229.68 210.92 112	232.40 213.53 110	*235.66 *216.78	*233.57 *216.79 109	₽237.18 ₽217.32
LABOR TURNOVER 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: Accession rate, total do. Separation rate, total do. Separation rate, total do. Quit do Separation rate, total do. Quit do Separation rate, total do. Quit do. Layoff do. UNEMPLOYMENT INSURANCE UNEMPLOYMENT INSURANCE	4.0 2.9 4.0 2.0 1.1	3.5 2.1 4.0 1.5 1.7	2.2 1.2 3.1 0.9 1.6 3.6 2.2 3.3 1.5 1.1	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 1.4	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 2.4 3.6 1.5 1.3 3.4 2.3 3.2 1.5 1.0	4.0 2.7 4.4 2.1 1.3 3.2 2.1 3.6 1.3 1.4	3.5 2.3 4.1 1.8 1.5 2.9 1.8 3.7 1.3 1.7	2.8 1.8 4.2 1.3 2.2 2.9 1.7 4.0 1.2 2.2	2.4 1.3 4.1 0.9 2.6 3.1 1.6 4.1 1.1 1.1	$1.7 \\ 0.8 \\ 4.0 \\ 0.7 \\ 2.7 \\ 2.7 \\ 1.4 \\ 3.9 \\ 1.1 \\ 2.1$	
Unemployment insurance programs: Insured unemployment, all programs, average weekly # @	2,592 20,160 2,433 2.9 2,033 8,612.9	3,837 *25,373 3,350 3.9 *2,864 14,590.3	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	3,012 2,114 2,743 3.1 3.2 2,280 1,061.9	2,874 1,610 2,656 3.0 3.4 3,486 1,004.9	2,680 1,681 2,486 2.9 3.5 2,174 1,001.0	^r 2,680 1,680 ^r 2,488 ^r 2.9 r <u>3.5</u> 2,174 1,001.0	2,753 1,996 2,592 3.0 3.7 2,142 997.2	3,179 2,286 3,054 3.9 2,392 1,079.7	3,224 3,272 3,778 4,3 3,171 1,592.5
Federal employees, insured unemployment, average weekly thous Veterans' program (UCX): Initial claims do Insured unemployment, avg. weeklydo Benefits average weeklydo Benefits paid mil \$ Railroad program: Applications	29 282 52 287.5 287.5 107 18	30 267 56 294.9 162 34 176.1	37 21 55 58 27.0 11 41	41 19 57 59 26.6 13 51	40 17 54 55 22.5 5 48 22.0	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 22 44 44 22.8 41 29 11.5	25 19 44 45 21.4 13 29 7.1	29 15 34 35 17.1 15 35	⁷ 29 15 734 35 17.1 '15 '35 '15.0	32 11 26 26 13.0 21 37 16.0	36 9 22 21 10.1 13 43 16.4	39 11 19 20 10.2 19 56

See footnotes at end of tables.

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February 1982		SI	JRVE	Y OF	CUR	KEN'I	BUS	SINES	5			-				S-15
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980	1980					·	19	81	· · · · · · · · · · · · · · · · · · ·	r	[1982
in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
LABO	OR FC	RCE,	EMP	LOYN	MENT	r, an	D EA	RNI	NGS-	-Con	tinue	d				
WORK STOPPAGES																
Industrial disputes: Number of stoppages:	4.007	0.007		-105	-010	-005	-004		-000	*200	-01.1	-005	-100	-00		
Beginning in month or year number Workers involved in stoppages: Beginning in month or yearthous	4,827 1,726	3,885 1,366	90 19	'187 '39	"213 "42	'285 '244	*286 *80	r301 r124	'302 '241	'286 '120	"211 "68	"225 "58	'166 '36	*82 *21	33 8	
Days idle during month or year	34,754	32,288	1,228	°942	770	'1,698	^{•4,884}	\$,308	r3,521	'2,073	'1,704	*1,479	'1,208	*395	288	
]	FINA	NCE										
BANKING																
Open market paper outstanding, end of period: Bankers' acceptances	45,321	54,744 121,597	54,744	54,465 128,187	58,084 129,929	60,089 130,118	62,320 134,696	$60,551 \\ 140,056$	63,427 145,994	$63,721 \\ 150,265$	64,577 153,651	'65,048 161,716	66,072 164,124	166,316	161,101	
Financial companies	110,432 82,065 17,449	87,312 19,549	121,597 87,312 19,549	89,915 20,310	89,830 20,801	91,087 22,057	93,698 23,554	140,036 97,030 23,989	145,994 100,873 24,853	150,285 104,738 25,114	106,180 26,746	109,965	112,060 29,468	112,256 29,574	110,603 29,065	
Directly placed	64,616 28,367	67,763 34,285	67,763 34,285	69,605 38,272	69,029 40,099	69,030 39,031	70,144 40,998	73,041 43,026	76,020 45,121	79,624 45,527	79,434 47,471		82,592 52,064	82,682 54,060	81,538 50,498	
Agricultural loans and discounts outstanding of agencies supervised by the Farm Credit Adm.:																
Total, end of period mil. \$ Farm mortgage loans:	58,496	68,648	68,648	70,105	70,886	72,123	73,382	74,452	75,207	76,412	77,072		78,283	78,103	78,188	
Federal land banks do Loans to cooperatives do Other loans and discounts do	31,284 8,091 19,122	38,138 9,506 21,005	38,138 9,506 21,005	$38,740 \\ 10,324 \\ 21,042$	$39,375 \\ 10,056 \\ 21,455$	40,264 9,802 22,057	41,111 9,648 22,624	41,913 9,361 23,178	42,693 8,807 23,707	43,450 8,897 24,065	44,064 8,932 24,075	8,950	45,386 9,400 23,497	45,961 9,315 22,827	46,463 9,124 22,619	
Federal Reserve banks, condition, end of period: Assets, total # mil. \$	162,947	171,495		161,467	161,824	167,040	168,067	164,447	171,311	167,377	168,429		167,256			179,941
Reserve bank credit outstanding, total # do	135,092	137,644	137,644	129,492	129,152	131,037	132,896	130,939	132,227	134,957	136,699	138,288	134,665	139,140	143,906	141,871
Time loans do U.S. Government securities	1,454 117,458 11,112	1,809 121,328 11,161	$1,809 \\ 121,328 \\ 11,161$	1,304 117,169 11,159	$1,249 \\ 117,621 \\ 11,156$	656 118,043 11,154	2,333 119,687 11,154	$1,366 \\ 118,311 \\ 11,154$	$1,010 \\ 120,017 \\ 11,154$	$1,027 \\ 123,172 \\ 11,154$	$1,254 \\ 124,522 \\ 11,154$	$\begin{array}{c} 2,486\\ 124,330\\ 11,152 \end{array}$	924 123,005 11,152	232 126,539 11,152	1,601 130,954 11,151	2,217 128,230 11,151
Liabilities, total # do	162,947	171,495	171,495	161,467	161,824	167,040	168,067	164,447	171,311	167,377	168,429		167,256	171,676	176,778	179,941
Deposits, total do Member-bank reserve balances do	35,708 29,520	31,546 27,456	31,546 27,456	30,747 26,621	29,777 26,734	29,983 26,164	$31,310 \\ 26,063$	27,213 24,304	27,423 23,626	29,690 26,011	30,398 27,045		28,742 23,672	29,053 24,312	30,816 25,228	39,324 25,066
Federal Reserve notes in circulation do All member banks of Federal Reserve System,	113,355	124,241	124,241	118,147	118,854	120,874	121,852	123,251	124,783	124,765	125,134	125,050	125,351	129,086	131,906	126,835
averages of daily figures: Reserves held, total	¹ 43,972	¹ 40,097	40,097	41,514	39,650	39,752	40,153	40,344	40,648	41,057	41,024	40,579	40,555	40,906	42,013	42,885
Required do Excess	¹ 43,578 ¹ 394	¹ 40,067 ¹ 30	40,067	41,025 489	39,448 202	39,372 380	40,071 82	40,213 131	40,098	40,675 382	40,753 271	40,179	40,438	40,591 315	41,614 399	42,784
Free reserves do	1,473 ' 997-'	1,617 -1,471	1,617 -1,471	1,405 -796	1,278 -928	1,004 -427	1,343 -1,100	2,154 -1,764	2,038 -1,197	1,751 -1,121	1,408 -917	1,473 -851	1,149 880	695 -301	642 -190	$1,526 \\ -1,350$
Large commercial banks reporting to Federal Re- serve System, Wed. nearest end of yr. or mo.: Deposits:																
Demand, adjusted § mil. \$	123,332	, i	119,993		95,658	106,246	97,595	97,121	101,467	97,063	95,344		99,201	106,811		99,682
Demand, total # do Individuals, partnerships, and corp do State and local governments do	220,048 156,462 5,992	'228,661 '158,766 '5,850	$228,661 \\ 158,766 \\ 5,850$	$185,566 \\ 127,940 \\ 4,846$	183,252 123,777 4,714	206,616 139,810 4,938	188,663 128,835 4,456	195,134 130,752 4,262	209,662 140,425 5,176	$173,405 \\ 122,049 \\ 4,163$	187,465 128,044 4,532		163,399 123,721 4,140	$186,251 \\ 137,904 \\ 5,002$	187,694 140,532 5,252	170,840 127,443 5,328
U.S. Government do Domestic commercial banks	868 36,052	1,112 1,112 141,436	1,112	1,676 34,044	1,579 35,230	1,005 38,664	2,881 32,839	3,312 36,735	1,082 41,213	1,784 27,901	1,111 36,984	2,196 43,903	1,562 18,016	1,114 22,158	2,147 21,896	3,645 19,273
Time, total # do	269,049		315,166									349,177		357,550		367,200
Individuals, partnerships, and corp.: Savings do Other time do	75,202 160,840	*72,997 *206.436	72,997 206,436	$74,382 \\ 210,718$	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		74,568 242,838	76,944 246,072	77,196 250,863	79,286 252,236
Loans (adjusted), total § do Commercial and industrial do	404,117 160,317		434,692 174,969		423,216 169,482		430.525	437,332 176,623	450,145 182,502	442,601 180,479	452,410	460,457	455,996 187,395	468,465 191,875	471,234 195,535	470,410 198,009
For purchasing or carrying securities do To nonbank financial institutions	9,904 26,610	174,505 19,989 126,081	9,989 26,081	7,746	.8,182 24,875	10,151 24,598	8,708 25,338	10,396	12,100 26,774	9,160 25,929	8,622 27,119	10,201	8,483 25,418	10,673 26,386	10,757 26,850	8,675 26,756
Real estate loans do Other loans do	100,542 138,475	'112,285 '136,100	$112,285 \\ 136,100$	112,866 131,059	$113,681 \\ 131,875$	114,468 134,392	115,337	116,622 132,871	117,723 137,441	$118,697 \\ 133,067$	120,047 139,661	121,559	122,561 137,913	123,760 146,987	124,573 146,281	126,157 144,998
Investments, total	108,868 36,406	'118,522 '39,842	118,522 39,842	117,337 39,777	118,190 40,816	$120,108 \\ 41,754$	117,234 39,720	121,042 42,128	$119,513 \\ 40,599$	$118,132 \\ 40,657$	$117,549 \\ 38,856$	117,272 37,785	116,452 38,417	119,316 37,617	117,143 36,929	$118,503 \\ 38,090$
Investment account * do Other securities	31,533 72,462	'35,470 '78,680	35,470 78,680	33,438 77,560	33,726 77,374	33,897 78,354	34,280 77,514	34,444 78,914	33,807 78,914	33,410 77,475	31,987 78,693	31,642	31,511 78,035	30,798 81,699	30,982 80,214	30,785 80,413
Commercial bank credit, seas. adj.: Total loans and securities ¶bil. \$	1,134.6	1,237.0	1,237.0	1,253.2	1,262.5	1,262.2	1,267.5	1,280.8	1,288.2	'1,302.8	'1,312.2	'1,317.5	*1,323.8	1,327.5	1,317.7	
U.S. Treasury securities	93.8 191.8	110.6 213.9	110.6 213.9	113.5 216.2	115.2 217.2	114.8 218.2	115.1 217.7	117.5 218.8	119.3 219.1	'116.4 '222.3	*115.6 *223.8	'225.6	112.5 228.7	r110.3 r231.2 r986.0	110.9 231.8	
Total loans and leases ¶ do Money and interest rates:	848.9	912.5	912.5	923.4	930.1	929.2	934.7	944.6	949.8	*964 .0	*972.8	*978.8	'982.6	-900.0	974.9	
Discount rate (N.Y.F.R. Bank), end of year or month	12.00	12.87	12.87	13.00	13.00	13.00	13.00	13.87	14.00	14.00	14.00	14.00	14.00	13.00	12.10	12.00
Federal intermediate credit bank loans do	² 10.09	² 12.22	11.90	12.29	12.93	13.35	13.65	13.95	14.29	14.59	14.83		15.28	15.26	14.87	14.63
Home mortgage rates (conventional 1st mortgages):																
New home purchase (U.S. avg.) percent Existing home purchase (U.S. avg.) do	² 10.48 ² 10.66	²12.25 ²12.58	$12.86 \\ 13.15$	12.80 13.24	$13.02 \\ 13.73$	$13.48 \\ 13.91$	13.62 13.99	13.56 14.19	14.12 14.40	14.14 14.77	14.60 15.03		$15.04 \\ 15.47$	$15.68 \\ 15.80$	'15.23 '15.53	14.67 15.37
Open market rates, New York City: Bankers' acceptances, 90 days do	³11.04	³12.78	17.96	416.62	15.54	13.88	14.65	17.56	16.27	17.10	17.22		14.78	12.00	12.13	13.06
Commercial paper, 6-month ‡‡ do Finance co. paper placed directly, 6-mo @ do	³ 10.91 ³ 10.25	³ 12.29 ³ 11.28	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	14.72 13.96	11.96 11.72	12.14 11.24	13.35 12.56
Yield on U.S. Government securities (taxable): 3-month bills (rate on new issue) percent	³10.041	³11.506	15.661	14.724	14.905	13.478	13.635	16.295	14.557	14.699	15.612	14.951	13.873	11.269	10.926	12.412
See footnotes at end of tables.											_				-	

SURVEY OF CURRENT BUSINESS

February 1982

nless otherwise stated in footnotes below, data	1979	1980	1980						198	81						19
rough 1978 and descriptive notes are as shown the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	J
, <u> </u>			F	INAN	ICE-	-Cont	inued	1								
CONSUMER INSTALLMENT CREDIT]				
tal extended and liquidated: Unadjusted:											ĺ					
Extended mil. \$ Liquidated do	324,777 286,396	305,887 304,477	$31,052 \\ 25,669$	$23,145 \\ 26,027$	$23,672 \\ 25,037$	29,519 27,940	29,117 26,464	$28,321 \\ 26,275$	30,477 27,485	29,468 27,040	30,075 26,312	29,972 26,329	27,333 26,803	26,663 26,545	31,017 26,901	
Seasonally adjusted:														07.400	00.071	
Extended, total # do By major holder: Commercial banks do			27,149	27,059	28,706	29,822	28,878	28,149	29,005	28,750	28,899	29,428	26,952	27,499	26,871	
Finance companies do			$11,484 \\ 5,185$	10,397 5,904	11,648 6,193	12,676 5,911	11,986 5,218	12,055 4,937	12,483 5,251	12,433 5,439	12,034 6,385	12,036 7,158	11,244 5,327	12,043 5,287	13,008 4,089	
Credit unions do Retailers do	·	•••••	3,035 4,497	2,994 4,673	3,167 4,500	3,153 4,685	$3,181 \\ 5,002$	3,212 4,486	3,137 5,018	3,299 4,826	2,913 4,616	2,558 4,727	2,621 4,729	2,571 4,405	2,517 4,221	
By major credit type: Automobile do			7,234	7,237	8,333	8,700	7,205	7,320	7,442	8,178	8,573	9,176	7,139	7,748	7,156]
Revolving dodo			11,614 479	11,483 383	11,867 409	12,071 641	12,352 551	11,904 609	12,668 488	12,190 451	11,964 536	12,335 543	12,208 487	11,861 498	12,099 500	l
Liquidated, total # do			25,530	26,190	26,710	26,714	26,547	26,803	27,075	26,796	26,040	26,609	25,938	27,157	27,044	1
By major holder: Commercial banks do			11,760	11,754	12,192	12,064	12,331	12,069	11,869	12,001	11,849	11,913	11,419	11,922	12,127	
Finance companies do Credit unions do			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	4,476 2,692	4,123 2,830	4,825 2,795	4,503 2,886	
Retailers do			4,181	4,264	4,397	4,432	4,471	4,489	4,602	4,561	4,629	4,610	4,628	4,619	4,527	
By major credit type: Automobiledo			6,932	7,300	7,354	7,018	6,777	7,515	7,385	6,970	6,458	6,894	6,177	7,474	7,247	
Revolving do Mobile home do		·····	10,998 413	10,926 407	11,426 456	11,484 553	11,514 406	11,554 366	11,650 399	11,713 384	11,473 360	12,042 368	11,818 352	11,808 440	11,971 364	
tal outstanding, end of year or month # do By major holder:	312,024	313,435	313,435	310,554	309,188	310,766	313,419	315,465	318,459	320,886	324,653	328,296	328,826	328,944	333,063	
Commercial banks do Finance companies do	154,177 68,318	145,765 76,756	145,765 76,756	$143,749 \\77,131$	142,030 78,090	141,897 79,490	142,070 81,033	142,143 81,794	143,310 82,723	144,020 83,924	$144,769 \\ 86,152$	145,287 88,698	145,090 89,583	144,560 89,956	146,792 89,818	
Credit unions do	46,517 28,119	44,041 29,410	44.041	43,601 28,300	43,776 27,329	44,212 26,965	44,390 27,227	45,055 27,319	45,686 27,412	46,096 27,469	46,605 27,494	46,791 27,712	46,416 28,046	46,092 28,563	45,954 30,717	
By major credit type:	20,115	20,410	23,410	20,000	21,020	20,300	21,221	27,010	21,412	21,403	21,434	21,112	20,040	20,000	50,711	l
Automobile dodo	116,362 56,937	116,327 59,862	$116,327 \\ 59,862$	115,262 58,985	$115,677 \\ 57,566$	117,517 56,831	$118,479 \\ 57,322$	118,932 57,524	$119,685 \\ 58,470$	121,002 58,976	123,219 59,745	$125,646 \\ 60,415$	$126,235 \\ 60,651$	125,929 61,166	125,754 65,354	
Mobile home do	16,838	17,327	17,327	17,244	17,189	17,273	17,422	17,626	17,724	17,784	17,988	18,157	18,329	18,385	18,487	
FEDERAL GOVERNMENT FINANCE dget receipts and outlays:																
Receipts (net)	¹ 465,940 ¹ 493,635	¹ 520,050 ¹ 579,613	48,903 56,202	52,214 59,099	38,394 53,969	44,623 54,217	74,464 57,198	38,514 54,608	70,688 55,619	48,142 58,486	47,976 53,095	60,594 53,698	45,467 63,573	44,317 54,959		
Budget surplus or deficit (—) do	1-27,694	¹ 59,563	-7,299	-6,884	-15,575	-9,593	17,266	-16,094	15,070	-10,343	-5,119	6,897	-18,105	-10,642		
udget financing, total do Borrowing from the public do	¹ 27,694 ¹ 33,641	¹ 59,563 170,515	7,299 13,668	6,884 6,772	15,575 13,916	9,593 15,138	-17,266 -3,725	16,094 539	-15,070 572	10,343 3,383	5,119 6,501	-6,897 8,577	² 18,749 10,374	12,522 10,972		
Reduction in cash balances do	1-5,947	¹ -10,952	· ·	112	1,659	-5,545	-13,541 970,326	15,555 974,758	-15,642 977,350	6,960 979,388	-1,382 986,312	-15,474 1,003,941	8,375 1.011.111	1,550 1.019.324		1
oss amount of debt outstanding do Held by the public do	¹ 833,751 ¹ 644,589	¹ 914,317 ¹ 715,105	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	979,356 779,356	985,857	794,434	804,808	815,780		
adget receipts by source and outlays by agency: Receipts (net), total mil. \$	¹ 465,955	¹ 520,056	48,903	52,214	38,394	44,623	74,464	38,514	70,688	48,142	47,976	60,594	45,467	44,317		
Individual income taxes (net) do Corporation income taxes (net) do	¹ 217,841 ¹ 65,677	¹ 244,069 ¹ 64,600	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 1,715	21,615 1,607	30,882 8,659	22,555 1,265	21,775 745		
Social insurance taxes and contributions (net)	¹ 141,591	¹ 160,747	11,078	14,363	17,211	15,784	20,201	20,694	14,657	15.206	18,190	14,516	15,369	15,795		
Other do	140,847	¹ 50,640	4,714	4,723	5,271	6,560	6,232	6,312	6,510	6,783	6,565	6,537	6,278	6,002		
Outlays, total # do Agriculture Department do	¹ 493,607 ¹ 20,636	¹ 579,603 ¹ 24,555	3,415	59,099 5,212	53,969 2,390	1,802	57,198 1,546	54,608 1,456	55,619 2,117	58,486 1,123	53,095 2,750	53,698 604	63,573 3,146	54,959 3,072		
Defense Department, military do Health and Human Services	1115,013	¹ 132,840	12,281	12,424	12,544	13,263	13,000	13,500	13,464	14,392	13,239	13,624	14,351	13,889		
Department § mil. \$ Treasury Department	¹ 170,297 ¹ 60,988	194,691 76,691	19,133 10,944	19,083 5,222 381	18,702 6,936	18,783 6,878 559	19,308 8,376	18,897 7,415	$19,074 \\ 12,100$	21,141 7,522	19,342 7,793	20,905 6,537	21,249 8,268	19,770 8,204		
National Aeronautics and Space Adm do Veterans Administration do	¹ 4,187 19,887	4,850 ¹ 4,135 ¹	499 3,028	381 1,921	459 1,953	559 1,025	483 2,164	461 1,668	509 1,784	417 2,992	401 786	348 2,008	658 3,010	517 851		
LIFE INSURANCE																
nerican Council of Life Insurance: Assets, total, all U.S. life insurance cos bil. \$	432.28	479.21	479.21	482.01	485.03	490.15	493.18	497.28	500.32	503.99	506.68	509.48	515.08	519.28		
Government securities do Corporate securities	29.72 208.75	33.02 226.97	33.02 226.97	33.56 229.64	34.34 230.00	34.66 232.11	34.75 233.70	$35.38 \\ 235.00$	36.30 235.85	36.82 237.06	$37.17 \\ 237.15$	37.70 236.90	38.14 240.45	38.81 242.02		
Mortgage loans, total do Nonfarm do	118.42 106.24	131.08 118.12	131.08 118.12	$131.71 \\ 118.78$	132.57 119.60	133.23 120.26	133.90 120.92	134.49 121.47	135.32 122.29	$135.93 \\ 122.84$	$136.52 \\ 123.40$	136.98 123.85	137.74 124.59	138.43 125.30		
Real estate	13.01 34.82	15.03 41.41	15.03 41.41	15.66 41.99	15.87 42.57	16.24 43.23	16.46 43.77	16.74 44.29	16.97 44.97	17.43 45.59	17.63 46.25	17.80 47.04	18.38 47.73	18.63 48.28		
Cash do	2.67	3.21	3.21	1.82	1.59	43.23 1.72 28.95	1.70	1.80	44.97 1.82 29.09	1.62	1.96	2.01	1.49 31.14	1.74		
Other assets do fe Insurance Marketing and Research	24.89	28.49	28.49	27.63	28.09	20.90	28.91	29.57	29.09	29.54	30.01	31.05	31.14	31.37		1
Association: Insurance written (new paid-for insurance):				l												
Value, estimated total	492,812 329,571	544,572 371,113		$41,221 \\ 27,468$	42,967 30,352	52,345 36,537	$48,254 \\ 37,055$	$47,321 \\ 34,282$	96,290 38,445	52,579 35,776	51,594 34,420	$53,164 \\ 36,190$	96,801 38,379		127,004 47,598	
Group do	157,906	170,184		13,596	12,462		11,010	12,837	57,713	16,670	17,043	16,846	58,239	15,973	79,285	1

