FEBRUARY 1983 / VOLUME 63 NUMBER



SURVEY OF CURRENT BUSINESS

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UNITED STATES DEPARTMENT OF COMMERCE / BUREAU OF ECONOMIC ANALYSIS

FEBRUARY 1983 / VOLUME 63 NUMBER

SURVEY OF CURRENT BUSINESS

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Bureau of Economic Analysis

George Jaszi / Director

Allan H. Young / Deputy Director

Carol S. Carson / Editor-in-Chief, Survey of Current Business Manuscript Editor: Dannelet A. Grosvenor Managing Editor: Patti A. Trujillo

Staff Contributors to This Issue: Bruce E. Baker, Leo M. Bernstein, James C. Byrnes, Anthony Eckman, Douglas R. Fox, Karl D. Galbraith, John C. Hinrichs, Albert A. Hirsch, Ned G. Howenstine, Susan Lease-Trevathan, John Mon, Martin Murphy, Gary L. Rutledge, Charles A. Waite, Joseph C. Wakefield

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the BUSINESS SITUATION

KEVISED (45-day) estimates show that real GNP declined 2 percent at an annual rate in the fourth quarter of 1982, compared with the 2½-percent decline shown by the preliminary (15day) estimates (table 1). Revisions in the major components were small. Upward revisions were in nonresidential investment (largely in aircraft shipments), residential investment (due to lower estimates for housing prices), net exports (merchandise imports were revised down more than were merchandise exports), and government purchases (Federal nondefense purchases). Downward revisions were in personal consumption expenditures (mainly food and motor vehicles) and change in business inventories (down for manufacturing and up for retail trade). The increase in prices as measured by the GNP fixedweighted price index was revised down from 5 to 4½ percent.

The revisions in the fourth-quarter real GNP estimates do not alter the picture of economic activity described in the January "Business Situation." The decline in GNP was more than accounted for by a large swing in business inventories, from modest accumulation in the third quarter to substantial decumulation in the fourth. Final sales were up sharply; personal consumption expenditures and government purchases increased more than in the third quarter, and residential investment turned around. Nonresidential fixed investment and net exports continued to slide. The increase in GNP prices remained in the range of 4 to 6 percent.

The discussion of inventories in the "Business Situation" re-January ferred to the constant-dollar ratios of inventories to final sales and to final sales of goods and structures. Subsequently, a revision of an alternative series, constant-dollar ratios of inventories to sales for manufacturing and trade, has been completed. (Revised series for 1977-82 appear on pages 44-49 of this issue.) These ratios show that, in contrast to the declines shown in the final-sales ratios, inventories remained high relative to sales in the fourth quarter. Because the inventory movements in the two series were quite similar, the contrast is traceable to differences in the movement of sales. As just noted, final sales were up sharply in the fourth quarter, but sales for manufacturing and trade (specifically, sales for manufacturing and merchant wholesale trade, which are largely intermediate) declined.

1

Table 1.—Revisions in Selected Component Series of the NIPA's Fourth Quarter of 1982

	Seasonall	ly adjusted rates	at annual	from pi	change eceding at annual
	15-dav	45 4			tes
	estimate	45-day estimate	Revision	15-day estimate	45-day estimate
	Billion	s of current	dollars		
GNP	3,101.3	3,101.4	0.1	1.7	1.7
Personal consumption expenditures Nonresidential fixed investment Residential investment Change in business inventories Net exports	336.6 99.8 	2,031.5 336.9 99.8 -44.2 .8	-3.1 .3 0 -5.7 7.7	10.1 8.6 25.1	9.4 —8.3 25.0
Government purchases	675.7	676.7	i.ö	15.6	16.3
National income Compensation of employees Corporate profits with inventory valuation and capital consumption adjustments.	1,873.7	1,875.9	2.2	1.2	1.6
Other	429.0	429.6	.6	7.7	8.4
Personal income	2,623.2	2,626.9	3.7	4.8	5.4
	Billions	s of constar dollars	t (1972)		. *
GNP	1,471.7	1,473.9	2.2	-2.5	-1.9
Personal consumption expenditures Nonresidential fixed investment Residential investment Change in business inventories	968.0 159.6 41.7 -17.7	967.5 160.0 42.5 	5 .4 .8 -1.0	5.0 -9.0 23.7	4.8 8.0 34.3
Net exports Government purchases	21.1 299.0	23.3 299.2	2.2 .2	11.3	11.6
	Index n	umbers, 19	72=100 ¹		
GNP implicit price deflator GNP fixed-weighted price index GNP chain price index	210.73 218.8	210.42 218.5	31 3	4.3 5.2 5.2	3.7 4.6 4.9

1. Not at annual rates.

1. Not at annual rates. Norz.—For the fourth quarter of 1982, 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, onstruction put in place for November (revised) and December; for change in business inventories, book values for manufacturing and trade for November (revised) and December; for succes, 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; for succes, merchandise trade for November (revised) and December; for succes, merchandise trade for November (revised) and December; for useds and services, merchandise trade for November (revised) and December; for suges and salaries, revised employment, average hourly earnings, and average weekly hours for October and November; for GNP prices, the Consumer and Producer Price Indexes for December, unit value indexes for exports and imports for December; and residential housing prices for the quarter.

703.1 114.9

1,450.6 1,469.3

703.6 112.5

1,453.7 1,450.3

Selected National Income and Product Accounts Tables

New estimates in this issue: Fourth quarter	and annua	al 1982, revised.
The abbreviations used in the tables are:	CCAdj	Capital consumption adjustment
	IVA	Inventory valuation adjustment
	NIPA's	National income and product accounts
	р	Preliminary
	r	Revised

The NIPA estimates for 1929-76 are in *The National Income and Product Accounts of the United States*, 1929-76: Statistical Tables (Stock No. 003-010-00101-1, price \$10.00). Estimates for 1977-81 and corrections for earlier years are in the July 1982 SURVEY. These publications are available from the Superintendent of Documents and Commerce Department District Offices; see addresses inside front cover.

Table	1.1-1.	2.—Gro	oss Nat	ional l	Produc	t in Cu	rrent a	and Co	nstant	Dollar	s					
<u></u>				Billions (of dollars						Bi	llions of	1972 dolla	ars		
				Seasonal	ly adjuste	ed at ann	ual rates	I., .				Seasonal	ly adjust	ed at anr	ual rates	8
	1981	1982 r	19	81	1	19	82		1981	1982 7	19	981		19	982	
			ш	IV	I	п	ш	IV r			ш	IV	I	п	ш	IV '
Gross national product	2,937.7	3,057.6	2,980.9	3,003.2	2,995.5	3,045.2	3,088.2	3,101.4	1,502.6	1,476.0	1,510.4	1,490.1	1,470.7	1,478.4	1,481.1	1,473.9
Personal consumption expenditures	1,843.2	1,971.3	1,868.8	1,884.5	1,919.4	1,947.8	1,986.3	2,031.5	917.6	957.0	951.4	943.4	949.1	955.0	956.3	967.5
Durable goods	234.6	242.5	241.2	229.6	237.9	240.7	240.3	251.2	149.0	138.7	142.2	134.1	137.5	138.3	136.4	142.6
Nondurable goods	734.5	762.0	741.3	746.5	749.1	755.0	768.4	775.3	362.4	365.0	363.0	363.1	362.2	364.5	365.9	367.5
Services	874.1	966.8	886.3	908.3	932.4	952.1	977.6	1,005.0	445.2	453.3	446.2	446.2	449.5	452.2	454.0	457.4
Gross private domestic investment	471.5	420.5	486.0	468.9	414.8	431.5	443.3	392.4	225.8	197.0	233.4	218.9	195.4	202.3	206.3	183.8
Fixed investment	451.1	443.3	454.2	455.7	450.4	447.7	438.6	436.6	216.9	205.7	216.9	214.1	210.8	206.7	202.9	202.6
Nonresidential Structures	346.1 129.7	347.6 141.4	$353.0 \\ 132.7$	360.2 139.6	357.0 141.4	352.2 143.6	344.2 141.3	336.9 139.2	172.0 51.6	$165.5 \\ 53.1$	173.9 52.5	174.2	172.0 53.5	166.7 53.7	163.4 53.0	160.0 52.2
Producers' durable equipment	216.4	206.2	220.2	220.6	215.6	208.6	203.0	197.7	120.4	112.4	121.4	120.9	118.5	113.0	110.4	107.9
Residential	104.9	95.8	101.2	95.5	93.4	95.5	94.3	99.8	44.9	40.2	42.9	39.9	38.9	40.1	39.5	42.5
Nonfarm structures	99.7 2.1	90.1 2.5	95.6 2.4	89.4 2.9	87.9 2.4	89.6 2.8	88.7	94.1 2.4	.9 2.0	37.3 1.0	39.9 1.0	36.7 1.2	36.0	37.0	36.6 1.0	39.6 1.0
Farm structures Producers' durable equipment		3.2	3.2	3.2	3.1	3.2	88.7 2.4 3.2	3.2	2.0	1.9	2.0	2.0	1.0	1.9	1.0	1.9
Change in business inventories	20.5	-22.8 -23.1	31.8	13.2	-35.6	-16.2	4.7	-44.2	6.8	-8.8	16.5	4.8	-15.4	-4.4	3.4	-18.7
Nonfarm	15.0		24.6	6.0	-36.0	-15.0	3.7	-45.3	6.8	-8.9	13.6	1.6	-15.6	-3.8	2.9	- 19.2
Farm	5.5	.3	7.2	7.2	.4	-1.2	1.0	1.1	2.1	.2	3.0	3.2	.2	6	.5	.5
Net exports of goods and services	26.1	18.5	25.9	23.5	31.3	34.9	6.9	.8	42.0	30.9	39.2	36.5	36.9	35.7	27.5	23.3
Exports Imports	367.3 341.3	349.2 330.7	367.2 341.3	367.9 344.4	359.9 328.6	365.8 330.9	349.5 342.5	321.5 320.7	158.5 116.4	147.3 116.4	157.8 118.7	156.9 120.4	151.7 114.7	154.4 118.7	147.5 120.0	135.5 112.2
Government purchases of goods and services	596.9	647.3	600.2	626.3	630.1	630.9	651.7	676.7	287.1	291.2	286.4	291.3	289.2	285.3	291.1	299.2
Federal	228.9	257.7	230.0	250.5	249.7	244.3	259.0	277.9	110.4	116.2	110.7	116.0	114.4	110.3	116.2	124.1
National defense	153.7	178.6	154.4	166.9	166.2	176.2	182.7	189.4	73.5	78.6	74.3	76.1	74.5	78.2	80.6	81.2
Nondefense	75.2 368.0	79.1 389.6	$75.7 \\ 370.1$	83.6 375.7	83.5 380.4	68.2 386.6	76.3 392.7	88.5 398.9	36.8	37.6	36.5	39.9	39.8 174.9	32.1 175.0	35.5 174.9	42.9
State and local	308.0	389.0	510.1	319.4	300.4	0.006	392.1	990.9	176.7	175.0	175.7	175.3	1/4.9	110.0	114.9	110.1
Table 1.3–1.4.—Gro	oss Nat	ional F	roduc	t by Ma	ajor Ty	pe of l	Produc	t in Cu	rrent a	and Co	nstant	Dollar	s .			
Gross national product	2,937.7	3,057.6	2,980.9	3,003.2	2,995.5	3,045.2	3,088.2	3,101.4	1,502.6	1,476.0	1,510.4	1,490.1	1,470.7	1,478.4	1,481.1	1,473.9
Final sales Change in business inventories	2,917.3 20.5	3,080.4 -22.8	2,949.1 31.8	2,989.9 13.2	3,031.1 35.6	3,061.4 -16.2	3,083.5 4.7	3,145.6 -44.2	1,493.7 9.0	1,484.8 -8.8	1,493.9 16.5	1,485.3 4.8	1,486.1 -15.4	1,482.7 -4.4	1,477.8 3.4	1,492.6 18.7
Goods	1,289.2	1,280.9	1,317.0	1,298.4	1,269.4	1,283.1	1,295.5	1,275.7	689.5	661.5	697.2	678.0	661.8	663.2	665.1	655.8
Final sales Change in business inventories	1,268.7 20.5	1,303.7 -22.8	1,285.1 31.8	1,285.2 13.2	1,305.0 -35.6	1,299.3 -16.2	1,290.7 4.7	1,319.9 -44.2	680.5 9.0	670.3 -8.8	680.7 16.5	673.2 4.8	677.2 -15.4	667.5 -4.4	661.7 3.4	674.5 -18.7
Durable goods	528.1	493.7	547.3	504.9	482.4	505.9	516.9	469.5	293.1	266.2	298.8	275.1	265.0	272.3	274.0	253.4
Final sales	519.4	512.0	527.5	510.5	513.2	512.6	506.8	515.3	289.3	273.8	290.2	277.6	278.7	274.9	269.2	272.6
Change in business inventories	8.7 761.1	18.3 787.2	19.8 769.7	5.6 793.6	-30.9	-6.6	10.1 778.6	-45.8 806.2	3.8	-7.7 395.3	8.6	-2.5	-13.7	-2.6	4.8	-19.2
Nondurable goods Final sales	749.4	791.8	757.6	793.6	791.8	786.7	783.9	806.2	391.2 391.2	395.3	398.4 390.5	402.9	396.8 398.5	390.9 392.6	391.1 392.5	402.4 402.0
Change in business inventories	11.7	-4.5	12.0	18.9	-4.8	-9.6	-5.4	1.6	5.1	-1.1	7.9	7.3	-1.7	-1.7	-1.5	.5
-	1		1							1			1			

1,492.4 284.3 1,382.1 281.9 1,444.4 281.7 1,538.7 287.0 695.6 117.6 701.5 113.1 1,421.5 283.3 1,476.7 285.3 1,509.5 283.2 697.5 115.7 702.2 113.0 Services Structures 1,364.3 284.2 698.6 113.4 697.0 111.9 Addenda: Gross domestic purchases ¹..... Final sales to domestic purchasers ¹. 2,911.7 2,891.2 3,039.1 3,061.9 2,955.0 2,923.2 3,010.3 3,026.5 3,081.3 3,076.6 1,460.6 1,451.6 1,445.2 1,454.0 1,471.2 1,454.7 1,453.6 1,448.8 1,433.8 1,442.6 1,449.2 1,447.0 2,979.7 2,966.5 2,964.2 2,999.8 3,100.6 3,144.8 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

Gross national product	2,937.7	3,057.6	2,980.9	3,003.2	2,995.5	3,045.2	3,088.2	3,101.4	1,502.6	1,476.0	1,510.4	1,490.1	1,470.7	1,478.4	1,481.1	1,473.9
Gross domestic product Business. Nonfarm less housing Housing Farm	2,888.5 2,492.4 2,418.5 2,188.9 229.6 75.8 -1.9 96.4	3,012.0 2,582.6 2,506.8 2,257.1 249.7 75.6 .2 106.8	2,931.2 2,533.9 2,454.7 2,223.0 231.7 80.1 8 97.1	2,949.8 2,538.6 2,467.4 2,229.9 237.4 78.4 -7.2 100.3	2,949.6 2,530.6 2,465.1 2,222.8 242.3 72.9 -7.5 103.3	2,995.7 2,570.1 2,494.4 2,247.9 246.5 74.8 .8 105.3	3,041.6 2,610.0 2,530.2 2,278.0 252.3 76.1 3.6 107.9	3,061.0 2,619.6 2,537.4 2,279.7 257.7 78.7 3.6 110.6	$\begin{array}{r} \textbf{1,447.2} \\ \textbf{1,274.3} \\ \textbf{1,236.8} \\ \textbf{1,105.5} \\ \textbf{131.4} \\ \textbf{38.4} \\ \textbf{9} \\ \textbf{46.9} \end{array}$	$\begin{array}{c} \textbf{1,453.8} \\ \textbf{1,250.3} \\ \textbf{1,210.3} \\ \textbf{1,077.4} \\ \textbf{132.8} \\ \textbf{40.0} \\ 0 \\ \textbf{48.1} \end{array}$	1,485.0 1,282.4 1,241.9 1,110.6 131.3 40.9 4 46.7	$\begin{array}{c} \textbf{1,463.3} \\ \textbf{1,260.2} \\ \textbf{1,221.5} \\ \textbf{1,089.9} \\ \textbf{131.6} \\ \textbf{42.3} \\ \textbf{-3.6} \\ \textbf{47.4} \end{array}$	1,448.0 1,244.4 1,210.0 1,077.9 132.0 38.1 3.7 47.8	1,454.1 1,250.5 1,212.2 1,079.5 132.6 38.0 .4 47.9	1,458.6 1,255.4 1,214.4 1,081.3 133.1 39.3 1.7 48.0	1,454.6 1,250.8 1,204.5 1,070.9 133.5 44.6 1.7 48.6
Private households Nonprofit institutions	92.3 207.4 49.2	7.1 99.6 322.7 99.8 222.9 45.6	7.1 90.1 300.1 91.0 209.2 49.7	7.1 93.3 310.9 97.9 213.0 53.3	7.1 96.2 315.8 98.6 217.1 45.8	7.1 98.2 320.3 98.9 221.4 49.5	7.1 100.8 323.8 99.1 224.7 46.6	7.2 103.4 330.9 102.4 228.4 40.4	3.3 43.6 156.0 49.7 106.3 25.4 1,141.4	8.1 45.0 155.4 49.8 105.6 22.2	3.8 43.5 155.9 49.8 106.1 25.4	3.2 44.1 155.8 49.8 106.0 26.7	3.1 44.7 155.7 49.8 106.0 22.7	3.1 44.8 155.7 49.8 105.9 24.2	3.1 44.9 155.2 49.8 105.4 22.5	3.1 45.5 155.2 49.9 105.3 19.3

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 dollar:	3							Billions	of dollars	3		
				Seasonal	ly adjust	ed at ani	nual rate	·s				. 8	Seasonall	y adjust	ed at anı	nual rate	:S
	1981	1982 [,]	19	81		19	82			1981	1 1982 r 1		81		19	82	
			ш	IV	I	п	ш	IV '				ш	IV	I	п	ш	IV
Gross domestic prod- uct of corporate business	1,837.1	1,892.8	1,867.8	1,873.1	1,863.1	1,882.7	1,911.2		Net domestic product Indirect business tax and nontax liability plus	1,536.5	1,565.5	1,564.5	1,562.0	1,548.8	1,559.0	1,578.4	
apital consumption allow- ances with CCAdj	206.2	225.1	209.7	216.0	218.9	223.4	227.5	230.4	business transfer pay- ments less subsidies Domestic income	178.3 1,358.2	182.1 1,383.5	179.9 1,384.5	181.3 1,380.8	176.3 1,372.4	181.2 1,377.8	184.2 1,394.2	
et domestic product Indirect business tax and nontax liability plus	1,630.9	1,667.7	1,658.1	1,657.1	1,644.2	1,659.3	1,683.7		Compensation of em- ployees Wages and salaries	1,150.1 962.9	1,189.6 990.2	1,167.0 977.7	1,174.5 982.7	1,181.6 985.3	1,190.4 991.4	1,195.8 995.0	
business transfer pay- ments less subsidies	186.1	190.0	187.8	189.1	184.0	189.1	192.2	194.6	Supplements to wages and salaries Corporate profits with	187.1 145.6	199.4	189.3 151.8	191.9 138.2	196.4 120.3	198.9 114.8	200.8 125.3	
Domestic income Compensation of em- ployees	1,444.8 1,224.5	1,477.8 1,271.2	1,470.3 1,242.5	1,468.0 1,251.5 1,046.6	1,460.2 1,259.5	1,470.3 1,270.7	1,491.4 1,278.7 1,063.4	1,276.0 1,059.4	IVA and CCAdj Profits before tax Profits tax liability	186.6	121.5 135.8 40.3	151.8 191.5 65.5	138.2 170.5 54.8	120.3 134.8 38.9	114.8 131.3 37.1	125.3 139.8 42.1	
Wages and salaries Supplements to wages and salaries Corporate profits with	1,024.8 199.7	1,057.6 213.6	1,040.5 202.1	204.9	1,049.7 209.8	1,057.8 212.9	215.3	216.5	Profits after tax Dividends Undistributed	63.3 123.3 52.9	40.3 95.6 61.2	126.0 54.4	115.7 56.7	95.8 58.0	94.2 59.7	97.6 62.6	
IVA and CCAdj	167.8 209.3	144.3 158.4	172.2 212.3	158.3 190.9	140.2 154.7	137.2 158.5	149.9 164.0		profits IVA	70.3 -24.6 16.3	34.3 9.3 5.1	71.6 -23.0 -16.7	58.9 -17.1 -15.1	37.8 -4.4 -10.0	34.5 -9.4 -7.1	35.0 -10.3 -4.2	-1
Profits tax liability Profits after tax Dividends	81.2 128.1 50.8	58.5 99.9 59.3	82.4 129.8 52.7	71.6 119.3 54.6	56.7 98.1 56.0	55.3 98.2 58.0	60.9 103.1 60.6		CCAdj Net interest	62.5		65.7	68.1	70.5	72.6	73.1	
Undistributed								"02. 3				Bil	lions of 1	1972 doll	ars		
profits IVA CCAdj Net interest Grossdomestic	77.3 24.6 16.8 52.5	40.6 9.3 4.8 62.2	77.1 -23.0 -17.1 55.6	64.7 -17.1 -15.5 58.3	42.0 -4.4 -10.1 60.5	40.2 9.4 6.9 62.4	42.4 10.3 3.8 62.8	-12.9 1.5 63.3	Gross domestic prod- uct of nonfinancial corporate business	881.3	856.7	887.5	870.4	858.8	857.9	859.3	
product of finan- cial corporate business	104.8	113.6	104.2	106.0	106.6	111.7	116.8		Capital consumption allow- ances with CCAdj	94.3	98.6	94.9	96.0	97.0	98.1	99.2	10
Gross domestic product of non- financial corpo-									Net domestic product Indirect business tax and nontax liability plus	787.0	758.0	792.6	774.5	761.8	759.8	760.1	
rate business bital consumption allow- nces with CCAdj	1,732.3 195.8	1,779.2 213.6	1,763.6 199.1	1,767.2 205.1	1,756.6 207.8	1,771.0 212.1	1,794.4 216.0	 218.7	business transfer pay- ments less subsidies Domestic income	94.7 692.2	94.8 663.3	95.2 697.4	94.7 679.8	94.6 667.2	95.0 664.8	94.6 665.5	

Table 1.11.—National Income by Type of Income

Table 1.11.—National income by Type of Income													
National income	2,352.5	2,436.6	2,387.3	2,404.5	2,396.9	2,425.2	2,455.6						
Compensation of employ-		ļ											
ees	1,767.6	1,856.4	1,789.1	1,813.4	1,830.8	1,850.7	1,868.3						
Wages and salaries	1,494.0	1,560.6	1,512.6	1,531.1	1,541.5	1,556.6	1,570.0	1,574.3					
Government and gov-			004.0	292.3	296.3	300.0	303.5	309.					
ernment enterprises	283.1 1.210.9	302.3 1.258.3	284.0 1.228.6	1.238.8	1,245.2	1,256.6	1,266.4	1,265.					
Other	1,210.9	1,208.3	1,228.0	1,200.0	1,240.2	1,200.0	1,200.4	1,200.					
Supplements to wages and salaries	273.6	295.8	276.5	282.3	289.3	294.1	298.3	301.					
Employer contribu-	2.0.0	200.0	210.0	000.0	200.0	2011		001					
tions for social in-)						1					
surance	133.2	142.1	134.3	136.5	140.2	141.7	142.8	143.					
Other labor income	140.4	153.8	142.2	145.8	149.1	152.5	155.5	157.					
Proprietors' income with													
IVA and CCAdj	124.7	120.4	127.5	124.1	116.4	117.3	118.4	129.					
Farm	24.0	19.1	27.1	24.6	17.8	17.4	16.6	24.					
Proprietors' income					· .								
with IVA		27.2	35.1	32.8	26.0	25.5	24.7	32.					
CCAdj		-8.1	-8.0	-8.2	-8.2	-8.1	-8.1	-8.					
Nonfarm		101.3	100.4	99.5	98.6	99.9	101.7	104. 95.					
Proprietors' income	100.3 -1.6	94.5 6	99.3 1.2	97.7 1.2	93.8 0	94.5 	94.4 5	95.					
IVA			1.2	-1.2 3.0	4.7	-1.0	5	10.					
CCAdj	4.1	7.3	2.0	0.0	4.(0.4	1.5	10.4					
Rental income of persons with CCAdj	33.9	34.1	33.6	33.6	33.9	34.2	34.6	33.					
Rental income of per-													
80 ns	69.4	70.4	69.5	70.5	71.0	70.7	70.9	69.5					
CCAdj	-35.5	-36.3	-35.9	36.9	-37.1	-36.4	- 36.3	35.4					
Corporate profits with IVA and CCAdj	190.6	160.5	193.1	183.9	157.1	155.4	166.2						
Corporate profits with													
IVA	207.5	165.3	210.3	199.4	167.2	162.2	170.0						
Profits before tax	232.1	174.6	233.3	216.5	171.6	171.7	180.3						
Profits tax liability	81.2	58.5	82.4	71.6	56.7	55.3	60.9						
Profits after tax		116.1	150.8	144.9	115.0 68.8	116.3 69.3	119.4	70					
Dividends	65.1	70.3	66.8	68.1	00.0	09.3	70.5	72.4					
Undistributed profits	85.8	45.9	84.0	76.9	46.1	47.0	48.8						
IVA		-9.3	-23.0	-17.1	-4.4	9.4	-10.3	-12.9					
CCAdi	-16.8	-4.8	-17.1	-15.5	-10.1	-6.9	-3.8	1.					
•													
Net interest	235.7	265.2	244.0	249.5	258.7	267.5	268.1	266.4					
Addenda:				· · ·									
Corporate profits after													
tax with IVA and													
CCAdj	109.5	102.0	110.7	112.3	100.4	100.0	105.3						
Dividends	65.1	70.3	66.8	68.1	68.8	69.3	70.5	72.4					
Undistributed profits	ا بير ا	01.0	40.0										
with IVA and CCAdj	44.4	31.8	43.9	44.3	31.6	30.7	34.8						

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

				Billions	of dollar	B		
				Seasonal	ly adjust	ed at an	nual rate	19
	1981	1982 7	19	81		19	82	
			ш	īV	I	n	ш	IV '
Gross national product	2,937.7	3,057.6	2,980.9	3,003.2	2,995.5	3,045.2	3,088.2	3,101.4
Less:								
Capital consumption al-		1	•		i	1.	1	
lowances with CCAdj Capital consumption al-	330.1	356.3	335.2	344.8	348.7	353.9	359.4	363.
lowances	267.5	309.8	271.9	282.6	293.4	304.4	314.6	326.7
Less: CCAdj	62.6	-46.5	-63.2	-62.2		-49.6	-44.8	
Equals: Net national prod-								
uct	2,607.9	2,701.3	2,645.8	2,658.4	2,646.7	2,691.2	2,728.9	2,738.2
Less:						ĺ		ĺ
Indirect business tax and			[1		· ·
nontax liability	251.3	258.7	253.3	255.3	250.2	256.7	261.7	266.1
Business transfer pay-	12.4	13.7	12.5	12.8	13.1	13.5	13.8	14.8
ments Statistical discrepancy	-1.9	13.7	12.5	-7.2			13.8	
Plus: Subsidies less current	-1.0		0	-1.4	-1.0		0.0	
surplus of government								
enterprises	6.6	7.8	6.5	7.0	6.0	4.9	5.8	14.6
Equals: National income	2,352.5	2,436.6	2,387.3	2,404.5	2,396.9	2,425.2	2,455.6	
Less:			· ·					
Corporate profits with								ļ
IVA and CCAdj	190.6	160.5	193.1	183.9	157.1	155.4	166.2	
Net interest	235.7	265.2	244.0	249.5	258.7	267.5	268.1	266.4
Contributions for social insurance	238.1	253.8	240.3	243.5	250.8	253.0	255.2	256.1
Wage accruals less dis-	400.1	200.0	240.0	240.0	200.0	200.0	400.4	200.1
bursements	0	0	.2	1	2	0	0	0
Plus:					1			
Government transfer pay-	000 0	001 0	000 0	007 0	0.41		000 0	000 7
ments to persons Personal interest income	323.9 329.0	361.0 371.8	332.3 339.6	337.9 351.0	341.4 359.7	351.7 372.0	367.2	383.6 377.2
Personal dividend income	529.0 62.5	67.0	539.0 64.1	351.0 65.2	359.7 65.8		378.2 67.2	68.8
Business transfer pav-	02.0	01.0	0.1	00.2	00.0	, 00.1	01.2	00.0
ments	12.4	13.7	12.5	12.8	13.1	13.5	13.8	14.3
					1.1.1			
Equals: Personal income	2,415.8	2,570.6	2,458.2	2,494.6	2,510.5	2,552.7	2,592.5	2,626.9

IV '

Table 2.1.—Personal Income and Its Disposition

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

1981

1982 י

1981

ш

IV

Billions of dollars

Seasonally adjusted at annual rates

I

1982

ш

II

· · · · · · · · · · · · · · · · · · ·	Billions of dollars												
			Se	easonall	y adjuste	ed at an	nual rat	es					
	1981	1982'	19	81		19	82						
			m	IV	I	п	ш	IV ^r					
Personal income	2,415.8	2,570.6	2,458.2	2,494.6	2,510.5	2,552.7	2,592.5	2,626.9					
Wage and salary disbursements Commodity-producing			1,512.3					1,574.3					
industries Manufacturing	510.8 386.4	509.9 382.6	519.3 392.9	517.7 388.7	514.3 385.1	513.6 385.6	510.2 383.8	501.5 375.8					
Distributive industries	361.4	376.0	366.5	368.3	371.4	375.4	378.4	378.6					
Service industries Government and government	338.6	372.5	342.8	352.8	359.5	367.6	377.8	385.0					
enterprises	283.1	302.3	283.8	292.4	296.5	300.0	303.5	309.2					
Other labor income	140.4	153.8	142.2	145.8	149.1	152.5	155.5	157.9					
Proprietors' income with IVA	104.7	190.4	107 7	104.1	110.4		110.4	100 1					
and CCAdj Farm	124.7 24.0	120.4 19.1	127.5 27.1	124.1 24.6	116.4 17.8	117.3 17.4	118.4 16.6	129.1 24.4					
Nonfarm	100.7	101.3	100.4	99.5	98.6	99.9	101.7	104.9					
Rental income of persons with CCAdj	33.9	34.1	33.6	33.6	33.9	34.2	34.6	33.9					
Personal dividend income	62.5	67.0	64.1	65.2	65.8	66.1	67.2	68.8					
Personal interest income	329.0	371.8	339.6	351.0	359.7	372.0	378.2	377.2					
Transfer payments	336.3	374.7	344.8	350.7	354.6	365.2	381.0	397.8					
Old-age, survivors, disability, and health insurance bene-	· ·												
fits	182.0	204.5	190.6	192.8	194.7	197.5	209.2	216.6					
Government unemployment insurance benefits	15.4	24.9	14.1	16.7	18.7	23.5	25.5	32.0					
Veterans benefits	16.1	16.4	16.0	16.4	16.3	16.1	16.3	16.7					
Government employees retire- ment benefits	49.2	54.0	49.6	50.8	51.5	54.4	54.9	55.4					
Other transfer payments	73.6	74.9	74.4	74.0	73.3	73.8	75.2	77.2					
Aid to families with depend- ent children	13.4	13.2	18.5	13.4	13.2	13.2	13.0	13.2					
Other	60.3	61.7	61.0	60.6	60.1	60.6	62.1	64.0					
Less: Personal contributions for social insurance	104.9	111.7	106.1	107.0	110.6	111.4	112.4	112.5					
Less: Personal tax and nontax payments	386.7	397.2	398.1	393.2	393.4	401.2	394.4	399.7					
Equals: Disposable personal													
income	2,029.1	2,173.4	2,060.0	2,101.4	2,117.1	2,151.5	2,198.1	2,227.1					
Less: Personal outlays	1,898.9	2,030.7	1,925.7	1,942.7	1,977.9	2,007.2	2,046.1	2,091.6					
Personal consumption expend- itures	1.843.2	1.971.3	1,868.8	1,884.5	1.919.4	1,947.8	1.986.3	2,031.5					
Interest paid by consumers to	55.1	58.6	56.2	57.5	57.8	58.4	59.0	59.2					
business Personal transfer payments to													
foreigners (net)	.6	.9	.7	.7	.8	.9	.8	.9					
Equals: Personal saving	130.2	142.7	134.4	158.6	139.1	144.3	152.0	135.5					
Addenda: Disposable personal income:	ļ												
Total, billions of 1972 dol-	1 0 10 -	1.0550	1 0.000	1 051 0	10.00	1.0510	1.050.0	1 000 5					
lars Per capita:			1,048.8	1,051.9		1,054.8	1,058.3	1,060.7					
Current dollars	8,827	9,366	8,951	9,107	9,155	9,285	9,461	9,562					
1972 dollars Population (millions)	4,538 229.9	4,547 232.1	4,557 230.1	4,559 230.8	4,527 231.2	4,552 231.7	4,555 232.3	4,554 232.9					
Personal saving as percent- age of disposable personal income	6.4	6.6	6.5	7.5	6.6	6.7	6.9	6.1					
	L			I			L						

Personal consump- tion expenditures	1,843.2	1,971.3	1,868.8	1,884.5	1,919.4	1,947.8	1,986.3	2,031.5
Durable goods	234.6	242.5	241.2	229.6	237. 9	240.7	240.3	251.2
Motor vehicles and parts Furniture and household	98.6	106.0	104.0	93.9	103.2	103.3	104.3	113.1
equipment Other	93.4 42.6	92.8 43.7	98.8 43.4	93.3	91.0	$93.2 \\ 44.2$	92.7 43.3	94.4 43.7
				42.4	43.7			
Nondurable goods	734.5	762.0	741.3	746.5	749.1	755.0	768.4	775.3
Food Clothing and shoes	$375.3 \\ 114.6$	397.2 118.7	378.0 115.9	382.3 116.0	$387.9 \\ 117.5$	395.0 118.4	401.3 119.1	404.8 119.7
Gasoline and oil	96.8	93.7	97.7	97.5	95.3	91.3	94.2	93.9
Other nondurable goods	147.9	152.4	149.7	150.7	148.4	150.4	153.8	157.0
Fuel oil and coal	19.7	17.6	19.9	19.2	17.3	17.3	18.4	17.5
Other	128.2	134.8	129.8	131.5	131.1	133.1	135.4	139.6
Services	874.1	966.8	886.3	908.3	932.4	952.1	977.6	1,005.0
Housing	295.3	324.6	298.7	307.0	314.5	320.4	328.2	335.4
Household operation	128.9	144.4	132.8	136.9	141.4	140.7	145.0	150.3
Electricity and gas	66.8	75.4	69.4	71.2	75.1	72.6	75.2	78.7
Other	62.1	69.0	63.5	65.7	66.3	68.1	69.9	71.6
Transportation	65.4	70.2	65.5	65.7	66.9	69.5	71.5	73.0
Other	384.4	427.6	389.3	398.7	409.6	421.5	432.9	446.3
			Bil	lions of 1	.972 doll	ars		
Personal consump- tion expenditures	947.6	957.0	951.4	943.4	949.1	955.0	956.3	967.5
Durable goods	140.0	138.7	142.2	134.1	137.5	138.3	136.4	142.6
Motor vehicles and parts Furniture and household	54.2	55.6	56.1	50.0	54.9	54.4	53.8	59.1
equipment	61.6	59.1	61.4	60.4	58.5	59.4	58.9	59.7
Other	24.3	24.0	24.7	23.7	24.1	24.4	23.7	23.8
Nondurable goods	362.4	365.0	363.0	363.1	362.2	364.5	365.9	367.5
Food	181.4	184.0	180.9	182.0	181.7	183.0	184.9	186.2
Clothing and shoes	82.7	84.1	83.1	83.0	83.8	84.0	84.0	84.7
Gasoline and oil	25.7	26.5	26.2	25.8	26.2	27.2	26.5	26.2
Other nondurable goods Fuel oil and coal	72.6	70.4	72.9	72.3	70.4	70.2	70.5	70.5
Fuel oil and coal	3.5	3.1	3.5	3.3	3.0	8.2	3.3	3.0
Other	69.1	67.3	69.4	69.0	67.4	67.1	67.2	67.5
Services	445.2	453.3	446.2	446.2	449.5	452.2	454.0	457.4
Housing	162.6	165.4	162.9	163.5	164.5	165.2	165.7	166.3
Household operation	63.5	64.1	64.1	64.4	64.5	63.4	63.7	64.7
Electricity and gas	24.6	24.7	25.0	25.2	25.6	24.1	24.3	24.8
Other	38.8	39.4	39.1	39.2	38.9	39.3	39.4	39.9
Transportation	32.4	32.5	32.1	31.7	31.9	32.5	32.7	32.7
Other	186.8	191.3	187.2	186.6	188.5	191.0	191.8	193.8

Table 5.1.—Gross Saving and Investment

				Billion	s of dolla	ars		
			2	Seasonal	lly adjus	ted at an	nual rat	es
	1981	1982 r	19	81		19	82	
			ш	IV	I	п	ш	IV ^r
Gross saving	477.5	414.5	490.0	476.3	428.8	441.5	422.4	
Gross private saving Personal saving Undistributed corporate prof-	504.7 130.2	530.8 142.7	513.4 134.4	547.7 158.6	519.4 139.1	529.0 144.3	546.1 152.0	135.5
its with IVA and CCAdj Undistributed profits IVA CCAdj	-24.6	31.8 45.9 -9.3 -4.8	43.9 84.0 -23.0 -17.1	44.3 76.9 -17.1 -15.5	31.6 46.1 4.4 10.1	30.7 47.0 -9.4 -6.9		12.9 1.5
Capital consumption allow- ances with CCAdj: Corporate Noncorporate Wage accruals less disburse- ments	206.2 123.9 0	225.1 131.3 0	209.7 125.5 0	216.0 128.7 0	218.9 129.8 0	223.4 130.5 0	227.5 131.9 0	230.4 132.8 0
Government surplus or deficit (), NIPA's Federal State and local	-60.0	1164 1482 31.9	-24.5 -58.0 33.5	72.5 101.7 29.1	-90.7 -118.4 27.7	87.5 119.6 32.1	-123.7 -156.0 32.3	
Capital grants received by the United States (net)	1.1	0	1.1	1.1	0	0	0	0
Gross investment	475.6	414.6	489.1	469.0	421.3	422.3	426.0	-368.7
Gross private domestic invest- ment Net foreign investment	471.5 4.1	420.5 -5.9	486.0 3.1	468.9 .1	414.8 6.5	431.5 10.8	443.3 —17.3	392.4 23.7
Statistical discrepancy	-1.9	.2	8	-7.2	-7.5	.8	3.6	

 Table 7.7.—Current-Dollar Cost and Profit Per Unit of Constant-Dollar

 Gross Domestic Product of Nonfinancial Corporate Business

				Doll	ars					
				Sea	sonall	y adjus	sted			
	1981	1982 [,]	19	81		19	1982			
			ш	IV	I	п	ш	IV '		
Current-dollar cost and profit per unit of constant-dollar gross do- mestic product ¹	1.743	.249 1.827	1.987 .224 1.763	.236 1.795	.242 1.803	.247 1.817	.251 1.837			
subsidies Domestic income Compensation of employees Corporate profits with IVA and CCAdj Profits tax liability	1.305 .165 .072	.142 .047	1.315 .171 .074	1.349 .159 .063	.140 .045	1.388 .134 .043	.214 1.623 1.392 .146 .049	·····		
Profits after tax with IVA and CCAdj Net interest	.093 .071	.095 .085	.097 .074	.096 .078	.095 .082	.091 .085	.097 .085			

Table 3.2.—Federal Government Receipts and Expenditures

			1	Billions o	of dollars			
			S	Seasonall	y adjuste	ed at ann	ual rate	5
	1981	1982'	19	81		19	82	
			III	IV	I	п	ш	IV۲
Receipts	628.2	614.5	640.2	625.7	609.9	617.0	613.7	
Personal tax and nontax								
receipts	298.1	300.1	307.9	300.9	299.9	305.8	295.6	299.
Income taxes	290.8	292.4	300.6	293.2	291.1	297.5	288.1	292.
Estate and gift taxes	7.0	7.5	7.1	7.5	8.5	8.0	7.2	6.
Nontaxes	.3	.3	.3	.3	3	.3	.3	
Corporate profits tax accru-		í I						
als	67.3	47.8	68.4	59,1	46.5	45.2	49.8	
Indirect business tax and								-
nontax accruals	58.5	50.0	57.8	57.2	48.7	49.8	50.8	50.
Excise taxes	44.1	34.7	43.1	41.9	33.6	34.6	35.5	35.
Customs duties	8.6	8.5	9.0	9.3	8.7	8.6	8.5	8.
Nontaxes	5.8	6.8	5.8	6.1	6.3	6.6	6.8	7.
Contributions for social	0.0		0.0					1
insurance	204.3	216.6	206.1	208.4	214.9	216.2	217.5	217.
insurance								
Expenditures	688.2	762.7	698.2	727.4	728.3	736.6	769.7	816.
Purchases of goods and								~
services	228.9	257.7	230.0	250.5	249.7	244.3	259.0	277.
National defense	153.7	178.6	154.4	166.9	166.2	176.2	182.7	189.
Nondefense	75.2	79.1	75.7	83.6	83.5	68.2	76.3	88.
Transfer payments	286.6	321.9	295.1	300.7	303.2	312.8	327.4	344.
To persons	280.9	315.9	289.0	294.0	297.2	307.0	321.8	337.
To foreigners	5.7	6.1	6.1	6.6	6.0	5.8	5.6	6.
Grants-in-aid to State and								
local governments	87.7	83.5	86.3	83.6	83.0	85.0	82.0	84.
Net interest paid	71.9	84.9	74.0	79.0	79.6	82.8	88.7	88.
Interest paid	91.4	107.7	94.3	99.5	101.8	105.1	111.9	112.
	51.4	101.1	54.0	00.0	101.0	100.1	1110	
To persons and busi-	74.6	90.3	77.2	82.4	83.9	87.6	94.2	95.
ness	16.7	17.5	17.1	17.1	17.9	17.4	17.8	16.
To foreigners	19.5	22.8	20.3	20.6	22.1	22.3	23.2	23.
Less: Interest received	19.5	22.8	20.5	20.0	44.1	44.0	40.4	40.
a 1 1 1 1								
Subsidies less current sur-								
plus of government							100	0.1
enterprises	13.1	14.6	13.0	13.6	12.7	11.6	12.6	21.
Subsidies	12.2	14.1	12.0	13.8	13.7	12.6	11.8	18.
Less: Current surplus of							_	
government enterprises	9	5	-1.0	.3	1.1	1,0	8	-3.
Less: Wage accruals less								
Less: Wage accruals less disbursements	0	0	.2	1	2	0	0	· 0
Surplus or deficit								
(-), NIPA's	-60.0	-148.2	-58.0	101.7	-118.4	-119.6	-156.0	
Social insurance funds	-11.0	-30.7	-16.6	-19.3	-16.4	-24.1	-36.5	-45.
Other	-49.0	-117.6	-41.4	-82.4	-102.0	-95.5	-119.6	
Offici	-40.0		-41.4	-04.4	102,0	-30.0	-110.0	

								, .
Receipts	416.8	437.1	420.3	421.5	424.2	434.3	440.5	
Personal tax and nontax								
receipts	88.6	97.1	90.3	92.3	93.6	95.4	98.8	100.5
Income taxes	48.3	51.9	49.3	50.1	50.2	50.8	53.0	53.4
Nontaxes	32.0	36.4	32.6	33.7	34.8	35.9	37.0	38.1
Other	8.3	8.8	8.4	8.5	8.6	8.7	8.9	9.0
Corporate profits tax accru-								
als	13.9	10.7	14.0	12.5	10.1	10.2	11.2	
Indirect business tax and								
nontax accruals	192.8	208.7	195.5	198.0	201.5	206.9	210.9	215.4
Sales taxes	90.4	95.3	91.8	91.8	92.6	95.0	96.1	97.5
Property taxes	75.1	83.5	76.0	77.8	79.8	81.8	84.7	87.7
Other	27.2	29.9	27.8	28.4	29.2	30.0	30.2	30.2
Contributions for social in-								
surance	33.8	37.2	34.2	35.1	36.0	36.9	37.7	38.4
Federal grants-in-aid	87.7	83.5	86.3	83.6	83.0	85.0	82.0	84.0
Expenditures	385.0	405.3	386.9	392.4	396.5	402.2	408.2	414.3
Purchases of goods and								
services	368.0	389.6	370.1	375.7	380.4	386.6	392.7	398.9
Compensation of employ-	1	·		1				1
ees	207.4	222.9	209.2	213.0	217.1	221.4	224.7	228.4
Other	160.6	166.7	161.0	162.7	163.2	165.2	168.0	170.4
Transfer payments to per-								
sons	43.0	45.1	43.3	43.9	44.3	44.7	45.4	46.1
Net interest paid	16.9	- 19.5	-17.4	-17.8	-18.5	-19.2	-19.8	-20.2
Interest paid	23.7	28.0	24.2	25.3	26.4	27.4	28.5	29.7
Less: Interest received	40.6	47.5	41.5	43.1	44.9	46.7	48.3	49.9
Less: Dividends received	2.6	3.3	2.7	2.8	3.0	3.2	3.3	3.5
Subsidies less current sur-								
plus of government								
enterprises	-6.5	-6.8	-6.5	-6.6	-6.6	-6.7	-6.8	-6.9
Subsidies	.4	.5	.4	.4	.4	.4	.5	.5
Less: Current surplus of								
government enterprises	6.9	7.2	6.9	7.0	7.1	7.2	7.3	7.4
Be to a minimum of the barrent better								
Less: Wage accruals less								
disbursements	. 0	0	0	0	0	0	0	0
Surplus or deficit								
(-), NIPA's	31.7	31.9	33.5	29.1	27.7	32.1	32.3	
Sector in the second sector is	01.0	96.9	00.0	33.3	34.5	35.7	36.9	38.0
Social insurance funds	31.81	36.3 	32.3 1.2	-4.2	-6.8	-3.6	-4.5	0.66
Other	1	-4.4	1.2	-4.Z	-0.8	- 5.0	-4.0	
								L

Table 7.1.—Implicit Price Deflators for Gross National Product

	-		Index	numbe	ers, 1972	2 = 100								
			Seasonally adjusted											
	1981	1982 [,]	19	81										
			ш	IV	I	п	ш	IV 7						
Gross national product	195.51	207.15	197.36	201.55	203.68	205.98	208.51	210.4						
Personal consumption														
expenditures	194.5	206.0	196.4	199.8	202.2	204.0	207.7	210.0						
Durable goods	167.5	174.8	169.7	171.3	173.0	174.0	176.1	176.1						
Durable goods Nondurable goods	202.7	208.7	204.2	205.6	206.8	207.1	210.0	211.0						
Services	196.3	213.3	198.6	203.6	207.4	210.6	215.3	219.7						
	10000		100.0											
Gross private domestic			1.1											
investment		015 5	000 4		010 0	0100	0100	015 0						
Fixed investment		215.5	209.4	212.9	213.6	216.6	216.2	215.6						
Nonresidential		210.0	203.0	206.8	207.6	211.3	210.7	210.5						
Structures	251.5	266.4	252.7	261.9	264.5	267.6	266.7	266.9						
Producers' durable equipment .	179.8	183.4	181.4	182.5	181.9	184.6	183.8	183.3						
Residential	233.6	238.0	235.8	239.2	240.5	238.6	238.8	234.5						
Nonfarm structures		241.4	239.4	243.3	244.3	242.1	242.3	237.5						
Farm structures		241.2	237.9	242.7	243.8	242.0	241.9	237.3						
Producers' durable equipment	159.4	168.4	161.3	162.8	165.7	168.1	169.4	170.4						
Change in business inventories														
Net exports of goods and														
services														
Exports		237.1	232.6	234.5	237.3	236.8	236.9	237.2						
Imports	293.1	284.1	287.7	286.1	286.4	278.8	285.4	285.8						
Government purchases of						1.1								
goods and services	907 0	222.3	209.5	215.0	217.8	221.1	223.9	226.2						
Federal		222.3		215.0 216.0	217.8	221.1	223.9	226.2						
National defense	201.4													
		227.1	207.9	219.5	223.0	225.2	226.5	233.3						
Nondefense State and local		210.5	207.4	209.4	209.6	212.6	214.9	206.0						
State and local	Z08.Z	222.7	210.7	214.3	217.5	220.9	224.5	227.8						

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

	Fixed-weighted price indexes, 1972=100										
			Seasonally adjusted								
	1981	1982 ^r	19	981		19	982				
			ш	IV	I	п	III	IV			
Gross national product	202.0	214.5	204.2	208.4	210.8	213.0	216.0	218.5			
Personal consumption											
expenditures	. 202.1	213.8	203.9	207.5	209.9	211.6	215.4	218.3			
Durable goods Nondurable goods	. 172.9	181.4	175.1	177.4	179.0	181.0	182.6	183.0			
		218.7	214.0	215.9	217.2	216.4	219.7	221.6			
Services	. 202.1	220.3	204.5	209.9	213.8	217.6	222.6	227.3			
Gross private domestic investment						e i d					
Fixed investment	220 Q	230.6	223.2	226.8	229.2	230.4	232.0	231.3			
Fixed investment Nonresidential Structures	218 5	225.7	215.6	219.3	222.0	225.0	227.4	228.9			
Structure	227 2	248.9	239.4	243.0	245.7	248.6	250.0	251.4			
Producers' durable equipment.	199.8	212.4	201.9	205.6	208.4	211.5	214.5	215.9			
Residential	235.0	239.9	237.5	241.2	242.7	240.7	240.7	235.9			
Change in business inventories	200.0	200.0	201.0	441.4	434.1	440.1	210.1	200.0			
change in business inventories	1			1							
Net exports of goods and services											
Exports	239.3	245.7	241.1	242.5	245.6	246.3	245.2	245.5			
Imports	319.0	315.3	316.3	314.0	319.1	313.6	313.6	314.3			
Government purchases of	I			1							
goods and services Federal	212.2	226.2	213.6	219.3	222.4	224.5	227.2	230.8			
Federal	214.7	230.1	214.5	223.9	227.1	228.4	230.1	234.9			
National defense	219.7	236.5	219.6	230.1	233.4	234.6	236.3	241.5			
Nondefense		213.9	201.6	207.9	211.0	212.6	214.2	218.0			
State and local	210.6	223.5	212.9	216.1	219.2	221.9	225.2	228.1			
Addenda:				· ·			5 N				
Gross domestic purchases ¹	207.2	219.0	209.0	213.0	215.6	217.3	220.4	222.9			
Final sales	202.0	214.6	204.2	208.4	210.9	213.0	216.1	218.6			
Final sales to domestic purchas-	202.0	214.0	204.2	200.4	210.0	210.0	210.1	210.0			
ers ¹	207.2	219.1	209.0	213.0	215.6	217.4	220.5	223.0			
616	201.2	210.1	200.0	210.0	210.0	211.4	220.0	220.0			
Personal consumption expendi-											
tures, food	208.8	217.4	210.6	211.7	215.3	217.3	218.4	218.5			
Personal consumption expendi-											
tures, energy	359.6	362.2	360.4	366.1	361.9	348.9	364.1	373.8			
Other personal consumption ex-	1							1.0.0			
penditures	185.5	199.1	187.6	191.6	194.3	197.3	200.8	203.9			
•							1	1			
Gross domestic product	202.1	214.6	204.2	208.5	210.9	213.0	216.1	218.6			
Business	203.4	215.3	205.7	209.4	211.8	213.8	216.8	219.0			
Nonfarm	203.3										
		1			-						

Table 7.1 and 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 8.1.—Percent Change From Preceding Period in Gross National Product in Current and Constant Dollars, Implicit Price Deflator, and Price Indexes

							Р	rice I	ndexes								
	Per	ent		Perce	nt at a	nnual	rates			Per	cent		Perce	ent at s	nnual	rates	
				Sea	sonally	adjus	ted			1			Sea	sonally	v adjust		
	1981	1982 '	19		1	19	·			1981	1982 7	19			19		
			ш	IV	I	п	ш	IV '				ш	IV	I	п	ш	IV '
Gross national product: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	1.9 9.4 9.4	4.1 -1.8 6.0 6.4 6.2	11.4 2.2 9.0 9.2 8.9	3.0 -5.3 8.8 8.4 8.5	$-1.0 \\ -5.1 \\ 4.3 \\ 5.0 \\ 4.8$	6.8 2.1 4.6 4.6 4.1	5.8 .7 5.0 6.0 5.9	$ \begin{array}{r} 1.7 \\ -1.9 \\ 3.7 \\ 4.9 \\ 4.6 \\ \end{array} $	Government purchases of goods and services: Current dollars	.9 9.9 9.5	8.4 1.4 6.9 7.1 6.6	12.2 3.6 8.2 7.2 6.5	18.6 7.0 10.8 11.3 11.1	2.4 -2.9 5.5 6.3 5.8	.6 -5.3 6.2 5.1 4.0	13.8 8.4 5.0 5.3 4.7	16.3 11.6 4.1 6.6 6.6
Personal consumption ex- penditures: Current dollars	8.6	6.9 1.0 5.9 6.0 5.8	11.3 2.9 8.2 8.0 7.7	3.4 -3.3 7.0 7.2 7.6	7.6 2.5 5.0 5.2 7.1	6.1 2.5 3.5 3.6 4.8	8.1 .6 7.5 7.1 3.2	9.4 4.8 4.4 5.4 5.5	Federal: Current dollars	1	12.6 5.3 6.9	23.5 14.8 7.6 4.8 4.6	40.7 20.4 16.8 18.3 18.6	-1.4 -5.5 4.4 6.4 5.9	-8.3 -13.5 6.1 3.3 2.3	26.3 23.1 2.5 3.3 3.1	32.5 30.3 1.6 7.6 8.5
Durable goods: Current dollars	2.2 7.1 7.5 7.8	3.4 -1.0 4.4 4.6 4.9	20.2 10.7 8.5 7.9 8.6	$-17.9 \\ -20.9 \\ 3.8 \\ 5.6 \\ 5.3$	15.1 10.4 4.2 3.8 3.7	4.9 2.5 2.3 3.7 4.5	7 -5.4 5.0 3.1 3.6	19.3 19.4 1 1.3 .8	National defense: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	4.9 11.5 11.5	16.2 6.9 8.7 8.2 7.6	10.8 7.6 3.0 5.4 4.2	36.7 10.1 24.2 20.5 20.6	-1.8 -7.9 6.5 7.5 5.8	26.4 21.4 4.1 3.3 2.0	15.6 13.0 2.3 3.5 3.0	15.6 2.7 12.5 8.4 9.0
Nondurable goods: Current dollars	1.8 7.6	3.7 .7 3.0 3.1 2.8	6.5 1.5 5.0 4.3 3.7	2.9 0 2.8 3.5 3.6	$1.4 \\ -1.0 \\ 2.4 \\ 2.9 \\ 2.4$	3.2 2.6 .6 4 -1.4	7.3 1.5 5.6 5.9 6.2	3.7 1.8 1.8 3.1 3.5	Nondefense: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	1.3 12.8	5.2 2.0 3.1 5.6 6.1	55.7 31.6 18.3 3.5 5.7	49.0 43.6 3.8 14.0 13.1	4 9 .5 6.2	-55.7 -58.1 5.8 3.3 3.1	57.3 50.7 4.3 3.0 3.1	80.5 113.6 15.5 5.8 7.3
Services: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	11.7 9.8 10.1 10.4	10.6 1.8 8.6 8.8 9.0	13.2 1.7 11.2 11.3 11.2	10.3 0 10.3 10.7 11.0	11.0 3.0 7.8 7.6 7.6	8.7 2.4 6.2 6.9 7.3	11.2 1.7 9.3 9.1 9.4	$11.7 \\ 3.0 \\ 8.4 \\ 8.3 \\ 8.7$	State and local: Current dollars	7.9 8 8.7 8.8 8.2	$5.9 \\ -1.0 \\ 6.9 \\ 6.9 \\ 6.1$	5.7 -2.7 8.7 8.7 7.8	6.2 8 7.0 7.0 6.2	5.0 -1.1 6.2 6.2 5.7	6.7 .4 6.3 6.2 5.2	6.5 2 6.7 6.6 5.9	6.4 .4 6.0 6.0 5.3
Gross private domestic investment: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	17.2 8.4	10.8 12.8	9.2 6.9	-13.3 -22.6		•••••	11.4 7.9	- 38.6 - 36.9	Addenda: Gross domestic purchases: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	11.6 2.6 8.8 9.0 9.1	4.4 -1.1 5.5 6.0 5.7	11.1 3.7 7.2 7.7 7.4	3.4 -4.7 8.5 7.9 7.8	2.1 5.3 3.5 5.4 4.9	6.4 2.5 3.8 4.0 3.2	9.8 3.1 6.5 6.1 5.9	2.5 8 3.4 4.9 4.6
Fixed investment: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	1.7 7.6 8.2	-1.7 -5.1 3.6 4.9 4.4	$ \begin{array}{r} 3.0 \\ -1.0 \\ 4.0 \\ 7.5 \\ 7.8 \\ 7.8 \end{array} $	6.7	$-4.6 -6.0 \\ 1.5 \\ 4.9 \\ 4.2$	-2.4 -7.6 5.6 3.7 2.2	7.9 7.2 8 3.0 2.8	$-1.8 \\7 \\ -1.1 \\ 0 \\ -1.2$	Final sales: Current dollars	10.4 1.0 9.3 9.4 9.6	5.6 6 6.2 6.4 6.2	10.4 1.0 9.3 9.3 8.9	5.7 2.3 8.1 8.5 8.6	5.6 .2 5.4 5.0 4.8	4.1 9 5.0 4.5 4.1	2.9 -1.3 4.3 6.0 6.0	8.3 4.1 4.9 4.6
Nonresidential: Current dollars	3.5 8.1 8.6 8.9	.4 -3.8 4.3 5.8 5.7 9.0	14.3 9.3 4.6 7.3 7.7 19.1	8.4 .6 7.8 7.3 7.0 22.3	$-3.5 \\ -5.0 \\ 1.5 \\ 5.5 \\ 5.1 \\ 5.3$	-5.3 -11.8 7.4 5.6 5.6 6.4	$ \begin{array}{c} -8.7 \\ -7.6 \\ -1.2 \\ 3.8 \\ 4.3 \\ -6.4 \end{array} $	$ \begin{array}{r} -8.3 \\ -8.0 \\3 \\ 2.1 \\ 2.6 \\ -5.7 \\ \end{array} $	Final sales to domestic purchasers: Current dollars	10.4 1.6 8.7 9.0 9.2	5.9 .2 5.7 6.0 5.7	10.1 2.5 7.5 7.8 7.4	6.1 -1.6 7.8 8.0 7.9	4.6 .1 4.5 5.4 4.9	3.6 6 4.2 3.9 3.2	6.8 .9 5.8 6.1 6.0	9.2 5.3 3.6 4.9 4.6
1972 dollars Implicit price deflator Chain price index Fixed-weighted price index Producers' durable equipment: Current dollars	6.3 10.4 9.1 8.2	2.9 5.9 5.7 4.9	12.6 5.8 8.6 7.8	5.9 15.5 8.6 6.1		1.6 4.7 5.5 4.8	-5.2 -1.2 2.6 2.3 -10.3	-6.0 .2 1.7	Gross domestic product: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	2.0	$^{4.3}_{\substack{-1.6\\6.0\\6.4\\6.2}}$	11.1 2.0 9.0 9.2 8.9	2.6 -5.7 8.8 8.4 8.5	0 -4.1 4.3 5.0 4.8	$\begin{array}{c} 6.4 \\ 1.7 \\ 4.6 \\ 4.6 \\ 4.1 \end{array}$	6.3 1.2 5.0 6.0 5.9	$2.6 \\ -1.1 \\ 3.7 \\ 4.9 \\ 4.6$
1972 dollars Inplicit price deflator Chain price index Fixed-weighted price index Residential: Current dollars	8.9 2.4 6.4 8.3 9.4	6.6 2.0 5.8 6.3 8.7	11.6 7.8 3.4 6.6 7.5 -27.0	-1.7 2.4 6.6 7.5 -20.8	-8.8 -7.6 -1.3 5.7 5.5	-12.4 -17.4 6.0 5.7 6.1	8.8 1.7 4.6 5.7	-9.0 -1.2 2.4 2.7 25.0	Business: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	11.8 2.2 9.4 9.4 9.6	$3.6 \\ -1.9 \\ 5.6 \\ 6.1 \\ 5.9$	11.9 2.4 9.3 9.6 9.3	.7 -6.7 8.0 7.6 7.4	$-1.3 \\ -4.9 \\ 3.8 \\ 4.7 \\ 4.4$	6.4 2.0 4.3 4.3 3.8	6.4 1.6 4.7 5.9 5.9	$1.5 \\ -1.5 \\ 3.0 \\ 4.4 \\ 4.0$
1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	-4.8 6.9 7.1		-27.0 -31.9 7.2 8.1 8.1	$ \begin{array}{r} -25.3 \\ 6.0 \\ 6.3 \end{array} $	8.4 10.2 2.0 2.7 2.6	9.4 12.9 -3.1 -3.1 -3.4	-4.9 -5.3 .3 .2 .1	34.3	Nonfarm: Current dollars 1972 dollars. Implicit price deflator Chain price index	12.0 2.2 9.6 9.6	3.6 -2.1 5.9	10.4 .3 10.1	2.1 -6.4 9.1	4 3.7 3.5	4.8 .7 4.1	5.9 .7 5.1	$^{1.1}_{\substack{-3.2\\4.5}}$
Exports: Current dollars 1972 dollars Implicit price deflator Chain price deflator Fixed-weighted price index	9.5	-4.9 -7.1 2.3 2.8 2.7	-1.8 -4.7 3.0 4.7 4.7	$ \begin{array}{c c} .8\\ -2.4\\ 3.2\\ 2.8\\ 2.4\\ \end{array} $	-8.4 -12.7 4.9 5.1 5.1	6.7 7.5 8 1.2 1.2	-16.7 -16.8 .2 -1.2 -1.7	28.4 28.7 .5 1.0 .4	Fixed-weighted price index Disposable personal income: Current dollars	9.7 11.2 2.5	7.1 1.2	13.4 4.8	8.3 1.2	3.0 1.9	6.7 3.1	8.9 1.3	5.4 .9
Imports: Current dollars 1972 dollars Implicit price deflator Chain price index Fixed-weighted price index	8.7 7.2 1.3 6.1 5.0	$ \begin{array}{c} -3.1 \\ 0 \\ -3.1 \\4 \\ -1.2 \end{array} $	-4.3 11.3 -14.0 -7.1 -8.4	$\begin{vmatrix} 6.0 \\ -2.2 \\ -1.8 \end{vmatrix}$	$-17.1 \\ -17.5 \\ .5 \\ 8.4 \\ 6.7$	$2.8 \\ 14.5 \\ -10.2 \\ -4.3 \\ -6.7$	9.8	-23.6 .6 .4									

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

Reconciliation and Other Special Tables

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

	I	п	III '	IV۶
 Compensation per hour of all persons in the business economy other than farm and housing (percent change at annual rate) ¹ 	7.8	6.7	6.9 .2	5.1
2. Less: Contribution of supplements	1.3 0	1	.z .1	.5 .2
4. Less: Contribution of employees of government enterprises and self-employed and unpaid family workers. 5. Equals: Wages and salaries per hour of employees in the private	0	.2	.5	.3
nonfarm economy (percent change at annual rate)	6.5	6.4	6.3	4.5
 Less: Contribution of nonproduction workers in manufacturing	.6	1.	2	1
seasonal adjustment. 8. Equals: Average hourly earnings, production and nonsupervi- sory workers in the private nonfarm economy (percent change	.8	.6	1.9	.6
sory workers in the private nonfarm economy (percent change at annual rate)	5.1	5.8	4.6	3.9

^r Revised. ^p Preliminary.

1. BLS estimates of changes in hourly compensation in the nonfarm business sector for the four quarters are 7.7, 6.1, 6.6, and 5.6 percent.

Table 2.-Reconciliation of Changes in the Implicit Price Deflator for Personal Consumption Expenditures and the Consumer Price Index for all Urban Consumers, Seasonally Adjusted

<u></u>	19	82
	Шг	IV P
1. Implicit price deflator for personal consumption expenditures (percent change at annual rate)	7.5	4.4
2. Less: Contribution of shifting weights in PCE	.4	8
New autos	4	1.8
Gasoline and oil		5
Electricity, gas, fuel oil, and coal	.4	
Furniture and household equipment	2	0
Food purchased for off-premise consumption	.4	4
Purchased meals and beverages	.3	.1
Clothing and shoes	0	1
Housing	2	2
Other		9
3. Equals: PCE chain price index (percent change at annual rate)	7.1	5.4
4. Less: Contribution of differences in weights of comparable CPI and PCE		
expenditure components	3] .1
Gasoline and oil	5	1
Electricity, gas, fuel oil, and coal	4	2
Furniture, appliances, floor coverings, other household furnishings	0	0
Food at home	1	Ó
Food away from home	0	0
Apparel commodities	0	0
Rent	3	4
Other	1.0	.9
5. Less: Contributions of PCE expenditure components not comparable with CPI		
components	.8	2
New autos	1	2
Net purchases of used autos	1	0
Owner-occupied nonfarm and farm dwellings—space rent	.4	0
Services furnished without payment by financial intermediaries except life		
insurance carriers	1	1
Current expenditures by nonprofit institutions	.5	0
Other	.2	.1
6. Plus: Contribution of CPI expenditure components not comparable with PCE		
components	.8	2.4
New autos	1	1
Used autos	.1	.5
Homeownership	.5	- 3.3
Other	.3	.6
7. Less: Contribution of differences in seasonal adjustment ¹	1	.2
8. Equals: Consumer Price Index For All Urban Consumers (CPI-U), all items		
(percent change at annual rate)	7.6	2.6
Addendum: Consumer Price Index For All Urban Consumers (CPI-U-XI), all		
items (percent change at annual rate) ²	8.2	5.5
*		

^r Revised. ⁹ Preliminary. 1. These differences arise because component price indexes that are used in the BEA measures and in the CPI are seasonally adjusted at different levels of detail. 2. The CPI-U-XI is the BLS experimental index in which a rental equivalence method is substituted for the present method in measuring the cost of owner-occupied housing. The PCE measures of price change also use a rental equivalence method.

		Seasonally adjusted at annual rates									Percen	t chan	ge fron	n prec	ding p	eriod a	at annu	al rate	15 15	
		Billio	ns of c	lollars		Billions of 1972 dollars				Implicit price deflator					Fix	ed-wei	ighted	price ir	ıdex	
	1981		19	82		1981	1981		1982		1981	1 1982				1981	1982			
	IV	I	п	ш	IV ۶	IV	1	IJ	ш	IV P	ſV	I	п	ш	IV ۶	IV	I	п	ш	IV ۶
National defense purchases	166.9	166.2	176.2	182.7	189.4	76.1	74.5	78.2	80.6	81.2	24.2	6.5	4.1	2.3	12.5	20.4	5.7	4.6	4.3	9.7
Durables Aircraft Missiles Ships Vehicles Other durables	14.8 4.7 5.2	48.1 14.2 5.2 5.2 2.1 16.4	48.9 15.4 6.5 5.9 2.6 18.4	$51.7 \\ 17.7 \\ 6.3 \\ 5.9 \\ 2.8 \\ 18.9$	53.0 18.3 6.4 5.4 3.2 19.7	$20.1 \\ 6.7 \\ 2.1 \\ 2.3 \\ .7 \\ 8.3$	19.9 6.1 2.5 2.2 .9 8.3	21.7 6.3 2.7 2.5 1.0 9.2	22.8 6.9 3.0 2.5 1.0 9.4	$22.6 \\ 6.8 \\ 2.6 \\ 2.3 \\ 1.2 \\ 9.7$	$14.3 \\ 17.8 \\ 36.8 \\ 10.1 \\ 26.9 \\ 5.6 \\$	7.526.5-17.82.0-5.04.3	17.6 21.5 64.6 7.0 28.8 5.7	2.8 23.9 37.1 4.8 12.7 7	$13.2 \\ 14.3 \\ 77.5 \\2 \\ -1.2 \\ 3.3$	5.9 14.1 -12.5 9.6 -10.6 5.5	12.5 17.4 27.6 8.8 4.1 7.2	15.0 36.4 10.6 6.8 .3 4.1	9.3 23.4 11.2 5.0 -16.4 1.5	8.6 16.8 2.5 7.7 7.5 2.9
Nondurables Bulk petroleum Other nondurables	13.2 9.5 3.7	13.6 9.3 4.3	13.4 9.1 4.3	13.2 9.1 4.1	15.2 10.7 4.5	2.6 1.0 1.7	2.8 1.0 1.9	2.8 1.0 1.9	2.7 1.0 1.7	3.0 1.2 1.9	12.2 -11.1 7.6	-17.4 -9.3 12.9	6.0 11.7 3.2	10.7 10.9 14.9	14.0 3.4 6.4	-9.2 -14.0 5.9	-7.9 -12.8 6.6	$-3.5 \\ -6.7 \\ 5.3$	0 5.2 14.1	6.3 7.6 3.0
Services Compensation Services less compensation Travel Transportation Communications Other services	42.0 2.3	106.0 66.3 39.8 2.4 3.2 1.0 33.1	$110.7 \\ 66.5 \\ 44.1 \\ 2.5 \\ 3.1 \\ 1.2 \\ 37.4$	${}^{113.8}_{66.8}\\{}^{47.0}_{2.9}\\{}^{3.3}_{1.2}\\{}^{39.6}$	117.0 69.2 47.7 2.8 3.5 1.2 40.2	51.8 33.1 18.8 1.0 1.3 .6 16.0	50.3 33.2 17.1 1.0 1.3 .6 14.2	52.3 33.3 19.1 1.0 1.3 .7 16.1	53.4 33.3 20.1 1.2 1.3 .7 16.8	53.7 33.4 20.2 1.2 1.4 .7 17.0	$28.6 \\ 43.0 \\ 5.8 \\6 \\ 14.8 \\ 22.2 \\ 5.1 \\$	$\begin{array}{r} 6.6 \\ 2.2 \\ 17.7 \\ -2.4 \\ 2.3 \\ 2.3 \\ 21.5 \end{array}$	$1.3 \\ .8 \\ -1.8 \\ 4.3 \\ -4.6 \\ 5.7 \\ -2.0$	2.8 .8 3.9 -4.9 12.2 -10.2 4.5	9.6 14.0 3.6 .2 9.7 4.2 3.1	31.5 43.7 9.9 -1.8 8.1 13.5 11.1	5.0 2.2 11.2 -2.5 4.5 13.7	2.0 .8 4.7 2.8 -1.5 2.4 5.7	2.8 .8 6.9 -4.5 15.8 1.9 7.1	$11.1 \\ 14.1 \\ 5.4 \\ 0 \\ 5.1 \\ 6.8 \\ 5.8$
Structures	3.4	3.5	3.3	4.0	4.2	1.5	1.5	1.4	1.7	1.8	6.1	7.0	7.2	-2.8	-7.2	6.0	7.4	1.2	8.4	-5.1
Addenda: Total purchases less compensation Total purchases less compensation and bulk petroleum	101.3 91.8	99.9 90.6	109.6 100.5	115.9 106.8	120.1 109.4	43.0 42.0	41.3 40.4	44.9 44.0	47.3 46.3	47.7 46.5	12.1 10.5	10.9 .11.8	3.6 7.4	1.6 3.6	11.6 7.9	5.0 7.6	8.7 11.4	7.7 9.4	7.1 8.5	6.4 6.3

P Preliminary.

Federal Fiscal Programs

THE fiscal year 1984 budget, presented to Congress in late January, carries forward the basic fiscal policy introduced by the administration in 1981. The main features of the new budget are:

- A continued rapid increase in national defense spending;
- A decline in nondefense spending other than net interest;
- Adherence to the last stage of the income tax cut provided for by the Economic Recovery Tax Act of 1981, although some increases in social security taxes and other taxes are proposed.

National defense spending increases over 14 percent in 1984 (about 10.0 percent in real terms, according to the administration). Increases are provided for virtually all weapons-systems projects already under way; no new projects are proposed. Major emphasis continues to be on improving the combat readiness and training of forces, modernizing the various existing weapons systems, and increasing naval strength.

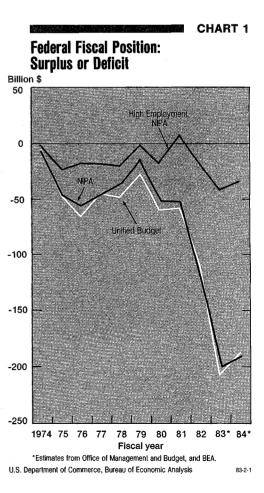
Nondefense spending, other than for net interest, declines slightly; in real terms, the decline is 5 percent. The administration's proposed program reductions more than account for the decline. Major reductions are in social security (excluding medicare), farm price support programs, and in housing assistance.

The budget incorporates the recommendations of the National Commission on Social Security Reform. The major recommendations include: (1) reschedule current tax rate increases; (2) tax one-half of social security bene-

NOTE.—Hermione A. Anglin, David T. Dobbs, Gary W. Davis, Kathleen M. Downs, Karl D. Galbraith, Donald L. Peters, Henry Newman-Santos, Deloris T. Tolson, and Richard C. Ziemer assisted in the preparation of this article.

Table 1.—Economic Assumptions Underlying the Fiscal Year 1984 Budget

		Calend	ar year	
	Act	ual	Estin	nates
	1981	1982	1983	1984
		Billions of	of dollars	
GNP: Current dollars 1972 dollars	2,938 1,503	3,058 1,476	3,262 1,496	3,566 1,555
Incomes: Personal income Wages and salaries Corporate profits before taxes	2,416 1,494 232	2,570 1,560 175	2,727 1,640 177	2,935 1,780 206
	Percen	t change fr	om precedi	ng year
GNP in current dollars: Annual average. Fourth quarter	11.6 9.6	4.1 3.3	6.7 8.8	9.3 9.2
GNP in 1972 dollars: Annual average Fourth quarter	1.9 .7	-1.8 -1.2	1.4 3.1	3.9 4.0
GNP deflator: Annual average Fourth quarter	9.4 8.9	6.0 4.6	5.2 5.6	5.2 5.0
Consumer price index: Annual average Fourth quarter	10.3 9.4	6.0 4.4	4.9 5.0	4.6 4.4
		Per	cent	
Unemployment rate: Annual average Fourth quarter	7.5 8.1	9.5 10.5	10.7 10.4	9.9 9.5
Insured unemployment rate: ¹ Annual average Fourth quarter	3.5 3.7	4.7 5.2	5.3 5.2	4.7 4.5
Interest rate, 91-day Treasury bills ²	14.1	10.7	8.0	7.9



 Insured unemployment under the State regular unemployment insurance program, excluding recipients of extended benefits, as percentage of covered employment under that program.
 Average rate on new issues within the year. The estimates assume, by convention, that interest rates vary with the rate of inflation. They do not represent a forecast of interest rates.

Source: "The Budget of the United States Government, Fiscal Year 1984."

Social Security Recommendations

The National Commission on Social Security Reform was established in December 1981 and given a mandate to review the financial condition of the social security trust funds, analyze potential solutions to ensure the solvency of the funds and the provision of appropriate benefits, and provide recommendations. The Commission met throughout 1982 and made their recommendations in early 1983; the budget incorporates these recommendations.

The major recommendations of the Commission increase budget receipts \$8.2 billion in fiscal year 1984.

• Reschedule increases in the social security tax rate (\$5.5 billion). Under current law, the tax rate is scheduled to increase to 11.4 percent from 10.8 percent on January 1, 1985 and to 12.4 percent on January 1, 1990. Under the recommendations, the tax rate will increase to 11.4 percent on January 1, 1984, 12.12 percent on January 1, 1988, and 12.4 percent on January 1, 1990. For 1984 only, employees would be allowed a refundable tax credit in the amount of the increase in employee taxes over what would have been payable under current law; under the recommendation, the employee tax rate will increase 0.3 percentage points to 5.7 percent.

• Tax social security benefits (\$1.1 billion). Under current law, social security benefits are exempt from Federal income tax provisions. Under the recommendations, single taxpayers with more than \$20,000 of adjusted gross income (\$25,000 for married couples filing a joint return) from non-social security sources will be required to include 50 percent of their benefits in adjusted gross income.

• Broaden coverage (\$1.1 billion). Under current law, Federal civilian emplyees are exempt from social security coverage, and State and local governments and nonprofit organizations are not required to participate in the program. Under the recommendations, mandatory coverage will be extended to all new Federal employees and to all employees of nonprofit organizations, effective January 1, 1984. State and local governments currently participating will no longer be allowed to withdraw.

• Increase the self-employed tax rate (\$0.6 billion). Under current law, self-employed individuals pay 75 percent of the combined employer-employee tax rate. Under the recommendations, self-employed individuals will be required to pay the combined rate, effective January 1, 1984. One-half of the combined rate will be deductible as a business expense in calculating taxable income.

The major recommendation of the Commission affecting expenditures in fiscal year 1984 is delaying the cost-of-living adjustment to benefits for 6 months from July 1983 to January 1984. Thereafter, cost-ofliving increases would occur in January. This recommendation reduces social security benefits \$2.1 billion in 1983 and \$4.2 billion in 1984.

fits above specified income levels; (3) broaden coverage to include new Federal employees and all uncovered nonprofit employees; (4) increase the self-employed tax rate; and (5) delay

Table 2.—Federal Government Receipts and Expenditures

Billions of	of dollarsj		
	1	Fiscal year	
	Actual	Estin	nates
	1982	1983	1984
Unified budget			
Receipts Outlays	617.8 728.4	597.5 805.2	659.7 848.5
Surplus or deficit (-)	-110.6	-207.7	188.8
National income and product accounts			
Receipts Expenditures	619.0 739.7	628.5 829.0	686.2 877.3
Surplus or deficit (-)	-120.7	200.5	-191.1
High-employment surplus or deficit (-)	-18.7	-42.4	34.7

Sources: "The Budget of the United States Government, Fiscal Year 1984," and the Bureau of Economic Analysis. the cost-of-living adjustment to benefits for 6 months. (See "Social Security Recommendations" above.)

Economic assumptions

The economic assumptions underlying the fiscal year 1984 budget are shown in table 1. GNP in constant dollars is forecast to increase 3.1 percent from the fourth quarter of 1982 to the fourth quarter of 1983 and 4.0 percent to the fourth guarter of 1984. According to the Council of Economic Advisers, "prospects for a moderate, sustainable economic recovery begin-ning early in 1983 are good." This view is based on a turnaround in the inventory cycle brought about by continuing strength in personal consumption expenditures and defense purchases. Cuts in production and increases in sales by the end of 1982

brought inventories more in line with sales; consequently, the forecast is based on the expectation that future increases in consumer spending will result in increased production, income, and employment. The pace of the 1983 recovery is likely to be moderate by historical standards; capital spending will be restrained by low capacity utilization and the need to build corporate liquidity; exports will be limited by the worldwide recession and the lagged effect of the appreciation of the dollar. Prices, as measured by the GNP deflator, increase 5.6 percent to the fourth quarter of 1983 and 5.0 percent to the fourth quarter of 1984. The unemployment rate is forecast to be 10.4 percent in the fourth quarter of 1983 and 9.5 percent in the fourth quarter of 1984. The rate is expected to reach about 11 percent in the first half of 1983 and decline thereafter by about one-quarter of a percentage point per quarter.

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Unified budget

The unified budget deficit decreases from \$207.7 billion in fiscal year 1983 to \$188.8 billion in fiscal year 1984 (table 2 and chart 1).

Receipts increase \$62.2 billion-or 10.5 percent-in 1984, to \$659.7 billion. Receipts in 1983 are \$597.5 billion, down 3.3 percent from 1982. Tax reductions provided under the Economic Recovery Tax Act of 1981 (ERTA) reduce receipts \$130.3 billion in 1984 and \$82.6 billion in 1983. Tax increases provided under the Tax Equity and Fiscal Responsibility Act of 1982 (TERFA) and the Highway Revenue Act of 1982 raise receipts \$42.1 billion in 1984 and \$19.0 billion in 1983. Proposed legislation, including the recommendations of the National Commission on Social Security Reform, raise receipts, on balance, \$11.2 billion in 1984.

Outlays increase \$43.3 billion—or 5.4 percent—in 1984, to \$848.5 billion. Outlays in 1983 are \$805.2 billion, up 10.5 percent from 1982. Two functions—national defense and net interest—more than account for the 1984 increase; nearly three-quarters of the increase is for national defense and about one-third is for net interest. All other functions decline on balance. The administration is again proposing various outlay reductions; these total \$31.8 billion in 1984 and most require legislation.

Current services estimates

Current services estimates show what receipts and outlays would be without policy changes. They are neither recommended amounts nor forecasts, but rather are a base with which administration or congressional proposals can be compared. The level of outlays are those needed to maintain ongoing Federal programs and activities at 1983 levels in real terms. The major exception is for the military functions of the Department of Defense. For those functions, the 1983 estimate is based on enacted levels resulting from congressional actions last year; the 1984 estimate is that presented by the administration and used by the Congress in budget deliberations last year.

Unified budget receipts in 1984 are \$10.9 billion higher than current services receipts, largely due to the rescheduling of the January 1985 social security tax rate increase to January 1984 (table 3). Other proposals that raise unified budget receipts include taxing employer-paid health insur-

Table 3.—Relation of Current Services Budget to Unified Budget

[Billions of dollars]

	Fiscal	l year
	1983	1984
Receipts		
Current services estimate	597.5	648.8
Plus: Proposed legislation: Social security Taxation of health insurance		8.2
premiums Civil service retirement Other		2.3 1.2 8
Equals: Unified budget	597.5	659.7
Outlays Current services estimate	806.1	880.3
Plus: Proposed program increases: Unemployment compensation General purpose fiscal assist-		
ance		1.0 .9 .8 .4 .4 4.5
National defense: Military and civilian pay raise . Military retired pay Other	1	-5.9 9 -1.5
Nondefense: Social security Farm price support Housing assistance Net interest paid Pay raise Food stamps Student financial assistance Postal Service payment Railroad retirement Other	1	$\begin{array}{r} -6.0 \\ -3.1 \\ -2.2 \\ -2.1 \\ -1.1 \\ -1.9 \\8 \\7 \\6 \\5 \\ -12.5 \end{array}$
Equals: Unified budget	805.2	848.5

Table 4.—Relation of Federal Government Receipts in the National Income and Product Accounts to the Unified Budget

[Billions of dollars]

[Billions o	f dollarsj		
		Fiscal year	
· · · · · · · · · · · · · · · · · · ·	1982	1983	1984
Unified budget receipts	617.8	597.5	659.7
Less: Coverage differences Financial transactions	1.3	1.4	1.6
Plus: Netting differences: Contributions to gov- ernment employees retirement funds Other	10.7 9.3	12.2 11.7	14.0 13.9
Timing differences: Corporate income tax Federal and State	- 13.1	8.0	-4.2
unemployment in- surance taxes Withheld personal income tax and	.2	.9	.9
social security con- tributions Excise taxes Other	-4.3 5	8.4 1.3	2.4 .8
Miscellaneous	.2		
Equals: Federal Government receipts, NIPA	619.0	628.5	686.2

ance premiums and increasing civil service retirement contributions.