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data hrough 1978 and descriptive notes are as shown	1979	1980	1980						19	31				[1982
n the 1979 edition of BUSINESS STATISTICS	Anr	nual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
			F	INAN	ICE-	-Cont	inued	1								
MONETARY STATISTICS																
old and silver: Gold:																
Monetary stock, U.S. (end of period) mil. \$ Net release from earmark § do	11,172 294	204	3	72	11,156	9	11,154	11,154 11	11,154	11,154 17	21	$11,152 \\ 20 \\ 192,047$	11,152 2 49,801	9	$11,151 \\ -2 \\ 148,132$	
Exports thous. \$ Imports	4,907,865 1,480,203	3,647,932 2,750,120		343,344 200,324	383,071 160,263	310,606 90,584	210,307 165,227	282,140 213,447	473,202 200,958	409,217 140,388	136,047 205,218	92,210			90,715	
Production: South Africa mil. \$	955.1	916.1	71.4	73.0	73.0	75.2	74.3	73.5	76.0	75.6	76.0	74.7	76.8	74.7	69.2	70
Canada do Silver:	¹ 45.9	² 60.5	4.7	4.8	4.8	5.9	5.1	4.9	4.9	4.4	5.8	5.1				
Exports	471,162 961.761	1,909,733 1.602,295		56,582 132,996	45,602 127,500	41,195 85,900	26,571 90,319	11,744 89,757	31,922 85,399	21,987 67,920	$22,176 \\ 80,192$	$32,705 \\ 71,728$	18,877 77,220	8,922 65,928	14,186 61,599	
Price at New Yorkdol. per fine oz Production:	11.094	20.632	16.393	14.752	13.024	12.338	11.437	10.848	10.001	8.631	8.925	10.035	9.251	8.547	8.432	8.0
United States thous. fine oz	27,397	33,602	3,607	2,820	2,611	1,524	2,520	2,032	2,649	2,434	1,957	1,983	1,952	1,853	3,763	1,3
Currency in circulation (end of period) bil. \$ Aoney stock measures and components (averages	125.6	137.2	137.2	131.1	131.9	133.9	135.0	136.5	138.1	138.3	138.5	138.5	138.8	142.7	145.6	
of daily figures): † Measures (not seasonally adjusted): ‡																
M1-A bil. \$bil. \$bill. \$	363.4 379.0	379.7 402.7	397.7 •424.6	378.9 '422.0	358.7 7410.1	358.7 *416.7	369.2 *436.0	359.2 *423.2	361.1 r427.6	363.5 '432.1	360.8 -430.4	360.0 r431.5	362.0 *434.5	363.9 1439.7	(³) r ³ 451.2	453
M2 do M3 do	1,473.0 1,708.8	1,603.8 1,870.3		1,672.1 1,994.8	1,672.3 2,001.2	1,696.8	1,729.1 2,052.7	1,723.8 2,055.6	1,739.0 2,076.3	1,756.0 2,098.3	1,766.7 2,115.3	1,775.6 2,132.2		1,809.3 2,175.3	1,828.9 2,199.3	1,847
L (M3 plus other liquid assets) do	2,061.9	2,266.5		1,334.0	2,001.2	2,025.5	12,464.2	r2,476.3	2,501.8	2,522.0	2,544.1	2,568.4	2,596.7			
Components (not seasonally adjusted): Currency do	102.3	111.8	'118.3	r115.6	'115.7	116.7	'118.3	'119.2	r119.7	¹ 121.3	^{121.3}	r120.8	'121.2	122.9	r125.4	12
Demand deposits do Other checkable deposits ‡‡ do	257.5	264.1 23.1	"275.1 "27.2	"258.8 "43.6	"238.5 "52.0	237.9	246.8 *66.8	235.9 *64.1	237.0 *66.4	¹ 237.6 168.6	"234.7 "69.7	'234.6 '71.7	'236.6 '72.4	237.5 75.2	"243.3 "78.4	243 82
Overnight RP's and Eurodollars * do Money market mutual funds	27.2	28.7 69.8	r35.0 r61.8	r35.8 r65.8	י35.2 75.1	'36.5 '85.3	"36.8 "95.8	r40.9 r98.6	'42.9 '102.8	r42.3 r112.7	'43.1 '122.1	'39.6 '130.4	r36.2 r137.1	'37.0 '144.6		4
Savings deposits	446.1 597.2	397.9 708.6	r398.0 r748.9	*382.2 *772.7	*374.2 *783.5	r373.9 r790.2	¹ 376.4 1790.0	*369.9 *796.9	r365.0 r806.4	r365.2 r809.5	"355.0 "822.0	"347.9 "832.1	'343.9 '847.6	'342.2 '851.9		85
Large time deposits @ do	205.3	234.6	r262.3	r271.7	r276.9	*273.9	r268.1	*277.3	¹ 281.7	¹ 286.6	r294.8	^r 299.1	*299.8	'301.8	r305.4	30
Measures (seasonally adjusted): ‡ MI-Ado			387.7	375.1	367.2	365.6	366.3	364.7	361.9	361.4	362.3	359.9	360.6	361.8	(³)	
M1-B			r414.5 r1,656.1	'417.9 '1,665.6	r419.4 r1,678.1	r424.4 r1,701.0	433.3 1,723.1	r429.2 r1,732.3	r428.4 r1,740.7	'429.4 '1,753.6	r431.1 r1,772.2	'431.2 '1,778.1	'432.9 '1,789.3	'436.4 '1,809.6		44 1,83
M3 do L (M3 plus other liquid assets) do			"1,963.1 "2,370.4	'1,984.1 '2,397.3	'2,001.8 '2, 41 8.2	"2,023.9 "2,438.1	"2,046.2 "2,455.5	"2,065.1 "2,483.1	"2,082.0 "2,506.6	"2,102.4 "2,530.4	'2,125.8 '2,559.7	r2,138.0 r2,577.3	^r 2,151.0 2,598.2	^r 2,174.4	¹ 2,187.6	2,20
Components (seasonally adjusted): Currency do	}		r116.2	r116.3	117.2	'117.8	'119.1	¹ 119.4	^{1119.7}	'120.5	^{120.7}	121.1	r121.3	121.8	123.1	12
Demand deposits			*267.2 *398.9	r254.1 r384.5	244.8 378.5	*243.0 *378.5	r243.5 r378.8	240.4 373.5	237.7 366.8	"236.7 "361.0	'236.6 '350.9	r234.7 r343.1	r235.7 r339.6	*235.7 *340.9	r236.4 r343.5	23
Small time deposits @			751.7 257.9	768.1 267.5	*775.7 *271.7	782.0	"784.1 "267.6	*795.8 *278.4	*805.5 *285.6	*814.0 *293.1	*830.8 *299.9	7839.7 7302.3	r849.8 r302.2	*856.7 *300.6	*854.6 *300.4	85 30
PROFITS AND DIVIDENDS (QTRLY.)			_0,10	10110	2.1.1	20010										
Ianufacturing corps. (Fed. Trade Comm.): Net profit after taxes, all industries	98,698	92,443	24,262			23,586			29,005			24,730				
Food and kindred products	7,340	8,223 986	2,539			1,861			2,128			2,162 295				
Paper and allied products	3,723 10,896	2,781 11,576	689 2,708			758 3,363			853 3,243			625 2,982				
Petroleum and coal products do	21,936	25,134	5,557			5,387			7,472			6,257				
Stone, clay, and glass products do Primary nonferrous metal do	2,373 2,691	$1,812 \\ 2,771$	493 639			228 633			543 659			536 300				
Primary iron and steel do Fabricated metal products (except ordnance,	2,185	2,336	775			836			1,055			1,279				
machinery, and transport. equip.) mil. \$	4,431	1				1,035			1,303			1,114				1
Machinery (except electrical) do Elec. machinery, equip., and supplies do	11,530 7,386	11,447 7,137	3,329 1,963			2,813 2,129			3,234 2,125			3,056 1,769			·····]
Transportation equipment (except motor vehicles, etc.) mil. \$	3,189	3,077	754			1.010			973			856				
Motor vehicles and equipment	4,382 15,314	-3,438 14,665	-269 3,861			-386			921 4,079			-637 4,136				
Dividends paid (cash), all industries do	32,491	36,390				9,649			9,961			9,570				
SECURITIES ISSUED									ĺ							
ecurities and Exchange Commission: Estimated gross proceeds, total mil. \$	57,671	81,104	7,303	5,417	4,402	6,577	8,239	5,874	10,973	4,302	3,275	4,971	¹ 5,367	9,727		
By type of security: Bonds and notes, corporate do	40,850	56,259	4,187	2,929	2,830	4,159	4,694	3,176	5,699	2,236	1,578	2,544	3,842	7,112		
Common stock	8,709 3,525	18,996	2,648	1,831	1,174	2,003	2,445	2,435	4,754 188	1,690	1,432	2,037 186	^{1,382 ت} 141	2,037 59		
Preferred stock do By type of issuer:	3,525	3,634	241	364	149	298	85	164	100	67	14	100	141	59		
Corporate, total # mil. \$ Manufacturing do	53,084 11,563	78,889 24,398	7,076 2,422	5,124 2,139	4,153 1,344	6,460 1,820	7,224 1,990	5,775 2,172	10,641 1,895	3,993 915	3,024 468	4,767 572	¹ 5,365 238	9,208 2,462		
Extractive (mining) do Public utility do	3,192 13,736	4,818 15,940	830 1,058	517 617	521 853	619 1,161	562 1,468	753	1,997 1,839	397 691	590 608	905 1,746	^{r703} 1,331	797 1,147		
Transportation do	3,297	3,745	260	477	126	189	288	96	602	87	186	151	77	120		
Communication do Financial and real estate do	4,694 12,867	7,385 15,638	818 1,100	77 587	303 585	958 1,305	710 1,743	57 858	1,506 2,201	840 816	202 545	765 541	90 2,563	411 3,252		
tate and municipal issues (Bond Buyer):			a 700	0.574				9.050		9.055	9.000	9 590	9.00	5,035	4 901	
Long-term do Short-term do	42,261 20,897	47,133 26,485	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	$3,255 \\ 2,267$	3,088 2,084	3,539 4,412	3,625 3,543	5,035 2,902	4,261 3,028	
SECURITY MARKETS				l				1	1							
Stock Market Customer Financing				ļ												
fargin credit at brokers, end of year or month	11,619	14,721	14,721	14,242	14,171	14,243	14,869	14,951	15,126	15,134	14,545	13,973	13,866	14,044	14,357	
ree credit balances at brokers: Margin accountsdo	1,105		2,105	2,065	2,225	2,340	2,270	2,345	2,350	2,670	2,645	2,940	2,990	3,290	3,515	
Cash accounts do	4,060	1 6,070	6,070	5,655	1 5,700	6,530	6,440	6,150	6,650	6,470	6,640	6,555	6,100	6,865	1 7,150	I

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SURVEY OF CURRENT BUSINESS

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Unless otherwise stated in footnotes below, data	1979	1980	1980						196	31						1982
brough 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
			F	INAN	ICE-	-Cont	inued	1								
SECURITY MARKETS—Continued Bonds			-													
Prices: Standard & Poor's Corporation: High grade corporate: Composite §dol. per \$100 bond Domestic municipal (15 bonds)do	51.1 73.4	41.4 57.4	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	29.9 36.8	30.0 37.4	33.7 41.0	33.2 37.1	30.9 35.8
Sales: New York Stock Exchange, exclusive of some stopped sales, face value, total mil. \$	4,087.89	5,190.30	709.63	353.06	324.18	398.95	430.18	418.49	457.82	444.69	475.07	577.36	567.54	611.97	673.76	410.4
Yields: Domestic corporate (Moody's)percent By rating: Aaado Aado	10.12 9.63 9.94	12.75 11.94 12.50	14.04 13.21 13.78	13.80 12.81 13.52	14.22 13.35 13.89	14.26 13.33 13.90	14.66 13.88 14.39	15.15 14.32 14.88	14.76 13.75 14.41	15.18 14.38 14.79	15.60 14.89 15.42	16.18 15.49 15.95	16.20 15.40 15.82	15.35 14.22 14.97	15.38 14.23 15.00	16.0 15.1 15.7
A do Baa do By group:	10.20 10.69	12.89 13.67	14.03 15.14	13.83 15.03	14.27 15.37	14.47 15.34	14.82 15.56	15.43 15.95	15.08 15.80	15.36 16.17	15.76 16.34	16.36 16.92	16.47 17.11	15.82 16.39	15.75 16.55	16.19 17.10
Industrials do Public utilities do Railroads do	9.85 10.39 9.60	$12.35 \\ 13.15 \\ 11.48$	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	15.47 16.89 13.71	15.64 16.76 13.88	15.19 15.50 13.92	15.00 15.77 13.84	15.3 16.7 14.1
Domestic municipal: Bond Buyer (20 bonds) Standard & Poor's Corp. (15 bonds) U.S. Treasury bonds, taxable ‡	6.53 6.39 8.74	8.73 8.51 10.81	9.76 10.09 11.89	9.91 9.65 11.65	10.27 10.03 12.23	10.21 10.12 12.15	10.94 10.55 12.62	10.64 10.73 12.96	10.85 10.56 12.39	11.44 11.03 13.05	13.10 12.13 13.61	12.93 12.86 14.14	12.99 12.67 14.13	12.18 11.71 12.68	13.30 12.77 12.88	13.10 13.7
Stocks 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	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	333.33 853.38 105.18 353.12	337.10 853.24 103.77 368.56	346.44 860.44 110.42 383.56	351.31 878.28 110.73 387.11	333.9 853.4 105.6 353.9
Standard & Poor's Corporation: § Combined index (500 Stocks)	103.01 114.83 115.27 83.82	$118.78 \\ 134.52 \\ 131.37 \\ 86.88$	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	118.27 132.67 126.60 93.67	119.80 133.98 123.98 96.89	122.92 136.76 125.80 98.38	123.79 138.35 128.23 98.37	117.2 131.0 121.7 95.4
Utilities (40 Stocks)	50.40 14.53 51.74	50.54 18.52 75.57	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	51.01 20.03 78.81	51.41 21.01 83.83	54.52 21.92 89.68	53.53 22.21 90.84	51.8 20.0 80.8
Financial (40 Stocks)	12.33 44.48 104.86 119.06	12.50 44.00 102.90 127.06	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	$13.73 \\ 50.82 \\ 111.69 \\ 132.95$	14.40 53.75 113.93 141.22	$15.23 \\ 56.28 \\ 119.20 \\ 152.40$	$\begin{array}{r} 14.76 \\ 54.01 \\ 112.58 \\ 149.00 \end{array}$	$13.9 \\ 51.3 \\ 102.5 \\ 141.0 \\ 300 $
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	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	68.37 78.07 63.67 38.17 69.38	69.40 78.93 65.65 38.87 72.56	71.49 80.86 67.68 40.73 76.47	71.81 81.70 68.27 40.22 74.74	67.9 76.8 62.0 39.3 70.9
Yields (Standard & Poor's Corp.): Composite (500 stocks) Industrials (400 stocks) do Utilities (40 stocks) do Transportation (20 stocks) do Financial (40 stocks)	5.45 5.18 9.19 4.68 5.47	5.26 4.94 9.77 4.04 5.75	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	5.69 5.38 10.49 3.99 5.74	5.65 5.35 10.46 3.80 5.47	5.54 5.28 9.92 3.67 5.19	5.57 5.28 10.22 3.76 5.48	
Preferred stocks, 10 high-grade do Sales:	9.11	10.60	11.94	11.55	11.83	11.81	11.81	12.30	12.23	12.43	12.63	13.01	13.09	12.76	12.83	13.1
Total on all registered exchanges (SEC): Market value mil. \$ Shares sold	299,973 10,863	475,934 15,500	49,347 1,515	42,443 1,286	33,153 1,039	49,120 1,526	48,253 1,459	41,252 1,278	46,694 1,520	42,649 1,310	37,728 1,224	33,534 1,220	39,673 1,380	37,495 1,303	•••••	
Market value	251,098 8,675	397,670 12,390	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	31,769 973	28,378 974	33,826 1,129	32,029 1,062	•••••	
(sales effected)	8,156 960.61	11,352 1,242.80	1,025 1,242.80	956 1,189.19				906 1,238.19		954 1,224.89			996 1,134.19		959 1,143.79	
Number of shares listed millions	30,033 F (33,709 DREIG	33,709	33,993	34,211	34,670	34,967	35,545 ED S		37,404 FS	37,567	37,709	37,874	38,144	38,298	38,40
VALUE OF EXPORTS																
Exports (mdse.), incl. reexports, total @ mil. \$	181,815.6	220,704.9	19,545.1	'17,964.0	18,845.4	22,928.5	20,511.9	19,988.7	20,261.5	18,569.0	17,766.4	18,819.2	19,896.8	19,047.7	19,139.9	
Excl. Dept. of Defense shipments do Seasonally adjusted do	181,650.8	220,548.7	19,537.5 19,117.7	'17,962.2 '18,824.8	18,838.0 19,764.1	22,917.7 21,434.2	20,509.3 19,818.0	19,986.1 18,869.4	20,254.7 19,870.1	18,565.2 19,264.3	17,764.2 19,050.4	18,816.1 19,654.8	19,893.5 19,043.9	19,040.0 19,117.7	19,130.0 18,821.1	
By geographic regions: Africa do Asia do Australia and Oceania do	6,298.8 48,771.3 4,318.8	9,060.4 60,168.3 4,875.7	746.3 5,538.0 388.9	¹ 803.5 ¹ 5,010.9 ¹ 425.9	729.4 4,897.4 413.8	1,097.7 6,450.2 498.6	998.1 5,466.1 514.1	928.6 5,104.0 555.7	1,088.4 5,293.4 692.7	936.3 5,280.6 515.0	974.7 4,837.5 559.1	875.4 5,010.8 544.1	944.4 5,582.6 589.2	795.5 5,286.4 545.2		
Rustrana and Oceania do Europe do Northern North America do Southern North America do	4,318.8 60,025.9 33,096.7 14,886.5	71,371.4 35,399.0	5,949.0 3,000.5	¹ 5,686.6	6,069.1 3.239.5	498.6 7,141.1 3,747.1 2,213.0	6,068.4 3,639.0	5,795.4 3,691.1 2,271.1	5,338.0 3,927.8	5,214.1 2,977.3 2,082.3	5,019.3 3,103.0 1,834.2	5,709.9	6,040.2 3,145.8 2,070.6	5,720.0 3,213.8		

See footnotes at end of tables.

SURVEY OF CURRENT BUSINESS

February 1982		5		YOF	COR	RENI	BUS	DINES								5-1
Jnless otherwise stated in footnotes below, data hrough 1978 and descriptive notes are as shown	1979	1980	1980						19	31				_		1982
n the 1979 edition of BUSINESS STATISTICS	Anr	iual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
F	OREIG	N TR	ADE	OF T	HE U	NITE	ED SI	ГАТЕ	S-C	ontin	ued					
VALUE OF EXPORTS—Continued																
Exports (mdse.), incl. reexports—Continued																
By leading countries: Africa:																[
Egypt	1,432.9	1,873.6 2,463.5	134.8 218.3	¹ 152.7 ¹ 214.4	164.7 214.3	193.8 271.1	198.0 260.4	193.3 265.3	285.0 250.0	184.2 267.9	193.8 233.4	132.7 230.2	177.6 266.9	140.7		
Asia; Australia and Oceania:	1,413.0	2,403.0	210.5	214.4	214.0	271.1	200.4	200.3	200.0	201.5	200.4	230.2	200.5	222.0		
Australia, including New Guinea do India do	3,649.5 1,167.0	4,130.7 1,689.4	332.6 130.6	¹ 370.7 ¹ 147.7	355.9 108.1	417.0 139.9	426.9 122.9	424.2 114.6	488.6 126.0	430.1 165.2	477.7 129.6	464.9 219.5	490.8 208.8	464.1 116.1		
Pakistan	529.1 932.1	642.1 1,336.9	33.4 116.1	¹ 41.9 ¹ 115.2	28.9 94.6	39.9 137.1	28.9 197.8	41.6 104.3	38.6 123.5	41.3 133.2	69.5 115.5	42.6 116.8	51.6 131.6	32.0 131.1		
Indonesia do		1,545.1	88.6	110.2 110.7	86.7	118.0	108.0	104.7	104.1	115.1	99.4	85.5	121.9	129.7		
Philippines	1,570.1	1,999.1 20,790.0	243.7 1,828.9	¹ 140.3 1,741.8	124.4 1,746.0	$142.1 \\ 2,161.1$	$168.7 \\ 1,756.1$	143.6 1,595.2	144.4 1,786.8	162.5 1,900.0	160.6 1,594.2	$158.2 \\ 1,678.1$	165.4 1,859.0	142.3 1,940.1		
Europe:				1017 5			-									
France	5,587.0	7,485.4	572.6	¹ 617.5	630.7	847.3	705.8	652.1	550.8	512.8	518.5	613.2	555.2	573.9		
E. Germany) mil. \$ Federal Republic of Germany (formerly	356.0	478.6	68.7	149.5	50.1	33.9	40.0	25.2	5.2	14.6	9.0	9.0	24.9	17.7		
W. Germany) mil. \$ Italy	8,477.8 4,361.8		828.3 556.3	¹ 839.7 ¹ 418.2	863.6	1,025.9 574.3	864.1 394.5	940.0	808.5	737.9 352.0	763.7	887.7 419.6	900.2 390.4	846.4 459.0		
Union of Soviet Socialist Republics do	3,607.3	5,511.1 1,512.8	272.8	¹ 343.9	460.6 258.4	199.1	141.6	473.7 43.1	424.9 80.3	127.2	444.7 101.3	257.4	280.8	239.9		
United Kingdom do North and South America:	10,634.9	12,693.6	994.6	¹ 961.3	1,121.8	1,240.3	1,156.4	1,111.2	1,088.4	1,146.5	885.4	952.1	926.8	908.3		
Canada do	33,095.8	35,395.3	2,997.7	2,736.7 ¹	3,239.5	3,747.0	3,639.0	3,691.0	3,927.7	2,977.0	3,103.0	3,302.5	3,145.7	3,213.6		
Latin American republics, total # do Argentina do	26,258.9 1,889.8	36,030.4 2,625.3	3,580.5 238.9	¹ 3,071.0 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	2,977.7 124.0	3,241.7 152.0	3,089.2 138.6		
Brazil do Chile do	3,441.7 885.5	4,343.5 1,353.5	464.8 144.4	¹ 361.0 ¹ 135.8	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	302.3 115.1	257.7 124.3	256.5 125.9		
Colombia do Mexico do	1,409.3 9,847.3	1,735.6 15,144.6	174.3 1,581.1	¹ 116.1 ¹ 1,297.4	134.6 1,329.9	150.3 1,620.0	144.3	145.7 1,673.4	166.5 1,735.8	157.7	129.9 1,314.4	151.3 1,375.4	182.0 1,542.2	151.8		
Venezuela do	3,933.5	4,572.8	409.9	1347.7	474.8	487.8	436.8	482.4	438.5	508.7	399.9	453.1	439.3	508.8		
xports of U.S. merchandise, total § do Excluding military grant-aid do	178.426.0	216,592.2 216,436.0	19,217.2 19,209.6	¹ 17,598.0 17,596.2	18,522.0 18,514.6	22,494.1 22,483.3	20,102.3 20,099.7	19,618.1 19,615.5	19,851.9 19,845.1	18,198.6 18,194.9	17,455.8 17,453.6	18,376.5 18,373.4	19,466.4 19,463.1	18,646.0 18,638.3		
Agricultural products, total	34,755.4 143.832.6	41,255.9 175,336.3	4,279.4 14,937.8	¹ 4,067.2 ¹ 13,530.9	3,825.8 14,696.2	4,666.9 17,827.2	3,751.4 16,350.9	3,566.8 16,051.3	3,191.2 16,660.7	2,841.8 15,356.8	2,926.4 14,529.4	3,203.2 15,173.3	3,925.6 15,540.9	3,775.4 14,870.6		
By commodity groups and principal			,	,	,						,					
commodities: Food and live animals # mil. \$.	22,250.9	27,743.7	2,919.4	¹ 2,752.0	2,709.2	3,004.1	2,640.5	2,412.1	2,330.7	2,342.3	2,241.2	2,517.0	2,691.1	2,335.3	2,315.3	
Meats and preparations (incl. poultry) do Grains and cereal preparations do	1,126.9 14,453.8	1,292.6 18,079.0	125.2 1,929.0	¹ 119.3 1,853.6	123.3 1,830.9	149.4 1,942.3	$127.5 \\ 1,722.8$	$150.4 \\ 1,561.8$	131.2 1,482.7	95.6 1,432.9	110.3 1,477.9	97.3 1,676.9	129.4 1,639.6	126.9 1,392.0		
Beverages and tobacco do	2,336.5	2,663.0	275.3	¹ 221.7	198.3	262.3	219.0	237.5	217.7	194.4	187.3	259.8	304.8	375.1	236.8	
Crude materials, inedible, exc. fuels # do Cotton, raw, excl. linters and waste do	20,756.0 2,198.4	23,790.7 2,864.2	2,001.3 225.2	¹ 2,044.0 ¹ 299.5	1,843.5 296.4	2,325.9 315.0	1,823.9 208.6	1,865.0 190.0	1,594.4 134.1	1,244.5 108.6	1,301.0 94.7	1,376.6 81.9	1,831.5 96.8	1,930.7 174.6	1,811.4	
Sovbeans, exc. canned or prepared do	5,708.0	5,882.9	635.4	¹ 614.0	465.6	847.8	487.2 283.2	567.2	335.0	232.0	318.5	376.8	719.8 222.5	726.9		
Metal ores, concentrates, and scrap do Mineral fuels, lubricants, etc. # mil. \$.	3,324.5 5,620.5	4,517.6 7,982.3	266.5 740.9	¹ 275.8 ¹ 619.5	274.1 705.3	234.1 826.2	283.2 745.5	246.2 637.7	258.0 613.8	186.3 918.6	179.1 919.0	186.8 958.4	1,131.1	178.0 1,097.7	1,106.2	
Coal and related products	3,496.0 1,918.2	4,771.7 2,833.4	417.8 279.7	¹ 302.6 ¹ 278.1	339.2 323.5	499.3 296.5	420.8 285.8	302.7 307.1	336.9 220.5	579.2 297.7	604.1 243.5	649.1 238.4	672.0 422.5	662.6 368.8	413.6	
Oils and fats, animal and vegetable do	1,845.0	1,946.3	151.0	¹ 123.5	124.7	206.8	145.4	151.8	164.5	129.4	168.1	124.3	131.9	121.5	158.4	
Chemicals do	17,307.9	20,740.2			1,684.5	2,044.6	1,763.9	1,859.2	1	1,826.0	1,644.1	1,684.9	1,798.2		1,715.4	1
Manufactured goods # do	16,234.2		1,806.4	¹ 1,705.2		2,024.6		1,893.3		1,660.1	1,559.1	1,660.7	1,651.7			
Textiles	3,189.4	3,632.0 3,122.8	321.5 265.3	¹ 285.6 ¹ 240.5	288.2 228.9	366.2 243.4	343.4 255.0	329.7 257.9	320.3 263.3	277.3 242.3	299.1 205.1	286.1 232.8	288.4 257.8	281.7 230.1		
Nonferrous base metals do Machinery and transport equipment,	1,609.4	2,963.9	214.1	¹ 234.5	168.2	224.6	220.6	196.3	163.3	154.8	130.6	122.6	160.7	137.3		
total mil. \$.	. 70,407.3	84,552.9	7,531.1	¹ 6,472.0	7,522.2	9,395.1	8,651.4	8,459.8	8,840.2	7,597.2	7,471.5	7,845.4	8,001.8	7,529.4	7,931.2	
Machinery, total # do Agricultural do	44,744.5	55,789.7 3,103.6	4,791.2 268.9	¹ 4,592.2 ¹ 231.6	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	5,197.2 269.6	5,457.5 329.3	5,167.7 282.9		
Metalworking	1,391.4 1,233.8	1,756.3 1,627.7	168.1 122.5	178.5 122.7	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	160.8 172.0	$170.8 \\ 155.2$	151.3 136.0		
Electrical do	8,635.0	10,484.5	869.3	'830.1	895.5	1,103.5	985.4	966.2	1,051.6	960.2	942.5	907.5	1,028.6	923.8		
Transport equipment, total do Motor vehicles and parts do	25,750.4	28,838.8 14,589.6	2,742.5 1,202.0	¹ 1,880.5 ¹ 1,060.4	2,673.3 1,334.5	3,351.8 1,592.5	3,196.1 1,531.5	3,089.1 1,603.8	3,226.4 1,573.4	2,298.9 1,297.3	2,592.1 1,196.4	2,649.0 1,306.8	2,545.0 1,325.5	2,367.6 1,267.3		
Miscellaneous manufactured articles do	12,637.4	16,343.1	1,311.5	¹ 1,253.9	1,311.1	1,630.9	1,489.2	1,383.3	1,492.0	1,402.2	1,365.2	1,351.8	1,430.1	1,345.3	1,290.9	
Commodities not classified do	9,030.3	8,419.5	703.8	י 723.0	750.9	762.7	680.0	715.9	970.1	880.1	597.1	594.6	490.9	614.1	609.2	
VALUE OF IMPORTS	900 955 9	040 004 0	01 010 0	100 577 1	91 104 9	01 200 0	00 775 0	91 454 9	00 500 0	20.240.6	09 617 E	90 749 7	02 555 1	99 555 0	19,663.4	
eneral imports, total do Seasonally adjusted do	. 200,255.8	240,834.3	21,312.0 21,173.9	¹ 22,577.1 ¹ 23,194.3	21,124.3 21,921.7	21,362.6 20,949.3	22,775.2 22,289.2	21,454.2 21,309.9	22,522.2 21,974.7	20,349.6 19,806.7	22,617.5 23,528.3	20,748.7 21,228.6	23,555.1 23,234.4	22,555.0 22,521.5	19,663.4	
By geographic regions: Africa do	24,381.6	32,250.9	2,890.1	¹ 3,033.3	3,044.5	2,302.0	3,219.5	2,204.6	2,973.6	1,723.0	1,950.9	1,785.1	1,669.6	1,797.2		
Asia do Australia and Oceania do do	66,739.3 3,072.0	78,848.0 3,391.9	6,837.3 323.8	18,008.2 1361.6	6,555.1 255.0	7,161.0	7,468.4	7,355.7 259.3	7,438.7 305.6	7,265.8	8,450.6 256.1	7,629.0 342.0	9,102.7 308.5			
Europe do	43,546.7	47,849.7	4,074.2	4,160.7	4,033.4	4,506.5	4,588.1	4,410.8	4,516.2	4,565.1	4,938.1	4,055.6	4,654.2	4,570.7		
Northern North Americado Southern North Americado	38,069.1 17,268.0	41,470.9 22,656.9	3,807.3 1,845.9	^{3,623.4} 1,761.7	3,678.1 2,012.4	3,990.0 1,921.3	3,922.2 2,128.6	4,142.3 1,994.4	4,051.5 2,114.8	3,677.8 1.713.8	3,640.9 2,074.0	3,707.7 1,899.6	4,259.8 2,155.7	4,132.2 1,874.7		
South America do	13,172.3			1,627.4	1,545.6	1,294.0		1,086.8			1,306.6		1,404.2			
By leading countries: Africa:																
Egypt do Republic of South Africa do	381.0	458.4 3,320.5	9.9 275.4	159.7 1234.0	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	28.6 151.2	51.4 180.9	3.3 352.4		