Unified budget outlays are \$31.8 billion lower than current services outlays because proposed program reductions (\$39.8 billion) exceed proposed increases (\$8.0 billion). Nondefense programs account for about 80 per-

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

[Billions of dollars]

		Fiscal year	
	1982	1983	1984
Unified budget outlays	728.4	805.2	848.5
Less: Coverage differences: Geographic	4.6	4.8	4.9
Off-budget Federal entities Other	-17.3 .5	-17.0 .6	-14.0 .6
Financial transactions: Net lending Other	19.0 .5	18.1 .3	13.2 5
Net purchases of land: Outer Continental Shelf Other	-2.7 .2	8.3 1	7.9 4
Plus: Netting differences: Contributions to gov- ernment employees retirement funds Other	10.7 9.3	12.2 11.7	14.0 13.9
Timing differences: National defense pur- chases Other	-1.2 -3.0	-1.7 2	-2.5 9
Miscellaneous	.3	.2	.2
Equals: Federal Government expenditures, NIPA	739.7	829.0	877.9

Table 6.—Breakdown of Changes in Federal Receipts, NIPA Basis

[Billions of dollars]

	Change f	rom preced year	ing fiscal
	1982	1983	1984
Total receipts	4.3	9.5	57.7
Due to tax bases Due to tax changes ¹ Enacted Proposed	24.6 20.2 20.2	30.0 20.5 20.5	$\begin{array}{r} 67.7 \\ -10.0 \\ -23.2 \\ 13.2 \end{array}$
Personal tax and nontax re- ceipts Due to tax bases Due to tax changes Enacted Proposed	11.4 38.3 -26.9 -26.9	10.1 24.4 34.5 34.5	11.2 39.1 -27.9 -29.7 1.8
Corporate profits tax accru- als	$-20.8 \\ -16.8 \\ -4.0 \\ -4.0$.4 .8 4 4	8.9 11.5 2.6 2.4 2
Indirect business tax and nontax accruals Due to tax bases Due to tax changes Enacted Proposed	5.0 5.1 .1 .1	4.5 -2.2 6.7 6.7	4.1 .2 3.9 3.9
Contributions for social in- surance Due to tax bases Due to tax changes Enacted Proposed	10.6	14.7 7.0 7.7 7.7	33.5 16.9 16.6 5.0 11.6

1. Consists of all tax changes since fiscal year 1981.

Table 7.—Selected Tax Changes, NIPA Basis

[Billions of dollars]

		Fiscal year Calendar year										
		Fisca	year		2			Calend: ally adjuste				
	1983	1984	1983	1984		19		any adjust		19		
	1000	1004	1000		I	Ш	m	IV	I	п	ш	IV
Direct impact on Federal sector deficit, NIPA basis ¹	-53.1	-66.4	- 52.6	63.3	-41.5	-41.2	-61.7	-66.3	-60.2	-62.4	-64.1	-67.1
Personal tax and nontax receipts	-61.4	93.1	- 66.6	- 94.5	-52.7	-57.4	-75.1	-81.3	89.6	-93.2	95.9	- 99.6
Economic Recovery Tax Act Withheld income tax: rate reductions and other October 1981 July 1982 Other Declarations and net settlements Rate reductions Married couples deduction	$\begin{array}{r} -69.4 \\ -46.4 \\ -15.3 \\ -20.8 \\ -9.2 \\ -1.2 \\ -20.6 \\ -10.9 \\ -3.0 \end{array}$	$\begin{array}{r} -109.2 \\ -80.0 \\ -16.6 \\ -22.7 \\ -39.0 \\ -1.7 \\ -25.5 \\ -12.0 \\ -5.2 \end{array}$	$\begin{array}{r} -80.0\\ -56.6\\ -15.5\\ -21.2\\ -18.6\\ -1.3\\ -20.6\\ -10.9\\ -3.0\end{array}$	$\begin{array}{r} -111.4 \\ -81.9 \\ -17.0 \\ -23.2 \\ -39.9 \\ -1.8 \\ -25.5 \\ -12.0 \\ -5.2 \end{array}$	$\begin{array}{r} -57.5 \\ -36.7 \\ -15.1 \\ -20.5 \\ \hline \\ -1.1 \\ -18.5 \\ -10.2 \\ -2.0 \\ -2.4 \\ \end{array}$	$\begin{array}{r} -62.1 \\ -37.5 \\ -15.4 \\ -20.9 \\ \hline \\ -1.2 \\ -22.0 \\ -10.7 \\ -2.6 \end{array}$	$\begin{array}{r} -98.2 \\ -75.3 \\ -15.7 \\ -21.4 \\ -36.8 \\ -1.4 \\ -20.1 \\ -11.2 \\ -3.4 \end{array}$	$\begin{array}{r} -102.1 \\ -77.0 \\ -16.0 \\ -21.9 \\ -37.6 \\ -1.5 \\ -21.6 \\ -11.5 \\ -4.0 \end{array}$	$\begin{array}{r} -106.3 \\ -79.2 \\ -16.4 \\ -22.5 \\ -38.7 \\ -1.6 \\ -23.5 \\ -11.7 \\ -4.5 \end{array}$	$\begin{array}{r} -110.0 \\ -80.9 \\ -16.8 \\ -23.0 \\ -39.4 \\ -1.7 \\ -25.3 \\ -11.9 \\ -5.0 \end{array}$	$\begin{array}{r} -112.7 \\ -82.9 \\ -17.2 \\ -23.5 \\ -40.3 \\ -1.9 \\ -25.9 \\ -12.1 \\ -5.4 \end{array}$	$\begin{array}{r} -116.7 \\ -84.6 \\ -17.5 \\ -24.0 \\ -41.1 \\ -2.0 \\ -27.4 \\ -12.3 \\ -5.9 \end{array}$
Accelerated cost recovery system Tax-exempt certificates Other Estate and gift	$-2.9 \\ -1.7 \\ -2.1 \\ -2.4$	-4.3 3 -3.7 -3.7	$-2.9 \\ -1.7 \\ -2.1 \\ -2.8$	$-4.3 \\3 \\ -3.7 \\ -4.0$	-2.4 -2.4 -1.5 -2.3	-2.7 -4.1 -1.9 -2.6	-3.1 1 -2.3 -2.8	-3.4 -2.7 -3.5	-3.7 5 -3.1 -3.6	-4.1 8 -3.5 -3.8	-4.5 -3.9 -3.9	-4.9 4.3 4.7
Tax Equity and Fiscal Responsibility Act	8.5 6.4 4.8 1.6 1.9 9 1.6 .1 1.1 .1	$15.3 \\ 21.1 \\ 18.7 \\ 2.4 \\ -6.1 \\ -11.9 \\ 1.3 \\ 1.6 \\ 2.9 \\ .3$	13.9 11.7 9.5 2.2 1.9 9 1.6 .1 1.1 .3	15.521.318.82.5-6.1-11.91.31.62.9.3	4.8 2.0 2.0 2.5 1.6 .9 .3	5.3 2.1 2.1 2.9 1.8 1.1 .3	23.8 21.5 19.3 2.2 2.0 9 1.7 .1 1.1 .3	21.621.118.72.4.2-2.71.3.31.3.3	15.420.818.4-5.7-11.21.31.62.6.3	15.4 21.0 18.6 2.4 -5.9 -11.6 1.3 1.6 2.8 .3	15.4 21.4 18.9 2.5 -6.3 -12.1 1.3 1.6 2.9 .3	15.621.919.32.6-6.6-12.71.31.63.2.3
Highway Revenue Act Legislation proposed Withheld: health insurance Declarations and net settlements	5	-1.0 1.8 1.8 1.8 1.8	5	-1.0 2.4 2.4		6	7	8	-1.0 2.3 2.3	-1.0 2.4 2.4	-1.0 2.4 2.4	-1.0 2.5 2.5
One-half social security Tuition tax credit Other		1.1 2 9		1.1 2 9					1.1 2 9	1.1 2 9	1.1 2 9	1.1 2 9
Corporate profits tax accruals	-8.5	-11.0	-9.3	-10.7	-6.1	8.4	-10.7	- 12.0	-11.4	-10.6	10.2	- 10.6
Economic Recovery Tax Act Accelerated cost recovery system Other	-17.1 -15.9 -1.2	-25.5 -23.7 -1.9	$-19.8 \\ -18.6 \\ -1.2$	$^{-26.6}_{-24.5}$ $^{-2.1}$	$-15.4 \\ -14.2 \\ -1.2$	$-18.6 \\ -17.4 \\ -1.2$	$^{-21.5}_{-20.3}$ $^{-1.2}$	-23.7 -22.5 -1.2	$-25.2 \\ -23.1 \\ -2.1$	$-26.1 \\ -24.0 \\ -2.1$	$^{-27.1}_{-25.0}$ $^{-2.1}$	$-28.0 \\ -25.9 \\ -2.1$
Tax Equity and Fiscal Responsibility Act	8.7 1.4 1.9 1.3 .6 3.5	14.7 2.3 3.2 2.7 1.7 4.9	10.6 1.5 2.1 1.8 .9 4.3	16.2 2.6 3.7 2.8 2.0 5.1	9.4 1.4 1.8 1.3 .7 4.2	10.3 1.5 2.0 1.7 .8 4.3	10.9 1.5 2.2 2.0 .9 4.3	11.8 1.6 2.4 2.2 1.2 4.4	14.1 2.1 2.8 2.6 1.6 5.0	15.8 2.5 3.4 2.9 1.9 5.1	17.2 2.9 4.0 3.1 2.1 5.1	17.7 2.9 4.6 2.6 2.4 5.2
Highway Revenue Act Legislation proposed	1	2	1	3	1	1	1	1	3	3	3	3
Indirect business tax and nontax accruals	7.0	11.3	9.6	11.4	4.7	11.7	10.9	11.1	11.4	11.5	11.4	11.4
Economic Recovery Tax Act Windfall profit tax Telephone excise	$^{7}_{-1.2}$	$6 \\ -1.3 \\ .7$	—.7 —1.3 .6	6 -1.3 .7	7 -1.3 .6	7 -1.3 .6	7 -1.3 .6	7 -1.3 .6	6 -1.3 .7	$6 \\ -1.3 \\ .7$	6 -1.3 .7	6 -1.3 .7
Tax Equity and Fiscal Responsibility Act Airport and airway Cigarette excise Windfall profit tax Telephone excise	4.0 1.1 1.9 .1 .9	5.2 1.2 2.5 .3 1.3	4.9 1.1 2.4 .2 1.2	5.3 1.2 2.5 .3 1.3	4.8 1.1 2.4 .1 1.2	4.9 1.1 2.4 .2 1.2	4.9 1.1 2.4 .2 1.2	5.0 1.1 2.4 .3 1.2	5.3 1.2 2.5 .3 1.3	5.3 1.2 2.5 .3 1.3	5.3 1.2 2.5 .3 1.3	5.3 1.2 2.5 .3 1.3
Highway Revenue Act Administrative action: deiry	2.8 .9	5.4 1.3	4.2 1.2	5.5 1.2	.6	6.1 1.4	5.3 1.4	5.4 1.4	5.4 1.3	5.5 1.3	5.5 1.2	5.6 1.1
Contributions for social insurance	9.8	26.4	13.7	30.5	12.6	12.9	13.2	15.9	29.4	29.9	30.6	31.7
Economic Recovery Tax Act: Railroad retirement	.5	.6	.5	.6	.5	.5	.5	.5	.6	.6	.6	.6
Tax Equity and Fiscal Responsibility Act State unemployent insurance Federal employees hospital insurance Supplementary medical insurance	2.9 1.5 1.3 .1	4.4 2.4 1.8 .3	3.9 2.1 1.7 .1	4.5 2.4 1.8 .3	3.7 2.0 1.7	3.7 2.0 1.7	4.0 2.1 1.7 .2	4.2 2.3 1.7 .2	4.5 2.5 1.8 .2	4.4 2.4 1.8 .2	4.6 2.4 1.8 .4	4.5 2.3 1.8 .4
Legislation proposed OASDHI: Jan. 1, 1984 rate increase: 13.4%-14.1%		11.6 6.8	.6	14.4 8.9	1			2.3	13.6 8.7	13.9 8.8	14.4 9.0	15.3 9.1
Nonprofit institutions, State and local governments, Fed- eral employees Self-employed		1.3 1.0 2.5	.6					2.3	1.4 1.0 2.5	1.6 1.0 2.6	1.6 1.0 2.8	1.7 1.0 3.5
Enacted social security rate and base increases Jan. 1, 1982 base increase: \$29,700-\$32,400. Jan. 1, 1982 rate increase: 13.3%-13.4% Jan. 1, 1983 base increase: \$32,400-\$35,700. Jan. 1, 1984 base increase: \$35,700-\$37,800. Self-employed increases.	6.4 2.8 1.3 1.0	9.8 3.3 1.4 3.0 .7 1.4	8.7 3.1 1.3 2.9 1.4	$\begin{array}{c} 11.0\\ 3.3\\ 1.4\\ 3.1\\ 1.8\\ 1.4\end{array}$	8.4 3.0 1.3 2.8 1.3	8.7 3.1 1.3 2.9 1.4	8.7 3.1 1.3 2.9 1.4	2.3 8.9 3.2 1.3 3.0 1.4	2.3 10.7 3.2 1.4 3.0 1.7 1.4	2.0 11.0 3.3 1.4 3.1 1.8 1.4	2.8 11.0 3.3 1.4 3.1 1.8 1.4	3.5 11.3 3.4 1.4 3.2 1.8 1.5

OASDHI=old-age, survivors, disability, and hospital insurance. 1. The estimates are based on the direct effect only of tax changes at a given level of economic activity. Induced effects are not included here, but are included in total NIPA receipts and the total for each category of receipts shown in table 10.

cent of the 1984 reductions, with the largest in social security. The unified budget deficit is \$42.7 billion lower than the current services deficit.

Federal sector of the NIPA's

BEA has prepared estimates of the Federal sector on the national income and product accounting (NIPA) basis consistent with the unified budget estimates (table 2). The estimates in this article differ slightly from the preliminary estimates published in late January in the budget; details of the latter are shown in Special Analysis B, "Federal Transactions in the National Income Accounts." The estimates in this article incorporate revised NIPA estimates for the fourth quarter of 1982 and more detailed information about tax changes than in the budget.

Estimates of the Federal sector are integrated conceptually and statistically with the rest of the NIPA's and differ in several respects from the unified budget. Unlike the unified budget, they exclude financial transactions, such as loans, and record several categories of receipts and expenditures on a timing basis that is different from the budget. (For a more detailed discussion of the differences, see the February 1980 SURVEY OF CURRENT BUSINESS.) Table 4 shows the relation between unified budget and NIPA receipts and table 5 shows the relation between unified budget outlays and NIPA expenditures.

Some transactions are treated differently in the NIPA's and in the unified budget but because they do not result in differences between total receipts or expenditures, they do not show up in the reconciliation tables. An example is the new payment-inkind (PIK) agriculture program initiated in January 1983 by administrative action. Under this voluntary program, farmers of wheat, feed grains, cotton, and rice will receive these crops, instead of cash diversion pavments, in return for setting aside acreage from production. In the unified budget, the PIK will not be treated as an outlay. In the NIPA's, nondefense purchases-Commodity Credit Corporation inventories-will decline and subsidy payments to farmers (by imputation) will increase by an equal amount, resulting in no change in total Federal sector expenditures. (Elsewhere in the NIPA's, farm inventories increase by the amount of the PIK, and farm income increases by an equal amount. GNP is unchanged because the increase in farm inventories is offset by the decline in nondefense purchases. Farm product is unchanged, but national income and personal income are increased by the amount of the PIK.) PIK amounts to \$1.2 billion in fiscal year 1983 and \$3.8 billion in fiscal year 1984.

Federal receipts on the NIPA basis in 1984 are \$686.2 billion, up \$57.7 billion from 1983 (chart 2). The increase is the net result of a \$67.7 billion increase due to higher tax bases and a \$10.0 billion decrease due to tax changes (table 6). Enacted tax changes reduce receipts \$23.2 billion in 1984; this reduction is the net of

Table 8.—Breakdown of Changes in Federal Expenditures, NIPA Basis (D))); (1)]

[Billions of	of dollars]		
	Change f	rom preced year	ing fiscal
	1982	1983	1984
Total expenditures Purchases of goods and services:	73.2	89.3	48.3
Pay raises ¹ Commodity Credit Corpo-	6.7	3.0	
ration	6.7	-3.0	- 5.8
Transfer payments to per- sons:	-1.0	-1.0	.1
Social Security Unemployment benefits Military and civilian pen-	23.4 6.2	19.0 12.8	$16.6 \\ -7.7$
sions	3.0 2	2.9 1.6	$^{1.9}_{-1.1}$
Grants-in-aid to State and local governments: Low income energy as- sistance	-2.1	3 6 1.7 6 3	6 3 .8 3.1
Net interest paid Subsidies less current sur- plus of government enter- prises:	16.3	9.9	14.2
Housing Commodity Credit Corpo-	1.7	1.3	.8
Agricultural subsidies Postal Service	.3 .1 -1.7	2.2 5.3 1.4	$-1.5 \\5 \\ .6$
All other expenditures ² National defense Nondefense	$16.3 \\ 20.9 \\ -4.6$	32.2 24.2 8.0	27.7 29.6 -1.9

Consists of pay raises since October 1981.
 Includes purchases of goods and services, transfer payments, grants-in-aid, and subsidies less current surplus of government enterprises.

Federal Government Receipts. NIPA Basis

CHART 2

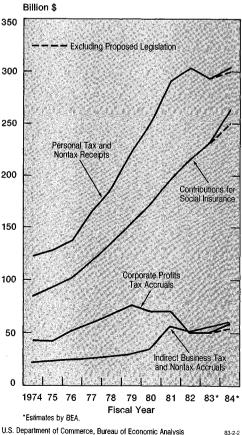


Table 9.-Relation of National Defense Purchases in the National Income and Product Accounts to National Defense Outlays in the **Unified Budget**

	1	Fiscal year	
	Actual	Estim	ates
	1982	1983	1984
National defense outlays in the unified budget	187.4	214.8	245.3
Department of Defense, military	182.9	208.9	238.6
Military personnel	42.3	45.3	47.7
Retired military person- nel	14.9	16.1	16.8
Operation and mainte- nance	59.7	64.6	71.6
Procurement Aircraft Missiles Ships Weapons Amnunitions Other	43.3 16.8 4.3 6.7 2.4 1.6 11.5	55.2 21.5 5.8 7.2 2.8 1.9 16.0	68.1 27. 7.1 8.1 3.1 20.0
Research, development, test, and evaluation Other Civilian and military pay raises ¹	17.7 5.0	21.4 4.1 2.2	26.3 5.1 2.1
Atomic energy and other			
defense-related activities Plus: Military assistance out-	4.5	5.9	6.1
lays	.8	1.5	1.8
Less: Transfer payments to retired military personnel Grants-in-aid and net	14.9	16.1	16.5
interest paid Timing differences	1.2 1.2	$1.3 \\ 1.7$	1.0 2.0
Other adjustments	-2.1	-2.2	-2.5
Equals: National defense purchases, NIPA	173.0	199.4	229.0

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

1. Consists of the pay raise effective October 1982.

tax cuts, largely from ERTA, partly offset by tax increases from TEFRA and from the Highway Revenue Act and by social security rate and base increases. (See the August 1981 SURVEY for details on ERTA and the September 1982 SURVEY for details on TEFRA.) Proposed legislation raises receipts \$13.2 billion in 1984. Table 7 shows the direct impact of selected tax changes on NIPA receipts.

Federal expenditures on the NIPA basis in 1984 are \$877.3 billion, up \$48.3 billion from 1983. Table 8 highlights the major factors that contribute to recent changes in Federal Expenditures. The largest in 1984 is a \$29.6 billion increase in national defense "all other expenditures," which consists of national defense expenditures other than the pay raise; this

[Billions of dollars]

Economic Tax Equi		ī	Fiscal year								lendar ye						
Economic Tax Equi			Estimates					Act	ual					Estimates			<u> </u>
Economic Tax Equi		Actual 1982	1983	1984	Actual 1982	Esti- mate		19	82			19	83		and and	1984	
Economic Tax Equi			1983	1984		1983	I	п	ш	IV	I.	I	Ш	IV	1	п	ш
Economia Tax Equi	ceipts	619.0	628.5	686.2	614.5	640.1	609.9	617.0	613.7	617.3	629.3	640.3	639.2	651.5	680.0	697.3	718.9
	e Recovery Tax Act ty and Fiscal Responsibility Act Revenue Act	-35.0 1.4	-86.7 24.1 2.2	134.7 39.6 4.4	-44.2 2.7	-100.0 33.3 3.6	28.2 1.4	-34.3 1.5	-55.2 2.6	-59.2 5.3	-73.1 22.7	$-80.9 \\ 24.2 \\ 5.4$		126.0 42.6 4.5	$-131.5 \\ 39.3 \\ 4.4$	$-136.1 \\ 40.9 \\ 4.5$	$-139.8 \\ 42.5 \\ 4.5$
Legislatio	on proposed	652.6	L	13.2 763.7	656.0	.6 702.6	636.7	649.8	666.0	671.0	679.7	691.6	711.0	2.3 728.1	15.6 752.1	16.0 772.1	16.5 795.2
Econon Tax Eq Highwa	tax and nontax receipts nic Recovery Tax Act uity and Fiscal Responsibility Act ay Revenue Act	303.1 —25.7	293.0 -69.4 8.5 5	$304.2 \\ -109.2 \\ 15.3 \\ -1.0 \\ 100$	300.1 33.3	296.3 80.0 13.9 5	299.9 19.5	305.8 —24.0	295.6 43.7		296.0 -57.5 4.8	$297.7 \\ -62.1 \\ 5.3 \\6$	293.9 -98.2 23.8 7	297.9 -102.1 21.6 8	$\begin{array}{r} 299.8 \\ -106.3 \\ 15.4 \\ -1.0 \\ 9.2 \end{array}$	307.8 -110.0 15.4 -1.0	$317.7 \\ -112.7 \\ 15.4 \\ -1.0 \\ 9.4$
	tion proposed	328.8	354.4	1.8 397.3	333.4	362.9	319.4	329.8	339.3		348.7	355.1	369.0	379.2	2.3 389.4	2.4 400.1	2.4 413.6
Econon Tax Eq Highwa	e profits tax accruals nic Recovery Tax Act uity and Fiscal Responsibility Act ay Revenue Act tion proposed	50.1 -9.1 1.3	50.5 -17.1 8.7 1	59.4 -25.5 14.7	47.8 - 10.6 2.3	50.7 -19.8 10.6 1	46.5 8.4 1.4	45.2 -10.0 1.5	49.8 -11.2 2.3		51.2 -15.4 9.4 1	50.4 -18.6 10.3 1	49.7 -21.5 10.9 1	51.5 -23.7 11.8 1	55.9 -25.2 14.1	61.8 -26.1 15.8	68.4 -27.1 17.2 3
Other		57.9	59.0	70.4	56.1	60.0	53.5	53.7	58.7	58.5	57.3	58.8	60.4	63.5	67.3	72.4	78.6
Econon Tax Eq Highwa	pusiness tax and nontax accruals nic Recovery Tax Act uity and Fiscal Responsibility Act ay Revenue Act	50.7 6 .1	55.2 7 4.0 2.8	59.3 6 5.2 5.4	50.0 8 .4	57.6 7 4.9 4.2	48.7 —.8	49.8 8	50.8 8 .3	8 1.3	53.0 7 4.8	59.7 7 4.9 6.1	58.8 7 4.9 5.3	58.7 7 5.0 5.4	59.2 6 5.3 5.4	59.5 6 5.3 5.5	59.8 6 5.3 5.5
	surance contributions	51.2 215.1	49.1 229.8	49.3 263.3	50.4 216.6	49.2 235.5	49.5 214.9	50.6 216.2	51.3 217.5		48.9 229.1	49.4 232.5	49.3 236.8	49.0 243.4	49.1 265.1	49.3 268.2	49.6 273.0
Econon Tax Eq Legisla	nic Recovery Tax Act uity and Fiscal Responsibility Act tion proposed	.4 	.5 2.9 226.4	.6 4.4 11.6 246.7	.5 216.1	.5 3.9 .6 230.5	.5 214.4	.5 215.7	.5 217.0	.5	.5 3.7 224.9	.5 3.7 228.3	.5 4.0 232.3	.5 4.2 2.3 236.4	.6 4.5 13.6 246.4	.6 4.4 13.9 249.3	.6 4.6 14.4 253.4
	penditures	739.7	829.0	877.3	762.7	840.0	728.3	736.6	769.7		822.8	825.4	850.9	861.0	877.3	877.2	894.2
Purchase	s of goods and services al defense aise: October 1982	250.1 173.0	279.0 199.4 2.2	302.5 229.0 2.2	257.7 178.6 .5	$285.2 \\ 207.1 \\ 2.2$	249.7 166.2	244.3 176.2	259.0 182.7		278.9 196.2 2.2	272.8 202.1 2.2	288.0 210.3 2.2	300.9 219.7 2 2	302.4 226.2 2.2	297.8 232.3 2.2	308.9 237.8 2.2
Othe Nondef Pay 1	r ense raise: October 1982 nodity Credit Corporation	173.0 77.1 7.4	197.2 79.6	226.8 73.5 -1.4	178.1 79.1 9.0	204.9 78.1 1.3	166.2 83.5 12.1	176.2 68.2	182.7 76.3 7.4	187.4 88.5	194.0 82.7 9.0	199.9 70.7	208.1 77.7	2.2 217.5 81.2	$22\overline{4.0} \\ 76.2 \\ 1.3$	230.1 65.5	235.6 71.1 3.0
Otl Strat	yments in kind	7.4 7.4 2.8 66.9	$4.4 \\ -1.2 \\ 5.6 \\ 1.8 \\ 72.6$	-3.4 -3.8 2.4 1.9 72.2	9.0 2.2 67.7	-2.1 3.3 1.7 74.3	12.1 12.1 2.7 68.7	8 8 2.2 66.8	7.4 7.4 1.8 67.1	17.1	9.0 1.8 71.1	$-6.6 \\ -1.6 \\ -5.0 \\ 1.4 \\ 75.1$	$ \begin{array}{r} -1.9 \\ -3.2 \\ 1.3 \\ 1.8 \\ 77.0 \end{array} $	4.5 -3.5 8.0 1.8 74.1	-3.7 5.0 1.9 72.2	-8.4 -3.9 -4.5 1.9 71.2	-3.0 -4.1 1.1 2.0 71.3
Transfer	payments	310.8 304.8	348.6 342.2	357.4 350.9	321.9 315.9	349.4 343.1	303.2 297.2	312.8 307.0	327.4 321.8	344.3	346.5 340.5	350.6 344.4	352.2 345.8	348.3	359.8 353.3	360.9 354.4	361.5 355.0
Socia Ber	l security efit increases: uly 1982	198.6	217.6 10.9	234.2 10.9	204.5 5.5	219.2 10.9	194.7	197.5	209.2 10.9	216.6 10.9	215.4 10.9	217.9 10.9	220.5 10.9	341.8 223.1 10.9	234.8 10.9	237.9 10.9	241.4 10.9
J Otl	anuary 1984 ner	198.6	206.7	6.2 217.1	199.0	208.3	194.7	197.5	198.3	205.7	204.5	207.0	209.6	212.2	8.4 215.5	8.4 218.6	8.4 221.8
Ext Fee	nployment benefits tended leral supplemental compensation	21.6 1.8	34.4 4.4 4.3	26.7 2.4	24.9 2.1 1.2	33.6 4.4 3.2	18.6 1.0	23.5 2.9	25.5 2.5 .2	2.7 4.5	35.4 4.9 5.1	35.8 5.2 4.5	34.6 4.8 3.1	38.7 2.9	28.1 3.3	26.3 2.5	28.7 .9
Oth Other	ner igners	19.8 84.6 6.0	25.7 90.2 6.4	24.3 90.0 6.5	21.5 86.3 6.1	26.0 90.3 6.3	17.6 83.9 6.0	20.6 86.0 5.8	$22.7 \\ 87.1 \\ 5.6$	24.9 88.9	25.4 89.7 6.0	26.1 90.7 6.2	26.7 90.7 6.4	25.8 90.0 6.5	24.8 90.4 6.5	23.8 90.2 6.5	22.8 89.9 6.5
ment Public a Highwa	-aid to State and local govern- s	83.4 27.8 7.6	86.9 29.5 8.2	90.1 30.3 11.3	83.5 28.4 7.7	88.3 29.9 8.8	83.0 27.7 6.9	85.0 29.4 8.1	82.0 27.8 7.9	84.0 28.7 7.9	86.5 29.5 7,5	88.1 29.8 8.2	89.2 30.0 9.2	89.5 30.2 10.2	90.0 30.2 11.4	90.1 30.4 11.7	90.4 30.4 11.9
High Other	way Revenue Act	7.6 48.0	.4 7.8 49.2	3.1 8.2 48.5	7.7 47.4	1.0 7.8 49.6	6.9 48.4	8.1 47.5	7.9 46.3	7.9 47.4	7.5 49.5	.4 7.8 50.1	9.2 1.2 8.0 50.0	2.4 7.8 49.1	3.2 8.2 48.4	3.4 8.3 48.0	3.4 8.5 48.1
	est paid	48.0 82.5	49.2 92.4	40.5	41.4 84.9	49.0 95.5	40.4 79.6	47.5 82.8	40.3 88.7	41.4 88.6	49.5 90.8	93.6	97.0	49.1 100.7	48.4 104.6	48.0 108.5	48.1 112.6
Subsidies ment	less current surplus of govern- enterprises	12.8	22.1	20.7	14.6	21.6	12.7	11.6	12.6	21.5	20.1	20.3	24.5	21.6	20.5	19. 9	20.8
Agricul Comr	ture: nodity Credit Corporation ents to farmers	2.2 1.8	4.4 7.1	2.9 6.6	2.8 2.9	4.0 6.6	1.7 2.7	1.5 1.6	2.4 .5	5.7 6.9	4.0 6.0	2.8 6.6	5.1 7.2	4.0 6.5	2.9 6.5	1.9 6.7	2.8 6.7
Pay Oth	vments in kind ner	1.8 6	1.2 5.9 .8	3.8 2.8 1.4	2.9 .1	2.1 4.5 1.0	2.7 7	1.6 2	.5	6.9 .2	6.0	1.6 5.0 7	3.2 4.0	3.5 3.0	3.7 2.8	3.9 2.8	4.1 2.6
Housin	g	6 9.1 .3	.8 10.4 6	$1.4 \\ 11.2 \\ -1.4$	8.6 .2	10.9 9	1 8.5 .5	8.6 .1	.8 8.7 .2	8.8 1	.5 10.2 6	11.0 8	1.7 11.2 7	$1.1 \\ 11.2 \\ -1.2$	1.3 11.2 -1.4	$1.5 \\ 11.2 \\ -1.4$	1.7 11.2 -1.6
Less: Waį	e accruals less disbursements	1					2										
Su	rplus or deficit (—)	120.7	-200.5	- 191.1	-148.2	- 200.0	-118.4	-119.6	-156.0	-198.9	-193.5	- 185.1	211.7	209.5	- 197.3	- 179.9	-175.3

NOTE .- Fiscal year totals are based on unadjusted data and will not always conform to the average of four seasonally adjusted quarters.

1.11

increase accounts for over 60 percent of the total increase. Social security benefits together with military and civilian pensions contribute \$18.5 billion; net interest paid, \$14.2 billion; and highway grants, \$3.1 billion. Partly offsetting these increases are declines in unemployment benefits, in all other nondefense expenditures, and in agricultural purchases by the Commodity Credit Corporation (chart 3).

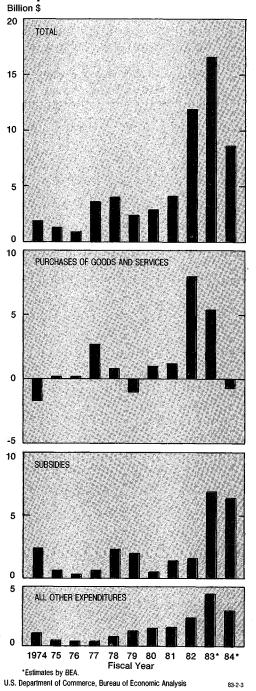
Table 9 shows the relation between national defense outlays in the unified budget and national defense purchases on the NIPA basis. In 1984, outlays, which are recorded on a checks issued basis, increase slightly more than purchases, which are recorded largely on a delivery basis. The larger increase in outlays reflects the steep increase in procurement of military hardware, for which checks are issued prior to delivery.

Quarterly pattern.—On a quarterly basis, the Federal deficit increases in the third quarter of 1983 when income tax withholding rates are cut for the final stage under ERTA. The introduction of withholding for interest and dividend income on July 1. 1983 partly offsets the rate cut. The deficit declines steadily thereafter, partly reflecting enacted and proposed tax increases (table 10).

The quarterly pattern is estimated by BEA with the cooperation of the Office of Management and Budget, the Social Security Administration, and the Departments of Agriculture, Labor, and Treasury. Receipts reflect the pattern of enacted and proposed tax changes and the administration's projected quarterly pattern of wages and profits. Expenditures reflect the pattern of proposed legislation and selected other items, such as cost-ofliving increases in retirement benefits. All estimates are seasonally adjusted at annual rates.

High-employment surplus or deficit.—The high-employment surplus is an estimate of the amount by which Federal revenues would exceed Federal expenditures if the economy were operating at a high-employment level of activity at current price levels. Consequently, cyclical fluctuations in the economy do not affect high-employment budget receipts or expendi-

CHART 3 **Commodity Credit Corporation Expenditures**, NIPA Basis



tures. (See the November 1980 SURVEY for a discussion of the limitations of the high-employment budget and BEA's methodology for calculating the estimates, the April 1982 SURVEY for refinements of the methodology, and the November 1982 SURVEY for discussions of the uses and usefulness of the high-employment budget.)

Table 11.—High-Employment Surplus or Deficit (-), NIPA Basis

[Billions of dollars]

	Level ¹	Change		yment or deficit th a 6- cent						
		4.5 21.6 -16.8 -27.2 -31.7 -52.8 -42.3 -15.1 -71.1 10.4 21.0 -9.3 22.0 11.6 .9 5.9 -16.1 -16.0 -20.3 -26.2 -42.7								
Calendar year:										
1981 1982 1983	4.5 -27.2 -42.3	31.7	-52.8	17.8 36.0 18.3						
Quarters:										
1981: I II III IV	22.0	-11.6 -16.1	.9 16.0	20.2 10.2 16.9 26.7						
1982: I II III IV	-15.6 -6.2 -32.8 -54.2			3.1 8.6 -27.3 -24.1						
1983: I II III IV	-37.6 -24.6 -53.1 -53.8	16.6 13.0 -28.5 7	65.3 53.3 82.3 83.7	17.1 12.0 -29.0 -1.4						
1984: I II III	39.7 23.9 21.5	14.1 15.8 2.4	$-71.1 \\ -56.6 \\ -55.6$	12.6 14.5 1.0						

1. Based on a high-employment unemployment rate of 5.1 percent for 1981:1-1981:4, 5.0 percent for 1982:1-1983:1, and 4.9 percent for 1983:2-1984:3.

As measured on a high-employment basis, the Federal sector of the NIPA's was in slight surplus in calendar year 1981 and swung to deficit in 1982; the deficit will widen in 1983 by \$15 billion (table 11 and chart 1). On a quarterly basis, the high-employment budget swung to deficit in the fourth quarter of 1981, when income tax withholding rates were first cut under ERTA. The deficit declined thereafter, but increased in the third quarter of 1982 when the second stage of rate cuts became effective. The deficit declines in the first half of 1983 but increases in the second. when the final withholding rate cut under ERTA becomes effective; thereafter it declines.

The high-employment deficit discussed above is based on a high-employment unemployment rate that is 5.1 percent in 1981, declines to 4.9percent by mid-1983, and remains flat thereafter. Table 11 also shows what the high-employment surplus or deficit would be assuming a high-employment unemployment rate of 6 percent throughout the 1981-84 period. On this basis, the high-employment deficit is \$20 billion to \$30 billion higher, but follows the same quarterly pattern.

Pollution Abatement and Control Expenditures, 1972-81

KEAL expenditures for pollution abatement and control (PAC) declined 1 percent in 1981 (chart 4).¹ The revised estimate for 1980 also showed a decline. In 1972-79, expenditures had increased each year, at an average annual rate of 5½ percent. Pollution abatement (PA) expenditures, the largest category of PAC expenditures, declined (in 1972 dollars) 1 percent in 1981; regulation and monitoring increased less than 1 percent; and research and development declined 3 percent.

This article first presents and discusses PAC estimates for recent years: real expenditures and prices of PAC goods and services in 1981, the limited data on expenditures available for 1982, and revisions in PAC estimates for 1978-80. Next, it summarizes trends for 1972-81 in air and water PA expenditures. Finally, it introduces estimates of business PAC costs, which are designed to facilitate analysis that is more comprehensive than could be undertaken previously.

Note.-Estimates of business PAC costs, presented in this article for the first time, are a result of research by Frederick J. Dreiling on the GNP-account treatment of PAC.

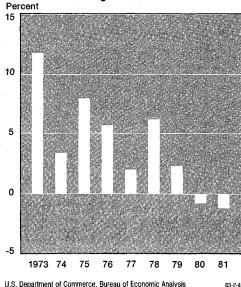
Estimates for recent years

PAC expenditures are classified in table 1 by type (e.g., water PAC), function (e.g., research and development), sector (e.g., business), and accounting category (e.g., on capital ac-count). Table 2 shows additional detail for business and government expenditures for air and water pollution abatement (most of PAC). Table 3 shows expenditures for aspects of solid waste management, including, but not limited to, collection and disposal. Table 4 shows price changes for total PAC expenditures and selected components.

Real PAC spending in 1981.—In absolute terms, the 1981 decrease in total PAC spending was \$0.3 billion (in 1972 dollars) and was due to a large decrease in water PAC. Water

Real PAC Expenditures: Percent Change From Preceding Year

CHART 4



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

PAC spending decreased \$1.4 billion. or 12½ percent. Air PAC spending increased \$0.9 billion, or 7½ percent; solid waste disposal spending increased \$0.2 billion, or 4 percent; and "other and unallocated" spending increased slightly.

The largest absolute changes in air and water PAC spending were for PA capital (see accompanying tabulation). For water, each major category of capital spending again decreased. Public sewer systems construction spending (government enterprise fixed capital) decreased \$1.0 billion, or 23 percent, the third consecutive decrease. Plant and equipment spending by business decreased \$0.3 billion, or $16\frac{1}{2}$ percent, the fifth decrease. Spending for septic systems and connectors to public sewers (residential systems) decreased \$0.1 billion, the third decrease.

[Change in 1981, billions of 1972 dollars]

Total expenditures for PAC	3
Water PA Capital Public sewer systems Plant and equipment Residential systems Current account	-1.0 3
Air PA Capital Motor vehicle emission abatement Plant and equipment Current account	.8
Solid waste disposal Capital Current account	0.1 1
Other	0

The large decrease in spending for construction of public sewer systems was due to decreases in related Federal grants-in-aid and in State and local funding for sewer systems. The decrease in Federal grants-in-aid for sewer systems was the first signifi-

^{1.} 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, 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.

cant one since 1978 and was part of a slowdown in these grants since 1977 (table 5). (See the accompanying box for a background discussion of these grants.) The decrease in State and local funding in 1981, the largest since these decreases began in 1979, was due to record high interest rates on municipal bonds, taxpayer's increased sensitivity to growth in government, and reduced housing construction requiring connection to sewer systems. The decrease in recent years in construction of public sewer systems is part of a general trend for State and local total construction.

For air, spending for motor vehicle emission abatement devices (consumer and business spending) increased \$1.1 billion, or 31 percent, after increasing each year since 1972. A decrease in plant and equipment spending of \$0.3 billion, or 11½ percent, was a partial offset.