See footnotes at end of tables.

SURVEY OF CURRENT BUSINESS

Inless otherwise stated in footnotes below, data	1979	1980	1980						198	81						19
hrough 1978 and descriptive notes are as shown n the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ja
FC	REIG	N TR	ADE	OF T	HE U	NITI	ED ST	ATE	s—Co	ontin	ued					
VALUE OF IMPORTS-Continued							1	-								
eneral imports—Continued		r.														!
By leading countries—Continued																
Asia; Australia and Oceania: Australia, including New Guinea mil. \$	2,236.1	2,562.3	255.1	¹ 306.3	187.8	143.9	194.3	195.3	223.3	161.7	190.3	261.0	238.3	177.2		
India do Pakistan do	1,037.7 120.0	1,097.6 127.6	72.9 13.0	¹ 99.5 ¹ 13.9	$121.0 \\ 14.4$	110.8 15.1	103.8 14.7	97.0 17.4	99.1 14.4	78.2 13.8	115.9 14.6	86.9 10.3	110.4 17.3	99.6 14.4		
Malaysia do	2,145.6 3,620.6	2,577.0	231.4 574.8	¹ 198.6	206.9 499.5	164.2 602.9	$182.7 \\ 486.2$	191.1 446.9	164.0 399.5	$192.6 \\ 451.0$	153.4 496.0	170.6 342.9	201.2 617.5	$175.3 \\ 708.5$		
Indonesia do Philippines do	1,490.1	5,182.5 1,730.3	207.9	¹ 552.6 197.1	180.5	162.3	142.6	175.1	178.9	162.3	150.5	155.1	193.3	139.6		
Japan do	26,248.2	30,701.3	2,713.7	¹ 3,196.1	2,341.2	3,053.1	3,223.0	3,030.5	3,147.6	3,140.7	3,542.9	2,910.1	3,698.9	3,326.5		
Europe: France do	4,767.8	5,247.0	494.9	499.6 ^י	455.8	465.3	456.7	501. 9	469.9	440.3	529.1	432.2	466.9	599.6		
German Democratic Republic (formerly E. Germany) mil. \$	36.4	43.9	4.2	¹ 4.9	2.9	3.8	4.1	3.8	4.1	2.5	5.1	3.6	4.5	4.0		
Federal Republic of Germany (formerly		11,681.2	896.4			970.0	1,011.0	971.9	918.3	950.1	987.8	789.3	972.1	998.7		1
W. Germany) mil. \$ Italy do	10,955.4 4,917.5	4,313.1	414.4	¹ 995.8 ¹ 391.7	758.0 396.7	395.6	397.6	431.6	411.8	433.5	494.8	409.0	429.1	494.4		
Union of Soviet Socialist Republics do United Kingdom	873.6 8,027.7	453.2 9,755.1	55.9 885.6	¹ 82.9 1854.6	32.4 869.1	44.5 1,119.1	19.7 1,103.9	18.4 989.5	13.3 1,189.4	39.0 1,131.7	14.1 1,505.0	15.8 1,126.2	31.7 1,085.2	27.8 954.7		
North and South America:		.,					,				1					
Canada do	38,046.1	41,455.4	3,804.8	`3,6 22.0	3,676.4	3,987.7	3,921.6	4,140.9	4,048.8	3,677.2	3,638.7	3,705.5	4,258.9	4,132.2		
Latin American republics, total # do Argentina do	24,767.0 587.1	29,851.2 740.8	2,824.2 86.2	¹ 2,801.8 ¹ 119.6	2,933.5 94.2	2,636.6 136.5	2,659.0 56.0	2,435.3 76.5	2,562.8 72.8	2,381.9 70.6	2,616.6 83.5	2,651.5 119.1	3,015.7 108.3	2,755.6 131.6]
Brazil do	3,118.2	3,714.6	333.6	1390.2	382.4	413.6	297.1	337.6	349.2	352.1	356.4	395.0	411.8	412.6		
Chile do Colombia do	439.8 1,209.4	515.0 1,240.5	30.9 119.8	¹ 56.5 197.2	39.6 98.3	50.0 69.4	70.6 63.3	54.3 74.2	34.9 69.8	46.3 38.7	54.2 49.7	42.3 55.0	58.4 76.3	47.7 53.0		
Mexico do Venezuela do	8,800.1 5,165.9	12,519.5 5,297.1	1,069.8 696.4	¹ 918.1 1717.7	$1.167.2 \\ 612.3$	1,104.9 407.0	1,245.4 496.5	$1,072.2 \\ 324.2$	1,207.7 310.3	987.5 433.5	$1,122.6 \\ 514.8$	1,119.2 472.7	1,362.4 467.0	1,287.1 373.5		
By commodity groups and principal		-,											-			
commodities: Agricultural products, total mil. \$	16,879.5	17,425.0	1,536.0	¹ 1,613.0	1,714.8	1,506.3	1,417.6	1,552.3	1,306.7	1,184.8	1,394.7	1,290.0	1,428.0	1,247.7	1,367.9	
Nonagricultural products, total do	189,376.3	223,409.2	19,776.0	121,007.0	19,471.8	19,826.6	21,326.7	19,891.4	21,182.9	19,132.4	21,276.8	19,487.8	22,107.4	21,305.4		
Food and live animals # do	15,169.5	15,762.7	1,385.9	¹ 1,471.0	1,340.9	1,372.9	1,225.0	1,371.2	1,240.9	1,161.6	1,176.1	1,150.7	1,295.4	1,132.7	1,299.2	
Cocoa beans do Coffee	554.9 3,819.7	395.2 3,872.3	43.1 310.8	¹ 29.4 1332.5	56.3 290.1	37.8 243.6	$62.0 \\ 205.5$	$51.3 \\ 232.0$	43.7 165.3	33.6 143.9	42.6 187.2	38.5 163.7	39.8 210.8	10.9 220.9		
Meats and preparations do Sugar do	2,539.3 974.3	2,346.3 1,987.5	226.0 169.0	¹ 206.9 1225.8	189.7 177.7	$153.6 \\ 182.3$	$168.9 \\ 143.9$	$148.0 \\ 197.2$	160.4 146.1	168.9 140.9	176.0 117.3	184.7 163.8	$178.3 \\ 235.0$	130.7 136.0		
Beverages and tobacco do	2,565.0	2,771.5	217.4	¹ 253.3	236.0	244.9	261.5	311.7	231.3	219.7	285.5	239.3	316.3	299.9	238.9	
Crude materials, inedible, exc. fuels # do	10,652.7	10,495.9	871.2	¹ 885.9	1,029.4	989.3	1,038.3	1,129.7	1,061.4	891.9	873.2	829.2	944.7	824.3	696.1	
Metal ores do Paper base stocks do	3,249.1 1,546.7	3,696.1 1,773.4	293.2 150.8	¹ 320.9 167.9	311.5 159.0	278.0 163.4	354.1 132.4	352.3 181.6	404.7 156.3	324.9 145.8	342.9 142.0	298.5 122.5	314.3 180.8	$298.2 \\ 148.5$		
Textile fibers do	231.2	242.1	19.5	¹ 26.7	33.4	34.0	32.4	33.0	22.2	33.2	29.8	19.7	26.6	25.2		
Rubber do	897.1	816.1	59.2	¹ 40.5	111.1	71.4	79.6	66.6	60.7	48.7	50.2	71.6	73.4	56.5		
Mineral fuels, lubricants, etc do Petroleum and products do	59,997.9 56,035.6	79,057.7 73,770.9	7,218.4 6,766.8	¹ 8,014.2 ¹ 7,388.5	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	6,557.9 6,154.3	6,643.7 6,153.7	$^{6,613.2}_{6,113.7}$	5,426.9	
Oils and fats, animal and vegetable do	739.8	533.4	69.0	¹ 50.1	60.0	46.6	24.9	40.5	32.0	38.3	32.8	37.2	41.4	40.4	35.3	
Chemicals do	7,478.6	8,582.7	718.1	¹ 735.8	767.4	818.1	825.4	794.1	815.9	707.8	929.0	816.6	826.3	718.2	691.3	1
Manufactured goods # do Iron and steel do	30,064.1 7,466.5	32,190.4 7,363.6	2,854.7 737.1	¹ 2,910.5 ¹ 658.6	2,795.1 677.5	2,807.7 622.8	3,125.0 933.0	3,221.0 968.4	3,179.9 961.9	3,092.3 922.4	$3,440.2 \\ 1,247.7$	3,077.0 1,012.2	$3,455.1 \\ 1,059.0$	3,287.0 1,120.4	2,901.1	
Newsprint do Nonferrous metals do	2,322.1 6,320.1	2,685.2 7,622.7	232.5 656.6	¹ 231.2 1623.6	233.4 650.9	248.6 576.5	236.3 606.6	$253.7 \\ 595.1$	232.9 612.1	$229.3 \\ 581.0$	$209.3 \\ 568.2$	219.4 533.2	279.9 605.2	$258.4 \\ 526.3$		
Textiles do	2,216.3	2,493.3	209.4	1258.0	226.2	252.0	249.2	242.6	253.0	254.5	269.2	247.7	285.8	277.4		
Machinery and transport equipment do Machinery, total #	53,677.3 28,043.5	60,545.7 31,903.6	5,335.7	¹ 5,615.7 ¹ 2.886.4	4,694.2 2.611.4		5,954.3 3.125.4	5,853.8 3,112.3		5,694.2 3,198.0	5,883.0 3,376.9	5,254.6 3,146.3			5,711.3	
Metalworking do	1,442.4	1,813.7	155.1	¹ 186.6	144.0	152.5	159.0	167.7	138.0	167.0	177.3	164.2	187.6	192.1	•••••	
Electrical do	6,588.0	8,064.1 28,642.0	747.7	¹ 702.5	606.2	757.1	711.9	763.4 2,741.5	811.7	757.0 2,496.3	789.3 2,506.1	787.5 2,108.4	929.9	843.7 2,865.9		
Transport equipment do Automobiles and parts do	25,633.9 22,074.8	28,642.0 24,133.9	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	2,506.1 2,089.7	2,108.4 1,752.4	2,787.5 2,370.7	2,865.9		
Miscellaneous manufactured articles do	21,006.3	23,711.0	2,017.2	¹ 2,012.5	1,779.3	2,054.8	1,911.0	2,047.8	2,142.0	2,324.1	2,492.2	2,285.4	2,699.8	2,384.7	2,045.1	
Commodities not classified do	4,904.6	7,183.3	624.4	¹ 628.1	478.6	568.1	574.5	606.3	640.6	527.7	625.0	500.8	725.8	802.1	618.3	
Indexes					:											
xports (U.S. mdse., excl. military grant-aid):	121.6	138.1	147.7	¹ 149.5	149.0	148.4	150.4	151.1	149.7	152.2	151.0	151.3	152.8	153.0	152.9	
Unit value	124.5	132.9	132.4	¹ 119.8	126.4	154.2	136.0	132.1	134.9	121.7	117.6	123.6	129.6	124.0	123.9	.
Value do	151.3	183.6	195.5	'179.1	188.4	228.8	204.6	199.6	202.0	185.2	177.6	187.0	198.1	189.7	189.5	
eneral imports: Unit value do	128.7	161.4	169.7	¹ 173.1	174.3	176.1	175.9	172.5	172.4	170.0	167.8	166.3	166.4	165.7	167.4	.
Quantitydo Valuedo	110.4 142.1	102.6 165.5	99.9 175.4	107.3 185.8	99.7 173.8	99.8 175.8	106.5 187.3	102.3 176.5	107.6 185.4	98.5 167.4	110.9 186.0	$102.6 \\ 170.6$	116.3 193.6	$111.9 \\ 185.3$	96.5 161.6	
Shipping Weight and Value	142.1	100.0	110.4	100.0	110.0	110.0	101.0	110.0	100.1	101.1	100.0	110.0	100.0	100.0	101.0	1
Jaterborne trade:																
Exports (incl. reexports):	357,793	401 179	95 500	¹ 30,586	20.010	96 410	29.400	20 650	20.044	33 500	33 221	96 001				
Shipping weight thous. sh. tons Value	357,793 97,579	401,172 118,835	$35,590 \\ 10,661$	¹ 30,586 ¹ 10,145	30,016 9,860	$36,416 \\ 12,046$	$32,482 \\ 10,524$	$30,656 \\ 10,563$	29,244 9,754	33,589 9,809	33,551 9,075	$36,081 \\ 10,079$		·····	•••••	
General imports;																L
Shipping weight thous. sh. tons Value	597,495 140,091	487,936 164,924	40,858 14,374	¹ 42,630 ¹ 15,920	40,302 14,657	34,240 14,073	41,019 15,909	$37,102 \\ 14,335$	42,874 15,603	35,014 13,649	43,812 15,959	39,482 14,123			••••••	

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data	1979	1980	1980						198	81						1982
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	TR	ANSI	PORT	ATIC	N AI	ND C	OMM	UNIC	CATI	ON	L		I	·		•
TRANSPORTATION Air Carriers (Scheduled Service)																
Certificated route carriers: Passenger-miles (revenue) bil Passenger-load factor percent Ton-miles (revenue), totalmil.	262.02 63.0 33,390	254.18 59.0 32,487	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	21.82 61.0 2,776	22.86 60.8 2,876	24.46 60.8 3,057	24.50 68.2 3,023	19.72 57.6 2,566	20.16 57.7 2,673		······	
Operating revenues (quarterly) # §	27,227 22,792 2,211 464 ² 27,018 331	² 33,267 ² 22,791 ² 2,427 621 ² 33,462 ² -90	8,388 6,997 637 172 8,372 122			8,367 7,108 577 157 8,536 -217			9,416 7,963 625 159 9,292 3			9,729 8,195 625 161 8,600 73				
Domestic operations: Passenger-miles (revenue) bil Cargo ton-miles	'208.89 3,466 853	200.09 3,274 944	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	18.94 297 78	18.64 273 75	15.15 289 78	15.97 308 85	¹ 12.69	¹ 14.27	'13.8 [;]
Operating revenues (quarterly) § mil. \$ Operating expenses (quarterly) § do Net income after taxes (quarterly) § do	21,652 21,523 222	26,376 ²26,383 ²156	6,740 6,625 263		······	6,964 6,993 65			7,542 7,409 41			7,463 7,442 -12				
International operations: Passenger-miles (revenue)bil. Cargo ton-milesbil. Mail ton-milesdo	² 53.13 2,498 372	54.09 2,458 392	170	3.60 145 28	2.92 162 28	3.36 204 31	3.84 184 31	4.41 194 31	5.04 191 29	5.52 207 29	5.86 196 29	4.57 199 29	4.19 232 32			
Operating revenues (quarterly) § mil. \$ Operating expenses (quarterly) § do Net income after taxes (quarterly) § do Urban Transit Systems	5,575 5,505 109	² 6,891 ² 7,079 ² -246	1,648 1,746 -140		••••••	1,403 1,543 -152			1,627 1,641 -36			1,932 1,859 61				
Passengers carried, totalmil Motor Carriers	8,130	8,228	681	647	644	726	690	676	693	615	625	645	693	643	652	
Carriers of property, large, class I, qtrly.: Number of reporting carriers	100 ²15,051	100 15,538	100 4,273			100 '3,921			100 ¹ 4,264			100 4,301				
charges and credits	312 215	284 183	105 49			"25 ¤46			'92 '47			78 46				
Freight carried—volume indexes, class I and II intercity truck tonnage (ATA): Common and contract carriers of property (qtrly.)average same period, 1967=100 Common carriers of general freight.	155															
seas. adj 1967=100 Class I Railroads ‡	180.3	147.9	153.0	152.7	151.9	150.8	153.2	152.2	151.9	153.7	148.5	145.1	139.4	'136.6	▶128.8	
Financial operations, qtrly. (AAR), excl. Amtrak: Operating revenues, total #	25,352 23,576 382	28,254 26,350 439	7,514 7,022 118			7,660 7,182 121			7,582			7,966				
Operating expenses	24,093 858 ³ 840	26,352 1,337 31,131	6,807 540 545			6,960 469 636			7,179 274 341			7,331 430 498				
Traffic: Ton-miles of freight (net), total, qtrly	928.7 913.7 243.4	933.1 918.6 285.5	239.4 236.0 300.5			236.1 236.6 321.4	 321.0	321.4	229.8 222.5 324.3	333.2	333.5	227.1 227.5 333.6	337.6	337.8	228.5 337.5	474.3 349.7
Hotels and motor-hotels: Restaurant sales index same month 1967=100 Hotels: Average room sale 1	170 45.69 72 32.36 71	182 49.48 65 35.30 66	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	214 56.05 69 39.42 76	192 49.44 68 38.79 76	191 55.55 67 38.56 67	215 59.56 74 38.85 68			
Foreign travel: U.S. citizens: Arrivals	9,259 9,681 9,886 7,814	² 9,010 ² 9,971 ² 11,252 ² 9,285	564 758 910	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	672 985 1,293 873	989 904 1,369 1,198	715 831 1,040 913	746 752 938 830	622 658 778 726		
Passports issued down down National parks, visits down down COMMUNICATION	3,170 56,922	3,020 59,081		233 2,017	237 2,092	338 2,622	335 3,556	317 5,237	363 7,892	323 10,955	1,138 272 11,226	6,865	196 5,032	172 172 2,719	r210 2,023	₽208
Telephone carriers: Operating revenues # mil. \$ Station revenues do Tolls, message do Operating expenses (excluding taxes) do Net operating income (after taxes) do Phones in service, end of period mil.	50,604 21,967 22,389 33,110 9,084 155.1	56,738 24,333 22,983 37,983 10,194 159.9	4,970 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	5,714 2,338 2,319 3,727 1,074 164.8	5,772 2,360 2,340 3,703 1,117 164.6	5,816 2,415 2,310 3,812 1,085 165.3	5,838 2,466 2,354 3,820 1,111 165.3	2,264 4,060 950		
Telegraph carriers: Domestic: Operating revenues	636.0 519.2 80.2	697.1 561.5 95.9	60.5 49.0 7.8	57.9 48.8 5.9	58.5 48.2 7.1	63.0 49.3 10.3	64.0 50.0 10.8	61.9 48.6 7.3	68.4 54.9 9.3	68.0 55.5 8.9	68.2 53.0 11.4	67.7 56.0 7.8	67.6 56.8 7.7	65.7 53.1 9.1		
Overseas, total: Operating revenues	491.1 326.2 142.7	⁵ 534.2 ⁵ 374.4 ⁵ 137.4	46.2 39.6 5.1	45.2 33.2 9.8	45.1 32.2 10.8	50.0 34.0 13.7	48.0 35.2 10.7	46.6 36.0 8.5	49.5 28.3 11.1	50.2 38.3 9.9	47.0 39.4 5.4	50.1 39.1 8.7	51.2 36.9 12.1	48.0 37.4 8.5		

See footnotes at end of tables.

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Unless otherwise stated in footnotes below, data	1979	1980	1980						198	31						198
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ja
		CHEN	MICA	LS A	ND A	LLIE	D PF	RODU	JCTS							•
CHEMICALS																
Inorganic Chemicals Production:																
Aluminum sulfate, commercial $(17\% \text{ Al}_2\text{O}_3) \ddagger \text{thous. sh. tons.}$	1,314	1,182	103	92	91	94	102	99	98	114	97	119	106	93		
Chlorine gas (100% Cl ₂) ‡	12,228 3,090 460	11,198 2,812 440	1,011 250 40	886 241 36	904 209 34	932 217 38	960 210 38	947 210 39	937 221 36	893 221 34	874 202 37	851 183 34	837 173 38	765 173 32		
Sodium hydroxide (100% NaOH) ‡do Sodium silicate, anhydrous ‡do Sodium sulfate, anhydrous ‡do	12,772 770 1,115	11,324 740 1,258	1,031 55 103	924 51 92	910 58 115	952 69 98	965 70 98	962 55 99	945 73 95	894 62 96	873 59 96	861 69 95	826 *61 92	767 58 89		
Sodium tripolyphosphate (100% $Na_sP_3O_{10}$) tanium dioxide (composite and pure) tanium dioxide (composite and pure)	758 741	719 713	53 59	55 58	57 60	60 63	61 68	59 70	66 68	57 61	58 57	53 65	'56 65	51 58		
Sulfur, native (Frasch) and recovered: Production	10,263 4,172	'10,271 3,042	888 3,042	890 3,018	818 2,989	869 2,918	838 2,876	878 2,859	875 2,824	915 2,930	914 3,044	852 3,203	834 3,235	842 '3,367	844 3,571	
roduction:																
Ammonia, synthetic anhydrous ‡ thous. sh. tons	18,523	19,028	1,730	1,663	1,535	1,733	1,698	1,632	1,582	1,545	1,510	1,537	1,547	1,493	••••••	
Ammonium nitrate, original solution ‡ do Ammonium sulfate ‡ do Nitric acid (100% HNO ₃) ‡ do	7,543 2,363 8,465	8,590 41,469 8,931	821 (²) 861	837 (²) 832	736 (²) 764	839 217 875	778 219 804	741 188 760	651 181 695	673 199 714	617 165 657	684 152 717	744 (²) r742	723 148 728		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	2,245 10,317 43,204	3,031 10,856 44,272	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	*250 850 3,412	*231 676 2,896	252 742 3,142	*224 760 73,096	217 690 2,864		
Superphosphate and other phosphatic fertilizers $(100\% P_2O_5)$:								İ								
$\begin{array}{c} Production \qquad \qquad \ \ \ \ \ \ \ \ \ \ \ \ $	7,662 366 57,640	8,339 372 6,950	749 372 810	r ⁷ 1,659 r ⁷ 1,103 371	*1,553 *1,338 556	'1,717 '1,417 651	'1,693 '1,374 687	"1,632 "1,339 441	"1,514 "1,414 514	1,436 ¹ 1,561 513	1,092 '1,321 806	1,158 *1,211 378	*1,177 399	1,113 1,279 550	····· '614	
xports, total #do Nitrogenous materialsdo Phosphate materialsdo Potash materialsdo	³ 28,043 ³ 3,176 17,919 1,576	29,445 3,668 17,524 1,815	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	1,872 220 1,029 90	1,512 167 880 93	1,579 221 982 101	1,834 246 1,148 100	
nports: do Ammonium nitrate do Ammonium sulfate do Potassium chloride do Sodium nitrate do	277 245 9,275 116	247 289 8,907 158	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	15 17 786 16	26 10 655 26	26 12 577 6	17 58 719 0	
Industrial Gases																
roduction: Acetylene ‡ mil. cu. ft Carbon dioxide, liquid, gas, and solid	5,608	5,493	491	480	404	440	409	397	388	389	353	425	r392	387		
Hydrogen (high and low purity) ‡ do Nitrogen (high and low purity) ‡ do Oxygen (high and low purity) ‡ do	3,780 106,456 427,107 456,244	3,720 106,064 478,964 430,729	310 10,072 42,461 38,591	311 8,660 40,146 35,675	288 9,490 38,322 32,983	324 8,582 41,248 37,153	355 8,625 40,052 36,281	324 8,746 41,797 37,964	345 8,490 40,396 35,726	385 8,544 40,921 36,147	353 7,630 40,939 34,158	324 8,785 41,225 34,930	*41,545	306 7,667 39,191 32,530		
Organic Chemicals §																
roduction: Acetylsalicylic acid (aspirin)mil. lb Creosote oilmil. gal. Ethyl acetate (85%)mil. lb	¹ 31.9 ¹ 161.6 ¹ 262.4	'33.7 152.5 '233.6			2.6 10.2 20.8		3.2 10.4 27.2	1.9 11.0 22.2			2.8 8.2 22.7		26.0			
Formaldehyde (37% HCHO) do Glycerin, refined, all grades do	¹ 5,971.1 297.8	¹ 5,555.3 314.8	519.0 22.3	452.8 25.9	506.8 20.7	531.9 25.3	576.5 27.1	537.0 25.7	504.2 27.0	461.2 25.3	593.0 24.2	494.7 29.8	483.1 28.7	435.8 22.7	376.5 16.4	
Methanol, syntheticmil. gal Phthalic anhydridemil. lb ALCOHOL	'1,109.5 '1,012.9	1,077.3 818.2	106.1 79.2	109.7 68.6	99.7 53.0	97.1 96.0	114.5 84.7	100.5 87.1	108.2 81.4	112.5 60.6	84.6 72.5	99.5 80.3		107.7 48.4	121.5 57.1	
thyl alcohol and spirits: Productionmil. tax gal Stocks, end of perioddo	570.3 53.6	*642.8 72.0	53.7 72.0	49.2 78.3	44.3 64.8	49.3 73.6	50.9 69.8	44.0 76.2	42.2 67.5	45.3 72.5	55.8 75.4	53.1 78.7				
enatured alcohol: Production	260.7 260.9	r300.8 r282.8	21.9 17.9	23.1 25.6	18.7 18.2	17.4 17.7	19.3 18.5	18.0 17.5	23.4 23.0	17.2 16.6	18.0 17.3	18.8 18.5				
Stocks, end of period do	4.1	10.7	10.7	7.0	8.2	6.6	4.5	4.0	3.1	3.4	3.5	3.1				·
PLASTICS AND RESIN MATERIALS													ļ			
Phenolic resins mil. b. Polyethylene and copolymers do. Polystopylene do. Polystyrene and copolymers do. Polyvinyl chloride and copolymers do. MISCELLANEOUS PRODUCTS	¹ 1,778.6 ¹ 12,408.4 ¹ 3,823.9 ¹ 6,326.9 ¹ 6,211.4	¹ 1,744.9 ¹ 11,719.9 ¹ 3,699.0 ¹ 5,540.1 ¹ 5,485.4	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	125.1 1,032.7 328.1 456.6 500.0	125.4 984.3 316.9 496.3 451.1	327.3	104.9 886.8 301.4 433.2 384.9	273.3) 3
xplosives (industrial), shipments, quarterly	0.00-	10.00-							F00 F						010-	
ril. lb Paints, varnish, and lacquer, shipments: Total shipments mil. \$ Architectural coatings	2,987.1 *7,024.8 *3,418.7	¹ 3,000.4 7,635.9 3,641.2	788.6 520.3 217.4	555.1 235.2	593.2 259.2	741.2 728.1 339.5	774.5 374.6	770.8 385.4	599.7 851.8 426.1	774.4 396.8	784.8 390.5	846.1 773.2 372.5	315.1	578.3 250.7	816.7	
Product finishes (OEM) do Special purpose coatings do	°2,284.0 °1,322.0	2,418.5 1,576.2	193.3 109.7	208.8 111.1	213.8 120.2	249.5 139.1	248.3 151.6	240.4 145.0	261.2 164.5	224.9 152.7	232.7 161.7	233.0 167.7	¹ 235.7	202.7 124.9		

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data	1979	1980	1980						19	81						1982
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Anr	nual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
			ELEC	TRIC	C POV	VER	AND	GAS								
ELECTRIC POWER	1															
Production: Electric utilities, totalmil. kw.hr. By fuels do By waterpower	2,246,808 1,967,025 279,783	2,286,034 2,010,013 276,021	195,589 173,299 22,290	205,192 182,836 22,355	179,624 158,490 21,134	185,435 164,863 20,572	151,646	177,656 153,574 24,081	202,694 176,325 26,370	220,164 195,032 25,133	210,245 188,610 21,635					
Sales to ultimate customers, total (Edison Electric Institute) ‡mil. kwhr Commercial and industrial: Small light and power §	2,079,221 493,494	509,547	41,869	43,944	180,663 42,615	172,296 41,114	164,971 39,710	162,656 40,392	174,208 44,501	191,316 48,909	192,116 48,848	47,192	170,764 43,184			
Large light and power § do Railways and railroads do	815,586	4,292	66,331 381	65,189 379	65,632 365	367	66,000 339	66,040 331	335	68,847 332	69,198 326	325	66,677 322	••••••		······
Residential or domestic	694,266 14,755 49,481 7,394	· ·	60,279 1,335 4,138 543	71,063 1,418 4,466 589	65,789 1,345 4,340 578	58,402 1,317 4,242 602	1,152 4,175	49,978 1,206 4,125 584	55,789 1,172 4,332 581	67,078 1,137 4,442 572	67,472 1,177 4,481 614	61,040 1,206 4,284 587	54,522 1,220 4,288 550			
Revenue from sales to ultimate customers (Edison Electric Institute) ‡ mil. \$	77,691.5											9,609.9				
GAS Total utility gas, quarterly				ļ												
(American Gas Association): Customers, end of period, totalthous Residential do	46,708 43,027	*43,528				47,840 44,016			47,760 43,963		 		 			
Commercial do Industrial do Other do	3,446 189 45	r3,499 r188 r48	'3,499 '188 '48			3,584 191 49			3,560 189 48							
Sales to customers, total tril. Btu.	. 15,440		'3,974	ł		5,312			3,458							
Residentialdo Commercial do Industrial do Other dodo	5,083 2,486 7,555 316	r4,823 r2,442 r7,862 r283	'1,288 '655 '1,951 '81			2,151 996 2,068 97			789 428 2,182 60							
Revenue from sales to customers, total mil. \$	38,947	*48,276	'13,191			18,993			12,416							
Residentialdo Commercialdo Industrialdo Otherdo	14,833 6,624 16,961 530	r17,409 r8,149 r22,081 r637	r4,919 r2,322 r5,764 r187			8,336 3,725 6,662 269			3,405 1,678 7,182 152					·····		
	FO	OD A	ND K	IND	RED	PROI	DUCT	S: TO	BAC	co		1				
ALCOHOLIC BEVERAGES															[
Beer: Productionmil. bbl. Taxable withdrawalsdo Stocks, end of perioddo.	184.19 168.12 13.29	173.37	12.38	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	17.72 16.22 14.53	15.72 14.68 14.42	14.61 13.84 13.99	13.12 12.39 13.38		
Distilled spirits (total): Production mil. tax gal.	186.68	140.53	14.96	14.42	14.30	16.68		12.73	11.82	6.38	7.93	11.43				
Consumption, apparent, for beverage purposes ‡mil. wine gal Stocks, end of period ‡mil. tax gal Importsmil. proof gal	447.52 645.67 123.65	² 449.93 578.02	54.40 578.02	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	37.72 637.85 7.67	35.91 621.26 8.56	33.36 618.00 8.33	34.75 612.74 11.77	39.07 	12.32		
Whisky: Production ‡ mil. tax gal Stocks, end of period ‡	101.26 581.16	512.02			8.13 553.47											
Importsmil. proof gal Wines and distilling materials: Effervescent wines: Productionmil. wine gal Taxable withdrawals	95.40 23.48 22.40	26.20 25.29	7.06 3.11 2.94	6.51 1.87 1.27	5.06 2.42 1.03	7.64 2.85 1.63	6.88 2.42 1.73	7.56 2.36 1.98	5.30 3.05 2.42	6.52 2.47 1.68	5.83 2.30 2.26	9.32 2.04 2.11	10.00 3.80 4.52	9.30	6.62	
Stocks, end of period do Imports do Still wines:	10.03 4.53	9.26	9.26 0.66	10.90 0.85	11.86 0.35	13.20 0.38	13.97 0.55	14.47 0.64	11.92 0.45	15.14 0.55	14.89 0.52	14.44 0.53	20.75 0.76	1.07	1.01	
Production ‡ do. Taxable withdrawals ‡ do. Stocks, end of period ‡ do. Imports do.	434.01 328.48 558.43 87.63		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		5.62 29.03 466.63 9.34	4.45 31.20 428.05 7.97	5.84 29.51 401.61 8.58	74.37 26.66 437.53 9.51	202.16 31.46 620.50 8.37	101.90 36.40 656.67 10.24	11.12	10.91	
Distilling materials produced at wineries do DAIRY PRODUCTS	254.36	'224.38	10.29	5.51	3.52	2.81	2.94	5.96	5.24	2.96	35.12	67.97	32.05			
Butter, creamery: Production (factory) @ mil. lb Stocks, cold storage, end of period do Price, wholesale, 92 score (N.Y.)	984.6 177.8 1.272			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	85.0 515.6	86.3 490.0	100.5 470.0	94.2 *451.1	108.9 429.2	
Cheese: Production (factory), total @mil. lb American, whole milk @do	3,717.2 2,189.9	3,983.1 2,374.6	354.4 204.8	342.8 212.2	316.5 198.1	365.4 224.5	371.2 237.5	386.9 253.5	385.9 243.6	347.1 217.9	333.7 202.8	324.5 188.2	338.8 198.4	326.3 191.3		
Stocks, cold storage, end of period do	512.1	578.8	578.8	601.7 504.7	596.3	591.1	631.9	649.8	685.7	714.2	720.9	694.3	682.4	r677.5	709.6	717

See footnotes at end of tables.

512.1 406.5 248.3

1.414

578.8 479.6 231.2

1.562

601.7 504.7 10.3

1.640

578.8 479.6 44.4

1.641

596.3 508.6 11.6

1.640

591.1 501.4 15.3

1.669

631.9 539.4 19.5

1.670

649.8 555.6 13.7

1.678

685.7 585.0 16.8

1.679

714.2 615.7 18.6

1.678

720.9 617.7 16.9

1.678

694.3 598.6 22.0

1.678

682.4 591.3 23.4

1.685

*677.5 *590.4 26.5

1.692

709.6 623.0 52.9

1.684

717.3 632.0

1.684

SURVEY OF CURRENT BUSINESS

February 1982

through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS												· · · · · · · · ·		r		
	Anr	iual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
FO	OD A	ND KI	NDR	ED P	ROD	UCTS	5; TO	BACC	00	Contir	nued					
DAIRY PRODUCTS—Continued																
Condensed and evaporated milk: Production, case goods @mil. lb. Stocks, manufacturers', case goods, end of month or yearmil. lb.	. 796.1 . 76.7	724.7	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	60.1 101.1	57.0 84.8	60.3 58.6	68.2 46.0	
Exports do Fluid milk:	. 42.3	43.4	5.0	2.8	3.4	2.9	2.1	2.8	3.2	2.7	2.4	3.0	2.9	3.1	3.7	
Production on farms ‡do Utilization in mfd. dairy products @do Price, wholesale, U.S. average	. 123,411 . 66,038 . 12.00	'128,525 71,687 '13.10	5,997	'10,786 6,212 14.10	'10,129 5,903 14.00	'11,511 6,718 13.80	'11,509 6,863 13.60	'12,055 7,052 13.50	'11,576 6,830 13.40	'11,344 6,456 13.40	'11,104 6,179 13.40	*10,638 5,837 13.80	r10,751 5,902 14.00	r10,384 5,530 14.00	10,847 6,155 14.00	11,04' P14.00
Dry milk: Production: Dry whole milk @mil. lb. Nonfat dry milk (human food)@mid	. 85.3 908.7	82.7 1,160.7	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	8.4 94.5	9.2 90.4	8.6 88.2	8.8 109.6	
Stocks, manufacturers', end of period: Dry whole milk do Nonfat dry milk (human food) do	. 4.3 92.6	5.3 85.0	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	3.0 87.5	2.8 84.4	4.3 75.8	6.0 86.7	
Exports, whole and nonfat (human food) do Price, manufacturers' average selling, nonfat dry milk (human food) \$ per lb.	. 73.3 . 0.800	176.2 0.887	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	17.0 0.939	8.2 0.944	7.9 0.942	2.0 0.940	
GRAIN AND GRAIN PRODUCTS Exports (barley, corn, oats, rye, wheat) mil. bu.	3,640.3	3,914.4	382.9	348.0	341.8	361.9	326.1	289.8	289.9	295.7	301.2	358.8	369.6	312.8	318.6	
Barley:			302.9	540.0	041.0	501.5	520.1	200.0	200.0	250.1	501.2	555.0	505.0	512.0		
Production (crop estimate) 1do Stocks (domestic), end of period, total 1do On farms 1do Off farmsdo	2382.8 365.6 246.4 119.2	² 361.0 ¹ 303.4 ¹ 185.6 117.8	'303.4 '185.6 117.8	·····		'203.4 '113.4 90.0		r4137.3 r474.4 462.8				'451.0 '303.0 148.0			⁷ 478.3 332.5 230.7 101.8	
Exports, including malt §do Prices, wholesale (Minneapolis): No. 2, malting	. 34.5 2.67 2.61	68.9 (*) (*)	9.1	6.4		4.8	3.5	0.1	1.5	6.7	12.4		16.5 	8.7	7.7	
Corn: Production (crop estimate, grain only) ¶ mil. bu. Stocks (domestic), end of period, total ‡ do On farms ‡do Off farms do	² 7,938.8 6,886.2 5,041.7 1,844.5	^{r2} 6,644.8 ^r 5,858.8 ^r 4,141.5 1,717.3				^{73,987.2} 2,641.1 1,346.1		³ 2,774.2 ³ 1,818.3 ³ 955.9				⁵ 1,034.0 ¹⁵ 490.1 ¹⁵ 543.8			⁷ 8,201.0 6,900.0 4,966.0 1,934.1	
Exports, including meal and flour do Price, wholesale: Weighted avg., selected markets, all grades	2,333.5	2,485.3	238.6	208.3	199.8	222.2	185.3	207.6	157.7	147.2	139.2	150.0	194.6	175.0	172.4	
\$ per bu. Dats:					•••••											
Production (crop estimate) ¶ mil. bu. Stocks (domestic), end of period, total ‡ do On farms ‡ do Off farms	2526.6 476.8 400.8 76.0	² 458.3 ¹ 391.0 ¹ 329.3 61.7	^r 391.0 ^r 329.3 61.7	·····	•••••	^r 256.1 r211.7 44.4	·····	r4176.9 r4148.9 428.0			·····	*457.8 *384.0 73.7			⁷ 508.1 364.7 313.6 51.1	
Exports, including oatmealdo Price, wholesale, No. 2, white (Minneapolis)	. 4.8	9.1	0.9	0.7	1.5	0.8	2.5	1.9	0.6	1.4	0.8	0.9	0.6	0.5	0.3	
\$ per bu.	. 1.57	(6)			•••••		•••••			•••••						
Rice: Production (crop estimate)mil. bags #. California mills:	²131.9	²146.2									•••••		•••••		'185.4	
Receipts, domestic, roughmil. lb. Shipments from mills, milled ricedo. Stocks, rough and cleaned (cleaned basis), end of period	2,721 1,800 249	3,582 2,711 231	342 339 231	354 216 283	253 271 224	333 268 226	351 303 203	317 346 120	218 186 107	168 67 174	219 238 114	92 106 98	473 90 326		287 97 510	
Southern States mills (Ark., La., Tenn., Tex.): Receipts, rough, from producersmil. lb Shipments from mills, milled rice	9,247 6,019	10,831 6,795	1,358 761	436 590	830 635	749 852	274 660	142 492	85 499	182 389	$1,503 \\ 511$	3,308 673	1,696 738	848 660	768 654	4
Stocks, domestic, rough and cleaned (cleaned basis), end of periodmil. lb.	2,503	2,969	2,969	2,686	2,604	2,342	1,853	1,456	1,008	772	1,232	2,722	3,091	2,906	2,763	
Exportsdo Price, wholesale, No. 2, medium grain (South- west Louisiana) \$ per lb.	4,978 0.173	6,620 0.225	730 0.265	533 0.270	613 0.270	809 0.275	688 0.275	794 0.280	497 0.280	371 0.280	453 0.265	470 0.250	532 0.225	583 0.213	458 0.195	
Rye: Production (crop estimate) ¶ mil. bu. Stocks (domestic), end of period ‡ do Price, wholesale. No. 2 (Minneapolis)\$ per bu.	222.4 17.7 2.51	² 16.5 9.3 (⁶)	9.3			*6.9		*4.1				*14.5			⁷ 18.6 7.8	
Wheat: Production (crop estimate), total 1 mil. bu.	² 2,134	² 2,374													72,793	
Spring wheat 1	²⁵³³ ^{21,601} 2.051	² 479 ² 1,895 ⁷ 2,191				575			r1340		••••••	r11.049			⁷ 695 72,099 561	
Stocks (domestic), end of period, total ‡ do On farms ‡do Off farms do	1,716.2 773.9 942.2	1,903.2 753.4 1,149.7				1,328.6 538.9 789.8		⁷⁴ 988.8 ^{r4} 414.3 ⁴ 574.5				^{1,049} ^{2,733.9} ^{1,204.9} ^{1,529.0}			2,173.9 954.8 1,219.2	1
Exports, total, including flour do Wheat only do	1,265.1 1,222.5	1,344.5 1,309.5	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	140.4 138.1	148.7 145.4	195.8 194.1	157.6 156.9		137.8 137.4	
Prices, wholesale: No. 1, dark northern spring (Minneapolis) \$ per bu.	4.08	(6)														
• per bu. No. 2 hd. and dk. hd. winter (Kans. City) do Weighted avg., selected markets, all grades \$ per bu.	4.03	(⁶) (⁶)														

SURVEY OF CURRENT BUSINESS

						RENI										5-2
Unless otherwise stated in footnotes below, data	1979	1980	1980						198	31		r				1982
hrough 1978 and descriptive notes are as shown n the 1979 edition of BUSINESS STATISTICS	Ann	iual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
FO	OD A	ND KI	NDR	ED P	ROD	UCTS	: TO	BACC	COC	ontir	nued	L			L	J
GRAIN AND GRAIN PRODUCTS-Continued					_											<u> </u>
Wheat flour:																
Production: Flour ‡thous. sacks (100 lb.) Millfeed ‡ thous. sh. tons	284,051 4,945	282,655 4,866	25,232 415	25,860 421	22,787 399	24,959 435	23,967 424	23,421 420	23,521 416	23,342 410	23,665 431	24,189 436	$24,712 \\ 440$	'22,835 '410	$22,550 \\ 402$	
Grindings of wheat ‡	636,375	628,599	56,920	57,513	51,084	55,310	53,402	52,184	52,643	51,194	53,323	54,589	55,552	150,982	49,968	
thous. sacks (100 lb.) Exports	3,975 18,291	3,842 15,014	3,842 609		1,896	$3,897 \\ 2,241$	2,932	1,724	3,895 2,350		1,420	4,222 724			3,460 184	
Prices, wholesale: Spring, standard patent (Minneapolis)																
\$ per 100 lb Winter, hard, 95% patent (Kans. City) do POULTRY AND EGGS	9.508 9.268	¹ 10.566 ¹ 10.116		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	10.588 10.200	10.525 10.025	10.675 10.313	10.338	
oultry: Slaughter (commercial production)mil. lb.,	13,820	14,048	1,150	1,171	1,027	1,203	1,236	1,258	1,320	1,336	1,306	1,356	1,377	1,191	1,227	
Stocks, cold storage (frozen), end of period, total mil. lb	387	339	339	1,171 r363	354	373	394	420	506	596	657	716	704	469	392	1
Turkeys	240	198	198	208	208	221	229	256	327	401	466	532	528	305	238	ļ
ggs:	0.260	0.270	0.295	0.285	0.290	0.285	0.255	0.260	0.265	0.290	0.280	0.255	0.245	0.230	0.230	
ggs: Production on farms mil. cases § Stocks, cold storage, end of period:	192.3	193.6	16.8	*16.7	15.0	16.6	15.9	16.2	15.5	'16.1	'16.2	^{15.7 r}	¹ 16.4	16.2	16.9	
Shell thous. cases § Frozen mil. lb Price, wholesale, large (delivered; Chicago)	38 23	31 24	31 24	"28 "24	19 24	32 22	32 22	25 23	41 24	41 27	$21 \\ 27$	20 25	21 26	"38 "24	35 22	
\$ per doz	0.662	0.628	0.773	0.714	0.672	0.629	0.697	0.622	0.629	0.675	0.687	0.707	0.713	0.773	0.721	
LIVESTOCK attle and calves:																1
Slaughter (federally inspected): Calves thous. animals Cattle do	2,499 31,504	2,294 31,642	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	227 2,840	236 2,935	217 2,668	254 2,829	
Prices, wholesale: Beef steers (Omaha)\$ per 100 lb	67.75	66.96	64.29	63.08	61.50	61.40	64.92	66.86	68.26	67.86	66.37	65.37	61.45	59.84	59.24	6
Steers, stocker and feeder (Kansas City) do Calves, vealers (So. St. Paul) do	77.60 91.41	75.13 75.52	70.04 77.17	68.56 77.38	68.41 78.00	65.47 80.88	66.28 83.90	63.10 84.25	63.51 82.38	61.51 76.00	64.15 77.25	64.58 77.50	62.52 71.75	61.77 68.88	58.96 67.50	5
ogs: Slaughter (federally inspected) thous. animals Prices:	85,425	91,882	7,788	7,768	6,873	7,988	7,993	7,004	6,682	6,539	6,580	7,320	7,872	7,308	7,923	
Wholesale, average, all weights (Sioux City) \$ per 100 lb	42.13	39.48	45.07	41.67	42.78	39.88	40.15	41.96	48.78	51.01	51.14	48.89	46.15	42.10	40.17	4
Hog-corn price ratio (bu. of corn equal in value to 100 lb. live hog)	18.3	14.4	13.8	12.8	12.8	11.9	12.0	12.6	15.0	15.7	17.1	19.1	18.4	17.7	16.3	
heep and lambs: Slaughter (federally inspected) thous. animals	4.833	5,363	468	488	426	488	512	425	440	439	467	546	558	476	522	
Price, wholesale, lambs, average (Omaha) \$ per 100 lb	66.58	59.81	53.13	46.50	54.50	55.25	59.25	65.00	66.25	59.00	53.75	50.25	51.00	46.00	46.50	4
MEATS																
otal meats (excluding lard): Production, totalmil. lb., Stocks, cold storage, end of period	37,225 706	38,590 750	3,349 750	3,416 790	3,011 783	3,383 776	3,296 817	3,069 795	3,113 717	3,038 628	3,041 539	3,243 509	3,428 547	3,184 552	3,416 580	
Exports (meat and meat preparations)	1,378 2,178	1,663	154 191	143 171	141 167	169 131	148 155	189 140	180 153	128 162	144 168	123 180	174	154 120	154 118	
eef and veal: Production, total do	21,671	21,849	1,892	1,971	1,751	1,931	1,843	1,791	1,888	1,852	1,858	1,926	2,006	1,837	1,941	
Stocks, cold storage, end of period do Exports	361 366		338 33	371	356 38 128	351 54 87	349 40 110	338 34 95	306 46 108	280 30 116	252 39 119	$ \begin{array}{r} 242 \\ 40 \\ 141 \end{array} $	252 48 123	'241 39 80	268 43 80	
Imports do Price, wholesale, beef, fresh, steer carcasses,	1,712		143	128												1
choice (600-700 lbs.) (Central U.S.) \$ per lb amb and mutton:	1.011	1.044	1.006	0. 99 8	0.961	0.943	0.997	1.033	1.065	1.072	1.039	1.030	0.960	0.946	0.937	0.
Production, totalmil. lb Stocks, cold storage, end of period do	284 11	310 9	28 9	30 9	26 8	29 8	29 10	24 10	24 12	24 13	25 14	30 13	31 13	27 11	30 11	
Pork (excluding lard): Production, totalmil. lb	15,270	16,431	1,428	1,416	1,234	1,423	1,424	1,254	1,201	1,162	1,158	1,288	1,391	1,320	1,445	Í
Stocks, cold storage, end of period do Exports do Imports do	281 330 361	349 314 433	349 28 39	351 27 37	356 32 33	361 37 37	404 31 36	394 39 37	347 34 39	283 19 39	225 19 42	207 20 29	238 28 36	*255 30 35	264 29 33	
Prices, wholesale: Hams, smoked # Index, 1967=100	252.6	³ 254.8	288.8	249.4	246.9	245.9	252.4	242.4	254.4	278.9	¹ 282.6	284.5	284.5	283.3	292.3	
Fresh loins, 8-14 lb. average (N.Y.) \$ per lb MISCELLANEOUS FOOD PRODUCTS	1.076		1.094	1.156	1.146	1.105	1.035	1.124	1.191	1.261	1.212	1.185	1.148	1.074	1.007	
coa (cacao) beans: Imports (incl. shells)thous. lg. tons Price, wholesale, Accra (New York) \$ per lb	165.2 21.604	148.5 1.354	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	20.3 1.170	24.1 1.130	5.8 1.030	11.5 1.090	
offee (green):																
Inventories (roasters', importers', dealers'), end of periodthous. bags [] Roastings (green weight)do	2,521 17,005	2,834 17,047	2,834 4,868			2,849 4,742			2,590 3,962			(4) (1)				
Imports, total do	19,396	18,153	1,715	1,858	1,738	1,395	1,299	1,356	1,026	922	1,213	1,150	1,487	1,565	1,547	
From Brazil	1,890 1.763 4,281	3,505	341 2.080	473 2.180 400	259 2.180 437	364 2.180 440	138 2.180 378	283 1.290 305	166 1.155 325	213 1.155 304	172 1.270 430	256 1.270 582	316 1.295 *588	309 1.470 457	294 1.500	
ish: Stocks, cold storage, end of periodmil. lb	471	393	393	388	344	330	295	294	331	356	373	380	363	r355	350	.