Motor vehicle emission abatement spending increased, despite a decrease in unit sales of cars, due to the addition of expensive computer-like electronic equipment to regulate engine operation and emissions. This equip-

Table 1.—Expenditures for Pollution	Abatement and Control in Current
-------------------------------------	----------------------------------

		1972	1973	1974	1975	1976	1977			1978r		
	Line	Total	Total	Total	Total	Total	Total	Total	Air	Water	Solid waste	Other and unallocat ed ²
											-	Millions of
Pollution abatement and control Pollution abatement ³ Personal consumption	$ \begin{array}{c} 1 \\ 2 \\ 3 \end{array} $	18,434 17,245 1,536	21,930 20,537 2,065	26,261 24,678 2,667	30,923 29,167 3,463	34,681 32,677 3,994	37,962 . 35,652 4,311	43,416 40,833 4,762	17,324 16,117 4,762	1 9,876 19,253	6,609 6,518	- 394 -1,055
Durable goods	4 5 6 7 8	476 1,060 10,960 5,399 5,561 4,838 1,151 - 428	670 1,395 13,097 6,766 6,331 5,459 1,342 -470	690 1,977 15,527 7,436 8,091 6,994 1,635 538	$\begin{array}{r} 1,361\\ 2,102\\ 18,134\\ 8,832\\ 9,302\\ 8,100\\ 1,896\\ -693\end{array}$	1,821 2,173 20,335 9,469 10,866 9,533 2,221 - 887	2,166 2,145 22,761 10,101 12,660 11,022 2,603 -966	2,525 2,237 25,692 10,882 14,809 12,833 3,051 -1,075	2,525 2,237 11,072 5,317 5,755 5,683 72	11,215 4,984 6,231 3,253 2,978	4,479 582 3,897 3,897 (*)	-1,075 -1,075 (*) -1,075
Government Federal State and local Government enterprise fixed capital Regulation and monitoring Federal State and local	12 13 14 15 16 17 18	4,749 139 1,311 3,299 367 200 167	5,375 203 1,433 3,738 490 278 212	6,484 294 1,591 4,598 595 346 248	7,570 432 1,752 5,387 653 381 272	8,348 472 1,834 6,042 725 402 323	8,580 490 1,963 6,128 833 429 404	10,380 472 2,212 7,697 949 507 442	283 90 (*) 193 276 93 183	8,038 316 218 7,504 405 186 219	2,039 47 1,992 55 28 28 28 35	20 19 1 213 201 12
Research and development. Private Federal State and local	19 20 21 22	823 519 205 99	903 569 269 65	988 608 342 39	$1,103 \\ 608 \\ 448 \\ 47$	1,279 706 528 45	1,478 849 578 51	1,633 985 592 57	931 777 146 8	219 99 104 17	$35 \\ 16 \\ 16 \\ 4$	449 93 326 29
											Millions	of constant
Pollution abatement and control. Pollution abatement ³	23 24 25 26 27 28 29 30 31	18,434 17,245 1,536 476 1,060 10,960 5,399 5,561 4,838	20,603 19,298 1,965 670 1,295 12,330 6,435 5,895 5,039	21,307 19,951 2,116 6,51 1,465 12,372 6,200 6,172 5,259 1,296	23,008 21,644 2,589 1,184 1,405 13,057 6,662 6,395 5,520	24,325 22,868 2,857 1,489 1,368 13,789 6,762 7,027 6,138	$\begin{array}{c} 24,800\\ 23,230\\ 2,945\\ 1,683\\ 1,262\\ 14,315\\ 6,760\\ 7,555\\ 6,550\end{array}$	26,330 24,696 3,066 1,816 1,250 15,011 6,758 8,253 7,135	10,185 9,433 3,066 1,816 1,250 6,204 3,384 2,820 2,792	11,954 11,554 	4,342 4,284 2,938 346 2,593 2,593 2,593	
Government enterprise Costs recovered Government Federal State and local Government enterprise fixed capital Regulation and monitoring Federal State and local.	32 33 34 35 36 37 38 39 40	$1,151 \\ -428 \\ 4,749 \\ 139 \\ 1,311 \\ 3,299 \\ 367 \\ 200 \\ 167$	1,263 407 5,002 1,90 1,330 3,482 456 259 197	1,250 383 5,463 245 1,305 3,913 515 303 212	1,330 455 5,998 1,344 4,322 517 305 213	$1,444 \\ -555 \\ 6,221 \\ 339 \\ 1,349 \\ 4,534 \\ 538 \\ 303 \\ 234$	$1,574 \\ -569 \\ 5,970 \\ 323 \\ 1,359 \\ 4,288 \\ 577 \\ 304 \\ 274$	$1,705 \\ -587 \\ 6,619 \\ 288 \\ 1,418 \\ 4,913 \\ 620 \\ 340 \\ 280 \\ $	28 163 48 (*) 115 179 62 116	1,676 5,099 198 102 4,799 263 125 139	(*) 1,345 30 1,315 36 19 17	$ \begin{array}{r} (^{\bullet}) \\ -587 \\ 12 \\ 11 \\ 1 \\ 1 \\ 142 \\ 134 \\ 8 \\ \end{array} $
Research and development Private Federal State and local	41 42 43 44	823 519 205 99	849 535 253 61	840 512 294 34	847 461 348 38	920 501 385 35	993 562 394 37	1,014 604 373 38	574 476 92 5	137 61 65 11	22 10 10 3	282 57 206 19
											Selec	ted implicit
Pollution abatement and control Pollution abatement Personal consumption Business On capital account. On current account Government	45 46 47 48 49 50 51	100.0 100.0 100.0 100.0 100.0 100.0 100.0	106.4 106.4 105.1 106.2 105.1 107.4 107.4	123.3 123.7 126.0 125.5 119.9 131.1 118.7	134.4 134.8 133.8 138.9 132.6 145.5 126.2	142.6 142.9 139.8 147.5 140.0 154.6 134.2	153.1 153.5 146.4 159.0 147.4 167.6 143.7	164.9 165.3 155.3 171.2 161.0 179.4 156.8	170.1 170.9 155.3 178.5 157.1 204.1 173.4	166.3 166.6 	152.2 152.2 152.4 168.2 150.3 151.6	171.7 182.8 183.2 183.2 183.2 163.6
Regulation and monitoring Research and development	42 53	100.0 100.0	107.4 106.4	115.4 117.6	126.2 130.3	134.8 139.0	144.2 148.9	153.2 161.0	154.8 162.3	154.0 159.9	153.5 159.3	149.7 159.0
							÷.,		Addendu	ım: Busines	ss capital c	onsumption
Valued at replacement cost in current dollars Valued at replacement cost in constant (1972) dollars	54 55	1,831 1,831	2,195 2,094	2,839 2,391	3,578 2,713	4,282 3,066	5,061 3,413	5,911 3,721				

^rRevised.

^pPreliminary

Less than \$500,000.

Includes expenditures for air and water pollution abatement and control. Includes expendi-tures for solid waste collection and disposal by means acceptable to Federal, State, and local au-thorities. Excludes agricultural production except feedlot operations.

"Other" includes expenditures for abatement and control of noise, radiation, and pesticide pollution; "unallocated" includes business expenditures not assigned to media.
 Expenditures are attributed to the sector that performs the air or water pollution abatement or solid waste collection and disposal.
 Current-dollar estimates divided by constant-dollar estimates.

5. To facilitate conversion of expenditures to a cost basis.

ment, the largest added expense per car due to PA since 1968, was designed to help meet tightened emission abatement requirements for 1981 model year passenger cars.

The 1981 decrease in air and water PA plant and equipment spending occurred despite upcoming deadlines for improved PA (1982 for air and 1983-84 for water). Deadlines in the 1980's

and Constant Dollars and Selected Implicit Price Deflators ¹

may be having less effect on the pattern of changes in spending than did similar deadlines in 1970's, when laws setting deadlines were relatively new and postponement of deadlines not yet a regular occurrence.

Within the solid waste category, capital spending remained at the 1980 level. Current-account spending, which has increased each year since 1973, increased \$0.1 billion, or $3\frac{1}{2}$ percent.

Prices in 1981.—Price increases slowed in 1981, the first time since 1976, according to the fixed-weighted and chain price indexes for PAC goods and services (table 4). Both indexes increased 9½ percent in 1981,

(Text continued on p. 20)

		1979 ⁷					1980 <i>°</i>					1981'			
Fotal	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	Li
rent dolla	ars														
49,904 47,062 5,646 2,912 2,734	21,031 19,704 5,646 2,912	21,799 21,126	7,664 7,536	-590 -1,304	56,061 53,003 7,092 3,715	25,606 24,255 7,092 3,715	22,424 21,673	8,783 8,605	-752 -1,531	60,326 57,154 9,011 5,198 3,813 37,532	29,494 28,142 9,011 5,198	21,724 20,972	9,971 9,668	-863 -1,628	
2,734 30,066 12,309 17,757 15,596 3,522 -1,360	2,912 2,734 13,691 6,317 7,373 7,267 106	12,446 5,268 7,178 3,763 3,415	5,289 724 4,566 4,566 (*)		3,378 34,324 13,099 21,225 18,747 4,087	3,378 16,690 7,198 9,492 9,344 148	13,163 5,066 8,097 4,159 3,939	6,080 835 5,245 5,245 (*)	-1,609 -1,609 1	$\begin{array}{r}13,509\\24,023\\21,146\\4.665\end{array}$	3,813 18,630 7,892 10,738 10,582 156	13,844 4,707 9,137 4,629 4,508	6,845 910 5,935 5,935 (*)	-1,787 -1,787 1	
548 2,461 8,341	368 103 (*) 265	8,681 347 257 8,076	2,246 48 2,198	1,360 55 50 6		473 95 (*) 378	8,511 275 293 7 943	2,525 55 2,470	-1,610 79 70 9	-1,788 10,611 533 3,066 7,012	500 94 (*) 406	7,128 244 278 6,606	2,824 66 2,758	-1,788 159 129 30	
1,067 593 474 1,775 1,143 564 69	300 100 200 1,027 915 105 8	425 232 193 248 111 118 19	86 37 49 43 15 24 4	257 225 32 457 102 317 38	1,296 793 502 1,762 1,107 591 64	329 122 207 1,022 887 130 5	525 326 199 226 108 95 23	129 66 63 49 14 32 3	313 280 34 465 98 335 33	1,398 840 559 1,774 1,102 644 28	334 108 226 1,018 883 135 (*)	513 293 220 239 108 121 11	240 153 88 62 14 44	311 286 25 454 97 344 13	
72) dollari	s	l	······		··	<u> </u>			11	·		I.		L	1
26,936 25,236 3,100 1,943	10,749 9,975 3,100 1,943	11,832 11,422	4,540 4,462	184 623	26,730 25,018 3,344 2,295	11,256 10,504 3,344 2,295	11,029 10,608	4,643 4,543	- 199 - 638	26,407 24,721 4,094 3,025	12,125 11,402 4,094 3,025	9,650 9,255	4,838 4,678	-206 -615	
1,943 1,158 15,651 6,992 8,658 7,531 1,780	1,158 6,683 3,705 2,978 2,946 32	6,497 2,902 3,596 1,848 1,748	3,124 386 2,738 2,738 2,738 (*)	-653 -653 (*)	1,049 15,582 6,816 8,767 7,614 1,831	1,049 6,933 3,848 3,085 3,045 39	6,129 2,571 3,558 1,766 1,791	3,199 397 2,803 2,803 (*)	-678 -678 (*)	1,068 15,480 6,510 8,970 7,786 1,875	1,068 7,083 3,946 3,137 3,098 39	5,789 2,168 3,620 1,785 1,836	3,300 396 2,904 2,904 (*)	-691 -691 (*)	
653 6,486 297 1,428 4,761 653	192 48 (*) 144 181	4,925 194 115 4,617 261	1,338 28 1,310 52	-653 30 27 3 	-678 6,092 252 1,434 4,407 728	228 43 (*) 185 180	4,480 142 116 4,222 295	1,344 30 1,314 72	678 40 36 4 	$\begin{array}{r} -691 \\ 5,147 \\ 255 \\ 1,470 \\ 3,422 \\ 731 \\ 731 \end{array}$	226 41 (*) 185 168	3,467 116 114 3,237 267	1,378 34 1,344 127	-691 76 64 12	
653 372 281 1,046 654 349 43	63 118 593 523 65 5	145 115 149 63 73 12	52 23 29 26 9 15 2	141 19 278 58 196 24	1,434 4,407 728 459 269 984 621 327 35	71 109 572 498 72 3	189 107 126 61 53 13	72 38 34 27 8 18 2	162 19 258 55 185 18	459 272 955 604 337 15	41 (*) 185 168 59 109 555 484 71 (*)	160 107 128 59 63 6	127 84 44 33 8 23 23 2	169 156 13 240 53 180 7	
e deflato	rs ⁴		I						L	<u></u>		I			L
185.3 186.5 182.1 192.1 176.0 205.1 175.0 163.3 169.7	195.7 197.5 182.1 170.6 247.6 191.4 166.0 173.2	184.2 185.0 191.6 181.6 199.6 176.2 163.0 167.0	$\begin{array}{r} 168.8\\ 168.9\\ \hline \\ 169.3\\ 187.3\\ 166.8\\ 167.9\\ 164.4\\ 165.5\\ \end{array}$	189.8 207.2 208.2 208.2 185.3 160.3 164.1	209.7 211.9 212.1 220.3 192.2 242.1 190.2 178.0 179.1	227.5 230.9 212.1 240.7 187.1 307.7 207.6 182.9 205.3	203.3 204.3 214.8 197.0 227.6 190.0 177.8 179.6	189.2 189.4 190.0 210.5 187.1 187.9 178.0 179.6	213.1 234.9 237.3 237.3 194.6 173.5 180.1	228.4 231.2 220.1 242.4 207.5 267.8 206.2 191.2 185.7	243.3 246.8 220.1 263.0 200.0 342.4 221.8 199.0 183.6	225.1 226.6 239.2 217.1 252.4 205.6 192.0 187.2	206.1 206.7 207.4 229.7 201.0 204.9 188.8 189.7	230.6 253.7 258.7 258.7 208.8 184.1 189.2	
wance (m	illions of dol	lars) ⁵	·····		······									I	4
7,050 . 4,070 .					8,314 4,401					9,648 4,719					

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

					Pr	ice De	flators											
	1972	1973	1974	1975	1976	1977		1978 r			1979 7			1980 "			1981 P	
	Total 1	Total ¹	Total ¹	Total 1	Total 1	Total ¹	Total ¹	Air	Water	Total ¹	Air	Water	Total ¹	Air	Water	Total 1	Air	Water
								Millio	ns of cu	rrent doll	lars							
Business (line 6) ²	9,111	11,148	13,193	15,751	17,682	19,792	22,287	11,072	11,215	26,136	13,691	12,446	29,853	16,690	13,163	32,474	18,630	13,844
On capital account (line 7) Motor vehicle emission abatement Plant and equipment expenditures ³ Residential systems ⁴ Agricultural business ³ On current account (line 8) Private (line 9) Motor vehicle emission abatement Manufacturing establishments Privately owned electric utility establish-	5,089 225 3,601 1,260 3 4,022 2,871 435 1,363	6,422 339 4,612 1,468 3 4,726 3,384 610 1,509	$7,015 \\ 444 \\ 5,297 \\ 1,268 \\ 7 \\ 6,178 \\ 4,545 \\ 1,060 \\ 1,806$	8,416 770 6,576 1,063 7 7,335 5,440 1,294 2,221	9,004 963 6,783 1,250 8,679 6,459 1,492 2,754	9,581 1,158 6,840 1,575 8 10,212 7,609 1,659 3,312	$\begin{array}{c} 10,301\\ 1,407\\ 7,016\\ 1,873\\ 5\\ 11,987\\ 8,936\\ 1,912\\ 3,747\\ \end{array}$	5,317 1,407 3,910 5,755 5,683 1,912 2,038	4,984 3,106 1,873 5 6,231 3,253 1,710	$11,585 \\ 1,819 \\ 7,705 \\ 2,057 \\ 4 \\ 14,551 \\ 11,030 \\ 2,640 \\ 4,315 \\ 11,031 \\ 2,640 \\ 4,315 \\ 11,030 \\ 2,640 \\ 3,15 \\ 11,030 \\ 2,040 \\ 3,15 \\ 11,030 \\ 2,040 \\ 3,15 \\ 10,000 \\ 10,0$	6,317 1,819 4,499 7,373 7,267 2,640 2,337	5,268 3,207 2,057 4 7,178 3,763 1,977	$\begin{array}{r} 12,264\\ 2,127\\ 8,354\\ 1,780\\ 3\\ 17,589\\ 13,503\\ 3,804\\ 4,893 \end{array}$	7,198 2,127 5,071 	5,066 3,283 1,780 3 8,097 4,159 2,184	$\begin{array}{c} 12,599\\ 2,923\\ 8,009\\ 1,664\\ 3\\ 19,875\\ 15,211\\ 4,523\\ 5,485\end{array}$	7,892 2,923 4,969 10,738 10,582 4,523 3,045	4,707 3,040 1,664 9,137 4,629 2,440
ments	311 567 195 (*) 1,151 26 1,124 (*)	396 658 211 1,342 33 1,308 1	$\begin{array}{r} 647\\ 801\\ 229\\ 1\\ 1,634\\ 62\\ 1,571\\ 1\end{array}$	698 979 247 1,895 53 1,842 (*)	719 1,224 268 2,220 66 2,153 1	871 1,473 292 3 2,602 69 2,533 (*)	1,044 1,914 315 4 3,051 83 2,967 1	944 790 72 72 72	100 1,124 315 4 2,978 10 2,967 1	1,496 2,238 337 5 3,521 118 3,402 1	1,382 908 106 106	114 1,330 337 5 3,415 12 3,402 1	1,910 2,530 360 5 4,087 161 3,926 (*)	1,780 1,051 148 148	130 1,479 360 5 3,939 13 3,926 (*)	1,985 2,829 383 6 4,664 171 4,492 (*)	1,839 1,176 156 156	147 1,653 383 6 4,508 15 4,492 (*)
Government (line 12)	3,602	4,090	5,039	5,956	6,608	6,701	8,320	283	8,038	8,998	368	8,681	8,983	473	8,511	7,628	500	7,128
Federal (line 13) Federal excl. highway erosion abatement Highway erosion abatement State and local (line 14) State and local excl. highway erosion abatement	131 126 5 171 (*) 171	181 176 5 171 (*) 171	252 248 4 189 (*) 189	358 353 211 1 210	362 357 205 1 204	385 379 6 189 1 188	406 400 7 218 (*) 218	90 90 (*) (*)	316 310 7 218 218	450 442 9 257 (*) 257	103 103 (*) (*)	347 339 9 257 257	369 362 8 293 (*) 293	95 95 (*) (*)	275 267 8 293 293	338 330 8 278 (*) 278	94 94 (*) (*)	244 236 8 278 278
Government enterprise fixed capital (line 15) Publicly owned electric utilities Public sewer systems ⁶	3,299 91 3,208	3,738 136	4,598 177	5,387 164 5 999	6,041 223 5,818	6,128 269 5,859	7,697 329 7,368	193 193	7,504 136	8,341 367 7,975	265 265	8,076 102 7,975	8,321 468	378 378	7,943 91 7,853	7,012	406 406	6,606 68
Public sewer systems	3,208	3,603	. 4,421	5,223	9,616	5,659			7,368	nt (1972)	dallana	1,915	7,853		1,898	6,539		6,539
Business (line 28) ²	9.111	10,483	10,368	11,133	11,734	12,143	12,659	6,204	6,455	13,180	6,683	6,497	13,061	6,933	6,129	12,871	7,083	5,789
On capital account (line 29) Motor vehicle emission abatement Plant and equipment expenditures ³ Residential systems ⁴ Agricultural business ⁵ On current account (line 30) Private (line 31) Motor vehicle emission abatement Manufacturing establishments Privately owned electric utility establish-	5,089 225 3,601 1,260 3 4,022 2,871 435 1,363	6,105 339 4,370 1,394 3 4,376 3,114 566 1,400	5,847 419 4,341 1,083 5 4,520 3,226 780 1,333	6,354 670 4,871 808 5 4,779 3,449 860 1,427	6,433 787 4,775 866 5,301 3,857 935 1,643	6,419 900 4,507 1,008 5,723 4,150 975 1,785	6,412 1,008 4,304 1,097 3 6,247 4,543 1,068 1,871	3,384 1,008 2,376 2,820 2,792 1,068 980	3,028 1,928 1,097 3,428 1,751 892	9,606 1,208 4,305 1,090 2 6,573 4,794 1,116 1,956	3,705 1,208 2,496 2,978 2,978 2,946 1,116 1,018	2,902 1,809 1,090 2 3,596 1,848 938	6,419 1,307 4,252 859 1 6,642 4,812 1,179 1,888	3,848 1,307 2,541 3,085 3,045 1,179 1,005	2,571 2,571 1,711 859 1 3,558 1,766 	6,114 1,693 3,678 742 1 6,757 4,883 1,259 1,892	3,946 1,693 2,253 3,137 3,098 1,259 1,001	2,168 1,425 742 1 3,620 1,785 891
ments Other nonmanufacturing establishments Residential systems ⁴ Agricultural business ⁵ Government enterprise (line 32) Publicly owned electric utilities Public sewer systems ⁶ Other	311 567 195 (*) 1,151 26 1,124 (*)	337 611 200 (*) 1,263 28 1,234 1	314 592 206 1 1,295 30 1,264 1	324 628 209 1 1,330 25 1,304 (*)	336 729 213 2 1,444 31 1,413 (*)	879 794 216 2 1,573 30 1,542 (*)	417 961 224 1,704 34 1,671 (*)	367 378 28 28	50 583 224 2 1,676 5 1,671 (*)	470 1,020 229 2 1,780 37 1,742 (*)	419 393 32 32 	526272291,74851,742(*)	525 984 234 2 1,831 45 1,786 (*)	474 389 39 39 	51 596 234 2 1,791 5 1,786 (*)	500 992 238 3 1,875 44 1,831 (*)	450 389 	50 603 238 3 1,836 5 1,831 (*)
Government (line 34)	3,602	3,806	4,259	4,745	4,934	4,657	5,262	163	5,099	5,118	192	4, 9 25	4,707	228	4,480	3,692	226	3,467
Federal (line 35) Federal excl. highway erosion abatement Highway erosion abatement State and local (line 36) State and local excl. highway erosion	171 171	169 165 4 155	209 206 3 137	275 272 3 148	257 253 4 143	252 248 4 117	246 243 3 103	48 48 (*)	198 195 3 102	242 238 4 115	48 48 (*)	194 190 4 115	185 182 3 116		142 139 3 116	157 154 3 114	41 41 (*)	116 113 3 114
abatement Highway erosion abatement Government enterprise fixed capital (line	(*) 171	(*) 155	(*) 137	(*) 148	1 142	117	(*) 102	(*)	102	(*) 115	(*)	115	(*) 116	(*)	116	(*) 114	(*)	114
37) Publicly owned electric utilities Public sewer systems ⁸	3,299 91 3,208	3,482 129 3,353	3,913 141 3,772	4,322 116 4,206	4,534 152 4,382	4,288 171 4,117	4,913 196 4,717	115 115	4,799 82 4,717	4,761 200 4,561	144 144	4,617 56 4,561	4,407 230 4,176	185 185	4,222 45 4,176	3,422 216 3,206	185 185	3,237 31 3,206
					I		s	elected	implicit	price def	lators 7		1			1	L	L
Plant and equipment expenditures (see above, business capital account) ³ Manufacturing, privately owned electric utili- ties, and other nonmanufacturing establish ments (see above, business current account) Public sewer systems (see above, business cur-	100.0 100.0	105.6 109.1	122.0 145.2	135.0 163.9	142.0 173.5	151.8 191.2	163.0 206.4	164.5 218.8	161.1 192.4	179.0 233.5	180.2 252.9	177.2 211.6	196.5 274.7	199.6 296.7	191.9 247.9	217.7 304.4	220.5 329.4	213.4 274.6
rent account) ⁶ Public sewer systems (see above, government, fixed capital) ⁶	100.0 100.0	106.0 107.4	124.3 117.2	141.2 124.2	152.4 132.8	164.2 142.3	177.6 156.2		177.6 156.2	195.3 174.9		195.3 174.9	219.8 188.0		219.8 188.0	245.4 204.0		. 245.4 . 204.0

^r Revised.
^p Preliminary.
*Less than \$500,000.
1. Consists of air and water pollution abatement expenditures only.
2. Line numbers correspond to those in table 1.
3. Consists of manufacturing, private and cooperatively owned electric utilities, and other non-manufacturing companies.

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

The Federal Grants Program for Publicly Owned Wastewater Treatment Works

The description that follows of the Federal program of grants-inaid for the construction of publicly owned treatment works is to provide background information about a major part of total PAC spending: construction of public sewer systems. These systems accounted for 16½ percent of real PAC spending during 1972-81, and decreases in their construction were major factors in the decreases in total PAC spending in 1980 and 1981.

The Federal Water Pollution Control Act Amendments of 1972 established the existing grants program. Among the provisions, two are of special note: (1) For approved wastewater treatment works projects, the Federal share of the covered construction costs (State and local governments pay all costs not covered, e.g., for sewage collection systems of less than the trunk-line level) was 75 percent and the State and local share, 25 percent; (2) municipalities were required to meet secondary treatment requirements by July 1977. Approval of a project was contingent mainly on conformance of technology to that for medium-to-large scale collection and central processing of wastes, but rationing of available funds was also involved. Secondary treatment of wastewater was generally considered to be biological treatment (e.g., using bacterial action) in contrast to primary treatment, a lower level of treatment that is largely mechanical (e.g., using screening devices). Secondary treatment requirement were set at a stringent level and were described both in terms of percent removal of wastes and quality of effluent. When designing the program, Congress expected that the Federal share of construction costs would remain high until the backlog of needs for construction was eliminated and that substantial progress toward eliminating the backlog could be made in 5 years.

The wastewater treatment works grants program was beset during 1972-81 by difficulties stemming from its design and by external difficulties. These sources of difficulties combined after 1977 to bring an end to steady increases in real grants; grants decreased each year thereafter, except in 1979. Decreases were significant in 1978 and 1981. The difficulties stemming from the program's design gradually became apparent: (1) The preferred-i.e., grant-eligible-pollution abatement technology was high cost relative to alternatives, and operation costs, borne by municipalities alone, were large; (2) secondary treatment requirements were set at a level difficult to attain even with the preferred technology; and (3) although the preferred technology was affordable only in densely populated areas, the treatment requirements were uniform for all areas. The external difficulties were inflation and, later, high interest rates. Inflation accelerated after 1972, escalating construction costs and depleting Federal as well as State and local funds. As a result of difficulties (1) and (2) in combination with inflation, only one-half of major municipal systems met secondary treatment requirements by 1977. As a result of difficulty (3), most other treatment systems did not meet the requirements. The taxpayer resistance to growth in State and local government programs that became increasingly apparent around 1978 augmented concern over the extent to which construction and operation of high-cost treatment

systems should continue to be encouraged. Inflation contributed to taxpayer resistance, on the one hand, by raising tax bases and taxes and, on the other, by requiring enlarged bond issues to cover the escalating construction costs. High interest rates made it difficult for State and local governments to finance their costs, which accounted for an average of 56 percent of total sewer systems construction costs in 1978 and 39 percent in 1981. Despite these difficulties, 75 percent of public sewer systems met secondary treatment requirements by 1980.

These difficulties led, in time, to changes in program legislation. Amendments in 1977 mandated investigation of alternatives to the preferred technology. The emphasis was to be on mediumto-large scale collection technology and central processing of wastes rather than septic systems or networks thereof, notwithstanding their advantages. The Federal share of construction costs for alternatives that were innovative was increased as an incentive for their exploration. Amendments in 1977 also extended the deadline for meeting secondary treatment requirements to 1983 and allowed, under specified conditions, increased discharge of wastes into the ocean. The latter change increased the options of municipalities without liberalizing secondary treatment requirements. Amendments in 1981 extended the deadline for meeting secondary treatment requirements to 1988 and liberalized requirements for some locations, allowing oxidation ponds, lagoons, and trickling filters to be used if their use would not adversely affect water quality. These amendments also decreased the Federal share of construction costs to 55 percent beginning in fiscal year 1985. The decrease was meant to cause some shift away from the technology preferred until 1985 and indicated that, although this technology was not being put in place at the rate or to the extent originally envisioned by Congress, it was being put in place where most needed. The decrease was viewed as allowing markets to have an increased influence on technology selection and as reducing Federal involvement in State and local government decisionmaking. The long-term effect of these program changes will probably be annual decreases in grants; a decrease in grant is indicated by available data for 1982. A surge in the mid-1980's is possible if State and local governments rush to take advantage of the remaining years of higher Federal funding.

Although the substantial increases in grants during 1972–77 were the primary stimulus to the increases in spending for construction of public sewer systems, after 1977 factors other than changes in grants—external factors impacting directly on State and local governments—began strongly to influence sewer systems construction. Unless their depressing effect on sewer systems construction is reversed (e.g., by lower interest rates, a strong recovery in housing construction requiring connection to sewer systems, or a resurgence of concern about the impact of residential growth on water quality), these external factors, in combination with the expected decreases in grants, will lead to further decreases in sewer systems construction. compared with a 13½-percent increase in 1980. Energy prices accounted for much of the deceleration. A fixedweighted index of energy-purchase components (about 10 percent of total PAC) decelerated from an increase of 28 percent in 1980 to 11 percent in 1981. A PAC fixed-weighted index that excludes these components decelerated much less-from a 10-percent increase in 1980 to a 9%-percent increase in 1981.

The increase in the implicit price deflator slowed to 9 percent from 13 percent in 1980. The implicit price deflator measures the average price of PAC purchases in each year; changes in the deflator reflect changes in prices and shifts in the composition of PAC purchases from year to year. The chain and fixed-weighted price indexes, because the composition of PAC purchases in them is held constant, measure only changes in prices. (The chain index is based on the composition of purchases in each preceding year and the fixed-weighted price index is based on the composition of purchases in a base year, 1972.)

Real PAC spending in 1982.—A continued decrease in spending in 1982, larger in absolute terms than in 1981. is indicated by the limited information available as of early 1983. Public sewer systems construction spending decreased, as indicated by data for the first three quarters. Business PA plant and equipment spending decreased, assuming business spending plans reported in a BEA survey in

Table 3.—Constant-Dollar Spending by Business and Government for Solid Waste Collection and **Disposal and Related Series**

	Line	1972	1973	1974	1975	1976	1977	1978 r	1979 [,]	1980 [,]	1981 /
				Mi	llions of	constant	(1972) do	llars			
Solid waste collection and disposal by means acceptable to Federal, State, and local authorities	1	3,416	3,429	3,554	8,575	3,816	3,982	4,253	4,434	4,513	4,644
Solid waste management Pollution abatement Other ¹	3	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	5,769 1,897 3,872	5,980 2,171 3,809	6,104 2,356 3,748	6,281 2,554 3,727
				Perc	ent chan	ge from	preceding	g year			
Solid waste collection and disposal by means acceptable to Federal, State, and local authorities	5		.4	8.6	.6	6.7	4.4	6.8	4.2	1.8	2.9
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	6.6 17.2 2.0	3.6 14.5 1.6	2.1 8.5 —1.6	2. 8.

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.

late 1981 were realized.² Motor vehicle emission abatement devices spending decreased, as indicated by only minor additions of devices for model year 1982 and decreased unit sales of vehicles. The sum of these decreases is large. Information for all other categories is sketchy, but there is no indication of a substantial increase.

Revisions in real spending, 1978-80.—The last 3 years of the PAC spending series have been revised. Revisions were upward each year: \$0.2 billion in 1978, \$0.5 billion in 1979, and \$0.3 billion in 1980. The two

major components revised were motor vehicle emission abatement devices spending and nonmanufacturing (excluding electric utilities) air and water PA current-account spending. The incorporation of new data on imported light-duty trucks and the reclassification by the Environmental Protection Agency of trucks into light- and heavy-duty weight classes led to upward revisions of abatement device spending (i.e., "personal con-sumption, durables" plus "business capital, motor vehicle emission abatement" spending) from \$0.1 to \$0.3 billion in each of the 3 years. The incorporation of information for an additional year led to a higher ratio of nonmanufacturing to manufacturing net capital stocks of PA plant and

		1972	1973	1974	1975	1976	1977			1978 r		
	Line	Total	Total	Total	Total	Total	Total	Total	Air	Water	Solid waste	Other and unallocat- ed
		_										Millions of
Pollution abatement and control	1	923	1,057	2,242	2,870	3,386	4,061	4,150	71	4,012	25	42
Pollution abatement Regulation and monitoring Research and development	2 3 4	758 66 99	916 76 65	2,112 91 39	2,721 102 47	3,189 151 45	3,815 194 51	3,879 214 57	(*) 63 8	3,871 124 17	7 15 4	1 12 29
											Millions	of constant
Pollution abatement and control	5	923	983	1,906	2,304	2,546	2,847	2,644	45	2,556	16	28
Pollution abatement Regulation and monitoring Research and development	6 7 8	758 66 99	851 71 61	1,794 78 34	2,186 79 38	2,401 110 35	2,679 132 37	2,471 136 38	(*) 40 5	2,466 78 11	4 9 3	1 8 19

Table 5.—Federal Grants-in-Aid to State and Local Governments for

reliminary. ess than \$500,000. 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.

^{2.} For details, see Gary L. Rutledge and Betsy D. O'Connor, "Plant and Equipment Expenditures by Business for Pollution Abatement, 1981 and Planned 1982," SURVEY 62 (June 1982): 17-21 and 72.

Table 4.—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

	1972-80 average annual rate ¹	1973	1974	1975	1976	1977	19787	1979 <i>*</i>	19807	1981 <i>°</i>
Pollution abatement and controltotal:										
Current dollars	14.9	19.0	19.8	17.8	12.2	9.5	14.4	14.9	12.3	7.6
1972 dollars	4.7	11.8	3.4	8.0	5.7	2.0 7.4	6.2 7.7	2.3	8	-1.2
Implicit price deflator		6.4	15.9	9.0	6.1	7.4	7.7	12.4 12.4	13.2 13.5	8.9
Chain price index Fixed-weighted price index		6.5 6.5	15.9 15.9	9.8 9.8	6.2 6.2	7.2 7.4	7.7 7.9	12.4	13.5	9.4 9.5
Pollution abatement and control-air:										
Current dollars	18.7	28.4	25.5	22.9	10.3	10.0	11.2	21.4	21.8	15.2
1972 dollars		20.8	3.3	12.7	4.7	2.7	3.9	5.5	4.7	7.7
Implicit price deflator		6.2	21.6	9.1	5.4 5.7	7.1	7.0 7.1	15.0	16.2 17.5	6.9 9.4
Chain price index		6.5 6.5	21.7 22.5	10.8 10.9	5.7	7.3 7.7	7.0	15.6 15.8	18.1	10.1
Fixed-weighted price index	11.1	0.0	22.0	10.9	0.1	1.1	1.0	10.0	10.1	10.1
Business capital—air: Current dollars	14.9	37.9	16.7	25.7	3	3.8	7.3	18.8	13.9	9.6
1972 dollars		32.0	1.3	13.6		-2.0	1.0	95	3.9	2.6
Implicit price deflator.		4.5	15.2	10.6	-4.7 4.7	5.9	.8 6.4	9.5 8.5	9.7	6.9
Chain price index		4.5	15.7	11.7	5.3	6.5	7.0	9.1	10.0	2.6 6.9 9.2
Fixed-weighted price index	8.8	4.5	15.9	11.9	5.2	6.7	6.6	9.4	10.6	10.3
Business current account, private—air:						·	مغد			
Current dollars		18.2	42.6	20.0	17.6	17.1	15.6	27.9	28.6	13.3
1972 dollars		7.3	5.4	9.1	11.8	6.7	7.6 7.5 7.5	5.5	3.4	1.7 11.3
Implicit price deflator		10.1 10.2	35.3 37.2	10.0 10.4	5.2 5.6	9.8 9.4	1.5	21.2 20.7	24.4 23.6	11.8
Chain price index Fixed-weighted price index		10.2	37.2	10.4	5.5	9.4 9.9	8.0	18.4	20.0	11.5
Pollution abatement and control-water:					-					
Current dollars	12.5	15.6	15.3	16.6	14.4	8.5	18.0	9.7	2.9	-3.1
1972 dollars		8.4	2.1	6.6	6.6	.4	8.4	-1.0	-6.8	-12.5
Implicit price deflator		6.7	12.8	9.4	7.2	8.1	9.0	10.8	10.4	10.7
Chain price index	9.2	6.7 6.7	13.0 12.9	9.6 9.7	7.0 7.2	7.5 7.6	8.8 9.2	10.5 10.4	10.2 9.9	9.5 9.3
Fixed-weighted price index	9.2	0.1	12.9	9.1	1.2	1.0	9.2	10.4	9.9	9.0
Business capital—water:										
Current dollars	8.0	16.0	1.5	13.2	16.6	9.4	7.7	5.7	-3.8	-7.1
1972 dollars	– .8 8.8	9.5	-10.0	2.8	9.1	1.8 7.4	-1.1	-4.2	-11.4	-15.7
Implicit price deflator		5.9	12.7 12.7	10.1 10.5	6.9		9.0	10.3	8.5	10.2
Chain price index Fixed-weighted price index	8.9	6.0 6.0	12.3	10.5	6.8 7.5	7.1 7.4	8.5 8.7	10.2 10.3	9.0 9.0	10.3 10.0
Business current account, private—water:								1		
Current dollars	17.9	17.4	21.0	19.1	20.8	19.1	20.7	15.7	10.5	11.3
1972 dollars	6.0	10.3	.7	3.5	11.9	9.2 9.1	12.6	5.5	-4.4	1.0
Implicit price deflator		6.4	20.1	15.1	8.0	9.1	7.2	9.6	15.6	10.2
Chain price index		6.3	20.2	15.1	7.6	8.8	6.9	9.5	16.0	10.3
Fixed-weighted price index	11.0	6.3	20.0	15.0	7.6	8.8	6.8	9.3	15.5	10.1
Pollution abatement and control-solid waste:	100		10.0		11 -	10.0	10.4	10.0	140	10.5
Current dollars		8.2	16.8	8.4	11.5 6.3	10.3 4.2	13.4 6.8	16.0	14.6	13.5
1972 dollars Implicit price deflator		7.3	4.3 11.9	7.5	6.8 5.0	4.2 5.8	6.8 6.1	4.6 10.9	2.3 12.1	4.2
Chain price index		7.3	11.9	7.5	5.0 4.9	5.8	6.1 6.2	10.9	12.1	13.5 4.2 8.9 9.1
Fixed-weighted price index.	8.3	7.3	12.0	7.4	4.9	5.9	6.3	10.8	12.1	9.1
	0.0			1						

⁷Revised. ⁹Preliminary. 1. Compounded annually; not calculated for chain price index because it is defined for adjacent years only.

Pollution Abatement and Control in Current and Constant Dollars ¹

		1979 r					1980 r			-		1981 ^p			
Total	Air	Water	Solid waste	Other and unallocat- ed	Total	Air	Water	Solid waste	Other and unallocat- ed	Total	Air	Water	Solid waste	Other and unallocat- ed	Line
current dolla	ars														
5,099	81	4,898	43	77	5,241	85	5,027	53	76	4,836	88	4,591	88	68	1
4,797 231 71	(*) 73 7	4,784 93 21	7 33 3	6 32 39	4,928 249 64	(*) 80 5	4,910 94 23	9 42 3	9 34 33	4,532 276 28	(*) 88 (*)	4,476 103 11	26 59 4	30 25 13	2 3 4
(1972) dollar	s														
2,914	48	2,794	26	46	2,778	45	2,662	29	41	2,369	43	2,249	45	32	5
2,734 137 43	(*) 43 5	2,727 55 12	4 19 2	3 19 24	2,608 134 35	(*) 42 3	2,599 50 13	5 23 2	4 19 18	2,219 135 15	(*) 42 (*)	2,193 51 6	13 30 2	12 13 7	6 7 8

equipment, which, in turn, led to upward revisions in nonmanufacturing air plus water PA current-account spending of \$0.1 billion in each year.

Real spending for air and water PA, 1972-81

Air and water PA, which accounts for most of PAC spending, is discussed in this section using classifications in Federal legislation (tables 6 and 7). For air PA, the Clean Air Act classifies sources of pollutants as mobile (e.g., cars) or stationary (e.g., factories). For water PA, the Federal Water Pollution Control Act classifies sources as point (e.g., factories) or nonpoint (e.g., highway construction projects).

Spending to reduce emissions of air pollutants from mobile and stationary sources combined increased at an average annual rate of 7 percent during 1972-81. Spending for mobile sources increased at an average rate of 14 percent; spending for stationary sources increased at a rate of 1 percent. Spending for emission abatement devices for mobile sources increased much faster than spending to operate the devices, 23½ percent compared with 5 percent (average annual increases).

Spending for air PA facilities for stationary sources was less in 1981 than in 1972. For the subperiod 1972-75, the average annual increase was 4½ percent, but for 1975-81 spending decreased. Annually, spending for facilities was volatile, with increases in 4 years and decreases in 5. Spending to operate these facilities increased steadily from 1975 to 1980 at an annual rate of 7 percent and decreased 1½ percent in 1981.

Water PA spending for point sources increased at an average annual rate of 1½ percent during 1972-81. Spending for water PA facilities for point sources was less in 1981 than in 1972. For 1972-75, the average annual increase was 7½ percent, but for 1975-81 spending decreased. Spending increased every year in the early period, but decreased in 4 out of 6 years in the later period. Spending to operate water PA facilities increased every year except 1980; the average increase for the period was 6 percent. Spending estimates for non-

point sources are of limited coverage, but indicate that spending decreased at an average annual rate of 6 percent during 1972-81.

Business PAC costs, 1972–81

One possible measure of the costs associated with PAC is the costs of conforming to PAC rules and regulations.³ For business, such a measure would include, in addition to business current-account PA spending, a capi-

3. Alternatively, business PAC costs are the amount by which business costs exceed what they would have been in the absence of PAC rules and regulations. In both formulations, regulations refer to legal requirements, and rules-written and unwritten-refer to additional expressions of community and business concern for PAC.

Table 6.—Constant-Dollar Spending for Abatement of Air Pollutant Emissions from Mobile and Stationary Sources 1

[Millions of constant (1972) dollars]

	1972	1973	1974	1975	1976	1977	1978'	1979 <i>°</i>	1980'	1981 <i>°</i>
Total	6,230	7,130	7,428	8,514	8,912	9,105	9,435	9,974	10,504	11,402
Mobile sources ²	0	2,869	3,315	4,119	4,579	4,820	5,142	5,425	5,829	7,045
Devices		1,008	1,070	1,853	2,276	2,583	2,824	3,151	3,602	4,718
Cars		843	865	1,578	1,942	2,236	2,352	2,489	3,105	4,257
Catalytic		0	200	917	1,086	1,187	1,204	1,266	1,436	1,590
Noncatalytic		843	665	660	856	1,049	1,148	1,223	1,669	2,667
Trucks		165	205	276	335	347	472	662	497	461
Operation of devices	1,495	1,861	2,245	2,266	2,303	2,237	2,318	2,274	2,227	2,327
Cars	1,348	1,658	1,886	1,784	1,668	1,475	1,404	1,228	1,049	999
Trucks ³	147	203	359	481	635	762	913	1,046	1,178	1,328
Stationary sources	4,034	4,261	4,113	4,395	4,333	4,285	4,293	4,549	4,675	4,357
Facilities	2,626	2,864	2,827	2,997	2,741	2,577	2,492	2,640	2,726	2,438
Industrial	2,563	2,786	2,745	2,926	2,638	2,457	2,377	2,496	2,541	2,253
Manufacturing	1,142	1,453	1,595	1,640	1,254	1,095	1,155	1,177	1,086	1,000
Nonmanufacturing	1,421	1,332	1,150	1,286	1,384	1,362	1,222	1,319	1,455	1,253
Other 4	63	78	82	71	103	120	115	144	185	185
Operation of facilities	1,408	1,397	1,286	1,398	1,592	1,708	1,801	1,909	1,949	1,919
Industrial	1,329	1,328	1,216	1,317	1,498	1,621	1,724	1,829	1,867	1,840
Manufacturing	772	745	686	756	883	942	980	1,018	1,005	1,001
Nonmanufacturing	557	582	529	560	615	679	744	811	862	839
Other ⁸	79	69	70	82	95	87	77	80	82	79

⁷ Revised.