See footnotes at end of tables.

SURVEY OF CURRENT BUSINESS

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Unless otherwise stated in footnotes below, data	1979	1980	1980						198	81						198
hrough 1978 and descriptive notes are as shown n the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jar
1	FOOD	AND	KINI	ORED	PRC	DUC	TS; T	OBA	CCO-	-Con	ı t.					
MISCELLANEOUS FOOD PRODUCTS-Cont.																
Sugar (United States): Deliveries and supply (raw basis): §																
Production and receipts: Production thous. sh. tons	4,733	³4,713	1,127	758	487	232	153	201	138	82	86	128	603	1,132		
Deliveries, total do	10,788	10,838	[•] 946	754	743	1,004	878	943	1,031	997	985	1,099	861	842		
For domestic consumption do Stocks, raw and ref., end of period do	$10,714 \\ 3,503$	10,149 2,970	815 2,970	697 3,330	675 3,472	836 3,195	785 2,807	815 2,755	914 2,285	877 1,928	853 1,602	986 1,416	783 1,579	766 '2,416	₽3,264	
Exports, raw and refinedsh. tons	14,924	608,029	123,950	26,370	55,765	134,737	80,412	83,266	115,336	88,501	122,452	91,131	68,370	65,210	47,605	
Imports, raw and refined thous. sh. tons	4,810	4,127	272	387	289	313	255	398	312	347	313	424	653	462	902	
Prices, wholesale (New York): Raw\$ per lb Refined (excl. excise tax)	10.164 0.228	0.306 0.405	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	$0.154 \\ 0.236$	0.160 0.261	0.163 0.261	0.167 0.261	
ea, imports	0.228 174,690	184,786	15,936	12,891	18,354	14,696	19,220	18,990	17,736	14,586	19,128	13,205	15,855	13,473	12,121	
FATS, OILS, AND RELATED PRODUCTS	,	, .	ŕ		,	,	,		ŕ				, í		,	
Baking or frying fats (incl. shortening): Productionmil. lb Stocks, end of period @do	4,206.4 131.9	4,177.8 130.7	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	329.0 132.7	385.7 123.6	402.3 116.3	'404.8 '113.3	371.7 120.3	
alad or cooking oils:	5,075.6	5 167 9	411.9	404.1	400.5	474 5	438.2	459.3	473.9	480.6	478.6	456.0	440.5	* 432.7	491 7	
Production	5,075.6	5,167.2 122.5	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	478.6	456.2 99.7	440.5 113.9	*117.4	421.7 110.1	
Aargarine: Production do	2,553.2	2,592.8	264.6	235.5	214.4	231.6	196.3	182.1	214.3	184.7	192.5	223.3	220.9	'232.6	254.8	
Stocks, end of period @ do	80.5	74.2	74.2	62.2	68.3	76.8	66.1	74.2	87.0	79.8	87.7	75.4	62.5	۴ 6 4.2	60.9	
Price, wholesale (colored; mfr. to wholesaler or large retailer; delivered)\$ per lb	0.549	0.603	0.624	0.637	0.637	0.637	0.637	0.637	0.637	0.637	0.637	0.637	0.637	0.637	0.637	
nimal and fish fats: Tallow, edible:																
Production (quantities rendered)mil. lb Consumption in end products	904.8 765.7	1,042.7 714.9	96.0 62.9	97.1 62.4	87.4 64.0	100.4 69.9	91.2 66.9	90.5 63.1	93.7 64.5	89.8 67.5	92.2 58.7	96.5 64.5	103.6 66.6	'92.3 61.1	95.1 57.4	
Stocks, end of period ¶ do	56.6	55.9	55.9	68.1	53.8	51.1	47.5	39.8	40.6	37.8	36.5	36.2	40.2	*48.3	54.0	
Tallow and grease (except wool), inedible: Production (quantities rendered) do	5,836.3	6,284.0	541.8	533.3	480.6	517.5	514.3	479.3	498.7	502.1	474.6	518.0	541.9	*513.9	551.7	
Consumption in end products do Stocks, end of period 1 do	3,083.4 390.4	2,922.2 413.0	233.5 413.0	254.5 436.0	241.0 436.9	253.1 443.6	256.3 449.2	261.9 437.5	249.1 431.9	255.7 419.0	239.7 426.6	244.4 422.1	251.0 408.7	*234.4 *435.4	222.9 462.6	· · · · · · · · ·
egetable oils and related products:																
Coconut oil: Production, refinedmil. lb	595.6 748.4	644.7 693.5	62.5 58.3	65.5 67.7	66.0 65.0	61.8	53.5 68.3	63.7 64.0	58.1 70.4	57.0 58.0	58.4 70.4	56.5 66.7	59.9 73.2	*52.4 *59.8	47.5	
Consumption in end products do Stocks, refined, end of period 1	40.1	49.6	49.6	47.4	50.6	71.1 44.7	33.9	39.4	38.0	40.1	45.9	42.2	35.9	*35.3	52.3 40.7	
Imports do	979.8	889.3	116.0	110.1	139.2	79.1	39.8	90.5	81.2	107.8	55.9	84.7	86.3	76.3	86.2	
Corn oil: Production: Crude do	743.5	810.6	59.0	65.8	63.6	76.2	69.6	74.3	76.1	76.2	76.4	77.8	81.4	69.2	66.5	
Production: Refined do Consumption in end products do	589.4 555.0	638.2 595.3	59.7 61.5	61.9 56.9	65.6 52.1	61.2 56.6	59.7 43.3	64.4 50.3	63.2 52.5	57.7 48.0	59.5 45.6	64.7 52.8	65.4 50.5	69.6 *56.3	66.8 58.4	
Stocks, crude and ref., end of period ¶ do	65.2	76.3	76.3	72.4	80.3	77.0	82.0	71.4	72.6	68.5	77.8	75.8	89.1	r69.1	63.7	
Cottonseed oil: Production: Crude do	1,260.5	1,447.1	122.3	131.7	118.9	115.4	100.8	88.7	77.4	69.6	62.1	60.9	111.2	'153.5	161.9	
Production: Refined	1,140.8 618.2	1,370.2 698.3	125.1 49.5	131.3 38.0	99.6 44.5	102.1 47.1	113.0 44.2	82.9 50.6	79.1 48.0	73.7 39.0	56.9 43.4	53.1 46.5	78.6 44.8	'120.6 '58.6	133.5	
Consumption in end products do Stocks, crude and ref., end of period ¶ do	144.3	170.1	49.5 170.1	183.6	200.1	202.4	165.9	160.2	121.7	113.1	109.5	40.5 80.0	102.5	127.2	55.1 132.6	
Exports (crude and refined) do Price, wholesale (N.Y.)	633.0 0.369	785.4 0.261	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	46.5 0.300	42.2 0.290	37.4 0.293	80.5 0.290	
Soybean oil:		12.097.2														
Production: Crude mil. lb Production: Refined do	11,504.1 9,110.1	8,982.2	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	815.8 765.4	827.2 813.3	855.6 812.1	1,125.3 833.6	1,017.8 840.9	1,069.6 805.2	
Consumption in end products	8,656.4 1,030.1	8,585.2 1,737.8	738.8 1,737.8	698.7 1,900.1	680.8 1,976.3	775.1 2,016.7	722.3 2,118.5	728.7 2,166.3	774.1 2,138.6	763.1 2,024.4	755.2 1,783.1	796.4 1,736.1	796.8 1,790.2	"783.5 "1,884.4	752.8 2,017.5	
Exports (crude and refined) do Price, wholesale (refined; N.Y.)	2,370.6	2,314.6	120.5	116.0	113.8	202.8	76.1	109.6	108.8	93.1	291.7	97.9	174.3	135.1	179.0	
TOBACCO	0.327	0.289	0.286	0.282	0.265	0.281	0.285	0.265	0.268	0.292	0.266	0.249	0.260	0.253	0.241	
æaf:	21 505	191 1900													10.040	
Production (crop estimate)mil. lb Stocks, dealers' and manufacturers',	21,527	r ² 1,786	4 950					•••••				4 607	•••••		⁴ 2,048	
end of period ‡mil. lb Exports, incl. scrap and stemsthous. lb	4,974 561,756	4,850 591,518	4,850 66,563	44,809	32,831	4,624 53,728	49,414	44,571	4,285 40,142 22,247	31,277	27,398	4,697 45,510	63,222	86,775	55,577	
Imports, incl. scrap and stems do Manufactured:	377,203	365,622	22,342	33,973	44,274	31,753	24,274	28,796	22,347	22,171	32,153	32,372	27,889	22,946	12,970	
Consumption (withdrawals): Cigarettes (small):						i										
Tax-exempt do	93,150 613,830	94,256 620,565	8,204 43,762	9,868 53,048	9,248 51,474	7,592 54,224	6,891 53,670	$6,341 \\ 50,678$	8,031 56,519	6,766 51,064	7,555 58,716	7,636 58,150	8,141 56,635	7,447 49,658		
Cigars (large), taxable	3,356	r3,291 81,998	43,762 238 6,781	258 6.958	211 8,289	291 8,534	257 6,046	274 6,621	336 6,214	242 6,231	261 6,468	313 7,149	300 300 7,300	49,058 267 8,058	4,713	

SURVEY OF CURRENT BUSINESS

February 1982		SU	JRVE	Y OF	CUR	RENI	BUS	DINES	00							S-2
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980	1980						19	81						1982
n the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
			LEA'	THEF	R AN	D PR	ODU	CTS								
HIDES AND SKINS																
Xports: Value, total #thous.\$ Calf and kid skinsthous. skins. Cattle hidesthous. hides.	991,707 2,321 23,731	693,678 2,495 19,568	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	60,702 184 1,775	51,763 216 1,496	50,062 194 1,521	53,804 277 1,561	59,316 330 1,723	66,835 289 1,936	
nports: Value, total #thous. \$ Sheep and lamb skinsthous. pieces. Goat and kid skins do	138,800 15,529 2,444	88,200 9,027 519	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	7,900 946 61	7,200 1,092 104	8,200 1,254 21	839 32	
rice, 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	1.100 420.6	375.1	344.1	356.1	405.8	385.8	364.9	351.7	*373.6	344.3	347.7		343.4	
xports: Upper and lining leatherthous. sq. ft	187,665	192,597	13,641	19,633	14,418	19,717	17,678	18,016	18,692	13,921	10, 9 18	15,393	12,682	19,464	11,660	
rice, producer: Sole, bends, light index, 1967=100 LEATHER MANUFACTURES	329.6	283.8	283.2	317.1	302.7	308.5	317.1	318.5	298.4			284.7				
potwear: Production, totalthous, pairs	398,872	396,851	29,514	31,441	30,660	34,345	33,025	31,926	30,361	26,968	30,703	32,887	r35,040	30,320		
Shoes, sandals, and play shoes, except athletic thous. pairs Slippers	305,564 72,779	299,131 73,337	23,139 4,327	22,937 6,179	22,866 5,598	25,673 6,282	24,795 5,676	24,124 5,551	22,251 5,798	20,618 4,645	22,351 6,200	24,545 6,362	'25,196 '7,631	22,548 6,035		[
Athleticdo Other footweardo	20,529 3,651	24,383 3,271	2,048 278	2,325 270	2,196 275	2,390 259	2,554 219	2,251 217	2,312 224	1,705 246	2,152 257	1,980 397	^r 2,213 303	1,737 265		
Exports do Prices, producer: *	7,581	9,781	877	710	804	1,180	913	729	976	551	785	640	663	1,121	615	[
Men's leather upper, dress and casual index, 12/80=100.			100.0	100.6	102.0	102.6	103.0	102.7	103.5	103.6	103.8	103.8	103.5	103.7	103.6	
Women's leather upper index, 1967=100 Women's plastic upper index, 12/80=100		211.7	215.7 100.0	216.3 100.5	217.9 101.8	214.0 102.8	214.1 102.8	214.5 103.0	213.4 102.9	214.0 102.9	r213.6 r101.0	216.4 98.4	217.1 96.3	216.2 93.5	216.2 93.5	
			LUN	IBER	ANI) PR	ODU	CTS								
LUMBERALL TYPES #																
ational Forest Products Association: Production, totalmil. bd. ft Hardwoodsdo	¹ 37,061 7,317 29,744	¹ 31,885 17,220 24,665	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	2,554 572 1,982	$2,307 \\ 542 \\ 1,765$	2,379 527 1,852	1,831 441 1,390		
Shipments, totaldo Hardwoodsdo Softwoodsdo	¹ 36,514 6,942 29,572	¹ 31,422 ¹ 6,584 24,838	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	2,431 546 1,885	$2,260 \\ 518 \\ 1,742$	2,382 514 1,868	$2,045 \\ 441 \\ 1,604$		
Stocks (gross), mill, end of period, total do Hardwoods	5,342 1,171 4,171	5,805 1,807 3,998	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	6,232 1,918 4,314	6,284 1,947 4,337	6,285 1,964 4,321	6,075 1,968 4,107		
xports, total sawmill products do nports, total sawmill products do SOFTWOODS	1,447 11,513	1,655 9,859	127 799	756	848	966	980	991	934		465	659	754	728	590	
ouglas fir: Orders, newmil. bd. ft Orders, unfilled, end of periodmil. bd. ft	8,388 529	6,791 499	453 499	601 549	486 514	698 594	598 601	538 540	566 505	486 510	466 458	483 455	536 458	476 477	459 429	
Production do Shipments	8,427 8,412 918	6,815 6,821 912	495 519 912	576 551 937	562 521 978	622 618 982	601 591 992	576 599 969	533 601 901	521 481 941	546 518 969	526 486 1,009	533 533 1,009	403 457 955	396 507 844	
Exports, total sawmill products	519 156 363	540 117 422	37 8 29	51 9 42	49 9 39	43 9 35	51 13 38	47 8 39	43 13 30	31 6 25	51 14 37	43 14 29	1,000 29 9 20	38 6 31	47 19 28	
Price, wholesaie: Dimension, construction, dried, 2" x 4", R.L. \$ per M bd. ft	277.24	223.42	217.12													
outhern pine: Orders, newmil. bd. ft Orders, unfilled, end of perioddo	^{17,950} 523	6,559 419	439 419	617 456	463 447	587 493	602 486	508 474	535 440	546 441	448 407	463 402	498 399	461 430		
Production do Shipments	17,938 17,932	6,758 6,663	515 493	569 580	492 472	$552 \\ 541$	604 609	546 520	559 569	557 545	$512 \\ 482$	485 468	488 501	364 430		
Stocks (gross), mill and concentration yards, end of periodmil. bd. ft	1,175	1,270	1,270	1,259	1,279	1,290	1,285	1,311	1,301	1,313	1,343	1,360	1,347	1,281		
Exports, total sawmill productsthous. bd. ft Prices, wholesale (indexes):	209,793	280,243	20,878	14,763	11,781	26,059	19,198	19,919	21,226	20,898	21,048	1 6 ,719	19,043	21,334	15,032	
Boards, No. 2 and better, 1" x 6", R.L. 1967=100	366.2	337.2	320.0				,									
Flooring, C and better, F. G., 1" x 4", S.L. 1967=100	301.4	324.7	330.2													

See footnotes at end of tables.

SI	URVEY	OF CURREN'	Γ BUSINESS	5

Unless otherwise stated in footnotes below, data	1979	1980	1980						198	81						198
hrough 1978 and descriptive notes are as shown n the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan
		LUM	BER	AND	PRO	DUC	rs(Conti	nued	I	I					
SOFTWOODS-Continued	_										-					
Vestern pine: Orders, newmil. bd. ft	9,630	7,730	516	688	605	747	637	573	761	627	569	538	573	489	428	
Orders, unfilled, end of period do	403	326	326	418	414	442	426	355	369	377	314	291	264	243	219	
Production	9,780 9,696	7,613 7,807	635 605	659 596	631 609	736 719	681 653	684 644	679 747	616 619	656 632	511 561	582 600	436 510	390 452	
Stocks (gross), mill, end of period do	1,379	1,185	1,185	1,248	1,270	1,287	1,315	1,355	1,287	1,284	1,308	1,258	1,240	1,166	1,104	
Price, wholesale, Ponderosa, boards, No. 3, 1" x 12", R.L. (6' and over)\$ per M bd. ft	317.26	287.55	340.83													
HARDWOOD FLOORING																
ak: Orders, newmil. bd. ft Orders, unfilled, end of period do	93.4 7.0	⁽³⁾ 1.9		1.5		2.5	3.7		3.0	3.6		3.1			2.8	
Production do	99.8	(3)														
Shipments	96.6 5.4	78.0 12.4	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	6.6 8.8	7.0 7.9	5.7 7.7	5.2 10.1	
		Μ	ETAI	LS AN	ID M	ANU	FACT	URE	S							
IRON AND STEEL																
xports: Steel mill products thous. sh. tons	2,818 11,054	4,101	324 763	256 578	213 683	$\frac{260}{442}$	291 694	259 677	279 628	218 348	194 450	228 395	233 532	244 480	227 509	
Scrap	11,054	11,168 73	(²)	578 2	1	442	2	1	2	348 1	450	395	2	400	1	
nports: Steel mill products do	17,518	15,495	1,536	1,281	1,234	1,142	1,761	1,772	1,665	1,663	2,226	1,748	1,872	1,921	1,613	
Scrap do Pig iron do	760 476	558 400	58 72	38 18	41 10	53 5	52 36	62 61	52 59	37 36	59 38	56 30	33 34	43 42	45 64	
Iron and Steel Scrap		140.005	0.000			1.0.40	4.050		0.070	0.000	0.001		-0.050	0.010		
roduction thous. sh. tons eceipts, net	¹ 52,219 147,048 98,901	¹ 42,207 ¹ 40,954 ¹ 83,710	3,820 3,961 7,386	3,774 3,769 7,486	3,750 3,604 7,435	4,240 4,261 8,379	4,078 4,018 8,137	4,001 4,162 8,184	3,876 3,817 7,657	3,689 3,454 7,168	$3,631 \\ 3,564 \\ 7,116$	3,591 3,542 7,116	r3,353 r3,496 r6,833	3,010 3,081 6,065		
onsumption do ocks, end of period do	8,724	8,018	8,037	7,939	7,856	8,004	8,015	8,175	8,287	8,245	8,383	8,408	\$,418	8,433		
rices, steel scrap, No. 1 heavy melting: Composite\$ per lg. ton	98.07	92.17	101.86	96.34	94.28	98.74	101.44	96.13	88.63	87.07	91.37	89.74	84.24	78.01	76.01	
Pittsburgh district do Ore	101.50	96.17	106.00	103.50	101.00	109.00	112.00	105.50	99.00	99.00	107.50	102.50	95.50	86.00	85.50	
on ore (operations in all U.S. districts):	105 710	160 612	F 010	F 0C 4	C 059	C 7E1	c 000	7 065	7 595	7,112	6 960	6 200	5 791	3,910		
Mine productionthous. lg. tons Shipments from mines	185,716 186,218 33,776	¹ 69,613 ¹ 69,594 25,058	5,913 6,009 1,809	5,964 2,800 1,292	6,052 1,545 1,075	$6,751 \\ 2,035 \\ 1,165$	6,280 3,938 1,794	7,265 8,906 2,901	7,525 9,625 3,879	9,703 3,059	6,860 9,300 4,113	6,382 8,133 2,595	$5,731 \\ 7,112 \\ 2,555$	5,048 2,029	1,585	·····
U.S. and foreign ores and ore agglomerates:	, í						,									
Receipts at iron and steel plants	115,892 115,014	87,188 89,397	7,625 8,326	4,162 8,667	2,686 8,126	3,794 9,293	6,233 8,793	11,520 8,841	11,924 8,162	$12,350 \\ 8,022 \\ 520$	12,159 8,024	9,927 7,708	9.070 6,913	7,241 6,370	5,579 6,038	
Exports do Stocks, total, end of period do	4,455 55,753	5,073 56,066	563 56.066	33 54,536	2 53,154	63 50,786	625 49,781	2,967 51,411	634 53,744	530 56,356	607 58,755	391 59,574	315 60,387	8,358 60,144	685	
At mines do At furnace yards do	"11,266 38,969	'10,636 35,706	14,265 35,706	17,477 31,088	21,990 25,554	26,736 19,972	29,336 17,286	27,700 19,885	$25,601 \\ 23,480$	23,019 27,904	$20,586 \\ 31,931$	18,837 34,062	17,515 36,137	16,429 36,939	36,203	
At U.S. docks do Ianganese (mn. content), general imports do	5,416 850	6,095 795	6,095 69	5,971 22	5,610 76	4,078 55	3,159 70	3,826 111	4,663 78	5,433 68	6,238 55	6,675 72	6,735 51	6,776 67	6,571 49	
Pig Iron and Iron Products	000		00				10							0.		
ig iron: Production (including production of ferroalloys)																
thous. sh. tons Consumption	86,975 87,458	¹ 68,721 169,053	6,489 6,507	6,603 6,647	6,108 6,209	7,193 7,316	6,755 6,927	6,938 7,108	6,408 6,589	6,268 6,508	6,259 '6,521	5,889 6,029	5,419 5,527	4,782 4,840	4,750	
Stocks, end of period do Price, basic furnace	881 203.00	*889 203.00	925 203.00	891 203.00	894 203.00	881 203.00	846 203.00	831 203.00	779 203.00	817 203.00	786 203.00	817 213.00	812 213.00	840 213.00		
astings, gray and ductile iron:	200.00	200.00	200.00	200,00	200.00	100.00	200.00	200.00	200.00	200.00	200.00	210,000	210100			
Orders, unfilled, for sale, end of period thous. sh. tons	974 15,402	964 11,799	964 890	942 1,034	952 1,011	968 1,140	882 1,170	845 1,114	846 1,079	848 984	843 951	833 956	781 986	722 823		
Shipments, total do For sale	7,949	6,457	502	1,034	548	634	657	630	619	577	570	548	555	454	•••••	
astings, malleable iron: Orders, unfilled, for sale, end of period										10						
Shipments, total	54 715	22 450	22 36	46	45 40	43 43	42	40 38	44 40	40 31	46 33	36 33	31 35	34 26		
For sale do Steel, Raw and Semifinished	376	206	16	17	18	20	20	19	18	14	17	15	18	12		
teel (raw):	1190.041	1111.00*	10 100	10 700	10.000	11 744	11.040	11 400	10 451	10.100	10 100	0.610	0.000	7 000	7 070	
Production thous. sh. tons Rate of capability utilization percent	¹ 136,341 87.2	1111,835 72.8	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	9,618 75.9	9,003 68.7	7,962 62.8	7,672 58.6	
teel castings: Orders, unfilled, for sale, end of period																
Shipments, total	1,039 2,039	605 1,878	605 148	668 158	586 163	558 173	540 154	525 150	501 151	489 127	489 137	469 146				
For sale, total do	1,848	1,701	135	144	147	155	137	132	132	114	121	131	129	I		

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February 1982		ы 				RENI	. Б ОЗ									
Jnless otherwise stated in footnotes below, data hrough 1978 and descriptive notes are as shown	1979	1980	1980						19	31						1982
n the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan
	M	ETAL	S AN	D MA	NUF	ACT	URES	S-Co	ntinu	ed						
Steel Mill Products																
iteel products, net shipments: Total (all grades) thous. sh. tons	100,262	83,853	7,591	7,616	7,375	8,422	8,108	7,932	8,148	7,115	7,020	7,039	6,723	5,783	5,666	
By product: Semifinished products do	5,496	5,342	543	441	477	606	531	535	529	400	434	437	437	385	389	
Structural shapes (heavy), steel piling do Plates	¹ 5,596 9,035	5,207 8,080	426 661	457 667	426 720	548 731	472 678	414 667	408 627	392 584	395 586 89	432 630	362 543	313 498	299 482	
Rails and accessories do Bars and tool steel, total do	2,026 17,601	1,797 13,258	140 1,037	145 1,079	158 1,146	170 1,334	161 1,292	140 1,258	116 1,263	114 1,115	89 1,106	88 1,163	99 1,140	98 953	81 898	
Bars: Hot rolled (incl. light shapes) do Bars: Reinforcing do	9,958 5,303	6,911 4,683	564 348	610 320	659 342	764 407	740 395	722 385	706 399	593 388	528 342	659 364	638 364	543 296	471 323	·····
Bars: Cold finished do Pipe and tubing do	2,245 8,242	1,585 9,097	119 782	144 793	140 776	156 945	150 949	145 925	152 890	128 859	131 881	134 849	133 892	109 813	99 759	
Wire and wire products do Tin mill products do	2,449 6,310	1,768 5,709	148 464	150 474	153 473	185 431	161 431	150 388	155 419	137 413	130 399	135 396	133 351	107 327	102 412	
Sheets and strip (incl. electrical), total do Sheets: Hot rolled	43,507 15,995	$33,595 \\ 12,116$	3,390 1,281	3,410 1,209	3,046 1,077	$3,470 \\ 1,267$	3,434 1,252	3,456 1,233	3,739 1,346	3,102 1,146	3,001 1,124	2,910 1,063	2,765 976	2,288 863	2,246 901	
Sheets: Cold rolled do By market (quarterly):	17,284	13,313	1,325	1,368	1,202	1,344	1,354	1,402	1,487	1,209	1,154	1,125	1,085	857	811	
Service centers and distributors do Construction, incl. maintenance do	$18,263 \\ 10,058$	16,174 8,787	4,693 2,237			4,696 2,356			4,997 2,442			4,151 2,190			3,704 1,812	
Contractors' products do Automotive	4,021 18,624	8,787 3,362 12,156	945 3,473			958 3,591			892 3,811			796 3,218			610 2,472	
Rail transportation	4,127 6,027	3,178 4,566 5,549	702 1,003			753 1,261	·····		548 1,292			455 1,148	·····		422 947	
Containers, packaging, ship. materials do Other do	6,770 '32,372	5,549 30,082	1,325 7,709			1,470 8,326			1,399 8,806			1,278 7,938			1,127 7,075	
eel mill shapes and forms, inventories, end of period-total for the specified sectors:																
mil. sh. tons Producing mills, inventory, end of period:	36.3	³ 28.4	28.4	328.6	29.0	29.3	28.2	29.8	29.5	30.0	30.5	30.5	r30.4	30.4	•••••	
Steel in process mil. sh. tons Finished steel do Service centers (warehouses), inventory, end of	11.5 7.6	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	11.1 7.4	11.2 7.5	11.3° 7.4	11.3 7.4		
period	7.1	³5.3	5.3	³5.4	5.4	5.4	5.3	5.3	5.3	5.4	5.3	5.3	5.3	5.5		
Inventory, end of period do Receipts during period do	10.1 88.1	6.6 69.9	6.6 5.9	6.7 6.2	7.0 6.4	7.0 6.7	6.7 6.3	6.6 6.4	6.7 6.8	6.8 6.1	6.7 6.1	6.5 '6.0	r6.4 r5.8	6.2 4.9		
Consumption during period do NONFERROUS METALS AND PRODUCTS	88.5	73.4	5.7	6.1	6.1	6.7	6.6	6.5	6.7	6.0	6.2	*6.2	5.9	5.1		
uminum:											i .					
roduction, primary (dom. and foreign ores) thous. sh. tons	5,023	5,130	439	445	404	448	431	441	420	426	416	393	396	364		
Recovery from scrap (aluminum content) do mports (general):	²1,399	1,377	118	124	127	146	139	139	148	149	139	140	150	129		
Metal and alloys, crude do Plates, sheets, bars, etc do	570.6 1201.0	580.5 72.7	78.3 5.2	55.8 5.8	55.7 8.9	75.6 7.5	$50.2 \\ 10.7$	67.8 13.9	55.9 11.6	63.9 12.5	67.0 11.0	60.5 14.0	55.2 15.6	41.5 14.9	49.3 13.7	
Exports: Metal and alloys, crude do	200.6	715.0	46.1	59.4	23.2	32.9	48.6	29.3	23.5	29.3	16.8	9.2	24.1	23.1	24.6	
Plates, sheets, bars, etc do Price, primary ingot, 99.5% minimum \$ per lb	265.7 0.5940	315.3 0.6957	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	16.0 0.7600	15.2 0.7600	17.2 0.7600	21.6 0.7600	16.0 0.7600	16.8 0.7600	
aminum products:								0.1000								
Shipments: Ingot and mill prod. (net ship.) mil lb Mill products, total do	$14,517 \\ 11,230$	$14,057 \\ 10,485$	1,203 868	1,090 883	1,072 859	1,294 963	1,199 952	1,189 929	1,248 957	1,039 859	1,119 866	"1,082 "871	$^{1,057}_{831}$			
Sheet and plate	6,296 2,080	5,862 1,538	492 122	511	486 131	562 154	550 148		564 146	494 119	514 132	514 134	477 128	110		
Inventories, total (ingot, mill products, and																
scrap), end of periodmil. lb pper:	5,125	5,076	5,076	5,221	5,323	5,408	5,495	5,600	5,632	5,964	6,086	^r 6,187	6,605			
Production: Mine, recoverable copper thous. met. tons	1,443.6	^{1,168.3}	r116.1	119.4	114.0	121.4	124.6	127.9	125.2	122.0	135.1	134.2	'139 .4	135.0		
Refinery, primary	1,515.4 1,411.5	¹ 1,210.9 1,121.9	121.1 109.6	126.0 113.5	125.0 110.3	139.6 131.7	140.1 131.0	131.7 123.6	133.1 125.5	120.8 111.5	110.3 103.4	121.8 114.4	128.9 120.5	113.4 107.2		
From foreign ores do Secondary, recovered as refined do	103.9 575.6	189.0 573.0	11.5 36.9	12.5 38.9	14.6 52.8	7.9 45.5	9.2 63.1	8.1 55.7	7.6 61.5	9.2 54.4	6.9 58.4	7.4 50.2	8.3 58.8	6.2		
Imports (general):	010.0	070.0	00.5	00.0	02.0	40.0	00.1	00.1	01.0	01.1	00.4	00.2	00.0	•••••		
Refined, unrefined, scrap (copper cont.) do Refined do	341.3 217.9	520.3 431.8	44.3 36.8	41.7 24.7	39.0 29.4	29.0 21.8	40.2 28.1	$28.6 \\ 21.7$	51.1 34.5	41.6 32.2	48.1 37.8	45.7 37.8	52.7 36.7	42.4 30.2	42.3 24.3	
Exports:																
Refined and scrap do Refined do	308.8 80.5	330.1 17.4	22.9 3.4	36.2 2.9	32.1 2.5	38.7 5.8	20.2 1.2	33.7 0.9	40.0 3.5	18.5 1.3	22.8 1.7	21.8 3.0	35.0 0.7	19.4 2.1	21.3 1.8	
Consumption, refined (by mills, etc.)thous. sh. tons	2,470	2,083	500			526			547			479				
Stocks, refined, end of period do Price, electrolytic (wirebars), dom., delivered	288	365	365			331			380			409				
\$ per lb pper-base mill and foundry products, shipments	0.9333	1.0242	0.8913	0.8857	0.8607	0.8738	0.8803	0.8580	0.8523	0.8441	0.8739	0.8472	0.8231	0.8122	0.8029	
(quarterly total):		o														
Brass mill products	2,976 3,048	2,467 2,783	611 622	·····	•••••	710 748			r716 r738		•••••	670 701				
Brass and bronze foundry products do ad:	617	489	115		•••••	121			125		•••••	116				
Production: Mine, recoverable leadthous. met. tons	525.6	*549.5	41.2	42.3	40.5	43.0	26.4	27.5	17.1	31.7	31.8	47.8	'47.3	39.6		
Recovered from scrap (lead cont.) do Imports (general), ore (lead cont.), metal do	801.4 59.6	*675.6 52.1	54.9 2.6	46.5 3.5	43.9 6.0	43.8 11.1	42.4 3.3	44.1 11.5	46.7 2.4	46.4 10.0	49.1 3.9	52.5 4.3	50.9 7.8	52.2 3.0		
Consumption, total do			92.0	98.9	90.7	95.9	91.2		91.0	81.1	93.1		110.4	94.5		

See footnotes at end of tables.

SURVEY OF CURRENT BUSINESS

Inless otherwise stated in footnotes below, data	1979	1980	1980						198	-						1982
hrough 1978 and descriptive notes are as shown n the 1979 edition of BUSINESS STATISTICS	Anr	ual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan
	M	ETAL	S AN	D MA	NUF	ACT	URES	S-Co	ntinu	ed						L
NONFERROUS METALS AND PRODUCTS—Continued																
ead—Continued Stocks, end of period: Producers', ore, base bullion, and in process (lead content), ABMSthous. met. tons Refiners' (primary), refined and antimonial	105.2		135.3	126.5	132.0	122.7	110.5	108.3	111.1	117.2	116.0	106.9	100.5	88.0	83.3	
(lead content)thous. met. tons Consumers' (lead content) []dodo Scrap (lead-base, purchased), all smelters (gross weight)thous. met. tons Price, common grade, delivered\$ per lb	46.1 123.2 74.1 0.5264	54.8 95.8 ^{159.6} 0.4246	54.8 95.8 41.2 0.3897	77.9 91.8 43.5 0.3379	81.3 87.9 37.1 0.3042	77.4 87.1 37.1 0.3506	72.8 86.5 38.2 0.3752	57.1 89.1 38.4 0.3641	47.3 93.2 39.1 0.3797	43.7 96.3 46.1 0.4098	41.1 97.4 50.9 0.4389	45.9 105.0 52.8 0.4032	59.8 98.9 54.0 0.3705	71.9 101.0 45.8 0.3388	0.3107	
in: Imports (for consumption): Ore (tin content)metric tons Metal, unwrought, unalloyeddo Recovery from scrap, total (tin cont.)do As metaldo Consumption, total do Primary	4,529 48,354 ¹ 21,493 ¹ 1,767 ¹ 62,465 ¹ 49,496	842 45,983 18,638 1,703 56,362 144,342	0 3,805 1,265 150 3,750 3,000	0 4,790 1,195 145 4,300 3,500	0 3,327 1,330 120 4,400 3,600	0 3,985 1,220 130 4,100 3,300	0 3,856 1,185 135 4,600 3,700	0 4,831 1,285 160 4,400 3,500	0 4,359 1,345 135 4,350 3,200	0 3,440 1,215 185 3,900 2,900	0 2,819 1,310 140 4,200 3,000	0 3,038 1,225 125 3,950 3,000	0 3,261 1,280 155 3,900 2,950	232 3,951 3,400 2,500	0 4,216	
Exports, incl. reexports (metal) do Stocks, pig (industrial), end of period do Price, Straits quality (delivered)	'3,418 4,238 7.5389	4,293 5,504 8.4600	547 5,504 7.5956	415 5,968 7.4876	233 5,745 7.1349	919 5,229 7.0026	287 5,725 6.8358	343 5,978 6.5806	411 6,227 6.5839	1,019 6,465 6.8981	287 5,663 7.5339	471 5,710 7.8022	253 5,325 7.9560	171 5,563 8.2147	1,180 7.9352	
inc: Mine prod., recoverable zinc thous. met. tons Imports (general): Ores (zinc content) do Metal (slab, blocks) do	267.3 225.0 527.1	334.9 113.8 329.0	26.2 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	23.6 8.5 55.4	24.6 13.6 50.8	'28.3 11.4 43.0	28.0 7.8 48.2	25.4 3.7 59.3	9.2 32.8	
Consumption (recoverable zinc content): Oresdo Scrap, all typesdo Slab zinc: @	79.7 314.0	67.6 236.1	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	3.2 17.3	3.2 17.5	4.6 18.5	4.6 19.5	4.6 18.7		
Production, total ‡thous. met. tons Consumption, fabricatorsdo Exportsdo Stocks, end of period:	¹ 525.7 1,000.6 0.3		30.2 70.5 (²)	30.3 74.5 0.	28.5 73.6 (²)	31.3 77.3 (²)	30.9 74.3 0.1	29.2 73.6 (²)	28.0 77.2 (²)	30.0 64.4 (²)	30.4 72.4 (²)	26.7 70.2 (²)	27.0 66.0 0.1	26.6 60.0 (²)	23.0 (²)	
Producers', at smelter (ABMS)do Consumers'	55.8 59.1 0.3730	22.6	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 68.9 0.4625	20.8 70.5 0.4747	19.5 72.4 0.4872	24.5 72.1 0.4587	31.6 72.9 0.4615	34.6 0.4259	
eating, combustion, atmosphere equipment, new orders (domestic), net, qtrly #mil \$ Electric processing heating equipmentdo Fuel-fired processing heating equipdo	372.6 105.5 160.4		87.7 21.1 42.4			91.8 19.3 36.7			99.8 36.0 63.8			126.8 23.2 70.9				
aterial handling equipment (industrial): Orders (new), index, seas. adj 1967=100	419.4	375.5	384.8	383.7	362.0	441.0	365.5	431.9	369.6	446.2	2 9 2.5	413.9	324.2	388.7		
dustrial trucks (electric), shipments: Hand (motorized)	24,183 28,654 55,782	24,110	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	1,765 1,812 2,721	'1,571 1,722 2,622	1,586 1,814 2,622	1,569 1,976 2,551	
number number dustrial supplies, machinery and equipment: New orders index, seas. adjusted	132.1	109.8	112.0	111.6	113.8	117.8	118.0	115.7	118.2	121.9	119.2	115.6	112.6	111.7	110.5	
Sales index, seas. adjusted	129.6 117.4	134.5 131.2	128.1 136.3	138.9 137.8	135.6 139.4	138.9 140.8	145.6 142.6	140.2 143.6	140.9 144.2	149.4 145.8	150.6 146.2	147.2 146.7	147.9 147.4	140.0 148.3	132.5 149.2	
uid power products shipments indexes: * Hydraulic products, seas. adj	272 235	272 234	255 259	245 248	262 245	260 253	278 255	267 244	294 245	310 266	287 267	301 243	296 242	276 *252	271 251	
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	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	167.45 145.70 259.60 228.35 3,745.6	140.45 365.35 336.05	157.10 145.80 334.60 305.70 3,353.7	*135.40 *115.65 *329.75 *287.35 *3,159.4	112.55 101.05 398.60 358.85 2,873.3	P16 P12 P31 P29 P2,7
Metal forming type tools: 0	'1,126.35 919.90 946.50 859.80 618.8	1,010.95 878.55	54.15 44.05 90.50 77.95 384.8	*84.20 *78.20 80.25 67.30 *705.2	r67.30 r58.80 86.85 72.65 r685.7	*62.25 *57.70 103.25 75.20 *644.7	r91.30 r63.80 88.90 70.65 r647.1	r50.00 42.90 79.35 67.10 r617.8	*64.50 *56.95 95.85 75.45 *586.4	'55.15 '48.60 71.75 62.35 '569.8	*46.70 *42.95 65.80 56.05 *550.7	r36.35 r31.00 76.10 67.25 r511.0	*59.40 *50.20 72.30 60.25 *498.0	r60.35 r52.85 r78.40 70.00 r480.0	39.25 32.90 92.30 79.95 427.0	P4 P4 P7 P4 P3
actors used in construction, shipments, qtrly: Iracklaying, total	19,812 1,322.1 4,962 419.1	16,503 1,306.1 4,781 387.5	3,361 291.5 947 73.6			4,398 391.9 1,258 104.0						3,848 412.6 1,127 112.4	41,301 4138.3	4822 483.8		
Tractor shovel loaders (integral units only), wheel and tracklaying types units mil \$	54,414 1,758.1	45,480 1,697.1	9,037 342.4			9,381 439.4	······	······				7,505 354.4				
actors, wheel, farm, nonfarm (ex. garden and construction types), ship., qtrly units mil. \$	201,453 3,424.2	146,274 3,183.4	32,748 871.2			36,683 938.0			39,145 905.8			33,732 815.0	⁴ 14,688 ⁴ 370.2	48,766 4244.7		
ELECTRICAL EQUIPMENT Atteries (auto-type replacement), shipthous adio sets, production, total marketthous.	53,746 40,029		5,520 ³ 2,149	4,820 2,243	3,548 1,986	3,331 ³ 2,030	3,460 1,905	3,488 2,519	3,658 32,739	4,037 2,364	5,278 3,661	6,096 ³ 3,233	6,201 3,767	4,668 3,216	5,012 1,814	
elevision sets (incl. combination models), production, total marketthous ee footnotes at end of tables.		ļ			1,518		1,376	1,390	31,777	1,216	1,494	°1,981	1,550	1,474	,	

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Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980	1980						198	31		······	r			1982
in the 1979 edition of BUSINESS STATISTICS	Anr	ual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	M	ETAL	S AN	D MA	NUF	ACT	URES	S—Co	ntinu	ed						-
ELECTRICAL EQUIPMENT—Continued																
Household major appliances (electrical), factory shipments (domestic and export) # Air conditioners (room) do Dishwashers do Dishwashers do Ranges do Refrigerators do Freezers do Dryers (incl. gas) do Vacuum cleaners (qrty.) do GAS EQUIPMENT (RESIDENTIAL) do	$\begin{array}{c} 33,162\\ 3,749\\ 3,488\\ 3,317\\ 3,000\\ 5,701\\ 1,858\\ 4,965\\ 3,551\\ 8,674\end{array}$	r30,260 3,204 2,738 r2,962 2,530 5,124 1,681 4,550 3,177 7,439	"2,133 203 198 "225 185 295 89 302 238 1,724	"2,558 "222 242 "284 "221 408 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	2,613 477 192 253 193 428 142 346 221	3,136 653 220 230 219 542 206 402 247 1,944	2,683 283 190 237 200 511 227 376 243	2,436 64 236 288 190 450 152 398 254	2,357 52 202 234 176 456 111 416 293 1,955	260	1,854 94 165 197 163 272 62 267 217	$1,831 \\ 163 \\ 144 \\ 206 \\ 152 \\ 264 \\ 76 \\ 246 \\ 189 \\ 1,767$	1,94 19 16 22 14 27 8 30 22
Furnaces, gravity and forced-air, shipmentsthous Ranges, total, sales	1,863 1,799 2,887	1,446 1,538 2,818	132 141 246	136 114 260	123 118 242	128 143 286	$111 \\ 125 \\ 287$	105 123 226	$108 \\ 134 \\ 235$	$115 \\ 110 \\ 204$	120 121 204	125 136 202	139 128 224	'111 '119 203	99 126 207	
		PETI														
COAL						,										
Anthracite:	1.005					م ، بون					-FO		FAC			
Production thous. sh. tons Exports	4,835 1,233 411.0	6,056 1,795 463.7	470 57 497.9	'305 65 508.7	*472 8 542.9	'548 114 542.8	463 167 545.2	240 170 552.8	477 283 572.0	'566 332 589.7	'534 278 '597.3	'417 307 620.5	562 252 629.8	676 171 642.5	485 101 643.7	
Bituminous: Production † thous. sh. tons	776,299	823,644	71,647	65,296	70,026	¹ 77,325	¹ 36,869	'37,276	*61,9 02	*73,345	r78,204	*79,823	82,747	72,000	67,187	
Consumption, total do Electric power utilities do Industrial, total	677,286 526,005 144,150 77,009	669,061 568,322 125,815 66,493	62,978 51,068 11,318 5,335	66,822 54,276 11,857 5,450	59,227 47,855 10,973 5,161	59,736 48,323 11,108 5,516	54,070 43,604 10,035 4,850	54,372 44,909 9,200 4,250	59,054 49,882 8,962 4,451	66,764 56,042 10,459 5,433	65,014 *54,195 10,580 5,417	58,975 48,385 10,270 5,319	47,685	46,873	·····	
Residential and commercial do Stocks, end of period, total do	7,131 178,440	4,924 ²199,077	592 199,077	689 193,568	399 192,892	305 201,687	431 181,580	263 161,617	210 152,516	263 148,423	239 151,037	320 158,651				
Electric power utilities	156,440 21,660 10,028	178,269 20,808 9,017	178,269 20,808 9,017	172,151 21,417 9,583	170,856 22,036 10,159	179,032 22,655 10,735	163,859 17,721 6,900	147,095 14,522 4,800	139,440 13,076 4,452	134,855 13,568 5,027	136,977 14,060 5,602	144,097 14,554 6,179	154,165	159,454		
Exports do Price, wholesale Index, 1967=100 COKE	64,783 451.1	89,882 466.5	8,169 473.8	5,727 476.0	6,762 477.9	9,593 478.3	8,099 483.4	5,911 484.4	5,872 488.2	10,414 501.9	11,034 '503.2	11,589 506.2	12,105 506.4	11,676 508.0	11,462 510.6	
Production: Beehive and oven (byproduct) thous. sh. tons Petroleum coke § do	152,943 27,455	46,132 27,094	3,683 2,329			^{\$} 11,382 2,356	2,209	2,354	$10,058 \\ 2,395$	2,360	2,425	11,143 2,466	2,348	2,445		
Stocks, end of period: Oven-coke plants, totaldo At furnace plantsdo At merchant plantsdo	5,185 4,590 595	8,627 7,521 1,106	8,627 7,521 1,106			⁵7,586 ⁵6,564 ⁵1,022			4,990 4,554 437		·····	5,192 4,798 394				
Petroleum coke ‡ do	1,042	⁶ 846	⁶ 846	1,030	1,024	948	835	869	758	813	790	765	708	836		
Exports do PETROLEUM AND PRODUCTS	1,545	2,162	67	101	54	132	118	89	206	73	60	94	123	67	134	
Crude petroleum: Oil wells completednumber Price, wholesaleIndex, 1967=100 Gross inout to crude oil distillation	19,383 376.5	r27,026 556.4	'3,685 632.8	1,789 704.4	2,462 842.7	3,102 842.8	2,905 842.5	2,604 839.9	3,497 815.9	2,790 798.9	3,137 '796.8	3,416 797.0	3,775 788.4	3,587 786.0	4,581 787.4	
units	5,458.7 85	5,049.3 76	432.4 76	417.6 72	369.7 71	391.4 68	368.5 66	389.2 67	381.9 68	389.9 67	409.3 71	382.5 68	383.3 67	378.2 68		
All oils, supply, demand, and stocks: ‡ New supply, total ¶mil. bbl Production:	6,802.0	6,266.9	530.1	526.4	476.8	503.5	477.0	490.4	470.5	490.7	494.2	49 8.2	500.5	476.2		
Crude petroleum do Natural gas plant liquids do	3,121.3 594.2	3,146.4 591.8	266.8 49.6	264.5 50.7	240.8 46.2	266.6 50.1	256.3 47.7	263.4 50.2	258.5 49.3	261.1 49.5	265.9 50.5	257.6 50.9	264.8 51.6	$257.8 \\ 50.1$		
Imports: Crude and unfinished oils do Refined products do	2,400.9 685.6	1,946.2 582.5	158.2 55.5	153.8 57.5	138.0 51.7	141.5 45.3	135.7 37.3	133.5 43.3	125.2 37.4	135.3 44.8	134.0 43.9	145.3 44.4	140.7 43.4	124.0 44.3	•••••	
Change in stocks, all oils (decrease,—) do Demand, total do	455.7 6,928.9	°79.3 6,441.7	°-12.2 590.0	-29.3 584.2	6.7 490.0	7.9 509.2	17.9 475.5	23.5 489.5	-8.9 492.5	5.8 504.8	14.5 492.3	22.3 484.1	7.6 513.9	17.9 486.3		
Exports: Crude petroleum do Refined products do	85.7 86.1	104.9 94.3	10.6 8.7	10.5 6.8	5.5 10.4	6.5 11.7	5.9 11.2	9.7 8.8	3.7 8.9	8.0 9.7	6.3 13.6	5.8 9.8	7.0 15.9	8.3 12.7		
Domestic product demand, total # do Gasoline do Kerosene do	6,757.1 2,581.5 68.6	6,242.4 2,420.5 58.0	570.7 206.3 7.3	566.9 198.8 7.0	474.0 176.9 4.6	491.0 195.4 3.5	458.4 198.6 2.8	471.1 205.7 2.7	479.9 211.2 2.6	487.1 212.5 2.7	472.3 207.2 2.9	468.6 200.5 2.8	491.1 205.5 4.1	465.2 192.5 4.4		
Distillate fuel oil do Residual fuel oil do Jet fuel do	1,208.5 1,031.6 392.7	1,049.0 918.0 390.7	112.1 83.1 33.6	126.8 89.0 32.9	95.1 71.4 28.5	89.6 65.1 32.7	76.2 54.9 28.9	74.2 54.8 28.6	73.1 59.8 31.1	73.8 61.9 33.7	73.9 57.3 31.8	75.9 56.3 30.9	86.6 57.8 29.0	86.6 56.3 29.8		
Lubricants do Asphalt do Liquefied gases do	65.5 172.0 581.0	58.3 142.4 537.8	4.8 7.3 58.5	4.6 5.4 60.0	4.7 4.0 49.9	4.9 7.2 48.0	5.5 9.3 40.1	4.7 10.8 39.8	4.3 13.8 39.9	5.1 15.2 38.8	4.3 15.8 35.0	4.6 13.9 42.1	5.3 13.7 49.2	3.7 9.9 47.4	·····	
Stocks, end of period, total	⁴ 1,340.9 430.3 ³ 91.2 ⁴ 132.0 ⁴ 778.6	⁶ 1,420.2 ⁶ 482.9 ⁶ 107.8 ⁶ 192.0 ⁶ 745.3	⁶ 192.0	1,390.9 488.9 112.5 188.8 713.1	1,397.6 502.8 116.1 193.5 701.3	1,405.5 518.1 120.9 193.9 693.5	1,423.4 541.4 134.2 189.8 692.2	1,446.9 552.3 150.1 185.4 709.2	$1,438.0 \\ 555.3 \\ 163.1 \\ 187.3 \\ 695.4$	$1,443.8 \\ 565.6 \\ 173.1 \\ 181.0 \\ 697.1$	1,458.3 549.9 184.7 182.6 725.8	1,480.7 560.7 199.2 179.9 740.0	1,488.3 584.3 214.8 178.0 726.0	222.5 178.3		