Preliminary. 1. The Clean Air Act classifies sources of pollutants as either mobile, such as passenger cars, or stationary, such as factories. 2. Excludes spending to reduce emissions from mobile sources other than cars and trucks; such spending was insignificant 1. 1070 e1 during 1972-81

auring 1972-31. 3. These estimates are from sources requiring updating; evidence suggesting less spending is accumulating. 4. Consists of spending for fixed capital of government enterprises such as the Tennessee Valley Authority. 5. 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.

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

[Millions of constant (1972) dollars]

	1972	1973	1974	1975	1976	1977	1978 ⁷	1979 <i>1</i>	1980 <i>°</i>	1981 <i>°</i>
Total	7,551	8,214	8,535	9,298	9,916	9,923	10,823	10,641	9,875	8,644
Facilities	5,436	5,831	6,078	6,711	7,098	6,845	7,421	7,132	6,480	5,144
Industrial Manufacturing Nonmanufacturing	1,411 626 785	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	1,809 725 1,084	1,698 615 1,083	1,425 495 930
Public sewer systems, private connectors to them, and other Public sewer systems and private con- nectors	4,025 3,993 32	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	5,323 5,265 58	4,782 4,736 46	3,719 3,687 32
Operation of facilities	2,115	2,384	2,457	2,586	2,818	3,077	3,402	3,509	3,441	3,500
Industrial Manufacturing Nonmanufacturing	912 591 321	1,021 655 366	1,023 646 376	1,062 671 392	1,210 760 450	1,337 843 494	1,525 892 633	1,617 938 679	1,531 884 647	1,544 891 653
Public sewer systems, private connectors to them, and other Public sewer systems and private con- nectors	1,203 1,124 79	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	1,877 1,671 206	1,892 1,742 150	1,910 1,786 124	1,956 1,831 125

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1. The Federal Water Pollution Control Act defines point sources as facilities that discharge to a body of water through a pipe or ditch. 2. Consists of spending by owners of feedlots and spending for fixed capital of government enterprise such as the Tennessee

2. Consists of spending by outside a reasonable of the spending by government; separate data on spending to acquire and operate government pollution abatement facilities are not available.

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tal consumption allowance, a net imputed return for PA capital, and research and development spending.⁴ Estimates of business PAC costs have been prepared for 1972-81 (table 8).5 Business PAC costs in current dollars increased at an average annual rate of 17½ percent during 1972-81. The two major components, "costs of PACinduced modifications in final products" and "costs of business PAC of its own wastes," increased at average rates of 20½ percent and 16½ percent.

5. Information on sources and methods used in these estimates will be provided upon request. Send requests to U.S. Department of Commerce, Bureau of Economic Analysis, BE-62, Washington, D.C. 20230.

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respectively. The addition of emission abatement devices to motor vehicles is an example of the former kind of costs, and the use of electricity to operate the wastewater treatment works of a manufacturing operation is an example of the latter.

What is generated by business PAC costs, although not a final demand in the framework of the national income and product accounts (NIPA's), has characteristics of a final demand: the clean air and water they generate are products, albeit unconventional ones, for consumption, and are not inputs to further production. Further, business PAC costs, although not a tax, have characteristics of a tax: (1) they are not used to benefit the businesses directly affected, but rather to purchase resources used for collective consumption, and (2) the costs may be

shifted forward or backward as markets allow. For some types of analysis, users of the NIPA's may want to consider the provision of clean air and water as collective consumption and the tax characteristics of business PAC costs. Doing so may improve the internal logic of the study and suggest useful interpretations of results. To date, resource absorption has been considered systematically only for those cost components classified as final demand in the NIPA's; specifically, economic growth models have excluded PA capital but not labor and materials. The tax characteristics of business PAC costs as a whole have not been considered, although two aspects have been: business PA as affecting relative prices, and business PA capital as reducing the rate of return.

Table 8.—Business Pollution Abatement and Control (PAC) Costs in Current Dollars ¹

[Millions of dollars]

	[minine of	4011012)								
	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Business PAC costs Costs of PAC-induced modifications in final products Residential systems ² . Motor vehicles ³ . Adjustment to market price valuation ⁴ . Costs of business PAC of its own wastes ⁵ . Residential business. Current costs. Capital consumption allowance.	2,023 1,260 701 62 10,784 4,519 195 4,091	15,019 2,551 1,468 1,009 74 12,468 4,700 211 4,259 582	16,875 2,492 1,268 1,150 73 14,384 4,488 229 4,040 673	20,885 3,386 1,063 2,225 98 17,499 5,261 247 4,747 766	25,619 4,385 1,250 3,012 123 21,234 6,153 268 5,578 852	30,803 5,346 1,575 3,634 137 25,457 7,180 292 6,542 936	35,907 6,403 1,873 4,375 155 29,505 7,913 315 7,227 1,046	40,845 7,542 2,057 5,306 179 33,303 8,058 337 7,346 1,179	46,00 5 8,562 1,780 6,561 221 37,443 8,006 360 7,242 1,308	53,880 10,945 1,664 8,983 298 42,935 8,966 383 8,104 1,441
Net imputed return 7. Adjustment to a market price valuation 4. Nonfarm nonresidential business. Current costs. Motor vehicles. Air and water pollution abatement, except motor vehicles Solid waste pollution abatement. Costs recovered.	2,841 233 6,265 2,789 435 2,620 162 -428	2,959 230 7,768 3,341 610 3,013 188 - 470	2,606 219 9,896 4,817 1,060 3,799 495 -538	3,117 267 12,238 5,679 1,294 4,512 566 -693	3,782 306 15,081 6,799 1,492 5,395 799 -887	4,610 345 18,277 7,980 1,659 6,441 846 -966	5,214 371 21,592 9,507 1,912 7,665 1,005 -1,075	5,199 374 25,245 11,870 2,640 9,190 1,400 -1,360	4,946 405 29,437 14,735 3,804 10,656 1,885 -1,610	1,441 5,614 479 33,969 16,717 4,523 11,757 2,224 -1,788
Capital costs * Capital consumption allowance Motor vehicles Air and water pollution abatement, except motor vehicles Solid waste pollution abatement. Net imputed return *. Motor vehicles Air and water pollution abatement, except motor vehicles	3,042 989 46 934 8 1,611 35	3,942 1,264 70 1,180 14 2,080 50 2,013	4,503 1,738 107 1,607 24 2,081 56 2,002	5,845 2,278 168 2,074 37 2,739 91 2,613	7,459 2,804 250 2,505 49 3,583 146 3,388	9,319 3,388 350 2,972 66 4,670 219 4,380	10,999 4,039 480 3,470 89 5,563 293 5,175	12,144 4,885 646 4,118 120 5,767 333 5,323	13,321 5,862 852 4,847 163 5,789 361 5,304	15,640 7,018 1,101 5,708 209 6,810 462 6,188
Solid waste pollution abatement. Research and development for pollution abatement. Adjustment to a market price valuation ⁴	10 184	17 192 293	22 226 350	35 261 452	49 281 541	71 354 624	95 376 710	110 438 793	124 406 975	160 414 1,198
Net imputed return adjustment ^s Residential business Nonfarm nonresidential business		487 342	1,391 1,111	1,384 1,216	1,146 1,085	722 731	655 699	1,404 1,558	2,357 2,759	2,342 2,841

1. Derived from tables 1 and 2, detail underlying those tables, related national income and product account data, and capital stocks for pollution abatement. Information on sources and methods used in these estimates will be provided upon request.

2. Consists of the construction of private septic systems and sewer connections linking house-

Consists of motor vehicle emission abatement systems and the added consumer expense of purchasing unleaded rather than leaded fuel.

4. Consists of sales-associated charges: part of indirect business taxes (those contingent upon sale), business transfer payments (made out of sales revenue), and the statistical discrepancy. These charges are measured as what they would have been if resources used for pollution abate-

ment had been used to produce final product. Business PAC costs are adjusted to market prices to marke them comparable to other values at market prices. 5. Consists of the costs of a business' abatement of its own waste (self service), one business' abatement of another business waste, and related research and development.

6. Includes items not shown separately, insurance and taxes on pollution abatement capital. 7. Consists of the pollution abatement net capital stock multiplied by the ratio of nonlabor earnings to assets for nonfarm corporate business and measures what businesses would have earned if capital used for pollution abatement had been used to produce final product.

8. The amount shown may be added to the net imputed return when a trended rather than an untrended earnings-to-assets ratio is required.

^{4.} Net imputed return is what businesses would have earned if capital used for PA had been used for purposes other than PA (i.e., what businesses forego when they use capital for PA); it is estimated as the PA net capital stock multiplied by the ratio of nonlabor earnings to assets for nonfarm corporate business.

Gross Product of U.S. Multinational Companies, 1977

ESTIMATES of gross product of U.S. multinational companies (MNC's) by industry, country, and component in 1977 are presented in tables 1-5. The estimates are based on data collected in BEA's most recent benchmark survey of U.S. direct investment abroad.¹ Gross product is an economic accounting measure of production. MNC gross product measures U.S. parent companies' contribution to U.S. gross domestic product (GDP) and their foreign affiliates' contribution to foreign GDP. For a business, gross product can be defined as sales plus inventory change less purchases of intermediate goods and services; as such, gross product measures value added by the business. Alternatively, it can be defined as the sum of the charges against production. The MNC estimates presented here were prepared by summing such charges.

The MNC gross product estimates cover nonbank U.S. parents that had at least one nonbank majority-owned foreign affiliate (MOFA), and their nonbank MOFA's. Coverage is limited to these parents and affiliates because, in the benchmark survey, the data needed to estimate gross product were collected only for them.²

Estimates of MNC gross product are valuable in measuring the overall size, economic impact, and distribution of MNC operations among industries and countries. They also can be used to analyze issues such as how MNC productivity compares with that of other businesses and how the income resulting from MNC production is distributed between labor and other factors of production.

Some key findings based on the gross product estimates are:

- U.S. MNC gross product was \$651.7 billion in 1977. U.S. parents accounted for 75 percent, and their MOFA's for 25 percent, of the total. The U.S. parent share was larger than that for MOFA's in every major industry except petroleum, where U.S. parents accounted for 46 percent and MOFA's for 54 percent.
- In manufacturing, U.S. parents accounted for 79 percent, and

MOFA's for 21 percent, of total MNC gross product. The U.S. parent share was largest in primary and fabricated metals (88 percent) and smallest in nonelectrical machinery (70 percent).

- U.S. parent gross product totaled \$490.5 billion and accounted for one-third of all-U.S.-business GDP in 1977. Over three-fifths of U.S. parent gross product was in manufacturing.
- MOFA gross product totaled \$161.1 billion. Affiliates in manufacturing and petroleum accounted for the largest shares of the total—44 and 38 percent, respectively.
- Two-thirds of MOFA gross product was in developed countries and one-third in developing countries. Among individual countries, the gross product of MOFA's in Canada was by far the largest, accounting for over 17 percent of the total.
- MOFA's accounted for particularly large shares of total business GDP in Canada and Libya— 17 percent in each. MOFA shares were also large in Ireland, Luxembourg, Indonesia, and Panama.
- From 1966 to 1977, MOFA gross product grew about 15 percent per year. Growth was somewhat faster in developing countries than in developed countries—16

NOTE.—Arnold Gilbert was responsible for the computer programming for the tables in this article. Ethel J. Wheeler provided statistical assistance.

^{1.} U.S. MNC's are U.S. companies that have direct investment abroad. 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). Detailed data and the methodology of the benchmark 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). Other articles on the benchmark survey data have appeared in the April and October 1981, and February and April 1982, issues of the SURVEY OF CURRENT BUSINESS.

^{2.} MOFA's were defined in the benchmark survey as affiliates that were owned more than 50 percent by all U.S. parents combined and that had assets, sales, or net income of more than \$3 million in 1977. Coverage of the gross product estimates is the same as for data of "Group III" affiliates and their parents in U.S. Direct Investment Abroad, 1977. However, some of the data in this article do not agree with those previously published, because errors found in the latter have been corrected.

Table 1.—Gross Product of U.S. MNC's, by Industry of U.S. Parent, 1977

		Amount			Distribution	n
	Mil	lions of dol	lars		Percent	
	MNC's world- wide	U.S. parents	MOFA's	MNC's world- wide	U.S. parents	MOFA's
All industries	651,665	490,529	161,136	100	75	25
Mining	2,415 853	1,974 680	441 173	100 100	82 80	18 20
Iron Copper, lead, zinc, gold, and silver Bauxite, other ores, and services. Coal and other nonmetallic minerals.	(^D) (^D) (^D) 1,562	(^D) (^D) (^D) 1,294	(^{<i>b</i>}) (^{<i>b</i>}) (^{<i>b</i>}) 268	100 100 100 100	(^D) (^D) (^D) 83	20 (^b) (^b) (^b) 17
Petroleum	4,384	52,052 3,546 2,368	61,999 838 685	100 100 100	46 81 78	54 19 22
Orland gas field services. Petroleum and coal products	1,332 101,137 100,837 (^b)	1,178 43,238 42,941 (^{<i>P</i>}) (^{<i>D</i>})	154 57,899 57,896 -5 8	100 100 100 100 100	78 88 43 43 (^D)	54 19 22 57 57 (^p) 57
Petroleum wholesale trade.	5,109 3,420	2,193 3,075	2,917 345	100 100 100	43	57 10
Manufacturing	382,280	301,286	80,994	100	79	21
Food and kindred products Grain mill and bakery products Beverages. Other	4,976 5,016	21,782 4,088 3,905 13,789	6,088 887 1,111 4,090	100 100 100 100	78 82 78 77	22 18 22 23
Chemicals and allied products Industrial chemicals and synthetics Drugs	28,970 11,259	39,133 23,320 7,697	12,413 5,650 3,562	100 100 100	76 81 68	24 20 32 34 (^p) 17
Soap, cleaners, and toilet goods Agricultural chemicals Other	7,486 (^D) (^D)	4,911 (^D) (^D)	2,575 (^D) (^D)	100 100 100	66 (^D) 83	34 (^D) 17
Primary and fabricated metals Primary metal industries Ferrous Nonferrous	27,318 19.065	35,380 24,800 18,227 6,573	4,829 2,518 838 1,680	100 100 100 100	88 91 96 80	12 9 4 20
Fabricated metal products	12,890	10,579 42,356	2,311 18,046	100 100	82 70	18 30
Farm and garden machinery and equipment. Construction and related machinery Office and computing machines. Other	3,388 10,534 30,263	2,793 8,425 17,621 13,518	13,040 595 2,109 12,642 2,700	100 100 100 100	82 80 58 83	18 20 42 17
Electric and electronic equipment Household appliances	3,639	26,683 2,634 7,084 2,784	5,422 1,005 775 672	100 100 100 100	83 72 90 81	17 28 10 19 17
Other	17,151	14,181 71,302	2,970 17.211	100 100	83 81	
Motor vehicles and equipment Other	62,507 26,006	47,979 23,323	14,528 2,683	100 100	81 77 90	19 23 10
Other manufacturing Tobacco manufactures Textile products and apparel	9,841	64,649 6,023 8,079	16,983 3,818	100 100 100	79 61	21 39
Lumber, wood, furniture, and fixtures	7,322 12,034	6,597 9,708	1,119 725 2,325	100 100	88 90 81 89 74 81 78	21 39 12 10 19
Printing and publishing Rubber products Miscellaneous plastics products	5,916 9,902 1,576	5,260 7,328 1,285	656 2,574 292	100 100 100	89 74 81	11 26 19 22
Glass products	2,792 4,872 13,940 4,240	2,191 3,806 10,656 3,717	601 1,066 3,284 523	100 100 100 100	78 78 76 88	22 22 24 12
Trade	35,276 6,536	31,308 5,058	3,968 1,478	100 100		
Durable goods Nondurable goods Retail trade	2,583 3,953 28,740	1,939 3,119 26,251	644 834 2,490	100 100 100	89 77 75 79 91	11 23 25 21 9
Finance (except banking), insurance, and real estate Finance, except banking	29,230 3.012	22,825 2,488	6,404 524	100 100	78 83	
Insurance	24,835 85 1,108	19,866 72 399	4,968 13 709	100 100 100	80 85 36	22 17 20 15 64
Individuals, estates, and trusts ¹	⁷ 190 88,414	81,084	190 7,329	100 100	••••••	100
Agriculture, forestry, and fishing	(D) (D)	(^D) (^D)	(^D) (^D)	100 100	92 (^D) 71	8 (^P) 29
Transportation, communication, and public utilities Transportation	66,569 18,771 47,798	63,823 17,287 46,536	2,746 1,483 1,262	100 100 100	92 (P) 71 96 92 97 85	4 8 3 15
Services	11,674	9,950	1,724	100	85	15

MNC = multinational company.
MOFA = majority-owned foreign affiliate.
^bSuppressed 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 were required to report 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.

Note.—Data for both U.S. parents and MOFA's are classified in a single industry—that of the U.S. parent. (In tables 2, 3, and 5, data for affiliates are classified by industry of affiliate.) Al-though this table focuses on the MNC as a whole, industry of parent rather than industry of MNC was used for classification because an MNC-wide industry code based on the worldwide con-solidated activities of the MNC was not available from the 1977 benchmark survey.

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Table 2.—Gross Product of MOFA's, Country by Industry of Affiliate, 1977

[Millions of dollars]

· · · · · · · · · · · · · · · · · · ·			[Millio	ns of doll	ars]							·	·	
							Man	ufacturing		·	ı <u> </u>		Fi- nance	
	All indus- tries	Min- ing	Petro- leum	Total	Food and kin- dred prod- ucts	Chemi- cals and allied prod- ucts	Pri- mary and fabri- cated metals	Ma- chinery, except electri- cal	Elec- tric and elec- tronic equip- ment	Trans- portation equip- ment	Other manu- facturing	Trade	(ex- cept 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	161,136	2,912	62,010	71,609	5,598	10,075	4,231	13,555	8,062	13,921	16,165	14,316	1,948	8,341
Developed countries		2,199	25,803	60,223	4,267	7,744	3,551	12,539	6,502	12,362	13,259	12,185	1,473	5,605
Canada		1,198 32	6,110 16,944	15,151 40,441	1,364 2,455	1,623 5,412	1,346 2,091	1,682 9,540	1,276 4,935	3,815 7,705	4,044 8,303	1,944 8,897	910 276	2,468 2,770
Europe European Communities (9)		02 (P)	16,944	40,441 37,306	2,455		1,971	9,056	4,935	7,259	7,679	6,290		ത
Belgium	4,244 672	1	543 (P)	2,605 123	88 26	4,981 524 (P)	110 (P) 165	341	622 46	(P)	l (e)	909 227	216 21 (P) 78 -2 23	165 (P) (P)
France Germany	9,688 18,115	(P) 3	(Þ) 4,424	6,203 12,058	341 519	812 1,242	760	2,122 3,080	655 1,262	1,045 3,290	1,064 1,904	1,177 1,240	(P) 78	e B
Ireland Italy	5,825	0	188 2,430	485 2,744	62 199	152 447	10 114	76 909	32 449	178	146 447	83 490	-2 23	138
Luxembourg Netherlands	. 4,209		23 887 3,793	175 2,235 10,679	0 278 724	(P) 592 1,145	(P) 267 529	32 589 1,905	5 123 930	0 (P) 2,292	(^D) (^D)	678	-4 19 18	0 390 888
United Kingdom Other Europe	· · · ·	(*) (P)	2,550	3,135	218	431	120	484	812	446	3,155 624	1,483 2,607	60	
Austria Greece	. 844		(P) 235	226 100 178 84	25 9	17 37 (P) 250	12 (P)	(P) 0	(P) 9	(P) 0	1 70	313	05	(P) 8 (P) 93 (P) 139 (P) 26
Norway Portugal	1,655 178	(P) (P) 0 0	1,207 (^伊)	178 84	0	(P) (P)	(P) 5	4 (P)	(P) (P)	0 (P)	(P) 27 17	38 233 53 433	-5 (P)	(⁰) (⁰)
Spain	2,019 1,103	0	8	1,479 518	115 (P) (P)	250 49 49	12 (P) 5 38 19 (P)	117 282 42	438 (P)	390 14	130 87	229	-5 ©7 €) 42 0	93 (P)
Switzerland Turkey		0	294 321 (^P) 34	449 69 32	(^b) 2 0	4	0	42	107 (P) (P)	(P)	195 (円) (円)	1,064 12 222	42 0 1	
Other		0	(¹)	32 1,468	(P)	1 228	(*) 11	(P)	62	1	97	434	94	(P)
Japan		968	ല്	3,163	ക	481	102	() ()	228	840	815	910	192	ക
Australia New Zealand South Africa	. 5,578	945 4 19	1,158 (P) (P)	2,458 158 546	256 (P) (P)	381 21 80	63 0 39	225 (P) 104	167 8 53	703 (円) (円)	664 38 114	633 64 213	178 6 8	206 (P) (P)
Developing countries		714	35,334	11,386	1,332	2,331	681	1,017	1,560	1,560	2,906	2,131	475	2,298
Latin America		579	3,072	9,533	1,156	1,981	587	889	920	1,506	2,494	1,495	348	1,009
South America	1,449	195 (⁰) 12	1,668 306 736	7,534 945 5,169	788 73 450	1,518 213 1,003	462	809 145 657	676 46	1,245 179 901	2,036 254 1,392	946 143 311	45 3 26	538 (P)
Brazil. Chile Colombia	162	$(^{+})$	(P) 113	5,165 62 320	450 6 39	1,003 21 91	231 (P) (P)	0	535 (中) 18	(P)	(P)	30 84	0	(⁰)
Ecuador	307	0 (⁰)	(P) 114	35	9 14	10	4 (P)	0	10 5 13	0	6	(P) 49	0 (*)	(P) 231 (P) 13 (P) (P) (P)
Venezuela Other	1,370	(*)	97 (P)	745 184	168 28	165 1	36 (P)	50	45 (P)	115 (P)	212 (P)	304 (P)	10 1	214 (P)
Central America	2,879	29	233	1,863	299	433	122	79 79	242 211	261	426	406	38 7	310
Mexico. Panama. Other	289	29 2 (*) 27	233 21 89 123	1,646 26 191	299 232 (⁰) (⁰)	378 9 46	115 0 6	99 0 0	211 0 32	261 0 (*)	369 (P) (P)	293 73 40	27	82 75 154
Other Western Hemisphere Bahamas	2,230	355 2	1,170 39	136 6	69 2 0	30 5	4 0	0	20	. 0	32 (*)	142 55	266 5	160 50
Bermuda Netherlands Antilles		01	56 (P)	01	1	0 (*)	0	0	Ŭ 0	0	0	49	268 -14	25
Trinidad and Tobago Other		0 352	(P) 138	(P) (P)	(P)	(H) (H)	0 4	0	1 1	0	(P) (P)	4 30	16	() () () () () () () () () () () () () (
Other Africa	6,703 3,449	(P) 0	6,069 3,295	255 40	(P)	39 6	56 (P)	() () () () () () () () () () () () () (31 0		e e	116 32	-8	(^D) 82
Egypt Libya	344	Ŏ	332 2,927	4 (P)	(e) 0 0			() () () () () () () () () () () () () (Ŏ	Ŏ	1 0	32 (P) (P) (P) 84	Ŏ	(P) 0
Other Sub-Saharan	172	(P) 3	36 2,774	(P) 215 2	(P) (P) 2 2	2	(P) (P)		0 31	02	e e	(P) 84	0	(P) (P)
Liberia Nigeria	1,848	0	3 1,736	54		0 24			0 (P)	0	0 (P)	4 (P) (P)		(P) 82 (P) (P) (P) (P) 46 (P) (P) (P)
Other	1,362	(P) (*)	1,035	160 103	(P) (P)	9	(P) 0		(10)	2	(Þ)		1	1
Middle East Israel	22,200 225 21,686		21,120 (^D) 20,764	103 84 19		41 22 17 15	0 0	(*) (*)	23 21 2	0		106 (^P) 42 34	(P) 7 (D)	() () () () () () () () () () () () () (
OPEC Iran Other		0	(P) (P)	16	Ŏ	15	0			0		34	(P) -1 (P) 1	6
Other		(*) 0	ଁ	1	(P)	1	ŏ	(Ф)	ŏ	ŏ	ത്	ല്		6
Other Asia and Pacific Hong Kong	542	(P) 0	5,073 71	1,495 199	$\begin{smallmatrix} 121\\ 2\\ 1 \end{smallmatrix}$	270 19	37 (P) 0	105 22	586 117	51 0	325 (^D)	415 174	(^D) 24	(^D) 73
IndiaIndonesia	210 4,661) (e)	4 394	205 106	2	82 17		105 22 25 0	(^D) 18 80) Ö	(Ř) 69	3		2 (P)
Malaysia Philippines	549	(P) (P) 0	161 (^P) 105	1 1 9 9	(*)	270 19 82 17 12 70 2	(*) (P) (P) 20 0		80 23	2 (P) (P)	(⁰) 77	28 42	(P)	(H) (H)
Singapore South Korea	400	0	0	210 59	(*) 10	1 1		45 (P) (P) 0	23 127 84	0	325 (P) (P) 69 (P) 77 (P) (P) (P) (P)	55 (P)	-1	30 (P)
Taiwan Thailand	260		9 (P)	278 210 59 224 58 33	16 8 3	23 14 30	0	(P) 0	147 (⁰) 2	(P) 0		11 28 42 55 (P) 24 59 (P)	(e) 24 -1 1 (e) -1 (e) (*) (e) (e)	୍ଚ୍ଚ ² ୧) ୧) ୧) ୧) ୧) ୧) ୧) ୧) ୧) ୧) ୧) ୧) ୧)
Other		0	3				0	0	_		-3			
International Addendum—OPEC * 1	1,311	ს დ	873 30,227	963	0 181	0 234	41	0	0 83	0 115		0 427	0 (P)	438 1,190
			00,441	303	101	204	41	<u> </u>	60	110	106	421	L	1,190

MOFA=majority-owned foreign affiliate. * Less than \$500,000 (±). (P) Suppressed to avoid disclosure of data of individual companies. 1. Members of the Organization of Petroleum Exporting Countries (OPEC) are: Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, Venezuela, and United Arab Emirates.

Table 3.—Gross Product of MOFA's, Industry of Affiliate by Country, 1977

[Millions of dollars]

	<u> </u>		Millions		loped coun	tries				Devel	oping cou	Intries		
					Europe			Aus-		2010				
	All coun- tries	Total	Can- ada	Total	Europe- an Commu- nities (9)	Other	Japan	tralia, New Zea- land, and South Africa	Total	Latin Amer- ica	Other Africa	Mid- dle East	Other Asia and Pacif- ic	Interna- tional
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
All industries	161,136	107,487	27,783	69,360	60,576	8,784	3,065	7,279	52,338	16,036	6,703	22,260	7,339	1,311
Mining Metal mining Iron Copper, lead, zinc, gold, and silver Bauxite, other ores, and services Coal and other nonmetallic minerals	765	2,199 1,442 738 225 479 757	1,198 924 563 (^P) (^P) 274	32 (P) (P) (P) (P) (P)	(P) (P) (P) (P) (P) 4	(P) (P) (P) (P) (P) (P) (P)	0 0 0 0 0	968 (P) (P) 309 (P)	714 706 5 313 388 8	579 569 3 250 317 10	() () () () () () () () () () () () () ((*) (*) (*) 0	(P) (P) (P) (P) 1	0 0 0 0 0 0
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 and coal products, nec	$\begin{array}{c} 18,639\\ 17,536\\ 1,103\\ 32,621\\ 26,735\\ 5,839\\ 46\\ 8,897\\ 1,854 \end{array}$	25,803 5,517 5,061 456 (P) 5,083 (P) 5,265 (P)	6,110 2,835 2,722 113 3,078 (P) (P) (P) (P) (P)	16,944 2,220 1,879 341 10,695 5,981 4,691 23 3,292 737	14,394 1,275 (P) 5,981 (P) 23 1,845 (P)	2,550 945 (P) (P) (P) (P) (P) (P) (P) (P) (P) (P)	00000000000000000000000000000000000000	ବିଚିତ୍ରତି <mark>%</mark> ତି	35,334 12,935 12,475 460 (P) 756 (P) (P) (P) (P) (P) (P)	3,072 1,194 1,033 161 (P) (P) (P) (P) 1,149 (P)	6,069 5,447 5,307 141 (P) (P) 0 1 439 (P)	21,120 1,881 1,752 129 (P) (P) 0 0 1,796 (P)	5,073 4,413 4,383 30 400 (P) (P) (P) (P)	873 187 0 187 0 0 0 0 (⁰) (⁰)
Manufacturing	· ·	60,223	15,151	40,441	37,306	3,135	1,468	3,163	11,386	9,533	255	103	1,495	0
Food and kindred products Grain mill and bakery products Beverages Other	5,598 1,246 1,167 3,186	4,267 1,026 815 2,425	1,364 303 216 846	2,455 612 432 1,411	2,237 548 (^D) (^P)	218 64 (⁰) (⁰)	(^D) 2 (^D) 4	(^(P)) 109 (^{P)} 165	1,332 219 352 761	1,156 194 291 671	(P) (P) (P) 18	(P) 0 (P) 1	121 (色) (円) 71	0 0 0
Chemicals and allied products Industrial chemicals and synthetics Drugs Scap, cleaners, and toilet goods Agricultural chemicals Other	3,786 2,803 2,154 389	7,744 3,045 2,120 1,598 174 807	1,623 859 205 311 73 175	5,412 1,997 1,682 1,069 82 582	4,981 1,820 1,583 976 80 522	431 177 99 93 2 60	228 13 99 100 0 16	481 176 134 118 18 34	2,331 741 684 555 215 136	1,981 697 511 457 185 130	39 0 (P) (P) 4 0	41 11 (P) (P) 0 0	270 33 126 80 26 6	0 0 0 0 0
Primary and fabricated metals Primary metal industries Ferrous Nonferrous Fabricated metal products	1,136 465 672 3,095	3,551 809 380 429 2,741	1,346 294 173 121 1,052	2,091 508 201 308 1,582	1,971 448 (P) (P) 1,524	120 61 (P) (P) 59	11 0 0 11	102 7 (*) 95	681 327 84 243 354	587 278 (P) (P) 309	56 (P) 0 (P) (P)	0 0 0 0	37 ල ල ල	0 0 0 0
Machinery, except electrical Farm and garden machinery and equipment Construction and related machinery Office and computing machines Other	2,083 8,047	12,539 872 1,816 7,584 2,267	1,682 15 269 950 448	9,540 793 1,372 5,714 1,661	9,056 (P) 1,263 (P) 1,533	484 (P) 110 (P) 128	(P) (P) (P) 36	(P) 63 (P) 122	1,017 95 267 463 191	889 95 254 (P) (P)	(P) 0 (P) 0	၉ ၉ ၉ ၉ ၉	105 0 (P) 81 (P)	0 0 0 0
Electric and electronic equipment Household appliances Radio, television, and communication equipment Electronic components and accessories Other	1.414	6,502 1,308 (^{P)} 1,006 (^{P)}	1,276 586 177 (P) (P)	4,935 625 (^{P)} 830 (^{P)}	4,123 551 (P) (P) (P)	812 75 (P) (P)	62 0 62 0	228 97 (P) (P)	1,560 106 (^P) 537 (^P)	920 89 330 151 350	31 0 (P) 5 (P)	23 0 ල 5 ල	586 17 (円) 376 (円)	0 0 0 0
Transportation equipment Motor vehicles and equipment Other	13,921 13,584 337	12,362 12,063 299	3,815 3,640 176	7,705 7,591 114	7,259 7,145 114	446 446 0	1 1 0	840 831 9	1,560 1,521 39	1,506 (P) (P)	2 2 0	0 0 0	51 (円) (円)	0 0 0
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	3,506	13,259 (P) 809 661 1,658 394 1,520 407 509 911 2,541 (P)	4,044 (P) 253 553 1,100 99 535 57 (P) 366 425 232	8,303 2,523 518 93 481 252 863 280 378 500 1,952 463	7,679 (P) 451 89 433 (P) 754 (P) 391 1,876 429	624 07 5 48 109 109 109 109 109 5 5 5	97 0 1 2 (P) 1 0 (P) 0 (P) 40 20	815 (P) 37 12 (P) 422 122 (P) (P) 124 (P)	2,906 (P) 202 79 508 37 860 91 114 157 229 (P)	2,494 (P) 178 19 476 32 646 87 114 (P) (P)	ଶ୍ <u></u> ଶ ୩ ୩ ୩ ୩ ୩ ୩ ୩ ୩ ୩ ୩ ୩ ୩ ୩ ୩ ୩ ୩ ୩ ୩ ୩	စ္က ၀ ၀ ၀ ၀ ၀ ၀ ၀ ၀ ၀ ၀ ၀ ၀ ၀ ၀ ၀ ၀ ၀ ၀ ၀	325 1 22 色 5 色 4 1 0 色 色	0 0 0 0 0 0 0 0 0 0 0 0 0 0
Trade Wholesale trade Durable goods Nondurable goods Retail trade	14,316 11,301 8,825 2,476 3,015	12,185 9,524 7,534 1,990 2,661	1,944 875 703 173 1,069	8,897 7,628 6,013 1,615 1,269	6,290 5,150 3,985 1,165 1,140	2,607 2,478 2,028 450 129	434 375 239 135 59	910 646 579 67 264	2,131 1,776 1,290 486 354	1,495 1,195 867 328 300	116 (P) 101 (P) (P)	106 (P) 95 (P) (P)	415 (P) 227 (P) (P)	0 0 0 0
Finance (except banking), insurance, and real estate Finance, except banking Insurance Real estate Holding companies Individuals, estates, and trusts	1,948 890 969 63 25 0	1,473 727 709 44 -6 0	910 303 595 27 	276 235 22 13 6 0	216 192 17 12 -4 0	60 44 5 1 10 0	94 (P) (P) 1 1 0	192 (^b) (^c) 3 2 0	475 164 260 20 32 0	348 70 248 1 29 0	-8 -13 4 (*) 1 0	() () () () () () () () () () () () () (ම ල ල ල ල ල ල ල ල ල ල ල ල ල ල ල ල ල ල ල	0 0 0 0 0 0
Other industries Agriculture, forestry, and fishing Construction Transportation, communication, and public utilities Transportation Communication and public utilities Services	8,341 405 2,416 1,590 791 799 3,929	5,605 48 1,543 1,035 327 708 2,978	2,468 (P) (P) (P) (P) 621	2,770 20 515 133 (^P) 2,102	(P) 17 479 (P) 68 (P) 1,761	(P) 36 (P) (P) 341	ල (•) ල ම ම න න	(P) (P) (P) 0 0 0 173	2,298 357 873 118 26 91 951	1,009 259 225 64 22 42 461	(P) 44 103 (P) 2 (P) 25	(P) 3 404 (P) 0 (P) 404	(P) 50 141 (P) 2 (P) 60	438 0 438 438 0 0

MOFA = majority-owned foreign affiliate. * Less than \$500,000 (±). ^D Suppressed to avoid disclosure of data of individual companies.

percent compared with 15 percent.3

• By component, the share of total gross product accounted by employee compensation was larger, and the shares accounted for by profit-type return and indirect business taxes smaller, for U.S. parents than for MOFA's.

3. These rates were computed using unpublished estimates of MOFA gross product in 1966, the year cov-ered by BEA's previous benchmark survey. The rates are only a rough indicator of MOFA growth because the 1966 and 1977 gross product estimates from which the rates were calculated differ somewhat in methodology and coverage.

Overall, the MNC gross product estimates are highly consistent conceptually with national income and product account (NIPA) estimates of all-U.S.-business GDP. Exhibit A compares the NIPA and MNC methodologies and shows that the net effect of the conceptual differences is very small-\$4.4 billion (line 22), or less than one-half of 1 percent of all-U.S.business GDP.

The effect of conceptual differences on individual NIPA and MNC components is, however, more significant. For MNC's, these components are compensation of employees, profittype return (PTR), net interest, indirect business taxes, etc., and capital consumption allowances (CCA). Perhaps the most important conceptual difference between the MNC and the corresponding NIPA components arises because of differences in the measurement of depreciation. NIPA depreciation charges are based on Federal income tax returns; therefore, valuation of these charges reflects accounting practices under Internal

Table 4.—Gross Product of MOFA's Compar-	ed with Business GDP for	Selected Host Countries, 1977
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[Millions of dollars]

1	MOFA gro	ss product	Host cour	Adjusted MOFA gross							
	As shown in table 2	Adjusted for comparabil- ity	Total	Business, adjusted for comparabil- ity	MOFA gross product as a percent of adjusted host country business GDP (col. $2 \div \text{col.} 4$)						
	(1)	(2)	(3)	(4)	(5)						
Developed countries:											
-											
Australia Austria	5,578 844	5,400 844	100,128 47,952	82,631 34,961							
Belgium	4,244	4,223	79,185	64,479							
Canada	27,783 9,688	26,873	199,672	162,876	17						
France	9,000	9,635	381,650	278,239							
Germany	18,115	18,037	515,503	409,870	4						
Greece	389	384	26,160	21,998							
Ireland	762	764	9,384	7,852	10						
Italy Japan	5,825 3,065	5,802 2,971	215,299 693,833	152,344 547.033	. 4						
opa	•	,		011,000							
Luxembourg	198	202	2,823	1,729	12						
Netherlands	4,209	4,190	103,092	74,652							
New Zealand Norway	384 1,655	378 1,660	14,689 35,769	11,819 30,260	i						
Norway	178	1,000	16,307	15,338							
-				· ·							
South Africa	1,317	1,309	39,802	32,162	44						
Spain Switzerland	2,019 2,015	2,012 2,015	120,829 60,657	100,008 60.657	4						
Switzeriang	2,015	2,015	47.922	39,279	1						
United Kingdom	16,861	16,843	247,298	198,266							
Developing countries:											
Argentina	1,449	1,446	52,121	50,558							
Brazil	6,485	6,459	164,161	133,703							
Chile	162	162	13,368	11,148	1						
Columbia	532 307	526	19,459	18,373							
Ecuador	307	307	6,495	5,154	t						
Egypt	344	344	14,259	12,058	1						
Hong Kong	542	518	13,050	10,463							
India.	210	211	105,349	94,955	11						
Indonesia Iran	4,661 3,071	4,660 3,072	45,809 76,024	40,575 58,619							
		1	,								
Israel	225	218	14,723	10,598							
Liberia Libya	44 2,934	56 2,934	861 19,476	741 17,234	5 T						
Malaysia	2,534	2,934	13,140	12,401							
Mexico	2,050	2,043	74,191	63,350							
Nigeria	1,848	1,846	50,194	43,738	1						
Panama	289	262	2,170	1,861	14						
Peru	404	404	13,639	11,983							
Philippines	549	549	20,996	20,966							
Singapore	400	401	6,547	5,635	ļ 1						
Cingapor Companya Cingapor Companya Cingapor Cin				1	1						
	79	79	35,378	31,620	1						
South Korea Thailand	79 254 1.370	79 254 1,360	35,378 19,264	31,620 17,319 29,217							

MOFA = majority-owned foreign affiliate. GDP = gross domestic product. *Less than 0.5%.

Nore.—This table provides only a rough indication of the contribution of MOFA's to total busi-ness activity in selected host countries. Estimates of host country GDP are from the World Bank's unpublished Handbook of National Accounts and were compiled largely according to the United Nations System of National Accounts. The countries shown are those in table 2 for which World Bank GDP estimates were also available. Host country business GDP excludes data for nonbusiness sectors (governments and households) and the statistical discrepancy. Adjustments to both the business GDP and MOFA data were necessary because the GDP data do, but the MOFA gross product estimates do not, cover banking. GDP in banking was not shown separately in the World Bank data, but instead was included as a part of "banking, insurance, and real estate." To

make coverage of the host country and MOFA data the same, the GDP data were adjusted to exclude "banking, insurance, and real estate" and the MOFA data were adjusted to exclude "fi-nance (except banking), insurance, and real estate." (In the World Bank data, "banking, insur-ance, and real estate" covers both banking and all other financial business) Exclusion of nonbusi-ness sectors and adjustments for banking could not be made for particular countries because the necessary data were not available separately. Average exchange rates were used to translate GDP from foreign currencies into U.S. dollars. Foreign affiliate data in the 1977 benchmark survey were reported in dollars. In translating for-eign affiliate data to dollars, companies were required to follow generally accepted accounting principles. While translation does not affect comparisons of affiliate banes of foreign business GDP, it can affect comparisons among countries of levels of both business GDP and MOFA gross product. For a discussion, see Ned G. Howenstine, "Gross Product of Foreign Affiliates of U.S. Companies," SURVEY OF CURRENT BUSINESS 57 (February 1977): 26.

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Revenue Service regulations.⁴ MNC depreciation charges, in contrast, are drawn from accounting records on which annual reports are based, and may not conform to tax regulations. This difference affects both PTR and CCA. Although the effects on these two components cannot be quantified, they are offsetting; thus, total gross product is not affected.⁵

NIPA and MNC gross product data disaggregated other than by component also may not be as comparable as the totals. Because sources of data for the MNC and NIPA estimates differ, differences in timing, valuation, and industry classification, among others, could significantly affect comparisons.