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Annual FROLE 4.6 2,394.1 0.2 0.5 9.9 °213.5 7.6 576.7 378 1.217 919 1.261 3.7 12.8 2.7 °2.3	206.9 (¹) *213.5 596.1	208.2 (¹)	176.6 (¹)	Mar.) PR(193.3	Apr.	May	June Cont	July nued	Aug.	Sept.	Oct.	Nov.	Dec.	Jan
4.6 2,394.1 0.2 0.5 *213.5 7.6 576.7 378 1.217 919 1.261 3.7 12.8 2.7 *2.3	206.9 (¹) *213.5 596.1	208.2	176.6 (¹)		DUC	CTS	Cont	inued						
0.2 0.5 9.9 \$213.5 7.6 576.7 378 1.217 019 1.261 3.7 12.8 2.7 \$2.3	(1) *213.5 596.1		(1)	102.2				·						•
0.2 0.5 9.9 \$213.5 7.6 576.7 378 1.217 019 1.261 3.7 12.8 2.7 \$2.3	(1) *213.5 596.1		(1)	102.2										
9.9 *213.5 7.6 576.7 878 1.217 919 1.261 3.7 12.8 2.7 *2.3	*213.5 596.1	(1) 229.5	(¹)		184.2	190.9	187.8	200.2	206.3	198.1	200.9	198.3		
378 1.217 919 1.261 3.7 12.8 2.7 *2.3			232.3	(¹) 284.5	(1) 225.2	(¹) 215.0	(¹) 196.3	(¹) 187.7	0.1 190.6	0.1 193.2	0.1 192.9	(¹) 202.9		
919 1.261 3.7 12.8 2.7 *2.3		607.5	632.9	683.2	694.7	690.4	685.6	677.4	*668.4	668.1	667.8	663.3	659.3	
2.7 °2.3	1.281	1.278 1.326	1.372 1.421	1.384 1.435	⁵ 1.400 ⁵ 1.449	1.398 1.448	1.398 1.449	1.398 1.450	1.397 1.449	1.398 1.450	(†) (†)			
	1.0 *2.3	0.9 2.5	0.7 2.5	0.7 2.1	0.8 1.8	1.2 2.1	1.1 2.1	$\begin{array}{c} 1.3\\ 2.2\end{array}$	1.2 2.3	1.1 2.6	1.0 2.6	0.8 2.7		
6.8 50.1 5.8 °11.4	5.1 ¢11.4	5.7 10.5	4.5 10.4	3.8 11.0	3.6 11.9	3.5 12.6	3.1 13.2	2.8 13.2	3.0 13.6	2.7 13.8	2.7 12.6	3.7 12.4		
9.6 863.4 0.8 974.1	911.4 89.6	932.1 92.6	972.0 78.7	1,041.0 77.0	1,080.9 72.5	1,084.1 76.1	1,078.9 75.0	1,067.5 74.5	1,052.6 82.3	1,043.5 78.3	1,042.0 77.2	1,041.4 81.9	1,036.8	1
0.5 51.9 1.1 1.2 8.7 205.4	5.2 (¹)	8.5 (¹) 180.0	9.1 0.5 172.6	4.5 (¹) 164.7	3.5 0.1 164.7	5.1 (¹) 171.9	(¹) 180.2	5.5 0.1 186.7	(¹) 200.3	3.9 (¹) 206.8	3.6 0.2 201.2	3.4 0.2 200.0		
3.9 850.6		935.4	1,000.3	1,082.8	1,105.4	1,092.5	1,092.2	1,079.8	^{1,076.7}	1,064.3	1,053.4	1,044.6	,	ł
5.6 578.4 0.1 343.6 3.2 12.2 5.6 °91.5 4.5 961.2	31.8 1.9 °91.5	50.0 31.5 2.0 82.3 1,207.9	43.8 26.8 3.5 78.2 1,248.0	44.1 21.7 4.5 74.9 1,323.7	39.6 17.5 4.5 73.0 1,334.6	37.9 22.8 0.8 78.5 1,318.2	37.0 16.2 2.3 70.1 1,255.8	36.4 25.7 2.5 69.3 1,206.1	38.1 25.4 2.1 74.8 1,246.4	38.6 25.2 3.8 80.0 1,187.7	38.2 24.0 6.3 79.8 1,174.3	36.5 25.3 6.1 80.8		
9.2 365.6 8.5 °42.4	29.8	29.6 39.5	26.6 38.7	30.8 39.2	28.8 40.7	31.2 44.7	29.8 45.4	32.2 44.9	30.3 44.9	28.0 43.3	28.0 42.8	28.9 41.9		
1.0 65.1 8.6 8.6 2.5 °13.6	5.4 0.6 *13.6	5.0 0.7 13.6	4.9 0.5 13.2	5.3 0.9 12.9	5.2 0.6 12.6	5.4 0.6 13.1	5.1 0.6 13.6	5.0 0.4 13.3	5.3 0.5 14.1	4.4 0.5 13.7	4.9 0.7 12.9	5.0 0.4 13.9		
		9.5 22.9	7.4 26.3	8.3 27.5	10.0 28.2	11.8 29.3	11.9 27.6	12.7 25.4	13.4 23.1	11.9 21.3	10.7 18.4	9.0 17.6		
3.9 440.9	37.8	50.5 40.4	45.2 35.9	48.7 39.0	47.9 38.3	49.8 39.8	47.3 37.5	47.3 37.8	48.4 37.8	48.6 39.3	49.8 40.6	50.0 41.0		
0.7 *128.0	°128.0	116.5	111.8	111.9	118.5	126.9	132.7	140.6	148.1	151.3	148.7	146.4		
	, PAF	'ER, A		PAPI		ROD		r	Т					—
			ļ							1				
28 81,007 94 79,703 43 6,697	6,480 6,234 6,697	6,832 6,700 6,336	6,378 6,477 6,210	6,847 6,889 6,009	6,528 6,882 5,528	$^{6,465}_{6,716}_{5,123}$	6,649 6,790 4,985	6,799 6,526 5,464	6,706 6,656 5,552	6,774 6,645 5,693	7,206 7,058 5,917	6,258 6,459 5,600		
		1,109 825	1,148 922	1,229 854	1,195 910	1,159 866	1,204 925	1,063 940	1,190 959	1,109 958	'1,135 '949	1,009 919		
											- 4 - 70			
47 1,418 39 38,931 314 1,911	126 2,867 155	116 3,305 167	115 3,138 155	110 3,556 157	108 3,479 148	3,516 165	120 3,351 159	102 3,129 126	140 3,445 155	102 3,309 149	113 '3,443 154	129 3,268 147		
3,938		348	325	360	345	353	338	313	330	322	326	301		
'98 944 18 439 21 449 59 57	944 439 449 57	1,031 542 433 57	1,107 568 475 64	1,035 531 447 61	1,077 581 438 58	1,088 607 430 51	1,154 614 488 53	1,224 667 497 59	505	1,141 602 485 54	1,267 745 462 60	1,342 840 443 59	·····	
35 3,805 64 769	322 52	291 67 224	279 61 218	356 83 272	290 48 243	363 61 302	359 70 289	237 65 172	300 65 236	347 63 284	274 62 212	267 53 214	315 85 230	
18 4,051 55 194 63 3,858	334 10 324	380 23 356	355 9 346	368 22 346	295 8 287	414 26 388	349 8 341	329 25 304	323 10 313	279 24 255	406 27 379	318 10 308	269 8 262	
1	1 1	, I												
	3.8 141.2 3.9 *18.8 3.0 561.8 3.9 *128.0 9 *128.0 PULLP 28 28 81.007 94 79,703 43 6,697 39 13,185 19 892 77 52,055 47 1,418 39 13,185 19 892 77 52,055 414 1,911 19 4,887 98 944 18 439 21 449 59 57 70 3,805 64 769 70 3,037 18 4,051 194 4,051	3.8 141.2 9.1 3.9 *18.8 *18.8 3.0 561.8 48.6 3.9 440.9 37.8 3.1 120.8 10.7 7.7 *128.0 *128.0 PULP, PAP 43 6,697 94 79,703 6,234 43 6,697 6,697 39 13,185 1,070 19 892 892 77 52,055 3,851 47 1,418 1266 39 13,185 1,070 19 8892 892 77 52,055 3,851 43 6,697 393 19 8,931 2,867 14 1,911 155 19 4,887 393 98 944 9449 57 57 57 35 3,805 3222 64 769 52	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3.8 141.2 9.1 9.5 7.4 3.9 $^{\bullet}18.8$ $^{\bullet}18.8$ 22.9 26.3 3.0 561.8 37.8 22.9 26.3 3.0 561.8 37.8 40.4 35.9 3.0 561.8 37.8 40.4 35.9 3.1 22.0 $^{\bullet}128.0$ 10.7 10.0 9.3 3.7 $^{\circ}128.0$ $^{\circ}128.0$ 116.5 111.8 PULP, PAPER, AND 28 81.007 6.480 6.832 6.378 94 79.703 6.234 6.700 6.477 43 6.697 6.336 6.210 39 13.185 1.070 1.109 1.148 19 892 892 825 922 77 52.055 3.851 4.355 4.128 13.185 1.070 1.109 1.148 325	3.8 141.2 9.1 9.5 7.4 8.3 3.9 $*18.8$ 22.9 26.3 27.5 3.0 561.8 48.6 50.5 45.2 48.7 3.9 440.9 37.8 40.4 35.9 39.7 3.1 120.8 10.7 10.0 9.3 9.7 7.7 $^{\circ}128.0$ $^{\circ}128.0$ 116.5 111.8 111.9 PULP, PAPER, AND PAPI 28 81.007 6.480 6.832 6.378 6.847 94 79.703 6.234 6.700 6.477 6.889 43 6.697 6.336 6.210 6.009 39 13.185 1.070 1.109 1.148 1.229 39 892 892 825 922 854 77 52.055 3.851 4.355 4.128 4.621 1.418 1	3.8 141.2 9.1 9.5 7.4 8.3 10.0 3.9 $^{\circ}18.8$ $^{\circ}18.8$ 22.9 26.3 27.5 28.2 3.0 561.8 48.6 50.5 45.2 48.7 47.9 3.9 440.9 37.8 40.4 35.9 39.0 38.3 1.1 120.8 10.7 10.0 9.3 9.7 9.7 $^{\circ}128.0$ $^{\circ}128.0$ 116.5 111.8 111.9 118.5 PULP, PAPER, AND PAPER P 28 81.007 6.480 6.832 6.378 6.847 6.528 94 79.703 6.234 6.700 6.477 6.889 6.882 43 6.697 6.336 6.210 6.009 5.528 39 13.185 1.070 1.109 1.148 1.229 1.195 19 892 892 825 922 854 910 77 52.055 3.851 4.355 4.128 4.621	3.8 141.2 9.1 9.5 7.4 8.3 10.0 11.8 3.9 *18.8 '18.8 22.9 26.3 27.5 28.2 29.3 3.0 561.8 48.6 50.5 45.2 48.7 47.9 49.8 3.9 440.9 37.8 40.4 35.9 39.0 38.3 39.8 1.1 120.8 10.7 10.0 9.3 9.7 9.7 10.1 7.7 *128.0 '128.0 116.5 111.8 111.9 118.5 126.9 PULP, PAPER, AND PAPER PRODI 28 81.007 6.480 6.832 6.378 6.847 6.528 6.465 43 6.697 6.697 6.336 6.210 6.009 5.528 5.123 39 13.185 1.070 1.109 1.148 1.229 1.195 1.159 43 6.697 6.487 3.355 4.128 4.621 4.501 4.584 77 52.055 3.851 4.355 4.128 4.621 4	3.8 141.2 9.1 9.5 7.4 8.3 10.0 11.8 11.9 3.9 $^{\circ}$ 18.8 22.9 26.3 27.5 28.2 29.3 27.6 3.0 561.8 48.6 50.5 45.2 48.7 47.9 49.8 47.3 3.9 440.9 37.8 40.4 35.9 39.0 38.3 39.8 37.5 1.1 120.8 10.7 10.0 9.3 9.7 9.7 10.1 9.8 3.7 *128.0 116.5 111.8 111.9 118.5 126.9 132.7 PULP, PAPER, AND PAPER PRODUCTS 28 81.007 6.480 6.832 6.378 6.847 6.528 6.465 6.649 94 79.703 6.234 6.700 6.477 6.889 6.882 6.716 6.790 43 6.697 6.936 922 854 910 866 925 39 13.185 1.070 1.109 1.148 1.229 1.195 1.159 1.204 <	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					

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SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data	1979	1980	1980						198	31						198
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ja
	PULP,	PAP	ER, A	ND F	PAPE	R PR	ODU	CTS-	-Con	tinue	d					<u>د</u> ــــــــــــــــــــــــــــــــــــ
PAPER AND PAPER PRODUCTS-Cont.				_												
Paper and board—Cont. Producer price indexes: Paperboard	202.1 182.4	234.6 206.2	239.6 219.7	250.2 219.7	252.8 225.7	225.1 227.9	255.7 232.5	258.8 237.3	259.2 237.4	259.4 235.5	"260.6 "234.2	262.5 233.7	262.6 232.5	261.6 231.5	259.3 227.7	
Selected types of paper (API): Groundwood paper, uncoated: Orders, newthous. sh. tons Orders, unfilled, end of perioddo	1,519 149 1,509	1,475 110 1,498	115 110 124	129 122 129	113 124 114	126 132 122	103 111 127	128 117 121	107 106 120	125 119 111	130 122 126	'118 134 110	117 117 133	'95 90 '117	118 98 111	
Coated paper: Orders, new	4,547 385 4,527	'4,753 391 4,673	395 391 405	394 365 426	377 352 391	427 345 438	409 324 405	405 320 411	406 313 411	407 341 387	424 340 422	409 1317 434	448 324 439	396 *319 *389	337 296 383	
Uncoated free sheet papers: Orders, new do Shipments do	7,836 8,195	17,694 18,326	618 671	693 690	603 656	710 744	664 731	698 731	612 695	639 645	633 675	627 688	"677 "713	^{570 r} 570	571 578	[
Unbleached kraft packaging and industrial converting papers: Shipments thous. sh. tons	3,934	¹ 3,788	293	322	309	345	348	342	317	298	330	⁷ 318	'31 1	*326	269	
Tissue paper, production do	4,520	14,375 ¹	345	372	352	395	372	386	374	347	395	372	'39 0	r375	350	
Newsprint: Canada: Productionthous. metric tons Shipments from millsdo Stocks at mills, end of perioddo	8,756 8,780 165	8,625 8,622 165	691 735 165	751 695 221	702 684 238	766 769 235	772 782 225	770 744 251	748 776 223	726 738 211	677 652 236	707 708 235	815 795 255	769 773 252	743 *800 194	
United States: Productiondo Shipments from millsdo Stocks at mills, end of perioddo	3,685 3,689 16	4,239 4,234 21	338 357 21	379 374 26	356 357 25	399 395 29	391 392 29	402 400 30	404 395 39	405 401 43	426 421 48	400 410 38	420 417 41	412 407 46	359 367 38	
Consumption by publishers ¶ do Stocks at and in transit to publishers, end of period	10,197 628	10,089 732	880 732	781 768	761 807	860 827	867 846	897 847	814 902	r791 952	*827 928	"839 944	¹ 922 959	*907 *947	874 980	
Imports thous. sh. tons Price, rolls, contract, f.o.b. mill, freight allowed	7,223	7,279 ³ 279.3	596	584	587	620	584	622	568	568 201 0	502	513 320.0	649 320.0	624	557 316.8	
or delivered Index, 1967=100 Paperboard (American Paper Institute): Orders, new (weekly avg.)§ thous. sh. tons Orders, unfilled	249.4 613 1,393 31,429	⁽²⁾ ⁽²⁾ ¹ 30,952	298.3 2,313	301.9 2,709	301.9 2,539	301.9 2,842	301.9	301.9 2,854		301.9 2,509	'309.3 2,737	2,590	320.0 2,628	314.4 	2,035	
Paper products: Shipping containers, corrugated and solid fiber shipmentsmil. sq. ft. surf. area	250,643	243,228	19,313	21,161	20,044	21,383	21,583	19,808	20,933	20,486	20,434	21,094	21,867	18,189	17,600	
Folding paper boxes, shipments, thous. sh. tons mil. \$	2,716 2,417	(2) (2)				·····										

RUBBER AND RUBBER PRODUCTS

RUBBER]								
Natural rubber: Consumption thous. metric tons Stocks, end of period do	739.00 132.12	586.15 126.67	48.69 126.67	'48.98 '128.01	'52.59 '125.44	'55.44 '122.83	'55.06 '127.56	"53.93 "124.05	'59.52 '119.51	'56.36 '113.53	'51.07 '111.22	52.13 114.37	57.32 122.97			
Imports, incl. latex and guayulethous. lg. tons	747.68	598.31	45.06	30.06	86.64	53.38	67.62	66.36	50.47	41.59	43.40	62.76	69.42	56.23	49.13	[
Price, wholesale, smoked sheets (N.Y.) \$ per lb	0.651	0.730	0.730	0.713	0.690	0.650	0.590	0.580	0.570	0.560	0.540	0.504		0.456	0.483	
Synthetic rubber: Production thous. metric tons Consumption do	2,534.50 2,340.62	2,009.04 1,854.10	193.69 155.13	'193.53 '152.95	169.68 '166.68	r200.37 r194.00	180.94 "144.88	175.92 *167.10	158.18 *154.13	161.50 *144.69	159.72 *164.99	168.90 156.72	170.44 168.24			
Stocks, end of period do	402.86	341.77	341.77	'364.50	*354.60	r346.99	¹ 365.86	r368.29	¹ 359.79	r369.44	'353.4 0	333.47	352.57			
Exports (Bu. of Census)thous. lg. tons	385.11	422.78	32.31	31.21	31.65	38.73	31.77	32.00	28.55	26.27	21.97	24.40	23.94	22.49	21.65	
TIRES AND TUBES								}						{		!
Pneumatic casings, automotive: Productionthous	206,687	159,263	13,346	15,463	15,641	16,834	15,466	15,183	15,406	14,277	14,902	15,851	16,534	13,750	11,855	
Shipments, totaldo Original equipmentdo Replacement equipmentdo Exportsdo	213,929 58,072 150,780 5,077	$177,063 \\ 40,227 \\ 131,271 \\ 5,565$	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	4,292	19,324 4,538 14,290 496	17,380 3,026 13,901 453	17,583 2,813 14,407 363	17,982 3,123 14,503 356	18,179 3,537 14,168 474	13,992 2,758 10,823 411	13,544 2,363 10,820 361	
Stocks, end of period do	44,873	33,298	33,298	40,188	43,258	43,686	42,393	40,615	38,570	37,116	36,709	36,088	36,556	41,112	40,863	
Exports (Bu. of Census) do	6,572	9,058	946	797	1,081	1,055	1,224	1,072	1,040	830	1,134	725	653	990	485	
Inner tubes, automotive: Exports (Bu. of Census) do	3,576	4,557	317	206	358	335	374	252	250	350	337	. 259	268	208	231	

See footnotes at end of tables.

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Unless otherwise stated in footnotes below, data	1979	1980	1980						198	1						1982
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	nual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
		STON	E, CI	LAY,	AND	GLA	SS PI	RODI	UCTS							
PORTLAND CEMENT																
Shipments, finished cementthous. bbl	¹ 451,383	¹ 404,569	28,181	20,665	20,782	30,229	35,165	34,181	38,074	38,872	37,489	37,303	36,266	29,590	23,495	
CLAY CONSTRUCTION PRODUCTS Shipments:																
Brick, unglazed (common and face) mil. standard brick	7,708.1	6,335.2	463.4	385.6	361.4	515.0	528.8	501.1	484.1	477.3	445.4	440.6	429.6			
Structural tile, except facing thous. sh. tons Sewer pipe and fittings, vitrified	59.0 855.3	101.5 721.8	9.7 45.5	6.4 36.8	11.1 34.3	9.7 50.4	7.1 45.0	8.8 38.9	6.8 35.8	7.0 42.8	6.0 42.6	7.3	10.6 41.7			
Facing tile (hollow), glazed and unglazed mil. brick equivalent.	54.0	45.4	3.6	2.7	2.4	3.2	3.2	3.0	3.6	3.2	2.7	3.0	3.2			
Floor and wall tile and accessories, glazed and unglazed mi. sq. ft	312.8	297.6	23.1	20.6	21.7	27.1	25.6	24.1	24.5	25.6	25.2	25.3	23.7			
Price index, brick (common), f.o.b. plant or N.Y. dock	263.1	280.8	286.3	290.2	289.6	299.3	300.1	301.3	302.4	302.8	r302.8	304.2	304.1	304.8	305.1	
GLASS AND GLASS PRODUCTS	200.1	200.0	200.0	200.2	200.0	200.0	000.1	001.0	002.4	002.0	002.0	004.2	004.1	004.0	000.1	
Flat glass, mfrs.' shipments thous. \$	858,130	868,459	247,797			233,439			248,658			243,260				
Glass containers: Productionthous. gross	321,999	327,022	21,122	25,961	25,470	28,207	27,851	28,209	29,532	27,751	29,449	25,943	[*] 29,305	23,840		
Shipments, domestic, total do Narrow-neck containers:	316,024	323,816	23,561	23,367	23,160	29,337	27,434	26,817	30,223	29,172	27,342	26,478	r25,865	23,832		
Food do do	24,531 57,150	24,808 61,032	1,770 4,343	2,090 3,952	2,238 3,727	2,676 5,194	2,256 5,554	2,426 5,188	2,675 6,476	2,589 6,325	2,727 5,724	2,812 4,809	*2,297 *4,596	1,928 4,465		
Beer	113,875 24,306	122,678 24,574	8,563 2,080	7,768 2,013	8,040 1,879	9,892 2,598	10,695 2,123	10,625 1,840	$11,327 \\ 2,146$	11,459 1,795	9,657 1,827	8,733 1,937	8,487 2,124	8,175 1,892		
Wide-mouth containers: Food (incl. packer's tumblers, jelly glasses,				·												
and fruit jars)thous. gross Narrow-neck and wide-mouth containers: Medicinal and toiletdo	66,517 25,856	61,212 26,250	4,909 1,715	5,045 2,213	4,874 2,157	6,301 2,359	4,450 2,138	4,627 1,889	5,165 2,172	4,904 1,902	5,247 1,941	5,616 2,339	*5,955 r2 179	5,214 °2,040		
Chemical, household and industrial do	3,789	3,262	181	286	245	317	218	222	262	198	219	2,355	"2,172 "234	°118		
Stocks, end of period do GYPSUM AND PRODUCTS	45,935	46,676	46,676	50,069	51,651	49,755	49,836	51,053	50,255	48,478	49,633	48,163	'50,420	50,274		
Production:																
Crude gypsum (exc. byproduct) thous. sh. tons Calcined do	¹ 14,630 ¹ 14,543	¹ 12,376 ¹ 11,848	1,081 924	987 1,026	892 885	939 1,005	1,003 1,080	977 1,067	1,008 976	1,054 838	891 986	1,030 970	866 924	924 778		
Imports, crude gypsum do	7,773	7,365	590	721	487	456	593	715	710	812	630	642	623	703		
Sales of gypsum products: Uncalcined do	5,603	¹ 5,544	531	309	306	308	419	441	487	411	435	521	452	419		
Calcined: Industrial plasters do	379	409	31	30	33	36	34	32	36	32	29	31	36	29		
Building plasters: Regular basecoat do	121	217	15	16	17	19	18	16	16	20	19	19	21	18		
All other (incl. Keene's cement) do Board products, totalmil. sq. ft	283	161	13 1,149	13 1,260	12 1,068	16 1,239	17 1,353	15 1,102	14 1,164	13 1,234	12	13 1,127	12	9	•••••	
Lath do Veneer base do.	16,865 125 444	14,131 78 339	1,149 5 29	1,260 7 31	1,068 6 24	1,239 6 29	1,353 6 34	1,102 4 26	1,164 5 29	1,234 5 32	1,146 5 27	1,127 4 27	1,133 4 25	982 4 21		
Gypsum sheathing do	218	190	16	17	14	18	22	19	17	19	17	19	17	15		
Regular gypsum board do Type X gypsum board do	12,556 3,272	9,923 3,266	809 265	884 293	734 260	857 296	928 322	$740 \\ 271$	782 292	827 313	763 295	748 291	752 297	655 258		
Predecorated wallboard do 5/16 mobile home board do	(⁵)	105 229	8 16	10 19	9 21	9 24	11 30	11 31	11 28	11 27	$\frac{11}{28}$	10 28	10 28	9 20		
			Т	EXTI	LE P	ROD	UCTS	5								
FABRIC																
Woven fabric, finishing plants: * Production (finished fabric) mil. linear yd	8,065	8,420	³736	629	684 265	³891	683	686	3663	519	659	³ 609	'668	828		
Cotton do Manmade and silk fiber do	3,107 4,957	3,531 4,990	3286 3450	244 385	265 420	3341 3550	268 415	267 419	3335 3528	188 331	251 408	3306 3502	'256 '412	236 391		
Inventories held at end of period do Cotton do	828 351	769 339	769 339	785 341	801 343	786 338	778 343	777 341	730 315	747 318	789 325	776 333	780 329	794 334		
Manmade and silk fiber do	477	430	430	444	458	448	435	436	415	429	464	443	r451	459		
Backlog of finished orders	9,408 4,838	8,495 4,577	660 342	790 428	827 451	809 441	832 444	839 446	761 375	770 376	745 369	715 364	'687 '348	642 343		
Manmade and silk fiber do COTTON	4,569	4,219	318	362	376	368	388	393	386	394	376	351	'339	300	•••••	
Cotton (excluding linters):																
Production: Ginnings ¶thous. running bales Crop estimatethous. net weight bales §	²14,262 ²14,629	²10,826 ²11,122	⁴9,873			11,122		······		44	427	1,725	5,539	10,157	13,502 15,570	
Consumption thous. running bales Stocks in the United States, total, end of period #	6,140 12.933	6,135 9 261	³ 475	435	446 7 201	3539 5 938	435 5,007	441 4,109	³ 531	385	429	³ 517 16 227	448	*403	³ 395	
thous. running bales Domestic cotton, total do On farms and in transit do	12,933 12,929 3,937	9,261 9,260 2,502	9,261 9,260 2,502	8,328 8,326	7,201 7,200 1,054	5,938 5,937 606	5,007 5,006 460	$4,109 \\ 4,108 \\ 278$	3,217 3,216	2,595 2,594	16,970 16,969	16,327 16,326 12,692	15,628 15,627	14,907 14,907 7 170	13,777 13,776	•••••
Public storage and compresses	8,160 832	2,502 5,927 831	2,502 5,927 831	1,534 5,846 946	1,054 1,509 1,037	4,227 1,104	3,469 1,770	2,808 1,022	81 2,202 933	25 1,687 882	14,669 1,491 899	13,692 1,940 694	10,906 4,059 662	7,170 7,064 673	3,752 9,268 756	•••••
See footnotes at end of tables.	. 0021	. 001		040 I	1,0071	1,1041	1,1101	1,0441	2001	0041	0991	094	0021	0/31	1061	