4. Two measures of capital consumption are used in the NIPA's: CCA and CCA with capital consumption adjustment (CCAdj). In the former, depreciation is based on the acquisition cost of assets. In the latter, depreciation is based on estimates of the current replacement cost of assets, uniform asset service lives, and uniform depreciation formulas, and is designed to provide a consistent measure over time of the using up of capital in production. CCA, rather than CCA with CCAdj, is shown in exhibit A because it is conceptually closer to the MNC measure.

5. For a more detailed discussion of the difference between NIPA and MNC depreciation, see Ned G. Howenstine, "Gross Product of Foreign Affiliates of U.S. Companies," SURVEY 57 (February 1977): 28. Table 5.-Gross Product of U.S. Parents and MOFA's, Industry by Component, 1977

[Millions of dollars]

[amon or convo]									
	Gross product	Compen- sation of employ- ees	Profit- type return	Net interest	Indirect business taxes, etc.	Capital con- sumption allow- ances			
U.S. parents: ¹									
All industries Mining	$\begin{array}{c} 1,974\\ 52,052\\ 301,286\\ 21,782\\ 39,133\\ 35,380\\ 42,356\\ 26,683\\ 71,302\\ 64,649\\ 31,308\end{array}$	305,504 1,179 17,093 204,782 13,142 22,959 27,347 28,708 19,210 53,030 40,386 20,916 14,166 47,368	103,375 369 16,008 58,005 4,826 10,023 2,871 9,552 4,980 12,437 13,317 5,121	$\begin{array}{c} 9,823\\ 41\\ 2,140\\ 4,363\\ 519\\ 1,025\\ 1,143\\ 272\\ 309\\ -650\\ 1,745\\ 1,600\\ -2,849\\ 4,529\end{array}$	$\begin{array}{c} \textbf{32,642} \\ \textbf{148} \\ \textbf{9,913} \\ \textbf{13,734} \\ \textbf{2,021} \\ \textbf{1,346} \\ \textbf{1,086} \\ \textbf{822} \\ \textbf{796} \\ \textbf{3,108} \\ \textbf{4,555} \\ \textbf{2,230} \\ \textbf{1,988} \\ \textbf{4,630} \end{array}$	39,185 237 6,898 20,402 1,274 3,781 2,933 3,003 1,388 3,378 4,646 1,409 803 9,436			
All industries	62,010 71,609 5,598 10,075 4,231 13,555 8,062 13,921	$\begin{array}{c} \textbf{59,534}\\ \textbf{997}\\ \textbf{4,876}\\ \textbf{40,416}\\ \textbf{3,136}\\ \textbf{5,3666}\\ \textbf{2,271}\\ \textbf{7,551}\\ \textbf{5,404}\\ \textbf{8,127}\\ \textbf{8,109}\\ \textbf{6,971}\\ \textbf{855}\\ \textbf{5,420} \end{array}$	$\begin{array}{c} \textbf{52,197}\\ 863\\ 28,978\\ 14,852\\ 1,415\\ 2,624\\ 8390\\ 3,520\\ 1,873\\ 2,887\\ 2,643\\ 4,063\\ 1,604\\ 1,837\end{array}$	$\begin{array}{c} 2,778\\ 191\\ 848\\ 1,929\\ 205\\ 511\\ 152\\ 200\\ 229\\ 225\\ 429\\ 335\\ -657\\ 132\end{array}$	35,409 416 24,143 8,887 521 693 158 630 657 2,105 4,074 1,645 90 278	$\begin{array}{c} 11,218\\ 445\\ 3,165\\ 5,575\\ 321\\ 882\\ 311\\ 1,654\\ 419\\ 1,077\\ 910\\ 1,304\\ 56\\ 673\end{array}$			

MOFA = majority-owned foreign affiliate. 1. U.S. parent data are classified by industry of parent; MOFA data are classified by industry of affiliate.

NOTE.—Tables showing U.S. parent and MOFA gross product data by component for more detailed industries, and MOFA gross product data by component cross classified by country, are available at cost from Bureau of Economic Analysis (BE-50, RB), U.S. Department of Commerce, Washington, D.C. 20230.

Exhibit A.-Comparison of U.S. MNC and NIPA Gross Product Methodology

NIPA component		Billions of dollars		Billions of dollars MNC gross product in 1977		
		GDP of all U.S. business in 1977 ¹	MNC components compared with NIPA's	U.S. parents	MOFA's	
Total (2+5+9+14+18)	. 1	1488.3	n.a.	490.5	161.1	
Compensation of employees (3+4) Wages and salaries Supplements to wages and salaries	. 3	893.4 760.7 132.7	n.a. Same as NIPA's Same as NIPA's	305.5 250.2 55.3	59.5 48.6 10.9	
Profit-type return (6+7+8) Corporate profits before tax and proprietors' income, both before adjustments in line 8 (on a tax return basis)	5 6	256.9 261.6	n.a. Same as NIPA's (except on annual report basis)	103.4 103.4	52.2 52.2	
Corporate and proprietors' inventory valuation adjustments Bad debt; depreciation of expenditures for mining exploration, shafts, and wells; and other adjustments that could not be made for MNC's.	. 7 8	-17.4 12.7	Not included Not included	Not included Not included	Not included Not included	
Net interest (10+11-12-13) Monetary interest paid Imputed interest paid Less: Monetary interest received Less: Imputed interest received	$ \begin{array}{c c} 10 \\ 11 \\ 12 \\ 12 \end{array} $	32.3	Same as NIPA's	9.8 (?) (?) (?) Not included	2.8 (?) (?) (?) Not included	
Indirect business taxes, etc. (15+16-17) Indirect business taxes and nontax liability Business transfer payments Less: Subsidies	. 16		n.a. Same as NIPA's Not included Same as NIPA's	32.6 32.6 Not included 40	35.4 36.0 Not included .6	
Capital consumption allowances (19+20) Depreciation (on a tax return basis) before adjustments in line 20	. 18 19	142.0 135.8	n.a. Same as NIPA's (except on annual report basis)	39.2 39.2	11.2 11.2	
Depreciation of mining exploration, shafts, and wells; and other adjustments that could not be made for MNC's	20	6.1	Not included	Not included	Not included	
Addenda: GDP of all U.S. businesses excluding items that were not included in MNC gross product (1-7-8+13-16-20) or (1-22).	21	1483.9	n.a.	n.a.	n.a.	
Net effect on all-U.Sbusiness GDP of items that were not included in MNC gross product (-7-8+13-16-20)	22	4.4	n.a.	n.a.	n.a.	

MNC=multinational company. MOFA=majority-owned foreign affiliate. NIPA=national income and product account. GDP=gross domestic product. n.a.=Not applicable. 1. Excludes GDP of banks, government and government enterprises, and private households; imputed gross product of owner-occupied farm and nonfarm housing; rental income of persons; and the statistical discrepancy. 2. Not available separately. 3. Imputed interest neid by MNC's that are completed investment of the statistical income of persons.

Not available separately.
 Imputed interest paid by MNC's that are regulated investment companies was not included; however, such imputed interest paid was probably negligible.
 Imputed interest paid by U.S. parent companies were not collected in the 1977 benchmark survey. Subsidies are assumed to be zero for U.S. parents because few U.S. parents were in the industries that receive most of the subsidies in the United States.

Macroeconomic Effects of Price Shocks: A Simulation Study

RESPONSIBILITY for the high rate and acceleration of general price inflation in the United States that characterized most of the last decade, as well as for declines in real economic activity, has often been attributed to a large extent to accelerations of primary commodity prices.¹² Frequently, surges in such prices stemmed from abrupt changes is supply conditions. Well-known examples are the price explosions that accompanied or followed the shortfalls in the supplies of grain and other foodstuffs in 1972-73 and OPEC's curtailments of crude oil production in 1973-74 and 1978-80. Price responses, whether they result from the impersonal mechanism of the market or from decisions by members of a cartel, are the natural concomitants of these "supply shocks" and tend to clear the market under the new supply conditions.

Other commodity price increases resulted from "demand shocks." For example, prices of nonferrous metals rose sharply in 1972-73 in the wake of simultaneous upswings in the business cycle in the industrial nations, while increases in the productive capacity for many of these metals were limited.

A third class of price shocks, not precipitated by either supply or demand shocks, may be called "institutional" price shocks. They are the result of (public or private) policy decisions. Recent examples were the introduction and subsequent removal of general price and wage controls in 1971-74 and the decontrol of domestic crude oil during 1978-81.

In conventional macroeconometric models. which are essentially demand-driven, supply shocks (with market-clearing price responses) and institutional price shocks are handled in the same way. From the standpoint of the model—as from that of buyers in actual markets-these two kinds of shocks are basically indistinguishable. both appearing as price shocks. Thus, in order to incorporate them into a model simulation or forecast, it is usually necessary first to translate them into their mirror-image price shock.3

A demand shock, unlike a supply shock, can usually be incorporated as an explicit model input. A shift in demand can be represented by such variables as a change in sales, orders, inventories, or capacity utilization; the resulting price change is an endogenous response. Of course, if the demand shock originates abroad and does not impinge primarily on U.S. exports, the resulting change in world commodity prices is, from the U.S. point of view, again a purely exogenous price shock.

Previous studies of price shocks have largely concentrated on prices of energy and food. This article, in contrast, analyzes and compares shortand medium-term effects on major macroeconomic variables of a broad variety of price shocks as estimated from simulations with the BEA quarterly econometric model. More specifically, the prices subjected to shocks include prices of both primary commodities (or "basic materials") and final products.⁴ The variables affected include GNP, major GNP components, the GNP and personal consumption expenditures implicit price deflators, shares of national income by type of income, the unemployment rate, and interest rates. In all but one of the cases-an increase in farm product prices-the cause of the shock (i.e., whether a supply or a demand shift or a policy decision) is not specified; rather, the shock is treated as an exogenous price change.

The simulations are highly stylized rather than faithful representations of the real world, so that one can derive useful generalizations. However, approximations to realistic cases can often be made by appropriate interpolation or extrapolation. On the basis of this study, two generalizations can be made concerning the effects of price shocks: (1) The effects on real GNP and unemployment, as well as on the general price level, are usually strong; and (2) the magnitudes of effects differ substantially these among different types of shocks and are also sensitive to the economic and monetary policy environments in which they occur.

The first section of the article outlines the structure of the price-wage sector of the BEA model to provide the necessary background for understanding the mechanisms involved in

Note.—Otto Eckstein, Marvin Kosters, Joel Popkin, and Richard Wertheimer made helpful comments on a preliminary draft of this article. The extensive underlying computer simulations were performed by Bruce Baker.

^{1.} See, for example, Otto Eckstein, Core Inflation (Englewood Cliffs, N.J.: Prentice Hall, 1981) and Barry P. Bosworth and Robert Z. Lawrence, Commodity Prices and the New Inflation (Washington, D.C.: The Brookings Institution, 1982).

^{2. &}quot;Primary commodities" consist of crude materials (such as crude oil, foods and feeds, and iron ore) and materials that have passed through initial stages of processing (such as wood products and fibers).

^{3.} Conventional models often do contain certain breakdowns of production sectors, with outputs as well as prices of these sectors feeding back into the main sector. The farm sector in the BEA quarterly econometric model, which is used in the simulations described in this article, is of this type. Indeed, one of the price shock cases to be analyzed in this article stems from an assumed shortfall of farm output; in that case, both output and price variables explicitly affect the overall model results.

^{4.} The distinction between "primary commodities" and "basic materials" is explained below.

the price-shock simulations.⁵ The second section describes the general methodology used in the simulations and the cases for which simulations were run. The final section presents and analyzes the results.

The Price-Wage Sector: An Overview

In the BEA model, prices-or more precisely, implicit price deflators (hereafter referred to as "deflators"), as defined in the national income and product accounts (NIPA's)-are largely determined in a "stage-of-processing" framework. Producer prices of energy and farm products and prices of imported commodities are exogenous.⁶ Together with wage rates or unit labor costs and demand pressure variables, such as capacity utilization. the unemployment rate, or manufacturers' new orders, energy and import prices explain producer prices of five classes of "basic materials," the lowest tier of endogenous prices: the five commodity groups are primary iron and steel products, primary nonferrous metal products, nonmetallic mineral products, lumber and wood products, and primary nondurable products.7

Basic materials prices, along with variables (including energy prices) similar to those used in the equations for basic materials prices, in turn determine producer prices of finished consumer goods and, through the latter, deflators for corresponding personal consumption expenditures (PCE) components and for business purchases of motor vehicles. Similar equations determine (directly) deflators for nonconsumption goods purchases. In addition, the producer price index for farm products largely explains movements in the PCE deflator

for food and beverages and producer energy prices determine corresponding PCE deflators for energy products. Other equations, not involving intermediate goods prices but with the wage rate or unit labor cost playing the dominant role, explain movements in deflators for nonenergy services (except the deflator for government employee compensation, which is exogenous).

The basic wage-rate variable—the change in compensation per hour for the nonfarm business sector excluding housing-depends primarily on the inverse of the overall unemployment rate (adjusted for changes in the "high-employment" unemployment rate) and lagged changes in the PCE price deflator. The inverse form of the unemployment rate introduces an important nonlinearity into the model and is based on the assumption that in tight labor markets (reflected in low unemployment rates), wage rates respond much more sensitively to the availability of workers than in loose labor markets. Short- and long-run changes in the PCE deflator have different influences on the change in the wage rate; the short-run elasticity (i.e., up to 1 year) of the wage rate with respect to consumer prices is 0.5, while the long-run elasticity is 0.9. These graduated effects are based on assumption that short-run the changes in the inflation rate are much less firmly implanted in expectations of future inflation than are longer run changes and, accordingly, have less of an influence on wage rates. The differential also reflects the short-run fixity of union wage contracts.

fects), and money supply that are the subjects of the multiplier analysis and, accordingly, are the variables that are changed exogenously.⁸ For this study, it is price indexes or implicit price deflators that are "shocked" (i.e., changed), in each case by a fixed percentage, although these percentages differ for different cases, as will be explained shortly.

In linear models, multipliers are fixed parameters of the system; i.e., once such a model has been estimated, its multipliers can be directly calculated and taken to be valid under all economic environments and for different assumed amounts of exogenous change. Because most macroeconometric models, including the BEA model, are-realistically-nonlinear, such invariance does not hold; accordingly, multipliers must be determined by model simulation under specified conditions. The procedure is to run a "control" solution of the model. obtain another solution with the changed input (in the present study. the price shocks), and finally, to measure the differences between corresponding outputs of the shocked and the control solutions.

Two control solutions, each extending over a 5-year (20-quarter) period and representing different cyclical states of the economy, were utilized. In one control solution, a relatively high unemployment rate—between 7½ and 8 percent (i.e., near the midpoint of its actual range during the last 5 years)—was maintained; in the other, a relatively low rate—between 5½ and 6 percent—was maintained.⁹

Description of Model Simulations

General methodology

The analysis of price shocks in a macromodel context is essentially an adaptation of "multiplier" analysis. Multipliers measure the changes in endogenous variables that are induced by a unit change in an exogenous variable or by an exogenous change in an endogenous variable. Usually, it is such policy-determined variables as Federal expenditures, taxes (tax rates or direct receipts ef-

9. Each of these solutions was obtained by running the model over a historical period and modifying se lected exogenous variables-mainly major fiscal and monetary policy variables-relative to actual values in order to bring the unemployment rate within the desired range throughout the simulation period. More specifically, the high-unemployment control solution was obtained by running the model over the period 1976-80; for the low-unemployment solution, the period 1978:2 through 1983:1 was used. (Exogenous variables for the latter portion of the second period are pragmatic projections, rather than realistic forecasts.) Although, from the standpoint of making comparisons, it would have been desirable to use a common period, the use of different periods was dic-tated by the practical requirement that in each instance, historical levels of the unemployment rate in the early quarters of the simulation period be within or near the desired range.

^{5.} A full description of this sector is given in Albert A. Hirsch, "A Stage-of-Processing Price Sector for the BEA Quarterly Econometric Model," BEA Working Paper 1, September 1982. (See the abstract in the SURVEY OF CURRENT BUSINESS, 62 (December 1982):10.)

^{6.} Energy prices used in the model are the producer price indexes for coal, refined petroleum products, gas fuels, and electric power. If assumed changes in energy prices are given in terms of crude materials, such as crude oil, they must first be translated into appropriate producer prices by extraneous calculations.

tions. 7. "Basic materials" overlap but differ somewhat from "primary commodities" in that they include commodities that have undergone a substantial amount of initial processing and exclude crude materials.

^{8.} See Albert A. Hirsch, "Policy Multipliers in the BEA Quarterly Econometric Model", SURVEY, 57 (June 1977): 60-71.

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All of the price-shock simulations were run with the high-unemployment control solution; in one case, the low-unemployment solution was also used in order to examine the sensitivity of the results to this alteration of the economic environment.

For each shocked solution, exogenous adjustments to the relevant price indexes or deflators were made as follows. Where the shocked price index or deflator is itself exogenous, its level was set in each quarter at a fixed percentage above its corresponding control solution level. Where the price index/deflator is endogenous, adjustments were made to the intercept of the equation that explains it in order to yield a fixed-percentage increase in the price, before model feedbacks, relative to corresponding control solution levels.

For multiplier analysis in which income or product flows are shocked, it is meaningful to compare results for common dollar amounts of all shocks. The appropriate analog for price multipliers, however, involves shocks of varying sizes because different prices have different weights in terms of the proportion of GNP that is directly affected. The approach used to solve the weighting problem, and thereby to facilitate comparisons among price shocks, was to scale the size of each shock so that its "direct" effect (i.e., its effect before system feedback) on the GNP deflator is a common fixed-percentage increase.

More specifically, the size of each shock was set so as to raise the GNP deflator 1 percent above its corresponding control solution level by the fourth quarter after the introduction of shock, as a result of direct effects only.¹⁰ Normalization in the fourth quarter allows for lags in passthroughs of intermediate goods (energy, basic materials, and farm products) prices. For a shock in the deflator for a final-demand component, the direct effect is the percentage increase in the deflator multiplied by the relative weight of that component in real GNP. For a shock in the price of an intermediate good, the direct effect on the GNP deflator is calculated on the basis of the passthrough of the price (i.e., cost) increase to final-product prices.¹¹

Where necessary, the direct effect was sorted out from indirect (i.e., model feedback) effects by a simulation in which all the normally endogenous variables in the model except prices were exogenized. An important variable in the exogenized set is the private nonfarm sector wage rate, which accounts for most of the system feedback to prices. (In addition, certain other adjustments to eliminate inappropriate feedbacks were made.)

Ad-hoc modifications to model structure.—Certain aspects of the BEA model's structure that are not critical for most applications of the model are significantly misspecified if it is used to analyze price shocks, especially for periods longer than 2 to 3 years—the typical forecasting horizon over which the model is considered useful. Accordingly, the following special modifications to the structure were introduced for this study.

(1) Government purchases of goods and services are ordinarily exogenous in current dollars because they reflect budgetary appropriations, which are, of course, made in current dollars. In reality, however, when there are large unexpected price changes, real purchases will not be modified to compensate fully for them. Accordingly, the following assumptions were made: (a) All national defense purchases were made exogenous in real terms; i.e., real purchases are unresponsive to price shocks; and (b) current-dollar State and local noncompensation purchases were increased by one-half of the relative increase in the deflator for these purchases; i.e., the elasticity of real purchases with respect to their price was assumed to be -0.5.

(2) Federal transfer payments to persons other than unemployment in-

surance benefits, which are ordinarily exogenous, were assumed to respond to the lagged change in the Consumer Price Index (CPI) to reflect the actual indexation of most transfer payments. Specifically, social security benefits were fully indexed to the CPI and other Federal transfers were assumed to increase in the shocked solution relative to the control solution by 0.25 times the corresponding difference in the lagged CPI due to a price shock.

(3) Because there is a tendency to adjust wage rates in the government comparable sector to wage-rate changes in the private sector (although in recent years, less than proportionally), government employee compensation payments and deflators (both exogenous) were modified in the price-shock simulations by setting the percent difference from the control solution values in the compensation deflators in guarter t equal to 0.7 times the corresponding difference in private nonfarm compensation per hour in quarter t-2.12

(4) Crude adjustments were made to the foreign exchange rate in response to changes in net foreign investment and in short-term interest rates that are induced by the price shocks. The change in the value of the dollar, in turn, affects the volume of exports and the deflator for imports.

Monetary accommodation of price shocks.—The question arises what assumption should be made about monetary policy in the presence of price shocks. The assumption used for most of the simulations analyzed in this article is that monetary policy is nonaccommodating. Specifically, the M2 variant of the money supply, which is the principal exogenous monetary policy instrument in the BEA model, is held unchanged from its control solution levels in the shocked solution.¹³

The rationale for this course is that with the money supply fixed, a price shock should result (allowing suffi-

^{10.} Although, as noted, in a nonlinear system, multipliers can vary with the size of the exogenous change, such variability is in fact small, at least over a moderate range of variation of the input. Accordingly, no simulations of larger or smaller changes in any price were prepared for this article. Similarly, experimentation showed that positive and negative price shocks of the same magnitude have approximately symmetric effects; accordingly, no instances of negative price shocks are reported.

^{11.} Insofar as pass-throughs of energy and basic materials prices to products prices are determined by input-output coefficients, pass-throughs are constrained to be on a dollar-for-dollar basis. However, in certain equations pass-throughs are determined from regression-based estimates. Thus, one cannot be certain as to how much the system estimates of passthroughs deviate from a strict dollar-for-dollar effect.

^{12.} In reality, adjustments in social security benefits and Federal pay normally occur only once a year—on July 1 for the former and on October 1 for the latter. However, in keeping with the stylized nature of these simulations, these seasonal elements were not introduced.

^{13.} M2 contains small time and savings deposits, money market funds, overnight repurchase agreements, and Eurodollar deposits, in addition to demand deposits, other checkable deposits, and currency, which define M1. M1 is endogenous in the model and is related to M2.

cient time for market participants to make adjustments) in a change in relative prices, but not in the aggregate price level or, in the long run, in the level of economic activity. This outcome would materialize, according to theory, because the exogenous price increase induces substitution by purchasers toward commodities whose prices did not initially increase (and that have, therefore, fallen in a relative sense) and away from the commodity whose price increased. This demand response, in turn, tends to reduce the price of the shocked commodity, thus partly offsetting the initial increase, and to increase the prices of the substituted commodities.

"accommodative" An monetarv policy cannot be unambiguously defined. The criteria for such a policy can be specified alternatively in terms of monetary aggregates, interest rates (short-term or long-term), or measures of economic activity, such as real output or employment (or its complement, unemployment).¹⁴ For this study, a monetary accommodation assumption was specified in terms of a monetary aggregate. Specifically, M2 was set 1 percent above the control solution levels (i.e., the levels maintained in nonaccommodating cases).¹⁵ Alternative simulations (i.e., with accommodation) were run for the case in which the low- as well as the highunemployment control solution was used.

The rationale for this criterion of accommodation is that if prices of commodities other than the shocked commodities are "rigid," i.e., unresponsive to demand shifts, the 1-percent increase in the money supply is just enough to satisfy the additional transactions demand for money associated with the directly generated 1percent increase in the GNP deflator; it is not enough, however, to satisfy the additional transactions demand associated with the secondary changes in the price level (i.e., price-wage feedbacks resulting from the price shock). With a stable velocity of money (ratio of the money supply to current-dollar GNP), there would be no change in real GNP other than that resulting from secondary price effects.¹⁶

Although a more accommodating criterion—for example, increasing the money supply to satisfy the additional transactions demand associated with the secondary changes in the price level—could have been used, this was not done because the intent was only to bracket the probable monetary response. Of course, there is a broad spectrum of policy responses-one that includes fiscal as well as monetary policy-that could be used to mitigate the effects of an exogenous price shock. Model simulation could also be used to study the mitigating effect of these policy responses, but this kind of analysis is beyond the scope of this article.

Price shock cases

Simulations with the BEA model were run for seven cases, designated by the name of the price that is shocked. The first three cases relate to increases in the prices of primary commodities or basic materials. The remaining four cases relate to increases in the prices of final products. Except in case 4, price increases are for specific commodities (or commodity groups) or services; these increases therefore result (at least initially) in relative price changes. In case 4, the price increase is for goods and services in general (represented by simultaneous increases in final-product deflators). The final three cases relate to specific final products with differing elasticities of demand or impacts upon wage rates and are designed to study the macroeconomic effects of these factors.

In order to indicate the sensitivity of results to different economic environments and to different assumptions about monetary accommodation, alternative simulations were run for case 1 with accommodating monetary policy, using the high-unemployment control solution, and with and without accommodating monetary policy, using the low-unemployment control solutions.

Case 1. Price of domestic crude oil.-To reflect an increase in the price of domestic oil, the producer price index (PPI) for refined petroleum was increased about 21 percent above corresponding control solution levels.¹⁷ Also, the PPI for electricity was increased 2.3 percent, an amount that reflects the small share of oil as a fuel source for electricity generation. Under an assumed long-run price elasticity of demand for oil of -0.25, the increase in the price of oil results in a reduced volume of oil imports (which are exogenous in the model).

Case 2. Price of primary iron and steel products.—The PPI for primary iron and steel products, an endogenous basic materials price, was increased about 23 percent.

Case 3. Price of farm products.—The PPI for farm products was increased 20 percent above corresponding control-solution levels. Because gross farm product and farm proprietors' income are explicit model variables, it is meaningful, in terms of the model structure, to assume that an autonomous reduction in farm output (and thus gross farm product) i.e., a supply shock—is the cause of the increase in farm prices. Specifically, associated with the increase in farm prices are an 11-percent decrease in real gross farm product and, in the first quarter of the simulation, a \$2½ billion (1972 prices) decrease in farm inventory investment.¹⁸ Underlying the decrease

^{14.} For a full treatment of this issue, with definitions of extreme cases, see Edward M. Gramlich, "Macro Policy Responses to Price Shocks," *Brookings Papers on Economic Activity* (1979, 1): 125-66.

^{15.} More precisely, because the case in point involves the price of the primary commodity (oil), the higher M2 level was phased in linearly over the first year, consistent with the gradual impact of the price change on the GNP deflator.

^{16.} Initially, an interest-rate criterion of accommodation was considered. Specifically, a short-term interest rate was to be held at control solution levels, and thus the money supply was to be allowed to increase (endogenously) consistent with the stable interest rate and higher price levels. However, because it turns out that even with nonaccommodation, interest rates eventually fall below control-solution levels as a result of weakened economic activity, this criterion would actually have resulted in a lower money supply than in the control solution.

^{17.} An increase in the price of domestically produced oil in the absence of a concomitant increase in the world price could occur, for instance, with decontrol. A comparable simulation was tried in which the price of imported oil was increased. Because the macroeconomic effects were on the whole very similar to those for the domestic oil price increase (with the main difference being that income is shifted abroad rather than from personal income to domestic corporate profits), the results of this variant are not reported here. A simultaneous change in domestic and foreign oil prices can also be expected to yield similar results.

An allowance was made for a lag in the passthrough of cost from crude to refined petroleum by raising the refined petroleum PPI only two-thirds the full pass-through amount in the first simulation quarter.

^{18.} The temporary decrease in inventory investment results from the lack of an instantaneous marketclearing price response in wholesale and consumer markets for farm products.

Case 6 Implie

in gross farm product is a 5½-percent decrease in farm output and a 2-percent decrease in intermediate products consumed. Farm proprietors' income increases an average of 60 percent, as increases in farm prices far outweigh production losses.¹⁹

Case 4. Implicit price deflators for final products.—All final product deflators, except those for imports and compensation of government employees, were increased about 1 percent. In addition to its main purpose, this simulation may be used to represent a stylized removal of price controls.

Case 5. Implicit price deflator for consumer purchases of new and net used automobiles.—This case illustrates the effects of shocking a deflator for a consumption component with a high price elasticity of demand, in this case -1.1. The deflator, which is basically endogenous, was exogenously increased 39 percent. Case 6. Implicit price deflator for personal consumption expenditures for household operation, except gas and electricity.—This case illustrates the effects of a price shock for a consumption component with a low price elasticity of demand, -0.14. The deflator (which, again, is basically endogenous) was exogenously increased 43 percent.

Case 7. Implicit price deflator for investment in producers' durable equipment, except motor vehicles.— This case illustrates the effects of increasing the price of a nonconsumption component of GNP, which avoids a price-wage spiral. The deflator (also basically endogenous) was increased exogenously 14 percent.

Analysis of Results

In what follows, an analysis is first made of the principal simulations, i.e., the high-unemployment, nonaccommodating-monetary-policy (HU/NMP) simulations for all cases. Then, for case 1, low-unemployment (LU) and accommodating monetary policy (AMP) alternatives are compared with their HU and NMP counterparts.

Principal simulations

The analysis of the principal simulations proceeds as follows: (a) case 1-the domestic crude oil price shock—is used as a base case; (b) cases 2 through 4 are compared with case 1; and (c) cases 5 through 7, representing shocks to specific final product deflators, are compared with case 4 and with one another. Where other comparisons are of interest, they are also made. Tables 1.1 through 1.7 show, for the HU/NMP variants of cases 1 through 7, respectively, differences between price-shock and control-solution values for major economic variables at selected horizons (quarters) of the simulations. Chart 5 shows, for the same cases, the percent differences (price shock case less control solution) in the GNP deflator and in real GNP, respectively.

Case 1. Price of domestic crude oil.—The increase in the price of domestic crude oil results in gradual increases in the GNP deflator relative to the control solution. By the fourth quarter, the GNP deflator is 1.4 percent above the control-solution level and the difference continues to grow

Table 1.1-Effects of Price Shocks: Case 1. Price of Domestic Crude Oil

[Differences: price shock less control solution]

	Quarters after change									
	1	2	3	4	6	8	10	12	16	20
	Percent of control solution level									
GNP, constant dollars Implicit price deflator, GNP Implicit price deflator, personal consumption expenditures Compensation per hour, nonfarm business sector except housing	.4	-0.5 .8 .8 0	-0.9 1.2 1.0 .1	-1.2 1.4 1.1 .2	-1.4 1.6 1.3 .5	-1.6 1.7 1.4 .6	-1.8 1.8 1.5 .8	-1.9 1.9 1.6 .9	-2.1 2.0 1.7 .9	-1.9 1.7 1.5 .8
					Billions o	f dollars		1. A. A.		- 1
GNP Personal income Corporate profits with IVA and CCAdj Net exports of goods and services. Federal surplus of deficit, NIPA's	.1 2.9	5.3 1.1 5.8 1.9 .9	4.9 .7 6.5 5.2 3	3.4 .4 5.4 7.8 -1.3	3.5 1.1 4.2 9.6 -1.5	2.4 .6 3.5 9.2 -1.7	8 -1.6 3.2 9.4 -3.0	-1.3 -2.5 3.8 9.9 -3.6	-2.8 -5.7 7.1 11.0 -4.7	$-6.7 \\ -15.0 \\ 14.2 \\ 9.8 \\ -4.6$
	Billions of 1972 dollars									
GNP Personal consumption expenditures Nonresidential fixed investment Residential investment Change in business inventories Net exports of goods and services Government purchases of goods and services Disposable personal income	-1.5 .4 2 .1 4 1	$\begin{array}{r} -6.1 \\ -4.7 \\4 \\8 \\1 \\4 \\4 \\ -6.1 \end{array}$	$\begin{array}{r} -11.2 \\ -7.6 \\6 \\ -1.6 \\9 \\ .1 \\6 \\ -8.2 \end{array}$	$-15.6 \\ -9.3 \\ -2.4 \\ -2.2 \\ -1.7 \\ .6 \\7 \\ -9.7$	$-18.7 \\ -8.6 \\ -5.1 \\ -2.6 \\ -2.4 \\ .7 \\8 \\ -11.0$	$\begin{array}{r} -21.0 \\ -9.4 \\ -6.4 \\ -2.5 \\ -2.1 \\ .5 \\ -1.0 \\ -12.3 \end{array}$	$\begin{array}{r} -24.6 \\ -11.6 \\ -7.6 \\ -2.5 \\ -2.1 \\ .3 \\ -1.2 \\ -14.3 \end{array}$	$\begin{array}{r} -26.5 \\ -12.9 \\ -8.2 \\ -2.4 \\ -2.2 \\ .3 \\ -1.2 \\ -15.7 \end{array}$	$\begin{array}{r} -30.1 \\ -15.4 \\ -9.3 \\ -2.1 \\ -1.7 \\1 \\ -1.5 \\ -18.7 \end{array}$	$\begin{array}{r} -28.8 \\ -15.8 \\ -9.7 \\7 \\ -1.4 \\ .1 \\ -1.4 \\ -21.4 \end{array}$
	Percent									
Share of national income: Compensation of employees. Proprietors' income with IVA and CCAdj. Corporate profits with IVA and CCAdj. Net interest. Rental income of persons with CCAdj.	0 .2 0	4 0 .4 0	4 0 .4 0	4 0.4 0 0	3 0 .3 0	3 0 .2 0	3 0 .2 0	3 0 .2 0	4 0 .4 1 0	5 0 .7 3 0
Unemployment rate Yield, 4–6 month commercial paper Yield, domestic corporate bonds (Moody's)	.4	.1 .7 .2	.2 .5 .2	.3 .3 .2	0.8 0.2	.4 —.1 .1	.6 —.1 .1	.7 1 .1	.9 2 0	1.0 7 3
Quarterly change at annual rate: GNP, constant dollars Implicit price deflator, GNP	6 1.2	-1.4 2.1	$-1.6 \\ 1.5$	-1.4 1.0	3 .2	5 1	5 .1	1 .2	2 0	$^{.6}_{2}$

Note.—The abbreviations used in tables 1 and 2 are: CCAdj—capital consumption adjustment; GNP—gross national product; IVA—inventory valuation adjustment; NIPA's—national income and product accounts.

^{19.} In the version of the model used for this study, farm output, prices, and income are all exogenous. Consistent relationships among them and between them and final demand for food and agricultural exports were derived by external calculation.

through the 16th quarter to 2.1 percent, then narrows slightly. Initially, the difference reflects the gradual pass-through of higher oil prices; later it increasingly reflects the interaction of the wage rate and consumer prices. The GNP deflator is up slightly more than the PCE deflator, mainly because there is a reduction in relatively high-priced oil imports. The oil price shock increases the inflation rate only temporarily; annual rates of increase in the GNP deflator are up more than 1 percentage point only during the first year. However, the price level remains substantially above the control solution over the whole simulation period, showing only a slight tendency to retreat toward it in the fifth year.

The higher price of oil and its secondary inflationary effects result in reductions in real GNP relative to the control solution of roughly the same magnitude. The decrease is largest-2.1 percent-in the 17th quarter, one quarter after the peak increase in the GNP deflator, and remains large thereafter. The rates of change in real GNP and in the GNP deflator move sharply in the quarters immediately following the price shock; then the differences from the control solution diminish rapidly to small amounts for the remainder of the period. This pattern is also typical for the cases that follow.

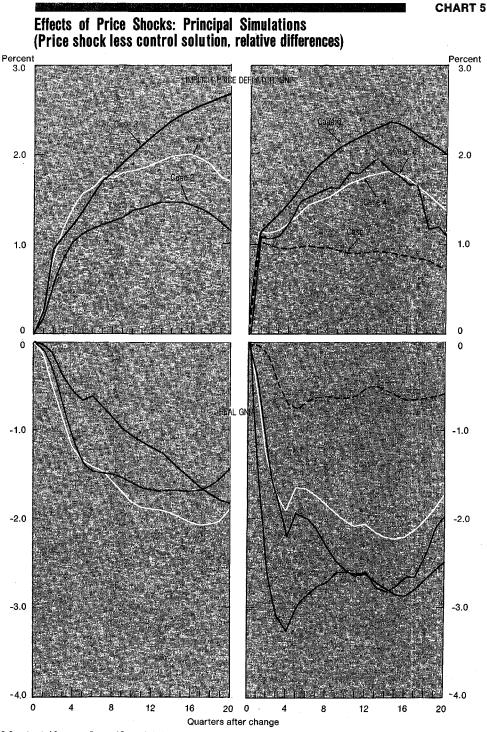
Higher prices relative to control solution of consumer oil products-gasoline and home heating oil-and of electricity (also due to the oil price increase) directly reduce consumer purchases of these energy products and also of motor vehicles, especially recreation vehicles. An increase in the PCE deflator relative to the control solution—the result of pass-throughs of higher oil prices to nonenergy as well as to energy products-also reduces real PCE, generally by lowering real disposable income and real household wealth. Compensation per hour is also higher and tends to hold down the reduction in real disposable income; however, it increases substantially less than the PCE deflator. The nonwage components of disposable income respond only slightly to the price increases. Employment is also down, tending to reduce labor income.

Initially, the decrease in real PCE relative to the control solution ac-

counts for most of the decrease in real GNP. After about a year, however, nonresidential fixed investment and inventory investment are down in response to the reduction in PCE. Both residential and nonresidential fixed investment are down because of higher long-term interest rates (see below). Government purchases are also down in response to the increases in the prices of noncompensation pur-

chases. Real net exports are up slightly after the second quarter, despite higher export prices, mainly because of the assumed reduction in oil imports. (Because of the relatively large deflator for oil imports, this difference is greatly magnified in current-dollar net exports.)

The unemployment rate is also up relative to the control solution, as lower output reduces employment. By



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the 16th quarter, the rate is up nearly 1 percentage point and the spread continues to increase slightly thereafter, lagging the modest turnaround in the reduction in real GNP.

Current-dollar GNP is initially up slightly from the control solution, as the increase in the deflator more than offsets the decrease in real GNP; it is down in the 10th quarter and increasingly so thereafter, as the decreases in real GNP exceed the increases in the deflator.

Personal income is changed little from the control solution for about the first 2 years, as smaller wages are roughly offset by somewhat larger proprietors' income, dividends, interest income, and transfers to persons. Thereafter, personal income is down increasingly, reflecting reductions in labor income and eventually in interest income. Lower labor income reflects reductions in employment that outweigh concomitant increases in hourly compensation. Lower interest income reflects reductions in interest rates (see below).

Corporate profits are up substantially from the control solution in the early quarters, as higher oil prices are passed on to prices of final products.²⁰ The increase diminishes gradually from the third quarter to the middle of the period, as weakened demand tends to offset the price effect, then increases again as wage costs decrease. Shifts in shares of national income from employee compensation and net interest to corporate profits and, to a lesser extent, to proprietors' income are substantial by the end of the period.

The oil price shock increases the Federal deficit slightly in the first two years. In this part of the period, larger expenditures more than offset larger receipts. In the third through fifth years, the difference increases. This increase results from the effects of an exogenous price shock on both prices and real GNP. A decline relative to the control solution in personal income in the later quarters (centered in wages) holds down receipts, while expenditures are up because of indexation and larger unemployment benefits.²¹

The yield on 4-to-6 month commercial paper, a representative shortterm interest rate, is up significantly in the early quarters, as larger current-dollar **GNP** increases the demand for transactions balances in the face of a fixed money supply. In the eighth quarter, the difference in the commercial paper rate becomes negative and increasingly so thereafter. Differences in long-term rates, as exemplified by Moody's average corporate bond yield, lag substantially the differences in short-term rates.

Case 2. Price of primary iron and steel products.—The GNP deflator is up significantly less from corresponding control-solution levels in this case than in case 1. The maximum increase (reached in the 12th quarter) is 1.5 percent, compared with 2.0 percent in case 1. As might be expected,

21. Inflation *per se* tends to increase the Federal surplus (reduce the deficit). (See Frank de Leeuw and Thomas M. Holloway, "The High-Employment Budget: Revised Estimates and Automatic Inflation Effects," SURVEY, 62 (April 1982): 21-33.)