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1979	1980	1980						198	31				·		1982
in the 1979 edition of BUSINESS STATISTICS	Anr	ual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
		TI	EXTII	LE PF	RODU	JCTS-	-Con	tinue	ed							
COTTON AND MANUFACTURES-Cont.																
Cotton (excluding linters)—Continued Exportsthous. running bales Importsthous. net-weight bales §	'6,649 6	7,975 16	541 5	669 1	2,352 6	733	498 (⁷)	458	320 (⁷)	264 0	990 (⁷)	261	261	478	737	
Price (farm), American upland ¶ cents per lb Price, Strict Low Middling, Grade 41, staple 34 (1-1/16"), average 10 markets cents per lb	63.1 ³ 61.6	76.1 ³ 71.5	80.9 87.2	76.9 85.1	71.4 83.3	72.3 81.5	(⁷) 73.2 81.2	72.3 78.5	`71.1 78.1)	70.2 75.1	`65.0 66.5	58.0 60.8	62.3 60.6	r60.1 57.5	53.9 55.1	
Spindle activity (cotton system spindles): Active spindles, last working day, totalmil	16.2	15.9	15.9	15.9	15.9	15.7	15.8	15.6	15.6	15.6	15.6	15.5	15.6			
Consuming 100 percent cotton	6.4 102.0 0.393 41.7	6.0 102.4 0.388 42.0	6.0 48.3 0.333 43.3	5.9 7.3 0.397 3.4	5.9 7.4 0.371 2.7	5.8 49.2 0.366 43.3	5.9 7.3 0.365 2.7	5.8 7.4 0.371 2.7	5.7 48.9 0.358 43.2	5.7 6.8 0.339 2.4	5.6 7.3 0.363 2.5	5.5 8.9 0.358 3.1	5.4 7.5 0.375 2.6	5.5 2.5		
Cotton cloth: Cotton broadwoven goods over 12" in width:														i		
Production (qtrly.) mil. sq. yd Orders, unfilled, end of period, compared with avg. weekly production no. weeks' prod	····· ⁵18.9	*15.8	1,062 14.0			971 14.7	13.7		*971 *13.6	·····		953 14.4				
Inventories, end of period, compared with avg. weekly production no. weeks' prod	\$3.7	⁵ 4.2	5.7	5.2	5.4	4.8	4.8	5.2	10.0	r6.0	5.5	5.6	5.8			
Ratio of stocks to unfilled orders (at cotton mills), end of period Exports, raw cotton equiv. thous.	^{\$} 0.20	⁵0.2 9	0.40	0.40	0.40	0.33	0.35	0.38	۲0. 3 9	0.33	0.37	0.39	0.46			
net-weight § bales Imports, raw cotton equivalent do	627.7 505.5	540.2 567.0	40.9 38.7	34.8 74.9	28.2 68.4	35.8 66.9	35.7 57.4	30.9 56.8	30.8 61.3	21.7 58.0	25.9 62.3	25.8 62.9	27.5 71.8	26.6 66.7	21.9 58.9	
MANMADE FIBERS AND MANUFACTURES Fiber production, atrly:																
Filament yarn (acetate)mil. lb Staple, incl. tow (rayon) do	316.6 549.4	308.5 443.3	68.9 102.0			61.4 116.3			75.0 114.1							
Noncellulosic, except textile glass: Yarn and monofilaments	4,136.3 4,282.3 1,014.4	3,725.3 4,148.2 867.3	1,001.5 1,143.9 217.7			979.2 1,083.0 237.1	·····		1,011.1 1,116.0 260.2		·····	1,051.3				
Fiber stocks, producers', end of period: Filament yarn (acetate) mil. lb Staple, incl. tow (rayon)	11.8 35.6	18.4 27.2	18.4 27.2			15.8 29.3			12.1 23.7			12.6 27.3				
Yarn and monofilaments	379.8 311.1 152.5	289.3 287.0 104.1	289.3 287.0 104.1			292.6 318.1 109.0			291.9 312.9 87.9			334.4 336.6 121.0				
Manmade fiber and silk broadwoven fabrics: Production (qtrly.), total #mil. sq. yd Filament yard (100%) fabrics # do		10,774.1 3,980.6				2,920.2 1,035.9			2,910.7 999.9							
Chiefly rayon and/or acetate fabrics do Chiefly nylon fabrics do Spun yard (100%) fab., exc. blanketing # do		5,899.6	$123.2 \\ 147.0 \\ 1.574.1$			$128.1 \\ 141.8 \\ 1,604.0$			127.9 130.0 1,627.9						·····	
Rayon and/or acetate fabrics, blends do Polyester blends with cotton do Filament and spun yarn fabrics do Manmade fiber gray goods, owned by weaving		4,342.9 763.8	159.0 1,110.0 216.9			174.1 1,105.7 246.3			176.8 1,096.3 246.5					·····		
mills: Ratio, stocks to unfilled orders, end of period Prices, manufacturer to mfr., f.o.b. mill:	⁵0.22				<i></i>											
50/50 polyester/carded cotton printcloth, gray, 48", 3.90 yds./lb., 78x54-56\$ per yd	°0.472	0.510	0.575	0.569	0.564	0.568	0.581	0.576	0.574							
Manmade fiber manufactures: Exports, manmade fiber equivalentmil. lbs Yara, tops, thread, cloth	596.58 371.44 228.63 225.13	418.64	64.27 37.00 21.97 27.26	53.16 28.16 17.44 25.00	53.50 27.84 18.23 25.66	67.33 33.72 21.67 33.62	64.83 35.76 24.59 29.08	58.05 27.53 18.20 30.51	58.78 28.13 18.71 30.66	47.59 24.03 15.84 23.56	49.70 24.24 15.75 25.47	48.77 22.74 13.84 26.02	50.98 24.60 15.97 26.38	46.95 23.16 15.51 23.79	38.08 19.00 12.74 19.09	
Imports, manmade fiber equivalent	524.97 102.18	540.64 97.48	35.46 7.36	46.72 10.17	38.55 8.04	43.81 11.86	45.53 10.87	57.83 13.11	58.01 11.34	66.66 12.43	69.32 12.05	56.77 10.05	67.24 12.33	49.12 10.56	39.51 7.71	
Cloth, woven do Manufactured prods., apparel, furnishings do	64.58 422.79	67.28 ² 443.15	5.06 29.10	7.00 36.55	5.50 30.50	8.91 31.94	7.73 34.67	9.34 44.72	8.59 46.67	9.25 54.23	8.98 57.27	7.77 46.72	8.46 54.92	8.02 38.56	5.83 31.80	
Apparel, total do Knit apparel do	² 359.61 184.50	378.52 187.74	22.74 8.77	31.03 12.23	25.64 10.09	26.70 10.51	$29.30 \\ 12.51$	36.66 16.95	41.06 17.68	48.44 21.52	49.85 21.90	40.84 17.30	47.43 22.75	31.96 12.63	25.97 8.36	
WOOL AND MANUFACTURES Wool consumption, mill (clean basis):			410.0	10.0				10.0							11.0	
Apparel class	106.5 10.5 42.3 22.0	113.4 10.0 56.5 26.0	410.0 40.6 4.0 1.6	0.8 6.9	11.0 0.8 7.7 2.5	412.9 40.9 6.6 1.8	10.8 0.7 7.5 1.9	10.2 0.8 8.6 2.4	412.8 40.9 4.9 2.1	8.4 0.8 6.5 2.8	10.1 1.0 5.3 2.5	⁴ 11.4 ¹ 1.1 3.7 1.6	^r 9.4 ^r 1.1 6.0 1.8	9.4 0.7 5.1 2.0	11.2 0.9 5.3 2.0	
Wool prices, raw, shorn, clean basis, delivered to U.S. mills:																
Domestic-Graded territory, 64's, staple 2-3/4" and upcents per lb Australian, 64's, Type 62, duty-paiddo Wool broadwoven goods, exc. felts:	⁵2.18 ⁵2.77	^{\$} 2.45 \$3.09	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	2.83 3.16	2.83 3.17	2.83 3.12	2.7 3.0
Production (qtrly.) mil. sq. yd FLOOR COVERINGS			40.0			53.7									••••••	
Carpet, rugs, carpeting (woven, tufted, other), shipments, quarterly mil. sq. yds	1,206.0	1,082.2	276.9			255.1			284.3							
APPAREL			1													
Women's, misses', juniors' apparel cuttings: Coats	17,394 169,697	19,199 168,383	1,163 9,267	1,280 10,580	1,136 12,246	1,143 14,094	1,457 12,734	1,684 11,150	1,773 11,285	1,595 9,546	1,865 10,687	1,730 10,499	1,672 19,306	969 7,570		
Suits (incl. pant suits, jumpsuits) do Skirts do Blouses	25,275 63,648 24,932	21,140 73,608 25,781	1,229 5,904 1,912	1,371 7,824 2,225	1,404 9,096 2,413	1,411 9,540 2,489	1,306 8,628 2,275	1,308 8,304 2,231	1,391 9,348 2,202	$1,300 \\ 7,164 \\ 2,220$	1,374 7,704 2,373	1,349 7,248 2,790	"1,158 "7,284 "2,549	1,003 6,972 2,060		

See footnotes at end of tables.

February	1982
L'OUL dat y	1004

S-36		SU	JRVE	Y OF	CUR	RENT	BUS	SINES	5					F	ebruar	y 1982
Unless otherwise stated in footnotes below, data	1979	1980	1980						194	31						1982
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
		TI	EXTII	LE PF	RODU	CTS-	-Con	tinue	ed							
APPAREL—Continued Men's apparel cuttings: Suits	'16,175 '15,652 '125,617 '231,818	'14,074 '16,906 '124,011 '253,640	1,105 1,299 7,917 13,005	1,211 1,484 9,025 15,909	1,044 1,637 9,348 12,977	1,294 1,571 10,685 15,990	1,320 1,689 11,204 13,324	1,405 1,536 11,366 12,231	1,432 1,675 10,927 12,240	937 1,262 7,755 11,609	1,287 1,540 11,775 10,795	^{1,330} 1,916 15,387	1,387 1,766 11,438			
Shirts, dress and sport thous. doz. Hosiery, shipmentsthous. doz. pairs	⁷ 39,253 290,453	r40,988 286,379	^{12,409} 21,689	^{72,821} 23,721	⁷ 2,827 24,531	'2,954 24,265	'2,830 26,119	¹ 2,810 25,192	'2,713 26,405	'2,197 30,233	*2,597 26,850	*2,668 26,448	'2,564 27,141	2,391 24,125	19,796	
		TF	ANS	POR	FATI	ON E	QUIF	MEN	T						l	L
AEROSPACE VEHICLES																
Orders, new (net), qtrly, total @ mil. \$ U.S. Government do Prime contract do Sales (net), receipts, or billings, qtrly, totaldo	65,208 28,107 59,611 46,173	70,847 33,222 68,162 57,605	19,355 10,197 18,638 16,433			19,765 9,820 19,244 16,110			20,097 9,742 19,636 19,373			20,833 8,562 20,420 20,525				
U.S. Government	23,229 78,259 36,136 41,286 9,198	26,141 95,371 41,513 47,857 11,655	7,201 95,371 41,513 47,857 11,655			7,467 94,751 39,516 50,051 11,801			7,853 95,537 41,426 49,817 12,592			8,089 95,845 41,899 49,260 13,431				
Missiles, space vehicle systems, engines, propul- sion units, and parts	7,387 10,725	8,855 10,871	8,855 10,871			8,806 11,063			8,428 11,774			8,373 12,110				
Aircraft (complete); Shipments # #do Airframe weight # #thous. lb Exports, commercial ‡‡mil. \$ MOTOR VEHICLES (NEW)	10,881.9 77,327 6,149	13,043.1 97,068 8,250	1,235.7 8,951 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	762.6 5,180 413	812.4 5,299 608	1,329.5 8,413 804	*851.8 *5,373 538	1,129.9 7,329 476	952	
Passenger cars: Factory sales (from U.S. plants), totalthous Domestic do	⁴8,419 ⁴7,678	³ 6,400 5,840	490 452	439 407	475 432	620 565	645 589	670 608	712 652	513 472	345 313	524 487	520 486	'425 394	²350	
Retail sales, total, not seasonally adj †do do Domestics § do Imports § do Total, seas, adjusted at annual rate †mil. Domestics §	10,559 8,232 2,329	8,979 6,581 2,398	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 2.2	"707 497 209 8.2 5.9	801 602 199 10.4 8.2 2.2	*687 519 *168 *8.8 6.7	r649 492 r157 7.2 5.2	585 432 152 7.6 5.4	*523 358 165 7.2 5.0	535 368 166 8.2 5.7
Imports §	1,691 1,667	1,520 1,438	2.5 1,520 1,438	2.5 1,421 1,335	2.9 1,335 1,210	2.6 1,216 1,090	2.3 1,344 1,198	2.2 1,472 1,313	1,665 1,472	2.3 1,675 1,606	1,486 1,558	'2.1 1,427 1,446	2.1 1,481 1,485	2.3 1,490 1,459	2.3 1,471 1,465	
Inventory-retail sales ratio, domestics § † Exports (BuCensus), assembled carsthous To Canada do Imports (BuCensus), complete units # # do From Canada, total	2.6 779.16 590.95 3,005.5 677.0	2.7 607.80 509.13 3,310.7 594.8	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 37.99 34.08 173.7 43.7	3.5 35.22 28.41 236.0 48.8	3.3 29.73 24.95 237.3 58.9	'3.6 29.18 22.37 233.7 45.7	2.8
Registrations ¶, total new vehicles do Imports, incl. domestically sponsored do	10,357 2,351	8,761 2,469	711 188	636 174	675 200	849 226	752 228	731 224	747 223	690 207	721 206	763 209	654 182	614 169	612 184	
Trucks and buses: Factory sales (from U.S. plants), totalthous Domesticdo	3,037 2,741	°1,667 1,464	149 132	140 126	135 118	167 146	162 142	159 139	180 161	127 111	87 75	131 115	165 152	'123 112	²114	²124
Retail sales, seasonally adjusted:† Light-duty, up to 14,000 lbs. GVW do Medium-duty, 14,001-26,000 lbs. GVW do Heavy-duty, 26,001 lbs. and over GVW do	2,861.0 151.6 223.2	1,963.5 92.3 175.7	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	150.3 5.9 13.3	127.2 4.9 11.4	130.8 4.3 11.2	114.2 5.3 13.6	
Retail inventories, end of period, seasonally adjustedtthous Exports (BuCensus), assembled unitsdo Imports (BuCensus), including separate chassis and bodiesthous	803.4 259.44 974.13	574.0 *190.32 1,133.28	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	516.2 11.16 64.53	548.2 11.95 78.55	547.5 10.77 69.97	575.5 8.97 72.29	
Registrations, new vehicles, excluding buses not produced on truck chassisthous	3,472	2,477	191	162	163	176	186	198	201	190	194	196	171	169	180	
Truck trailers and chassis, complete (excludes detachables), shipmentsdo Vansdo Trailer bodies (detachable), sold separately do Trailer chassis (detachable), sold separately do	209,522 138,484 9,154 14,700	125,278 75,172 11,849 14,202	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	11,311 6,710 696 1,077	8,913 4,826 459 849	9,770 6,061 340 1,189	10,533 6,854 387 767	11,051 7,378 542 855	9,474 6,159 404 1,062	9,585 5,644 346 499	
RAILROAD EQUIPMENT Freight cars (new), for domestic use; all railroads and private car lines (excludes rebuilt cars and cars for export):			:											1		
Shipments number. Equipment manufacturers do New orders do Equipment manufacturers do Unfilled orders, end of period. do Equipment manufacturers. do	¹ 90,021 ¹ 83,931 ¹ 119,091 ¹ 113,060 119,001 112,749	¹ 85,920 ¹ 80,357 ¹ 45,390 ¹ 40,140 ¹ 52,370 ¹ 47,866	5,530 5,151 4,722 4,722 r52,370 r47,866	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	3,529 3,299 1,743 1,743 21,852 19,837	2,900 2,656 1,013 638 18,831 16,685	2,063 1,839 860 860 17,724 15,802	2,711 2,455 1,811 1,811 16,485 14,819	
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	1,168 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 80.00	1,122 7.2 89.83 80.08	1,119 7.2 90.00 80.41	1,116 7.0 89.64 80.30	1,111 6.9	

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 Oct.-Dec. 1981 and Jan.-Mar. 1982 based on planned capital expenditures of business. Planned capital expenditures for the year 1981 appear on p. 30 of the Dec. 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

SURVEY. ¶ 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 are available 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-4. § 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. For wholesale see note "+" for p. S-9. 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 Jan., Apr., July and Oct. 1981, Jan. 1982 are for five weeks; other months four weeks.

Page S-9

1. Index as of Feb. 1, 1982: building, 325.7; construction, 347.8.

¶ 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 sales

* 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.

2. 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 February 1982 SURVEY, the labor force series have been revised back to 1970 to reflect the 1980 Census of Population. Seasonal adjustment factors were revised accordingly. Revised monthly series appear in the February 1982 issue of Employment and Earnings, Revised annual series will appear in the March 1982 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 Feb. 1, 1982: Common, \$13.83; Skilled, \$17.99.

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 period

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, maturity is for 180 days

@ 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

2. Beginning Oct. 1981, data represent the total deficit (budget deficit plus off-budget deficit).

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.

2. Total for 11 months; production not available for Aug.

3. M1-A has been discontinued. M1-B will now be designated "M1."

§ Or increase in earmarked gold (-).

+ Effective Feb. 1982 SURVEY, the money stock measures and components have been revised back to 1959. 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:

MI-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 deposits

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 savings 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 denomina-

tions 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 items.

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.

3 Before extraordinary and prior period items.

4 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 service.

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.

See note "¶" for this page.

 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

See note "@@" for this page.

Crop estimate for the year.

Stocks as of June 1.

Stocks as of June 1 and represents previous year's crop; new crop not reported until 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. 6.

Crop estimate for 1981.

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

Average for 11 months; price not available for Dec. 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.

4. Data are no longer available.

Cases of 30 dozen.

Bags of 132.276 lbs

‡ Revisions for Jan.-July 1979 (back to 1975 for grindings of wheat) are available upon request

@ 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.

3

SURVEY OF CURRENT BUSINESS

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.

Reported annual total; not distributed to the months.

- 4. Crop estimate for 1981.
- § 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. Effective Jan. 1981, data are revised back to Jan. 1980. Inventory data formerly calculated by the Bureau of the Census are now based on the Steel Service Center Institute monthly Business Conditions report.

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.

For month shown.

Includes secondary smelters' lead stocks in refinery shapes and in copper-base scrap. @ All data (except annual production figures) reflect GSA remelted zinc and zinc purchased for direct shipment

‡ 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

Data are available back to Oct. 1977.
 Beginning Jan. 1979, data reflect coverage of additional processing facilities; not strictly

comparable with data shown for earlier periods.

Beginning 1981, data are for quarterly intervals.
 Based on new 1981 stock level. See also note "‡" 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-

able upon request.

§ Includes nonmarketable catalyst coke.

¶ Includes small amounts of "other hydrocarbons and hydrogen refinery input," not shown separately.

+ 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

S-39

- 1. Less than 50 thousand barrels.
- See note 4 for p. S-31. 2
- 3 Reported annual totals; revisions not allocated to the months.

 See note "¶" for this page.
 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.

Simple averages of prices are no longer available.

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; revisions 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 Association.

§ 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. 4

Shipments of wide-mouth containers for "chemicals, household and industrial" are included in shipments for "medicinal and toilet" containers

* 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.

3.

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. 8.

Bales of 480 lbs.

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.

2. 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

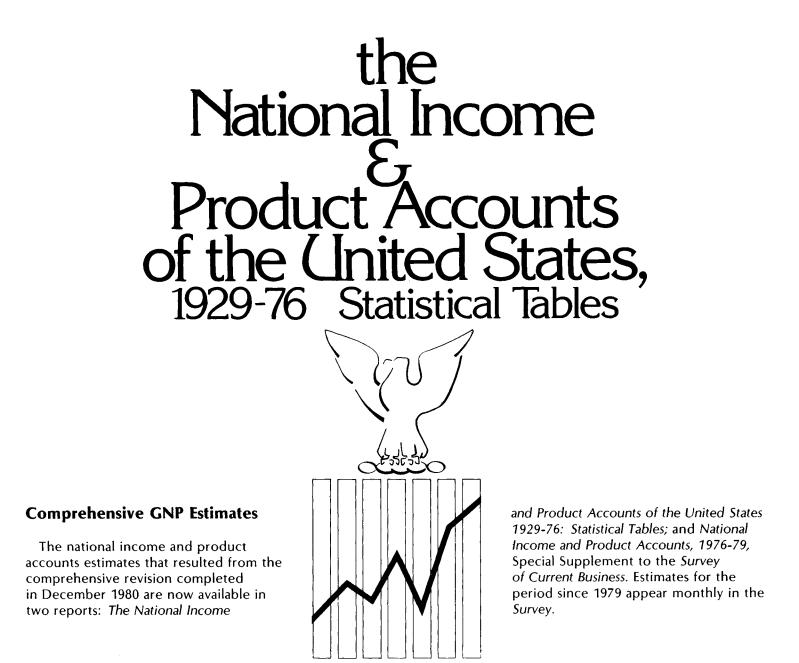
are not available, month-to-month comparisons are not strictly valid.

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" mil. \$.

Revisions back to 1977 are available upon request.



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Income and employment tax recepts. Industrial production indexes: By industry	10 3 2,3 11,16 15 15 15 15 15 16 29,30 44 25 29,30 14,15 29,30 14,15 29,30 9,15 31,32 3,13,25 9,15 31,32 3,13,25 3,12,45 16 9,12,13 16 16 15 16 16 16 16 16 16 16 16 16 16
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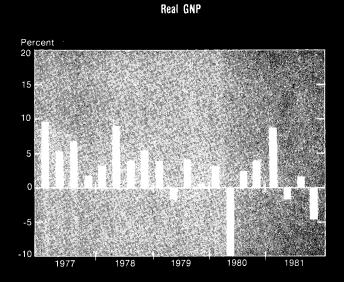


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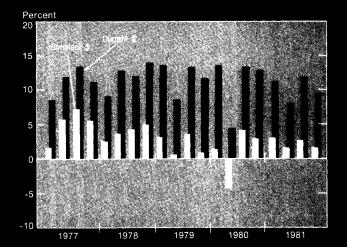


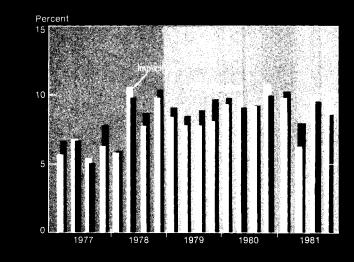
In the fourth quarter

- Real GNP declined 4 ½ percent
 GNP fixed-weighted price index increased 8 ½ percent
- Real disposable personal income increased $1\frac{1}{2}$ percent

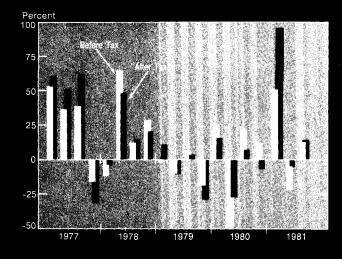








Corporate Profits With IVA and CCAdj



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GNP Prices