Table 1.2-Effects of Price Shocks: Case 2. Price of Primary Iron and Steel Products

		_ •		Ç	uarters af	ter change				
	1	2	3	4	6	8	10	12	16	20
				Perce	nt of contr	ol solution	level			
GNP, constant dollars Implicit price deflator, GNP Implicit price deflator, personal consumption expenditures Compensation per hour, nonfarm business sector except housing	.1	-0.3 .6 .3 0	-0.7 .9 .6 0	-1.1 1.0 .7 .1	1.5 1.2 .9 .2	$-1.5 \\ 1.3 \\ 1.0 \\ .3$	-1.6 1.4 1.0 .4	-1.7 1.5 1.1 .5	-1.7 1.4 1.1 .5	-1.4 1.1 .8 .3
		•			Billions o	of dollars				
GNP Personal income Corporate profits with IVA and CCAdj Net exports of goods and services. Federal surplus or deficit, NIPA's	$\begin{array}{c} 0 \\ 1.5 \\ 0 \end{array}$	3.6 .2 2.5 .2 1.9	2.2 9 1.7 .8 .9	$-1.3 \\ -2.2 \\9 \\ 1.7 \\ -1.1$	-5.4 -3.6 -3.9 2.7 -3.4	-4.8 -4.4 -2.8 2.4 -3.3	-4.6 -5.4 -1.2 2.3 -3.1	-5.5 -6.8 7 2.6 -3.6	$-7.0 \\ -10.1 \\ 2.2 \\ 2.6 \\ -4.4$	$-8.3 \\ -18.2 \\ 10.5 \\ 2.5 \\ -3.0$
				E	lillions of 1	972 dollar	s	A	4	
GNP Personal consumption expenditures Nonresidential investment Residential investment. Change in business inventories Net exports of goods and services. Government purchases of goods and services. Disposable personal income	$ \begin{array}{r} 1.0 \\ .4 \\2 \\ .1 \\ .4 \\1 \end{array} $	$\begin{array}{r} -4.4 \\ -3.1 \\ .6 \\7 \\1 \\ -1.0 \\2 \\ -2.8 \end{array}$	$\begin{array}{r} -9.4 \\ -5.7 \\3 \\ -1.3 \\7 \\ -1.3 \\2 \\ -5.4 \end{array}$	$\begin{array}{c} -14.5 \\ -7.9 \\ -2.1 \\ -1.7 \\ -1.5 \\ -1.1 \\3 \\ -7.5 \end{array}$	$-19.5 \\ -8.7 \\ -5.2 \\ -1.9 \\ -2.7 \\8 \\3 \\ -9.7$	$-20.1 \\ -8.7 \\ -5.9 \\ -1.8 \\ -2.3 \\ -1.0 \\4 \\ -10.8$	$\begin{array}{r} -21.6 \\ -9.8 \\ -6.3 \\ -1.8 \\ -1.8 \\ -1.5 \\5 \\ -12.0 \end{array}$	$\begin{array}{r} -23.4 \\ -10.9 \\ -6.7 \\ -1.8 \\ -1.8 \\ -1.7 \\6 \\ -13.2 \end{array}$	$\begin{array}{r} -24.8 \\ -12.0 \\ -7.5 \\ -1.3 \\ -1.3 \\ -2.0 \\7 \\ -14.8 \end{array}$	$\begin{array}{r} -21.5 \\ -11.9 \\ -6.9 \\1 \\6 \\ -1.5 \\5 \\ -16.1 \end{array}$
				I	Perc	cent				
Share of national income: Compensation of employees Proprietors' income with IVA and CCAdj Corporate profits with IVA and CCAdj Net interest. Rental income of persons with CCAdj	0 .1 0	2 0 .2 0	1 0 .1 0	0 0 0 0 0	.1 0 2 .1 0	.1 0 1 .1 0	0 0 0 0 0	$1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	2 0 .2 1 0	3 0 .5 2 0
Unemployment rate Yield, 4-6 month commercial paper Yield, domestic corporate bonds (Moody's)	.3	.1 .5 .1	.2 .4 .2	.2 .2 .1	.4 0 .1	.4 1 .1	.5 0 0	.6 1 0	.7 3 1	.8 7 4
Quarterly change at annual rate: GNP, constant dollars Implicit price deflator, GNP	.4 .9	-1.0 1.5	$^{-1.6}_{1.3}$	-1.6 .8	4 .2	1 .2	3 .4	1 .2	1 2	.5 4

^{20.} No windfall profits tax was assumed for this simulation.

because of the high steel content of the commodities included, the final product deflators showing the largest relative increase are those for PCE for motor vehicles and for producers' durable equipment outlays. For consumer expenditures other than motor vehicles, the direct price effects are small. Thus, the spread between increases in the GNP and PCE deflators is greater than in case 1, in which the direct effects of the exogenous price increase are more widely dispersed among final products. As a result, the price-wage "spiral" is less pronounced than in case 1.

Nevertheless, real GNP is down about as much as in case 1 in the early quarters, although somewhat less in the later quarters. Nonresidential fixed investment is down substantially, in part because of the higher cost of investment goods. Similarly, the higher price of motor vehicles reduces consumer purchases. Moreover, total real PCE is held down by reductions in real disposable income that are almost as large as in case 1 through the 12th quarter, although, as noted, the PCE deflator is up less than in case 1. Compensation per hour is also up less. Real net exports are down slightly, in contrast to case 1, in which oil imports are smaller.

Corporate profits are up only moderately in the first three quarters and down somewhat for about the next two years, in contrast to case 1, in which they are up continuously and more substantially. This contrast reflects both smaller current-dollar GNP and larger capital consumption allowances in case 2, the latter being due to higher capital replacement costs.

Case 3. Price of farm products.—In contrast to case 2, this price shock impinges heavily on the PCE deflator specifically, on the deflator for consumer food purchases. It also increases substantially the deflator for merchandise exports, in which agricultural commodities have a weight of about 20 percent. Because of the concentrated impact on consumer prices, the price-wage spiral is more pronounced than in both cases 1 and 2. By the 12th quarter, the PCE deflator is up 2.3 percent, compared with 1.6 percent is case 1 and 1.1 percent in case 2; the corresponding increases in the GNP deflator are 2.2 percent, 1.9 percent, and 1.5 percent; for private nonfarm compensation per hour, they are 1.5 percent, 0.9 percent, and 0.5 percent.

Despite the larger price increases, real GNP is down substantially less than in cases 1 and 2 during most of the simulation period—in the 12th quarter the loss is 1.2 percent, compared with 1.9 percent in case 1 and 1.7 percent in case 2.22 The causes of this difference are the relatively low price elasticity of consumer demand for food (-0.36 in the long run) and, associated with this low elasticity, the substantial increase in farm proprietors' income, which offsets the reduction in real labor income. Because of this shift within personal income, total real disposable income and, as a

Table 1.3.—Effects of Price Shocks: Case 3. Price of Farm Products

[Differences: price shock less control solution]

					Juarters af	ter change				
	1	2	3	4	6	8	10	12	16	20
				Perce	nt of contr	ol solution	level			
GNP, constant dollars Implicit price deflator, GNP Implicit price deflator, personal consumption expenditures Compensation per hour, nonfarm business sector except housing	.2 .2	$^{-0.1}_{\begin{subarray}{c} 1.0 \\ 1.1 \\ 0 \end{subarray}}$	-0.4 1.1 1.3 .2	-0.6 1.2 1.4 .3	$-0.6 \\ 1.6 \\ 1.7 \\ .7$	-0.9 1.8 2.0 1.0	$-1.1 \\ 2.0 \\ 2.2 \\ 1.2$	-1.2 2.2 2.3 1.5	1.6 2.5 2.6 1.8	-1.9 2.7 2.8 1.9
					Billions o	f dollars	L			
GNP Personal income Corporate profits with IVA and CCAdj	3.3 11.8 -8.8 4.6 -2.2	13.9 14.1 .9 4.0 1.4	11.8 14.3 .3 4.6 8	$11.4 \\ 15.2 \\ -1.7 \\ 5.5 \\ -1.3$	$17.1 \\ 19.5 \\ -1.2 \\ 5.4 \\ 0$	$\begin{array}{r} 17.1 \\ 22.2 \\ -4.6 \\ 4.8 \\ -1.2 \end{array}$	$18.8 \\ 24.9 \\ -5.5 \\ 5.9 \\ -1.7$	20.7 29.9 8.8 5.9 3.1	21.5 34.2 -11.9 7.2 -5.5	20.0 36.2 -13.4 7.6 -8.5
				B	illions of 1	972 dollar	8			
GNP Personal consumption expenditures Nonresidential fixed investment Residential investment Change in business inventories Net exports of goods and services Government purchases of goods and services Disposable personal income	$^{8}_{-2.6}^{2}_{-2.1}^{1}_{0}$	-1.6 -3.5 3 3 .7 .7 0 7	$-5.3 \\ -5.9 \\ 1.1 \\ -1.1 \\ .3 \\ .3 \\ 0 \\ -2.0$	$-7.4 \\ -6.2 \\ .3 \\ -1.3 \\ .5 \\ .2 \\1 \\ -2.7$	$ \begin{array}{r} -8.3 \\ -4.1 \\ -1.1 \\ -1.7 \\8 \\ .3 \\3 \\ -4.0 \end{array} $	$\begin{array}{r} -11.5 \\ -5.4 \\ -2.1 \\ -1.9 \\7 \\8 \\6 \\ -4.7 \end{array}$	$\begin{array}{r} -14.5 \\ -6.5 \\ -2.9 \\ -2.2 \\ -1.1 \\ -1.0 \\8 \\ -5.3 \end{array}$	$\begin{array}{r} -16.8 \\ -6.8 \\ -2.4 \\ -1.3 \\ -1.6 \\ -1.0 \\ -5.0 \end{array}$	$\begin{array}{r} -22.8 \\ -9.4 \\ -5.1 \\ -3.1 \\ -1.6 \\ -2.2 \\ -1.5 \\ -7.6 \end{array}$	$\begin{array}{r} -27.8 \\ -11.7 \\ -6.7 \\ -3.5 \\ -1.9 \\ -2.4 \\ -1.6 \\ -10.5 \end{array}$
					Perc	ent	1		H	
Share of national income: Compensation of employees Proprietors' income with IVA and CCAdj Corporate profits with IVA and CCAdj Net interest Rental income of persons with CCAdj	.8 7 0	7 .8 0 0	6 .7 1 1 0	5 .7 2 0 0	5 .7 2 0	4 .8 4 0 0	4 .8 4 0	3 .8 6 .1 0	2 .8 7 .1 0	2 .7 7 .1 0
Unemployment rate	.3	0 1.2 .3	0 .3 .2	.1 .2 .2	.1 .3 .3	.2 .2 .3	.3 .3 .8	.4 .4 .3	.5 .3 .4	.7 .3 .4
Quarterly change at annual rate: GNP, constant dollars Implicit price deflator, GNP	2 1.0	—.3 3.0	-1.1 .6	7 .5	.2 .8	5 .3	4 .4	3 .4	4 .2	2 .1

^{22.} In the first three quarters, especially the first, real net exports are too high because of a timing misspecification that affects the merchandise exports deflator. Accordingly, real GNP should be somewhat lower in those quarters.

result, real PCE are reduced much less than in the previous cases.²³

By the 20th quarter, however, the decline in real GNP is as large as in case 1 and larger than in case 2. This catchup reflects primarily a large decrease in residential investment, which is in turn due to higher mortgage interest rates and a lower real return to owners of rental housing.

Increases in the unemployment rate are small during the first 3 years—0.4 percentage points by the 12th quarter compared with 0.7 percentage points in case 1 and 0.6 percentage points in case 2. A sizable share of the decreases in real GNP during the first 3 years, about onethird on the average—is in gross farm product, to which there is no significant employment response. The smaller decrease in employment tends to hold up real wages. Because farmers, most of whom are unincorporated, are the beneficiaries of higher prices, their gains, together with larger employee compensation, squeeze the share of corporate profits. Because marginal tax rates on profits are high, the Federal fiscal balance eventually moves toward substantially larger deficits.

The increases in current-dollar GNP, in contrast to smaller increases or decreases in previous cases, together with a fixed money supply, yield short- and long-term interest rates that remain above control-solution levels, in contrast to lower rates in the previous cases. Higher interest rates contribute to weakness in residential and nonresidential fixed investment.

Case 4. Implict price deflators for final products.—The macroeconomic effects of increasing final-product deflators proportionally are, in general, remarkably similar to those resulting from the domestic oil price shock. Because final-product prices are directly and immediately increased by the price shock in this case, increases in the GNP deflator and decreases in real GNP are larger in the early quarters of the simulation than in case 1.

In the fourth quarter, although the PCE and GNP deflators are up roughly the same as in case 1, real GNP is down substantially more—9½ billion in 1972 dollars-than in case 1. More than one-half of the difference between the two cases in real GNP is due to nonresidential fixed investment, which responds to reduced cash flow as well as to earlier reductions in final sales. The impact on cash flow is from smaller corporate profits, which, in contrast, initially increase in case 1. In addition, real PCE is down \$2.6 billion more than in case 1, mainly because of a larger reduction in employment, and inventory investment is down \$1.7 billion more because of lower final sales.

After the fourth quarter, however, the difference between cases 1 and 4 in real GNP losses narrows quickly, as the lagged responses to the oil price shock are registered in case 1 and, more importantly, as the transitory effect of reduced cash flow terminates in case 4. By the 12th quarter, differences between the two cases in real GNP and unemployment, as well

Table 1.4.-Effects of Price Shocks; Case 4. Implicit Price Deflators for Final Products

· · · · · · · · · · · · · · · · · · ·				Ģ	uarters af	ter change				
	1	2	3	4	6	8	10	12	16	20
				Percer	nt of contro	ol solution	level			
GNP, constant dollars Implicit price deflator, GNP Implicit price deflator, personal consumption extenditures Compensation per hour, nonfarm business sector except housing		-1.3 1.1 1.2 .1	-1.7 1.2 1.2 .3	-1.9 1.2 1.3 .4	-1.7 1.4 1.5 .6	$-1.8 \\ 1.5 \\ 1.6 \\ .7$	-2.0 1.7 1.7 .9	2.1 1.8 1.8 1.0	-2.2 1.7 1.8 1.0	-1.7 1.4 1.5 .8
					Billions o	f dollars				
GNP Personal income Corporate profits with IVA and CCAdj Net exports of goods and services Federal surplus or deficit, NIPA's	8.6 .3 8.5 -1.1 5.7	-3.4 8 5 .4 -2.7	-10.2 -2.5 -7.0 2.0 -5.6	$-12.0 \\ -2.6 \\ -8.9 \\ 2.8 \\ -6.4$	-4.5 4 -3.6 1.7 -4.1	$-6.3 \\ -1.3 \\ -4.3 \\ 1.7 \\ -4.9$	-8.0 -3.2 -3.2 2.1 -5.7	-7.1 -3.6 -1.7 2.4 -5.6	$-12.2 \\ -8.9 \\ .4 \\ 3.1 \\ -7.6$	-10.0 -17.0 12.9 2.2 -4.5
				B	illions of 1	972 dollars	3			
GNP Personal consumption expenditures Nonresidential fixed investment Residential investment. Change in business inventories Net exports of goods and services Government purchases of goods and services Disposable personal income	6.8 1.8 9 .5 -2.0	$\begin{array}{r} -16.9 \\ -11.1 \\ -1.1 \\ -2.1 \\ -1.2 \\ -1.2 \\ -1.2 \\4 \\ -10.8 \end{array}$	$\begin{array}{r} -22.4 \\ -11.9 \\ -5.1 \\ -2.1 \\ -2.8 \\3 \\3 \\ -12.3 \end{array}$	$-25.0 \\ -11.9 \\ -7.3 \\ -2.0 \\ -3.4 \\ 0 \\4 \\ -13.1$	$\begin{array}{r} -22.1 \\ -9.7 \\ -6.6 \\ -2.0 \\ -2.4 \\9 \\6 \\ -13.6 \end{array}$	$\begin{array}{r} -24.5 \\ -11.4 \\ -7.5 \\ -1.8 \\ -2.1 \\9 \\8 \\ -14.9 \end{array}$	$\begin{array}{r} -27.5 \\ -13.4 \\ -8.2 \\ -1.8 \\ -2.0 \\ -1.1 \\9 \\ -16.8 \end{array}$	$\begin{array}{r} -28.7 \\ -14.6 \\ -8.0 \\ -1.8 \\ -2.1 \\ -1.2 \\ -1.0 \\ -18.0 \end{array}$	$\begin{array}{r} -32.3 \\ -16.9 \\ -10.3 \\ -1.1 \\ -1.8 \\ -1.0 \\ -1.2 \\ -21.2 \end{array}$	$\begin{array}{r} -26.1 \\ -15.9 \\ -8.7 \\ .5 \\4 \\6 \\ -1.0 \\ -22.5 \end{array}$
					Perc	ænt				
Share of national income: Compensation of employees Proprietor's income with IVA and CCAdj Corporate profits with IVA and CCAdj Net interest Rental income of persons with CCAdj	0 .6 1	0 0 0 0 .1	.3 0 4 .1 .1	.4 0 5 .1 .1	.1 0 2 0 .1	.2 0 2 0 .1	.1 0 2 0 .1	0 0 1 0 .1	1 0 .1 1 .1	4 0 .6 4 .1
Unemployment rate Yield, 4–6 month commercial paper Yield, domestic corporate bonds (Moody's)	1.6	.3 —.1 .1	.4 1 .1	.4 —.1 .1	0 ^{.4} .1	.5 0 0	.7 1 0		1.0 5 2	1.0 8 5
Quarterly change at annual rate: GNP, constant dollars Implicit price deflator, GNP	$-2.6 \\ 4.8$	-2.9 0	-1.7 .1	8 .4	0 .5	4 .2	4 .3	.1 .3	.1 2	.6 4

^{23.} Contrary to the assumption (implicit in the model) that the marginal propensity to consume with respect to farm proprietors' income is the same as with respect to other personal income, a lower propensity might prevail if farmers viewed much of their income as not available for consumption, but rather as business income. If so, the difference between real GNP losses in this case and in cases 1 and 2 might be much smaller.

as in the aggregate deflators, are small.

A difference persists, however, in real net exports, because of lower oil imports in case 1; the difference is magnified in current-dollar net exports because of the relatively high deflator for oil imports and, to a somewhat smaller degree, in currentdollar GNP and corporate profits. Lower current-dollar GNP results eventually in larger reductions in interest rates. Consequently, between the ends of the fourth and fifth years, there is more of a positive turnaround in real fixed investment and, accordingly, in the reduction in real GNP.

Two important conclusions can be derived from this analysis. First, an exogenous increase in the general price level—as distinct from an exogenous increase in the price of a particular commodity—is far from neutral in its impact on economic activity (i.e., on real GNP and employment). Although such a price increase produces, before output responses, a corresponding increase in current-dollar income, it results in a shift in income shares from those with a relatively high propensity to spend to those with a relatively low propensity to spend. This shift, in turn, leads to a net reduction in real expenditures; the reduction in aggregate demand, which is reinforced by multiplier feedbacks, persists—as does the increase in the price level—with only a modest reversal of the reduction within the 5year simulation period.

Second, some relative price increases, such as an increase in the price of crude oil, have effects similar to that of a general price level increase. This similarity reflects the widespread intermediate and end uses of these commodities and limited substitutability of lower priced alternatives.

Case 5. Implicit price deflator for consumer purchases of new and net used automobiles.—Real GNP is down more and unemployment is up more from the control solution in this case than in any other. By the fourth quarter, with a 1.3-percent increase in the GNP deflator—about the same increase as in case 4—real GNP is down 3.3 percent, compared with 1.9 percent in case 4, and unemployment is up 1.3 percentage points, compared with 0.4 percentage points in case 4.

The price shock results directly in a large reduction in real auto purchases. This reduction, together with that in real disposable income resulting from both the higher overall PCE deflator and lower employment, reduces real PCE generally and both nonresidential fixed investment and inventory investment. A sharp initial falloff in corporate profits reinforces the reduction in nonresidential fixed investment. Net exports are up somewhat because of lower imports.

The reduction in real GNP begins to moderate in the fifth quarter, primarily because of a sudden dropoff in the inflation rate, as measured by the four-quarter change in the PCE deflator—a variable that has a substantial negative effect on total real PCE. Moderations in the reductions in other GNP components accompany or follow that in PCE. Although the reduction in GNP is smaller than in the fourth quarter, it remains large until the fifth year, as the price-wage spiral results in continuing increases in the PCE deflator. In the fourth year,

Table 1.5—Effects of Price Shocks: Case 5. Implicit Price Deflator for Consumer Purchases of New and Net Used Automobiles

[Differences: price shock less control solution]

				()uarters af	ter change	;			
	1	2	3	4	6	8	10	12	16	20
				Perce	at of contro	ol solution	level			
GNP, constant dollars Implicit price deflator, GNP Implicit price deflator, personal consumption expenditures Compensation per hour, nonfarm business sector except housing	1.1 1.6	-2.6 1.1 1.6 .1	-3.1 1.1 1.7 .3	-3.3 1.3 1.8 .4	-2.9 1.5 2.2 .7	-2.7 1.6 2.3 .9	-2.6 1.8 2.4 1.0	-2.6 1.9 2.5 1.1	-2.7 1.7 2.2 1.1	2.0 1.1 1.6 .6
					Billions o	f dollars				
GNP Personal income Corporate profits with IVA and CCAdj Net exports of goods and services Federal surplus or deficit, NIPA's	-4.3 7 4	$-27.0 \\ -9.1 \\ -11.6 \\ 2.4 \\ -11.2$	$-34.6 \\ -14.3 \\ -14.6 \\ 4.4 \\ -14.1$	-36.5 -16.7 -13.4 5.1 -14.7	$-25.3 \\ -12.9 \\ -6.4 \\ 2.9 \\ -11.1$	$-21.5 \\ -12.1 \\ -3.8 \\ 1.3 \\ -9.2$	$-16.7 \\ -11.0 \\ .6 \\ .3 \\ -7.1$	$-16.2 \\ -11.8 \\ 2.8 \\ .5 \\ -7.0$	$-24.5 \\ -18.9 \\ 4.2 \\ 1.8 \\ 9.6$	-24.4 32.2 20.9 .6 -4.7
				E	illions of 1	972 dollar	S			
GNP Personal consumption expenditures Nonresidential fixed investment Residential investment. Change in business inventories Net exports of goods and services Government purchases of goods and services Disposable personal income	-18.8 6 .3 8 0	$\begin{array}{r} -34.0 \\ -24.7 \\ -4.1 \\ -1.5 \\ -4.7 \\ .7 \\ .7 \\ .1 \\ -19.4 \end{array}$	$\begin{array}{r} -40.1 \\ -26.0 \\ -8.6 \\ -1.3 \\ -5.9 \\ 1.8 \\ .1 \\ -23.0 \end{array}$	$\begin{array}{r} -43.0 \\ -26.4 \\ -11.5 \\ -1.1 \\ -6.0 \\ 2.0 \\ 0 \\ -25.6 \end{array}$	$\begin{array}{r} -38.1 \\ -21.3 \\ -11.6 \\ -1.1 \\ -4.4 \\ .6 \\3 \\ -26.6 \end{array}$	$\begin{array}{r} -36.3 \\ -20.0 \\ -11.8 \\9 \\ -2.8 \\4 \\5 \\ -26.7 \end{array}$	$\begin{array}{r} -35.1 \\ -20.1 \\ -10.7 \\8 \\ -1.7 \\ -1.1 \\6 \\ -27.1 \end{array}$	$\begin{array}{r} -36.3 \\ -21.8 \\ -10.0 \\8 \\ -1.7 \\ -1.3 \\7 \\ -28.2 \end{array}$	$-38.6 \\ -23.8 \\ -12.2 \\ .4 \\ -1.7 \\5 \\9 \\ -29.4$	$ \begin{array}{r} -29.6 \\ -22.9 \\ -9.4 \\ 2.5 \\ .4 \\ .4 \\6 \\ -30.8 \end{array} $
					Perc	ent			- 1	
Share of national income: Compensation of employees Proprietors' income with IVA and CCAdj Corporate profits with IVA and CCAdj Net interest. Rental income of persons with CCAdj	0 0	.6 0 7 .1 0	.6 0 8 .2 .1	.5 0 7 .2 .1	.2 0 3 .1 0	.1 0 2 0	1 0 .1 1 0	1 0 .2 2 0	1 0 .3 3 0	$5 \\ 0 \\ 1.1 \\6 \\ 0$
Unemployment rate Yield, 4-6 month commercial paper Yield, domestic corporate bonds (Moody's)	1.3	.8 4 0	1.1 4 0	1.3 3 0	1.1 3 1	1.1 3 1	1.2 1 1	1.3 3 2	1.4 7 4	$^{ m 1.3}_{ m -1.2}_{ m8}$
Quarterly change at annual rate: GNP, constant dollars Implicit price deflator, GNP	-6.5 4.7	-4.5 2	-1.9 .2	8 .6	.6 .2	.1 .2	.1 .7	.1 .4	.5 4	6

higher unemployment rates reduce the wage-rate increases. This effect, together with higher productivity and a substantial reduction in long-term interest rates, reduces the increase in the PCE deflator, which in turn reduces the decrease in real GNP from 2.7 percent in the 16th quarter to 2.0 percent in the 20th.

Corporate profits are down sharply in the early quarters in response to the reduced demand. After widening through the fourth quarter, the difference relative to the control solution narrows sharply. In the 10th quarter, the difference becomes positive and by the 20th quarter, profits are up nearly \$21 billion, although currentdollar GNP is down more than \$24 billion. The large increase in profits toward the end of the period is mainly due to large reductions in employee compensation and net interest.

Case 6. Implicit price deflator for personal consumption expenditures for household operation, except gas and electricity.—Because of the much lower price elasticity of demand for household operation services than for automobiles, real PCE for household operation is reduced by much smaller amounts than are automobile purchases in case 5. As a result, total real PCE and real GNP are reduced substantially less during the first two years after the price shock than in case 5 and unemployment rises less.

The smaller increase in unemployment, however, produces a smaller offset to the effect of the higher PCE deflator on compensation per hour; thus the price-wage spiral is stronger. By the 12th quarter, compensation per hour is up 1.6 percent compared with 1.1 percent in case 5. Smaller reductions in employment also tend to hold up real disposable personal income and thus real PCE. Nevertheless, because the PCE deflator is also up more, tending to reduce both real disposable personal income and real household wealth, real PCE is down as much in case 6 as in case 5 by the 16th quarter. Moreover, with the money supply fixed, smaller reductions in current-dollar GNP (reflecting the higher GNP deflator) eventually result in higher long-term interest rates, which tend to depress fixed investment. Thus, after 3 years, reductions in real GNP are somewhat larger than in case 5.

Because this case is comparable to case 3 in the sense that the price shock impinges on a PCE component with a relatively low price elasticity of demand, similar macroeconomic results might be expected (apart from a short-run timing difference, due to the lagged pass-through of farm prices). The price effects are, indeed, roughly similar after the first year. However, real GNP is down more than in case 3 because of a stronger shift of income shares from personal income to corporate profits; in case 3, the shift is to proprietors' income, with respect to which the propensity to consume is (in the model) as large as with respect to other personal income.24

Case 7. Implicit price deflator for investment in producers' durable

Table 1.6.—Effects of Price Shocks: Case 6. Implicit Price Deflator for Personal Consumption Expenditures for Household Operation, Except Gas and Electricity

				G	uarters af	ter change					
	1	2	3	4	6	8	10	12	16	20	
				Percer	nt of contro	ol solution	level				
GNP, constant dollars Implicit price deflator, GNP Implicit price deflator, personal consumption expenditures Compensation per hour, nonfarm business sector except housing	$-0.4 \\ 1.2 \\ 1.7 \\ 0$	$-1.3 \\ 1.2 \\ 1.8 \\ 0$	$-1.9 \\ 1.4 \\ 2.0 \\ 0$	$-2.2 \\ 1.5 \\ 2.1 \\ .6$	-2.0 1.8 2.4 1.0	$^{-2.3}_{}_{}_{}$	$-2.6 \\ 2.1 \\ 2.6 \\ 1.4$	-2.7 2.3 2.7 1.6	-2.9 2.3 2.8 1.6	-2.4 2.0 2.5 1.4	
					Billions o	f dollars					
GNP Personal income Corporate profits with IVA and CCAdj Net exports of goods and services Federal surplus or deficit, NIPA's	11.4 -2.2	-1.2 1.9 1.5 9 -3.0	-9.4 3 -5.7 1.0 -6.6	-13.7 -1.3 -8.7 2.3 -8.7	-4.3 1.5 -2.6 1.3 -5.8	$-6.8 \\ 0 \\ -3.9 \\ 1.5 \\ -6.8$	-10.6 -3.3 -3.4 2.4 -8.5	-9.5 -3.7 -1.8 2.8 -8.3	$-15.1 \\ -10.4 \\ 1.3 \\ 3.7 \\ -10.1$	-13.3 -21.1 16.4 2.9 -6.5	
		_		В	illions of 1	972 dollars	3				
GNP Personal consumption expenditures Nonresidential fixed investment Residential investment Change in business inventories Net exports of goods and services Government purchases of goods and services Disposable personal income	7 .2 -2.0	$-16.7 \\ -12.4 \\8 \\ -1.9 \\3 \\ -1.3 \\ 0 \\ -14.4$	$-24.4 \\ -14.4 \\ -5.1 \\ -2.1 \\ -2.5 \\4 \\ 0 \\ -17.2$	$\begin{array}{r} -29.1 \\ -15.6 \\ -7.9 \\ -2.1 \\ -3.5 \\ .2 \\1 \\ -18.7 \end{array}$	$-26.5 \\ -12.6 \\ -7.7 \\ -2.1 \\ -2.8 \\8 \\5 \\ -19.8$	$-30.4 \\ -15.1 \\ -9.1 \\ -2.0 \\ -2.6 \\9 \\8 \\ -21.9$	$-35.3 \\ -18.4 \\ -10.4 \\ -2.0 \\ -2.8 \\8 \\ -1.0 \\ -24.6$	$-36.9 \\ -19.9 \\ -10.3 \\ -1.9 \\ -2.7 \\9 \\ -1.1 \\ -26.1$	$\begin{array}{r} -41.7 \\ -23.4 \\ -12.8 \\ -1.1 \\ -2.3 \\8 \\ -1.3 \\ -30.8 \end{array}$	$-36.7 \\ -23.5 \\ -11.4 \\6 \\9 \\4 \\ -1.2 \\ -34.2$	
					Perc	ent					
Share of national income: Compensation of employees Proprietors' income with IVA and CCAdj Corporate profits with IVA and CCAdj Net interest Rental income of persons with CCAdj	0 .8 1	1 .1 .1 1 0	.2 .1 3 .1 0	.4 0 5 .1 0	.1 .1 1 0 0	.1 2 0 0	.1 0 2 0 0	0 0 1 1 .1	1 .1 .1 2 .1	4 .1 .8 5 0	
Unemployment rate Yield, 4-6 month commercial paper Yield, domestic corporate bonds (Moody's)	1.6	0 ^{.3} .1	1 .2	.5 1 .1	.6 .1 .1		$\frac{1.1}{2}{0}$	1.2 2 0	1.4 6 3	1.4 -1.1 6	
Quarterly change at annual rate: GNP, constant dollars Implicit price deflator, GNP	1.9 4.9	-3.5.4	-2.4 .5	1.4 .5	1 .8	7 .8	6 .2	.1 .3	0 2	.6 4	

^{24.} The qualification expressed in footnote 23 concerning the realism of this relatively high propensity also applies to the comparison of cases 3 and 6. Further, the difference between cases 5 and 6 in PCE responses overstates those that would actually occur to the extent that cross-elasticities of demand are understated in the model.

equipment, except motor vehicles.-A relatively low price elasticity of demand—in the long run, about -0.3—attaches to investment in producers' durable equipment. The endogenous responses in this case are much smaller than in any of the previous cases. Because the exogenous price increases is for a nonconsumption component of GNP, so that there is only a very small feedback to the PCE deflator, reductions in real disposable income and real household wealth, and thus, in PCE, are small. Together with the small increases in the PCE deflator, increases in unemployment, although modest, virtually prevent a price-wage spiral.²⁵

An initial step-up in cash flow raises nonresidential fixed investment above the control solution in the first and second quarters. By the third quarter, however, the difference is negative. PCE is again the real GNP component showing the largest absolute decrease from the control solution; reductions in real household wealth as well as the reductions in real disposable income contribute to this effect.

Varying the economic and policy environment

The results presented thus far have been for a HU/NMP environment. The effects of varying the unemployment rate in the control solution and the assumed monetary policy response in the shocked solution will now be examined, using case 1 for illustration (see table 2 and chart 6).

The results for case 1 are illustrative of all of the price shock cases reported in the sense that they indicate the direction and, for many of the cases, the order of magnitude of the differences in results due to the effects of varying the unemployment rate and the monetary response. It cannot be assumed, however, that the differences would be of even approximately the same magnitude for all the cases.

Low-unemployment control solution.-In both the LU/NMP and HU/ NMP cases, the differences from the control solution in real GNP and the GNP deflator are about the same for the first six quarters.²⁶ After that, however, the differences begin to diverge. Because of the nonlinear relationship between changes in the wage rate and the level of unemployment, an increment to the unemployment rate of a given size that results from a positive price shock has a substantially more mitigating effect on compensation per hour when that increment is added to a base unemployment rate of 5½ to 6 percent (LU) than when it is added to a base rate

26. The slight differences are hard to account for, but are probably mainly due to the small differences in the historical periods used in the control solutions. The sizable differences in interest-rate effects (as represented by the yield on commercial paper) are due to the fact that interest rates in the initial quarter of the LU control solution are almost twice as high as

the corresponding rates in the HU control solution. The larger absolute differences in rates reflect comparable relative differences (note that the interest rates in the money demand equation are expressed in logarithmic form).

Table 1.7.-Effects of Price Shocks: Case 7. Implicit Price Deflator for Investment in Producer's Durable Equipment, Except Motor Vehicles

		_		G	uarters af	ter change				
	1	2	3	4	6	8	10	12	16	20
				Percer	nt of contro	ol solution	level			
GNP, constant dollars Implicit price deflator, GNP Implicit price deflator, personal consumption expenditures	1.0	$\begin{array}{r} -0.5 \\ 1.0 \\ .3 \\ 0 \end{array}$	-0.7 1.0 .3 .1	-0.8 1.0 .3 .1	0.6 1.0 .4 .1	-0.6 1.0 .4 .2	-0.6 .9 .4 .2	-0.5 .9 .4 .2	-0.7 .9 .3 .1	-0.5 .7 .2 0
					Billions o	f dollars				
GNP Personal income Corporate profits with IVA and CCAdj Net exports of goods and services Federal surplus or deficit, NIPA's	14.9 1.0 5.8 2.3 8.1	$\begin{array}{c c} 9.0 \\ .2 \\ 1.7 \\ -1.7 \\ 2.7 \end{array}$	$\begin{array}{r} 4.3 \\ -1.1 \\ -3.1 \\8 \\ .6 \end{array}$	3.0 - 1.5 - 4.231	$\begin{array}{r} 6.8 \\8 \\ -1.5 \\ 1.0 \\ 1.7 \end{array}$	$\begin{array}{r} & 6.1 \\ -1.2 \\ -2.1 \\ -1.0 \\ 1.4 \end{array}$	$5.9 \\ -1.6 \\ -1.9 \\ -1.0 \\ 1.4$	$\begin{array}{r} 8.8 \\9 \\2 \\ -1.3 \\ 2.6 \end{array}$	$\begin{array}{r} 4.7 \\ -3.8 \\ -2.3 \\ -1.0 \\ 1.2 \end{array}$	4.3 7.3 3 1.3 2.0
				B	illions of 1	972 dollars	` (
GNP. Personal consumption expenditures. Nonresidential fixed investment. Residential investment. Change in business inventories. Net exports of goods and services. Government purchases of goods and services. Disposable personal income.	$2.5 \\6 \\ .1 \\ -1.8$	$\begin{array}{c} -5.9 \\ -3.5 \\ .9 \\ -1.7 \\1 \\ -1.4 \\ 0 \\ -2.7 \end{array}$	$\begin{array}{r} -9.1 \\ -3.8 \\ -1.8 \\ -1.0 \\8 \\ 0 \\ -3.5 \end{array}$	$-10.2 \\ -3.5 \\ -3.0 \\ -1.7 \\ -1.5 \\6 \\ 0 \\ -3.8$	$ \begin{array}{r} -8.2 \\ -2.9 \\ -1.7 \\ -1.6 \\ -1.0 \\ -1.0 \\1 \\ -3.8 \\ \end{array} $	$ \begin{array}{r} -8.4 \\ -3.5 \\ -1.8 \\ -1.4 \\7 \\9 \\1 \\ -4.0 \\ \end{array} $	$ \begin{array}{r} -8.3 \\ -3.7 \\ -1.6 \\ -1.3 \\6 \\9 \\1 \\ -4.0 \end{array} $	$\begin{array}{r} -6.9 \\ -3.8 \\2 \\ -1.3 \\4 \\ -1.1 \\1 \\3.7 \end{array}$	$-9.7 \\ -5.0 \\ -2.0 \\ -1.2 \\5 \\8 \\1 \\ -5.0$	$ \begin{array}{r} -8.2 \\ -4.7 \\ -2.0 \\ .8 \\2 \\5 \\ 0 \\ -5.3 \\ \end{array} $
					Perc	ent				
Share of national income: Compensation of employees Proprietors' income with IVA and CCAdj Corporate profits with IVA and CCAdj Net interest Rental income of persons with CCAdj	0 .4	1 0 .1 1 0	.1 0 2 .1 0	.2 0 3 .1 0	0 0 1 .1 0	.1 0 1 ^.1 0	.1 0 1 .1 0	0 0 0 .1 0	0 0 1 .1 0	0 0 0 0 0
Unemployment rate Yield, 4-6 month commercial paper Yield, domestic corporate bonds (Moody's)	0 1.5 .3	0 0 .1	1 0 .1	0 ^{.2} .1	0 ^{.1} .1	0.2 0.1	0 ^{.2} .1	.2 .1 .1	.3 1 0	2 0
Quarterly change at annual rate: GNP, constant dollars Implicit price deflator, GNP	6 4.3	-1.3 1	-1.0 1	3 0	.2 .1	0 1	.1 1	.3 .1	0 1	.2 2

^{25.} The reason that the PCE deflator increases at all is that changes in the general price level appear as explanatory variables in some PCE component deflator equations. Their appearance is, perhaps, a misspecification in the present context. On the other hand, there may be an offsetting specification error in that nonconsumption prices do not appear as an explanatory variable in the wage-rate equation.

of 7½ to 8 percent (HU). Thus, the price-wage spiral is weaker than in the HU-based simulation.

The differences from the LU control solution in aggregate price level and compensation per hour begin to trend down in the third year; in the HUbased simulation, such a trend begins only in the fifth year. In the final quarter of the LU-based simulation, the GNP deflator is up only 0.7 percent, compared with its peak increase of 1.5 percent in the seventh quarter and 1.7 percent in the final quarter of the HU-based simulation; compensation per hour is actually down 0.5 percent, with the effect of higher unemployment on the wage rate dominating that of higher prices.

The smaller price increases in the LU-based simulation hold down the reduction in real GNP, which also eventually reverts toward zero. During the last half of the period, when the reductions tend to diminish, they are much smaller than in the HU-based simulation. The reduced price increases operate through higher real values of household financial assets, which hold down the reduction in PCE (real disposable income is down about the same in the two simulations), and through lower interest rates and larger profits,

which hold up fixed investment; also, the reductions in real government purchases are smaller. A larger shift in income shares from wages and interest to profits occurs in the LUbased simulation, another result of the greater sensitivity of wage rates to changes in unemployent.

It may seem paradoxical that a positive price shock is more self-limiting when it impinges on a high-employment economy, in which one might expect the potential for triggering accelerating inflation to be stronger, than when it impinges on a lowemployment economy. The explanation is that a positive price shock, which is characterized in this article as a one-time exogenous step-up in a price or price level, has only a transitory inflationary impact. Fundamentally, it is deflationary, tending to lower demand and, eventually, prices. The deflationary effect is greater at a lower unemployment rate because of the nonlinearity in the response of wage rate changes to given shifts in the unemployment rate.

Monetary accommodation.—Again using the HU control solution and case 1, the AMP assumption of increasing M2 1 percentage point has virtually no effect on the aggregate price level during the first half of the period and only a slight effect during the last half of the period. The reductions in real GNP are only slightly smaller, due to lower interest rates.

The differences between the AMP and NMP simulations are also small using the LU control solution. However, in the LU/AMP simulation, there are somewhat larger price responses relative to those in the LU/NMP sim-

CHART 6 Effects of Price Shock With **Alternative Unemployment Rates** and Monetary Responses: Case 1 (Price shock less control solution. relative differences)

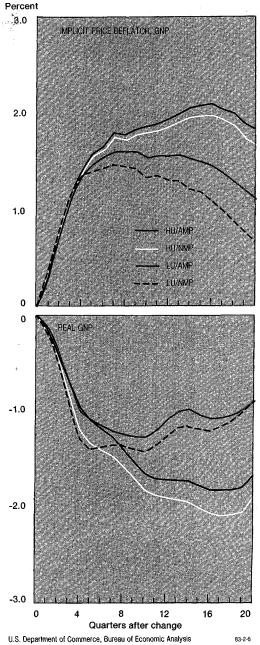


Table 2.—Effects of Price Shock with Alternative Unemployment Rates and Monetary Responses: Case 1

Quarters after change 1 2 3 10 12 16 20 4 6 8 Percent of control solution level Implicit price GNP: deflator HU/NMP HU/AMP 0.3 .3 .4 .3 0.8 .8 .8 1.4 1.4 1.1 1.4 1.6 1.7 1.2 1.6 $1.7 \\ 1.8 \\ 1.4 \\ 1.6$ 1.8 1.9 1.3 1.6 1.9 1.9 1.3 1.6 2.0 2.1 1.1 1.5 1.7 1.8 .7 1.1 1.2 1.1 1.0 1.1 LU/NMP LU/AMP GNP, constant dollars: HU/NMP HU/AMP -.9 -.7 -.9 -.7 $-1.4 \\ -1.2 \\ -1.4 \\ -1.2$ -.5 -.4 -.5 -.4 -1.6 -1.4 -1.4 -1.3 -2.1-1.8 -1.2 -1.1 -1.9 -1.7 -.9 -.9 -1.9 -1.7 -1.3 -1.1 $-1.2 \\ -1.0 \\ -1.3 \\ -1.0$ -1.8-1.7-1.4-1.3-.1 -.2 -.1 II/NMP LU/AMP Percent Unemployment rate: HU/NMP HU/AMP LU/NMP LU/AMP 1.0 .9 .7 .2 .1 .2 .2 3343 .9 .8 .7 .6 00000 .1 .1 .1 .1 .3.2.3.2 .4.5.5 .6 .6 .6 .7.7.7.6 Yield, 4–6 month comm cial paper: HU/NMP HU/AMP. LU/NMP. LU/AMP. -.2 -.4 -.6 -.8 .7 .2 1.2 .4 .5 .3 -.2 .6 0 -.1 -.2 -.2 -.5 -.1 -.3 -.4 -.7 -.1 -.2 -.9 0 0 1.0 .1 -1.0 -.1 -.1 -.2 0^{.6} _.9 _1.2 February 1983

ulation than in the HU/AMP simulation relative to the HU/NMP simulation, with noticeable differences in the GNP deflator appearing as early as the fourth quarter; by the end of the period, the deflator is 0.4 percent higher in the LU/AMP simulation than in the LU/NMP simulation, in contrast to a corresponding difference of only 0.1 percent in the HU-based simulations. There is less of a contrast between differences in real GNP responses—AMP versus NMP—when the LU- and HU-based simulations are compared. Toward the end of the period the differences are slightly smaller for the LU-based simulations, the result of the larger price differences. Although these differences are not large, they show that the demand stimulus created by the larger money supply has more inflationary impact in a high-employment than a low-employment economy, whereas, as noted earlier, a price shock itself has a more inflationary impact in a low-employment economy.

It may be noted that an accommodating monetary policy, as here defined, does not, even after 5 years, neutralize the effects on real output and employment of a price shock, and results in higher price levels. Although current-dollar GNP is larger in the AMP simulation than in the NMP simulation, the differences are not nearly enough to maintain constancy in the velocity of money. This implies that the money supply must be increased several times the amount required to accommodate the additional transactions demand engendered directly by the price shock in order to neutralize the effects on real output and employment.

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

The constant-dollar sales series usually shown each quarter in the SURVEY OF CURRENT BUSINESS have been revised to incorporate new source data for recent years and improvements in the deflation procedure. Constant-dollar sales for manufacturing and merchant wholesalers are revised beginning with 1967; retail trade sales, beginning with 1959. Revised estimates of sales and the related inventories and inventory-sales

ratios, quarterly from 1977: I-1982:IV, and monthly from January-December 1982, are shown in tables 1-5.

Revised estimates for earlier periods are available upon request from the National Income and Wealth Division (BE-54), Bureau of Economic Analysis, U.S. Department of Commerce, Washington, D.C. 20230.

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Line		I	п	ш	IV	I	п	ш	IV	I	п	ш	IV	I	п	ш	IV
1	Manufacturing and trade	237.1	239.8	243.8	246.2	250.5	253.8	256.2	259.7	262.2	264.8	265.2	264.4	263.9	264.7	263.6	262.8
2	Manufacturing	131.3	132.2	133.7	134.1	135.2	136.8	138.5	139.8	141.8	143.3	144.3	145.0	146.6	147.4	146.3	145.9
3 4 5 6 7 8 9 10 11	Durable goods Primary metals. Fabricated metals Machinery, except electrical Electrical machinery Transportation equipment Motor vehicles. O.T.E. Other durable goods ¹	$13.7 \\ 11.1 \\ 20.3 \\ 12.0 \\ 14.5 \\ 5.5$	86.8 13.7 11.2 20.3 12.3 14.3 5.7 8.6 14.9 45.4	87.6 13.7 11.4 20.3 12.5 14.7 5.8 8.9 15.0 46.1	88.1 13.5 11.4 20.8 12.7 14.6 5.8 8.8 15.2 46.0	$89.1 \\ 13.1 \\ 11.6 \\ 21.1 \\ 13.0 \\ 14.9 \\ 5.9 \\ 9.0 \\ 15.4 \\ 46.1$	90.5 13.2 11.7 21.5 13.5 15.1 5.9 9.1 15.5 46.3	$91.9 \\ 13.4 \\ 11.8 \\ 21.8 \\ 13.8 \\ 15.4 \\ 6.2 \\ 9.2 \\ 15.7 \\ 46.5$	93.3 13.5 11.9 22.4 13.9 15.7 6.0 9.7 15.9 46.5	95.3 13.2 12.1 23.0 14.4 16.5 6.6 9.9 16.1 46.5	96.7 13.4 12.1 23.3 14.5 17.0 6.4 10.6 16.3 46.6	$97.7 \\ 13.5 \\ 12.1 \\ 23.6 \\ 14.7 \\ 17.4 \\ 6.5 \\ 10.9 \\ 16.3 \\ 46.7 \\ 10.7 \\ 10.9 \\ 16.3 \\ 10.9 \\ 16.3 \\ 10.9 \\ 1$	98.8 12.1 24.0 15.4 17.5 5.9 11.6 16.2 46.1	99.6 13.5 12.0 24.4 15.8 17.5 5.6 11.9 16.4 47.0	100.4 13.6 11.9 24.9 16.0 17.5 5.2 12.3 16.5 47.1	99.9 13.2 11.6 24.9 16.0 17.8 5.0 12.8 16.4 46.4	99.9 13.1 11.8 24.5 16.0 18.1 4.9 13.2 16.4 46.0
12 13 14 15 16 17 18 19	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	11.6	$ \begin{array}{r} 40.4 \\ 11.9 \\ 33.5 \\ 3.8 \\ 8.2 \\ 3.3 \\ 3.3 \\ 15.0 \\ \end{array} $	$ \begin{array}{r} 40.1 \\ 12.1 \\ 34.0 \\ 3.8 \\ 8.4 \\ 3.3 \\ 3.4 \\ 15.1 \\ \end{array} $	$ \begin{array}{r} 40.6 \\ 11.6 \\ 34.4 \\ 3.8 \\ 8.5 \\ 3.3 \\ 3.4 \\ 15.3 \\ \end{array} $	$ \begin{array}{r} 40.1 \\ 11.5 \\ 34.6 \\ 3.8 \\ 8.7 \\ 3.3 \\ 3.4 \\ 15.4 \\ \end{array} $	11.5 34.7 3.8 8.7 3.2 3.5 15.5	$ \begin{array}{r} 40.5 \\ 11.6 \\ 34.9 \\ 3.9 \\ 8.8 \\ 3.2 \\ 3.5 \\ 15.5 \\ \end{array} $	$ \begin{array}{r} 40.5 \\ 11.6 \\ 34.9 \\ 3.9 \\ 8.8 \\ 3.2 \\ 3.5 \\ 15.5 \\ \end{array} $	40.5 11.7 34.8 3.8 8.7 3.2 3.5 15.5	40.0 11.9 34.7 3.9 8.9 3.1 3.5 15.3	11.8 34.8 3.9 8.7 3.2 3.6 15.4	40.1 11.8 34.3 4.0 8.5 3.3 3.5 15.1	$ \begin{array}{r} 41.0 \\ 11.8 \\ 35.2 \\ 4.1 \\ 8.8 \\ 3.4 \\ 3.5 \\ 15.4 \\ \end{array} $	41.1 11.6 35.4 4.1 8.9 3.5 3.5 15.5	$\begin{array}{r} 40.4\\ 11.7\\ 34.7\\ 4.1\\ 8.6\\ 3.4\\ 3.3\\ 15.3\end{array}$	$ \begin{array}{r} 40.3 \\ 11.6 \\ 34.4 \\ 4.0 \\ 8.6 \\ 3.4 \\ 3.3 \\ 15.1 \\ \end{array} $
20	Merchant wholesalers	46.1	46.8	48.0	49.0	50.8	51.6	51.5	52.5	53.2	53.3	53.6	53.4	53.2	53.5	53.8	53. 9
21 22 23 24	Durable goods Nondurable goods Groceries and farm products Other nondurable goods	5.9	31.2 15.6 6.1 9.5	31.8 16.2 6.4 9.9	32.5 16.5 6.6 9.9	33.6 17.2 7.0 10.2	34.2 17.4 7.0 10.4	34.4 17.1 6.6 10.6	35.1 17.4 6.5 10.9	35.5 17.8 6.6 11.2	35.3 17.9 6.9 11.0	35.9 17.8 7.0 10.7	35.7 17.7 7.0 10.7	35.6 17.5 6.9 10.6	36.1 17.4 6.8 10.6	36.0 17.9 7.1 10.8	36.3 17.6 7.0 10.7
25	Retail trade	59.8	60.8	62.1	63.1	64.5	65.4	66.2	67.3	67.1	68.3	67.2	66.1	64.2	63.7	63.5	63.0
26 27 28 29 30 31	Durable goods Auto dealers Other durable goods Nondurable goods Food stores Other nondurable goods	14.2 14.7 30.9 6.3	$29.2 \\ 14.5 \\ 14.7 \\ 31.6 \\ 6.4 \\ 25.2$	30.0 15.1 14.9 32.0 6.4 25.7	$30.5 \\ 15.7 \\ 14.9 \\ 32.6 \\ 6.4 \\ 26.2$	$31.2 \\ 15.9 \\ 15.3 \\ 33.3 \\ 6.4 \\ 26.9$	31.2 15.6 15.6 34.2 6.5 27.8	31.4 15.7 15.7 34.7 6.5 28.2	32.5 16.7 15.8 34.8 6.5 28.3	32.9 17.0 15.8 34.3 6.5 27.8	33.9 18.1 15.8 34.3 6.5 27.8	$\begin{array}{r} 33.1 \\ 17.3 \\ 15.9 \\ 34.1 \\ 6.7 \\ 27.4 \end{array}$	32.1 16.5 15.6 33.9 6.8 27.2	$30.5 \\ 15.4 \\ 15.1 \\ 33.7 \\ 6.8 \\ 26.8$	29.8 14.6 15.3 33.9 7.0 27.0	29.2 14.0 15.2 34.3 6.9 27.5	29.1 13.9 15.2 33.9 7.0 26.9

See footnotes to table 4.

Table 2.—Manufacturing and Trade Sales in Constant

[Billions of

		1977					19	78			19	79			19	80	
Line		I	II	ш	IV	I	п	ш	IV	I	п	ш	IV	I	п	ш	IV
1	Manufacturing and trade	148.8	150.9	152.3	154.5	154.3	161.1	161.7	164.0	163.7	163.8	164.4	162.9	162.4	155.0	157.6	161.3
2	Manufacturing	71.0	72.1	72.8	73.9	73.5	76.4	76.7	78.0	78.6	77.9	77.9	76.5	76.7	72.1	73.3	75.4
3 4 5 6 7 8 9 10 11	Durable goods Primary metals Fabricated metals Machinery, except electrical Electrical machinery Transportation equipment Motor Vehicles O.T.E Other durable goods ¹	4.9 4.5 6.7 5.3 9.5 6.9	39.3 5.1 4.6 6.8 5.4 9.5 6.9 2.7 7.8	39.7 4.9 4.7 7.0 5.6 9.6 7.0 2.6 8.0	40.4 5.0 4.7 7.1 5.8 9.6 6.9 2.7 8.1	$\begin{array}{c} 40.1 \\ 5.0 \\ 4.7 \\ 7.1 \\ 5.8 \\ 9.5 \\ 6.8 \\ 2.7 \\ 8.1 \end{array}$	$\begin{array}{r} 42.1\\ 5.2\\ 4.8\\ 7.6\\ 6.0\\ 10.0\\ 7.2\\ 2.8\\ 8.4\end{array}$	42.6 5.4 4.9 7.8 6.2 10.1 7.2 2.9 8.3	$\begin{array}{r} 43.8\\ 5.5\\ 5.0\\ 8.1\\ 6.4\\ 10.5\\ 7.6\\ 2.9\\ 8.4\end{array}$	44.4 5.5 5.0 8.2 6.5 10.9 7.7 3.1 8.2	43.7 5.4 4.9 8.4 6.7 9.9 6.9 3.0 8.4	43.6 5.4 5.0 8.5 6.8 9.5 6.2 3.3 8.5	42.4 5.1 4.8 8.5 6.9 8.8 5.7 3.2 8.4	42.7 5.1 4.9 8.5 7.2 8.7 5.4 3.3 8.3	39.2 4.5 4.4 8.3 6.9 7.5 4.3 3.2 7.7	40.2 4.5 4.5 7.0 7.9 4.7 3.2 7.9	41.8 4.8 4.7 8.7 7.1 8.2 4.9 3.3 8.3
12 13 14 15 16 17 18 19	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	21.9 2.7 5.7 3.0 2.0	32.8 10.5 22.3 2.7 5.8 3.0 2.1 8.8	33.1 10.6 22.5 2.6 5.9 3.0 2.1 8.9	33.5 10.8 22.7 2.7 5.9 3.0 2.2 9.0	33.4 10.7 22.7 2.7 6.0 2.9 2.1 8.9	34.3 10.9 23.4 2.8 6.2 3.0 2.2 9.2	34.2 10.9 23.3 6.1 3.1 2.2 9.1	34.2 10.9 23.3 2.8 6.2 3.2 2.2 9.0	34.3 10.7 23.5 2.8 6.4 3.3 2.3 8.8	34.2 10.7 23.5 2.8 6.3 3.3 2.2 8.9	34.3 10.9 23.4 2.9 6.2 3.2 2.1 9.1	$\begin{array}{c} 34.1 \\ 11.0 \\ 23.1 \\ 2.8 \\ 6.2 \\ 3.1 \\ 2.0 \\ 9.1 \end{array}$	$\begin{array}{c} 34.1 \\ 11.0 \\ 23.1 \\ 2.8 \\ 6.1 \\ 3.0 \\ 2.1 \\ 9.1 \end{array}$	32.9 11.0 21.9 2.7 5.7 2.9 1.8 8.8	$\begin{array}{r} 33.1 \\ 11.1 \\ 22.0 \\ 2.8 \\ 5.8 \\ 2.8 \\ 1.9 \\ 8.7 \end{array}$	33.6 11.0 22.6 2.8 6.1 2.8 2.0 8.8
20	Merchant wholesalers	33.4	33. 9	34.8	35.2	35.7	37.7	38.0	38.1	37.6	38.5	38.9	38.8	38.8	37.8	38.6	39.6
21 22 23 24	Durable goods Nondurable goods Groceries and farm products Other nondurable goods	15.5 17.9 9.3 8.6	16.0 17.9 9.4 8.5	16.2 18.5 9.9 8.6	16.7 18.5 9.8 8.6	17.0 18.7 9.9 8.7	17.9 19.7 10.5 9.3	18.2 19.9 10.5 9.4	18.3 19.9 10.4 9.4	18.1 19.5 10.1 9.5	18.6 19.9 10.1 9.8	18.8 20.1 10.4 9.7	18.6 20.2 10.6 9.6	18.6 20.1 10.6 9.5	17.6 20.3 10.8 9.4	18.0 20.6 10.6 10.0	18.7 20.9 10.8 10.2
25	Retail Trade	44.4	44.9	44.7	45.4	45.2	47.0	46.9	47.9	47.5	47.3	47.7	47.6	47.0	45.1	45.7	46.3
26 27 28 29 30 31	Durable goods Auto dealers Other durable goods Nondurable goods Food stores Other nondurable goods	9.4 5.9	16.1 9.6 6.4 28.8 9.1 19.7	16.0 9.3 6.6 28.8 9.1 19.6	16.3 9.5 6.8 29.2 9.2 20.0	15.8 9.2 6.6 29.4 9.3 20.1	$17.2 \\ 10.3 \\ 7.0 \\ 29.8 \\ 9.1 \\ 20.7$	16.9 9.8 7.0 30.1 9.0 21.0	17.4 10.2 7.2 30.5 9.1 21.3	17.2 10.2 7.1 30.2 9.1 21.1	17.2 9.8 7.4 30.2 9.3 20.9	17.2 9.5 7.7 30.5 9.4 21.1	16.8 9.3 7.5 30.8 9.6 21.2	16.3 8.9 7.4 30.7 9.7 21.0	$14.7 \\ 7.7 \\ 7.0 \\ 30.4 \\ 9.7 \\ 20.7$	15.2 8.2 7.1 30.5 9.6 20.8	15.6 8.2 7.4 30.7 9.5 21.2

See footnotes to table 4.

Dollars, Seasonally Adjusted, End of Period 1972 dollars]

	198	31			19												Line			
Ι	п	ш	IV	I	п	ш	IV	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Line
263.1	265.9	269.4	269.9	266.0	265.2	266.0	261.4	267.7	266.5	266.0	266.5	264.5	265.2	265.6	265.5	266.0	265.2	262.3	261.4	1
146.9	147.5	149.4	148.4	146.4	144.6	143.3	140.3	146.9	146.9	146.4	146.0	145.3	144.6	144.4	144.0	143.3	142.6	141.0	140.3	2
100.5 13.7 11.6 24.5 16.1 18.0 4.7 13.4 16.6	$100.9 \\ 13.6 \\ 11.5 \\ 24.6 \\ 16.4 \\ 18.1 \\ 4.4 \\ 13.7 \\ 16.7 \\ 16.7 \\ 1.5 \\ $	$102.5 \\ 14.2 \\ 11.6 \\ 25.1 \\ 16.6 \\ 18.1 \\ 4.4 \\ 13.7 \\ 17.0 \\ 17.0 \\ 17.0 \\ 102.5 \\$	$101.8 \\ 14.2 \\ 11.4 \\ 25.2 \\ 16.3 \\ 17.9 \\ 4.0 \\ 13.8 \\ 16.8 \\ 16.8 \\ 16.8 \\ 16.8 \\ 16.8 \\ 16.8 \\ 1000 \\ $	$100.1 \\ 14.2 \\ 11.2 \\ 24.9 \\ 16.0 \\ 17.5 \\ 3.7 \\ 13.8 \\ 16.4$	99.2 13.6 11.1 24.7 15.7 17.8 3.7 14.1 16.2	98.3 13.4 10.8 24.3 15.4 18.2 3.7 14.5 16.1	$\begin{array}{c} 95.7\\ 12.7\\ 10.3\\ 23.4\\ 15.2\\ 18.5\\ 3.6\\ 14.9\\ 15.7\end{array}$	100.6 14.1 11.4 24.9 16.1 17.5 3.7 13.9 16.5	$100.4 \\ 14.2 \\ 11.3 \\ 25.0 \\ 16.0 \\ 17.5 \\ 3.7 \\ 13.8 \\ 16.4$	100.1 14.2 11.2 24.9 16.0 17.5 3.7 13.8 16.4	99.8 13.9 11.1 24.9 15.8 17.7 3.7 14.0 16.3	99.5 13.8 11.1 25.0 15.8 17.7 3.6 14.1 16.2	99.2 13.6 11.1 24.7 15.7 17.8 3.7 14.1 16.2	98.8 13.6 10.9 24.7 15.6 17.9 3.8 14.1 16.2	98.6 13.5 11.0 24.6 15.5 18.0 3.7 14.3 16.1	98.3 13.4 10.8 24.3 15.4 18.2 3.7 14.5 16.1	$\begin{array}{c} 97.6 \\ 13.3 \\ 10.7 \\ 24.1 \\ 15.3 \\ 18.2 \\ 3.6 \\ 14.6 \\ 16.0 \end{array}$	96.4 13.0 10.4 23.9 15.3 18.0 3.5 14.5 15.8	95.7 12.7 10.3 23.4 15.2 18.5 3.6 14.9 15.7	3 4 5 6 7 8 9 10 11
46.5 11.6 34.9 4.1 8.7 3.5 3.3 15.2	$ \begin{array}{r} 11.6 \\ 35.0 \\ 4.1 \\ 8.9 \\ 3.5 \\ 3.4 \\ \end{array} $	$\begin{array}{r} 46.8\\11.6\\35.2\\4.2\\8.9\\3.4\\3.4\\15.4\end{array}$	$\begin{array}{r} 46.7\\ 11.8\\ 35.4\\ 4.3\\ 8.9\\ 3.3\\ 3.3\\ 15.6\end{array}$	$\begin{array}{r} 46.3\\11.1\\35.2\\4.3\\8.8\\3.4\\3.2\\15.4\end{array}$	45.4 10.8 34.5 8.7 3.2 15.2	45.0 11.1 34.0 4.3 8.5 3.2 3.0 15.0	44.6 11.0 33.6 4.3 8.3 3.2 3.0 14.7	46.4 11.3 35.1 4.2 8.8 3.3 3.2 15.5	$\begin{array}{r} 46.5\\11.2\\35.2\\4.3\\8.8\\3.3\\3.2\\15.6\end{array}$	$\begin{array}{r} 46.3\\11.1\\35.2\\4.3\\8.8\\3.4\\3.2\\15.4\end{array}$	$\begin{array}{r} 46.2 \\ 11.1 \\ 35.1 \\ 4.3 \\ 8.9 \\ 3.3 \\ 3.3 \\ 15.4 \end{array}$	45.8 11.0 34.8 4.3 8.7 3.2 3.2 15.4	45.4 10.8 34.5 4.2 8.7 3.2 3.2 15.2	$\begin{array}{r} 45.6\\ 11.0\\ 34.6\\ 4.2\\ 8.6\\ 3.2\\ 3.1\\ 15.3\end{array}$	$\begin{array}{r} 45.4\\11.1\\34.3\\4.3\\8.6\\3.2\\3.1\\15.2\end{array}$	45.0 11.1 34.0 4.3 8.5 3.2 3.0 15.0	$\begin{array}{r} 45.1\\11.0\\34.1\\4.3\\8.5\\3.2\\3.1\\15.0\end{array}$	44.7 10.9 33.7 4.3 8.3 3.3 3.0 14.8	44.6 11.0 33.6 4.3 8.3 3.2 3.0 14.7	12 13 14 15 16 17 18 19
53.4	53.9	54.1	55.3	54.5	55.2	55.5	55.2	55.4	54.5	54.5	55.4	54.5	55.2	55.6	55.0	55.5	55.8	55.3	55.2	20
36.0 17.3 6.7 10.6	17.4 6.5	36.7 17.4 6.5 10.9	37.4 17.9 6.8 11.1	36.9 17.6 6.5 11.0	36.9 18.3 6.9 11.4	37.4 18.1 6.9 11.2	36.8 18.4 7.3 11.2	37.2 18.2 7.0 11.2	36.7 17.8 6.8 11.0	36.9 17.6 6.5 11.0	37.5 17.9 6.6 11.3	36.6 17.9 6.6 11.3	36.9 18.3 6.9 11.4	37.5 18.1 6.8 11.4	37.0 18.0 6.7 11.3	37.4 18.1 6.9 11.2	37.6 18.2 6.9 11.3	37.1 18.3 7.1 11.2	36.8 18.4 7.3 11.2	21 22 23 24
62.8	64.6	65.9	66.1	65.1	65.4	67.2	65.9	65.4	65.0	65.1	65.2	64.7	65.4	65.5	66.4	67.2	66.9	65.9	65.9	25
28.6 13.1 15.5 34.2 7.2 27.0	14.6 15.4 34.6 7.2	30.4 14.9 15.6 35.5 7.3 28.2	30.3 14.6 15.7 35.7 7.4 28.3	29.3 14.2 15.1 35.8 7.4 28.3	29.7 14.4 15.2 35.7 7.5 28.2	$31.3 \\ 15.8 \\ 15.5 \\ 35.8 \\ 7.4 \\ 28.4$	30.0 14.3 15.7 35.9 7.8 28.1	29.8 14.4 15.4 35.6 7.4 28.1	29.4 14.1 15.3 35.7 7.5 28.1	29.3 14.2 15.1 35.8 7.4 28.3	29.4 14.2 15.2 35.8 7.4 28.3	29.1 13.8 15.3 35.6 7.4 28.1	29.7 14.4 15.2 35.7 7.5 28.2	30.0 14.8 15.2 35.6 7.4 28.2	30.7 15.4 15.4 35.7 7.4 28.4	31.3 15.8 15.5 35.8 7.4 28.4	30.9 15.4 15.5 36.0 7.5 28.5	30.1 14.5 15.5 35.8 7.6 28.2	30.0 14.3 15.7 35.9 7.8 28.1	26 27 28 29 30 31

Dollars, Seasonally Adjusted Total at Monthly Rate

1972 dollars]

	198	1																		
I	п	ш	IV	I	п	ш	IV	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Line
162.6	162.8	161.6	156.4	154.3	155.4	154.0	151.0	152.1	155.2	155.4	153.5	157.3	155.5	155.0	153.3	153.5	149.7	151.8	151.3	1
75.1	76.1	75.1	71.2	69.6	70.2	69.9	66.5	68.4	70.2	70.1	69.1	70.8	70.8	70.6	69.5	69.6	66.4	66.6	66.5	2
41.4 4.8 4.7 8.9 7.0 7.7 4.5 3.2 8.4	42.4 4.9 4.7 8.9 7.2 8.3 5.1 3.2 8.5	41.5 4.8 4.6 8.9 7.2 7.9 4.8 3.1 8.2	38.7 4.1 8.9 6.9 6.9 4.0 3.0 7.8	37.3 3.9 4.0 8.5 6.8 6.4 3.7 7.7	37.7 3.6 4.2 6.9 7.2 4.5 2.7 7.7	37.1 3.5 4.1 7.7 6.8 7.2 4.7 2.5 7.7	34.5 32.7 7.4 6.2 3.6 2.6 7.5	$\begin{array}{c} 36.6 \\ 4.1 \\ 4.0 \\ 8.3 \\ 6.7 \\ 5.9 \\ 3.4 \\ 2.6 \\ 7.6 \end{array}$	37.6 3.9 4.0 8.6 6.8 6.6 3.8 2.8 7.8	37.7 3.6 4.1 8.8 6.8 6.7 4.0 2.7 7.7	37.1 3.7 4.1 7.9 6.8 4.4 2.5 7.7	38.2 3.6 4.2 8.2 7.0 7.4 4.6 2.8 7.8	37.9 3.6 4.2 8.0 6.8 7.4 4.7 2.8 7.8	37.8 3.5 4.2 7.6 7.1 7.5 4.9 2.7 7.8	$\begin{array}{c} 36.9\\ 3.5\\ 4.1\\ 7.6\\ 6.7\\ 7.4\\ 4.9\\ 2.5\\ 7.7\end{array}$	36.6 3.4 4.0 7.9 6.7 6.8 4.2 2.5 7.7	34.4 3.2 3.7 7.2 6.6 6.2 3.5 2.6 7.5	34.6 3.1 3.8 7.5 6.5 6.2 3.6 2.6 7.6	34.5 3.2 3.6 7.5 6.5 6.3 .3.7 2.6 7.4	3 4 5 6 7 8 9 10 11
33.6 11.2 22.4 2.9 6.1 2.7 1.8 9.0	33.7 11.3 22.4 2.8 5.9 2.7 1.8 9.1	33.6 11.2 22.4 2.8 5.9 2.7 1.8 9.2	32.5 11.0 21.5 2.8 5.6 2.6 1.7 8.7	32.3 11.2 21.0 2.7 5.5 2.5 1.6 8.7	$\begin{array}{c} 32.5 \\ 11.2 \\ 21.3 \\ 2.7 \\ 5.7 \\ 2.8 \\ 1.6 \\ 8.6 \end{array}$	32.8 11.2 21.6 2.7 5.8 2.7 1.6 8.7	$\begin{array}{c} 32.0\\ 11.1\\ 20.9\\ 2.7\\ 5.6\\ 2.5\\ 1.5\\ 8.6\end{array}$	$\begin{array}{c} 31.9 \\ 11.1 \\ 20.7 \\ 2.8 \\ 5.5 \\ 2.5 \\ 1.6 \\ 8.3 \end{array}$	$\begin{array}{c} 32.6 \\ 11.4 \\ 21.2 \\ 2.7 \\ 5.6 \\ 2.5 \\ 1.6 \\ 8.8 \end{array}$	$\begin{array}{c} 32.4\\11.2\\21.2\\2.7\\5.6\\2.5\\1.5\\8.9\end{array}$	32.0 11.0 21.0 2.7 5.6 2.8 1.6 8.4	$\begin{array}{c} 32.6 \\ 11.3 \\ 21.3 \\ 2.7 \\ 5.7 \\ 2.8 \\ 1.6 \\ 8.6 \end{array}$	33.0 11.3 21.6 2.7 5.9 2.7 1.7 8.6	32.8 11.3 21.4 2.7 5.7 2.7 1.7 8.6	32.6 10.9 21.7 2.7 5.9 2.7 1.6 8.8	33.0 11.5 21.6 2.7 5.7 2.7 1.6 8.8	32.0 11.1 20.8 2.7 5.4 2.6 1.5 8.5	32.0 11.2 20.8 2.7 5.6 2.5 1.5 8.5	32.0 11.0 21.0 2.7 5.6 2.5 1.4 8.8	12 13 14 15 16 17 18 19
40.3	40.0	39.7	39.3	39.1	39.0	38.2	37.6	38.7	39.0	39.6	38.5	39.5	39.1	38.5	38.2	37.8	37.2	37.9	37.6	20
19.0 21.3 11.2 10.1	19.1 20.9 10.9 10.0	18.8 20.9 11.0 10.0	18.1 21.2 11.4 9.8	17.6 21.5 11.4 10.1	$16.8 \\ 22.2 \\ 11.5 \\ 10.7$	16.4 21.7 11.4 10.4	16.6 21.0 11.1 9.9	17.8 20.9 11.2 9.7	17.5 21.5 11.6 9.9	17.4 22.2 11.6 10.6	16.9 21.6 11.1 10.5	16.9 22.5 11.7 10.8	16.6 22.5 11.6 10.9	16.7 21.9 11.3 10.6	16.2 22.0 11.5 10.5	16.4 21.4 11.2 10.1	16.4 20.9 11.0 9.9	16.8 21.1 11.2 9.8	16.6 21.0 11.0 10.0	21 22 23 24
47.2	46.7	46.9	45.9	45.6	46.2	45.9	46.9	45.0	46.1	45.7	46.0	47.1	45.5	45.9	45.6	46.2	46.1	47.3	47.2	25
16.3 8.8 7.6 30.9 9.6 21.3	15.8 8.3 7.5 31.0 9.7 21.2	16.0 8.6 7.4 30.9 9.7 21.1	15.0 7.9 7.1 30.9 9.9 21.0	14.9 8.0 7.0 30.7 9.7 21.0	15.3 8.3 7.0 30.8 9.7 21.1	15.0 8.1 6.8 30.9 9.8 21.1	15.8 8.9 6.9 31.1 9.9 21.2	14.5 7.6 6.9 30.5 9.7 20.9	15.2 8.2 7.0 30.9 9.7 21.2	15.1 8.1 6.9 30.6 9.8 20.9	15.3 8.3 7.0 30.7 9.7 21.0	15.9 8.9 7.1 31.2 9.8 21.3	14.9 7.9 7.0 30.7 9.7 21.0	14.9 8.0 6.9 31.0 9.7 21.2	14.7 7.9 6.8 30.9 9.9 21.1	15.3 8.5 6.8 30.9 9.9 21.0	15.1 8.3 6.8 31.0 9.9 21.2	16.4 9.5 6.9 31.0 9.9 21.1	16.0 8.9 7.1 31.2 9.9 21.3	26 27 28 29 30 31

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SURVEY OF CURRENT BUSINESS

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Table 3.—Constant-Dollar Inventory-Sales Ratios

Ratio, based

																[Rati	io, based
Line			19	77			19	78			19	79			19	80	
Line		I	II	ш	IV	I	П	ш	IV	I	п	m	IV	I	п	ш	IV
1	Manufacturing and trade	1.59	1.59	1.60	1.59	1.62	1.58	1.58	1.58	1.60	1.62	1.61	1.62	1.63	1.71	1.67	1.63
2	Manufacturing	1.85	1.83	1.84	1.82	1.84	1.79	1.80	1.79	1.80	1.84	1.85	1.89	1.91	2.04	2.00	1.94
3 4 5 6 7 8 9 10 11	Durable goods Primary metals	2.25 2.81 2.45 3.02 2.28 1.52 .79 3.41 1.97 1.38	2.21 2.70 2.41 2.97 2.30 1.50 .82 3.25 1.91 1.39	2.21 2.78 2.45 2.92 2.22 1.54 3.38 3.28 1.89 1.39	2.18 2.71 2.42 2.91 2.17 1.52 .84 3.28 1.88 1.88	2.22 2.64 2.50 2.95 2.24 1.57 3.34 1.91 1.38	2.15 2.54 2.43 2.83 2.26 1.50 .82 3.25 1.84 1.35	2.16 2.49 2.43 2.81 2.24 1.53 3.22 1.89 1.36	2.13 2.43 2.40 2.78 2.18 1.50 .80 3.33 1.90 1,36	2.15 2.41 2.39 2.80 2.20 1.52 .85 3.18 1.97 1.36	2.21 2.49 2.46 2.79 2.17 1.72 .93 3.51 1.95 1.36	2.24 2.49 2.44 2.78 2.17 1.84 1.05 3.35 1.93 1.36	2.33 2.68 2.53 2.84 1.98 1.04 3.64 1.94 1.35	2.33 2.62 2.48 2.88 2.20 2.01 1.03 3.61 1.97 1.38	2.56 3.05 2.73 2.99 2.32 2.35 1.23 3.83 2.14 1.43	2.48 2.93 2.59 2.94 2.30 2.26 1.08 3.99 2.06 1.40	2.39 2.73 2.49 2.83 2.25 2.19 .98 4.00 1.98 1.37
12 13 14 15 16 17 18 19	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	1.10 1.51 1.39 1.42	$ 1.39 \\ 1.14 \\ 1.50 \\ 1.40 \\ 1.41 \\ 1.10 \\ 1.58 \\ 1.72 $	1.39 1.15 1.51 1.45 1.43 1.11 1.60 1.69	1.37 1.07 1.52 1.44 1.45 1.12 1.55 1.71	1.38 1.07 1.53 1.39 1.45 1.14 1.61 1.72	1.35 1.06 1.48 1.38 1.40 1.08 1.58 1.68	$1.36 \\ 1.06 \\ 1.50 \\ 1.39 \\ 1.45 \\ 1.03 \\ 1.58 \\ 1.71$	$1.36 \\ 1.07 \\ 1.50 \\ 1.37 \\ 1.42 \\ 1.03 \\ 1.62 \\ 1.73$	1.36 1.09 1.48 1.37 1.37 .96 1.55 1.77	$1.36 \\ 1.11 \\ 1.47 \\ 1.36 \\ 1.40 \\ .96 \\ 1.62 \\ 1.72$	1.36 1.09 1.49 1.34 1.40 1.02 1.75 1.70	$ 1.35 \\ 1.07 \\ 1.48 \\ 1.42 \\ 1.38 \\ 1.05 \\ 1.75 \\ 1.66 $	1.38 1.07 1.53 1.46 1.46 1.14 1.72 1.68	$1.43 \\ 1.06 \\ 1.62 \\ 1.53 \\ 1.57 \\ 1.20 \\ 1.87 \\ 1.75$	$1.40 \\ 1.06 \\ 1.58 \\ 1.48 \\ 1.48 \\ 1.24 \\ 1.72 \\ 1.72 \\ 1.74$	1.37 1.06 1.52 1.42 1.40 1.19 1.69 1.71
20	Merchant wholesalers	1.38	1.38	1.38	1.39	1.43	1.37	1.36	1.38	1.42	1.38	1.38	1.38	1.37	1.42	1.39	1.36
21 22 23 24	Durable goods Nondurable goods Groceries and farm products Other nondurable goods	1.98 .86 .64 1.09	1.95 .87 .65 1.11	1.95 .88 .64 1.15	1.94 .90 .67 1.15	1.98 .92 .71 1.16	1.91 .88 .66 1.13	1.90 .86 .63 1.12	1.92 .88 .62 1.16	1.97 .91 .66 1.18	1.90 .90 .69 1.12	1.91 .88 .68 1.11	$1.92 \\ .88 \\ .66 \\ 1.12$	1.91 .87 .65 1.12	2.06 .86 .63 1.12	2.00 .87 .67 1.08	1.94 .84 .65 1.05
25	Retail trade	1.35	1.36	1.39	1.39	1.43	1.39	1.41	1.41	1.41	1.44	1.41	1.39	1.37	1.41	1.39	1.36
26 27 28 29 30 31	Durable goods Auto dealers Other durable goods Nondurable goods Food stores Other nondurable goods	1.89 1.51 2.49 1.06 .70 1.23	1.82 1.51 2.29 1.10 .70 1.28	1.88 1.62 2.24 1.11 .70 1.31	1.88 1.66 2.18 1.12 .70 1.31	1.98 1.74 2.31 1.13 .69 1.34	1.81 1.53 2.23 1.15 .71 1.34	1.87 1.60 2.24 1.16 .72 1.34	1.87 1.64 2.19 1.14 .71 1.33	1.91 1.68 2.24 1.13 .71 1.32	1.98 1.85 2.15 1.14 .70 1.33	1.93 1.81 2.07 1.12 .71 1.30	1.91 1.79 2.06 1.10 .71 1.28	1.88 1.73 2.04 1.10 .70 1.28	2.03 1.89 2.18 1.12 .72 1.30	1.92 1.71 2.16 1.13 .72 1.32	1.87 1.69 2.07 1.10 .73 1.27

See footnotes to table 4.

Table 4.—Fixed-Weight Constant-Dollar Inventory-Sales Ratios [Ratio, based

Line			19	77			19	78	
Line		I	п	ш	ſV	Ì	п	ш	IV
1	Manufacturing and trade	1.60	1.58	1.60	1.59	1.62	1.56	1.57	1.56
2	Manufacturing	1.87	1.85	1.85	1.83	1.85	1.80	1.81	1.79
3 4	Durable goods Nondurable goods	2.28 1.39	2.23 1.39	2.24 1.40	2.21 1.39	2.24 1.39	2.17 1.36	2.17 1.38	2.14 1.38
5	Merchant wholesalers	1.37	1.37	1.38	1.38	1.42	1.36	1.35	1.36
6 7	Durable goods Nondurable goods	1.98 .87	1.95 .88	1.96 .90	1.95 .91	2.00 .94	1.92 .89	1.92 .88	1.92 .89
8	Retail trade	1.33	1.32	1,35	1.35	1.39	1.34	1.36	1.35
9 10	Durable goods Nondurable goods	1.91 1.04	1.81 1.08	1.86 1.10	1.86 1.09	1.96 1.11	1.80 1.11	1.85 1.11	1.85 1.10

Includes lumber and wood products; furniture and fixtures; stone, clay, and glass products; instruments and related products; and miscellaneous manufacturing industries.
 Includes tobacco manufacturers; textile mill products; apparel products; printing and publishing; and leather and leather products. Nore.—Manufacturing inventories are classified by the type of product produced by the estab-

lishment holding the inventory. Trade inventories are classified by the type of product sold by the establishment holding the inventory. Table 4: The I-S ratios shown in this table were obtained by weighting detailed industry I-S ratios by 1972 sales. For manufacturing 21 industries were used; for merchant wholesalers, 20 kinds of business; and for retail trade, 8 kinds of business.

for Manufacturing and Trade, Seasonally Adjusted

on 1972 dollars]

	198	31			19	82							19	83						Line
I	п	ш	IV	I	п	ш	IV	Jan.	Feb.	Mar.	Арг.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Line
1.62	1.63	1.67	1.73	1.72	1.71	1.73	1.73	1.76	1.72	1.71	1.74	1.68	1.71	1.71	1.73	1.73	1.77	1.73	1.73	1
1.96	1.94	1.99	2.09	2.10	2.06	2.05	2.11	2.15	2.09	2.09	2.11	2.05	2.04	2.05	2.07	2.06	2.15	2.12	2.11	2
2.42 2.84 2.47 2.76 2.30 2.35 1.04 4.22 1.97	2.38 2.79 2.46 2.77 2.28 2.19 .88 4.28 1.97	2.47 2.96 2.54 2.83 2.31 2.28 .92 4.41 2.08	2,63 3,43 2,80 2,84 2,38 2,57 1,03 4,61 2,15	2.68 3.67 2.78 2.91 2.36 2.73 .99 5.13 2.13	$\begin{array}{c} 2.63\\ 3.76\\ 2.67\\ 3.08\\ 2.27\\ 2.46\\ .81\\ 5.27\\ 2.10\\ \end{array}$	2.65 3.83 2.64 3.15 2.26 2.52 .79 5.70 2.09	2.77 4.03 2.78 3.17 2.33 2.97 1.00 5.69 2.08	2.75 3.46 2.88 3.01 2.40 2.95 1.09 5.38 2.17	$\begin{array}{c} 2.67\\ 3.66\\ 2.81\\ 2.91\\ 2.36\\ 2.66\\ .98\\ 4.92\\ 2.12\end{array}$	2.65 3.93 2.74 2.84 2.35 2.60 .92 5.13 2.12	2.69 3.74 2.74 3.15 2.30 2.59 .85 5.66 2.13	2.61 3.82 2.64 3.05 2.25 2.40 .79 5.05 2.08	2.62 3.81 2.65 3.08 2.30 2.39 .79 5.11 2.09	2.61 3.83 2.58 3.25 2.20 2.37 .78 5.29 2.07	2.67 3.84 2.68 3.24 2.32 2.44 .75 5.80 2.10	2.69 3.89 2.73 3.06 2.30 2.69 .87 5.76 2.09	2.84 4.13 2.89 3.34 2.32 2.95 1.02 5.54 2.12	2.79 4.25 2.76 3.18 2.37 2.91 .97 5.61 2.08	$\begin{array}{c} 2.77\\ 4.01\\ 2.82\\ 3.14\\ 2.34\\ 2.91\\ .97\\ 5.69\\ 2.10\end{array}$	3 4 5 6 7 8 9 10 11
1.38 1.04 1.55 1.44 1.44 1.26 1.86 1.69	$1.38 \\ 1.02 \\ 1.56 \\ 1.46 \\ 1.50 \\ 1.30 \\ 1.82 \\ 1.67$	$1.39 \\ 1.04 \\ 1.57 \\ 1.51 \\ 1.51 \\ 1.24 \\ 1.84 \\ 1.67$	$1.44 \\ 1.02 \\ 1.65 \\ 1.56 \\ 1.58 \\ 1.26 \\ 1.97 \\ 1.78$	$1.43 \\ .99 \\ 1.67 \\ 1.58 \\ 1.59 \\ 1.35 \\ 2.06 \\ 1.77$	1.40 .97 1.62 1.58 1.53 1.15 2.00 1.78	$1.37 \\ .98 \\ 1.58 \\ 1.58 \\ 1.47 \\ 1.18 \\ 1.87 \\ 1.71$	$1.40 \\ .99 \\ 1.61 \\ 1.60 \\ 1.49 \\ 1.27 \\ 2.07 \\ 1.72$	$1.46 \\ 1.01 \\ 1.69 \\ 1.52 \\ 1.61 \\ 1.31 \\ 1.99 \\ 1.86$	$1.43 \\ .99 \\ 1.66 \\ 1.57 \\ 1.57 \\ 1.36 \\ 2.06 \\ 1.77 \\ 1$	$1.43 \\ .99 \\ 1.66 \\ 1.58 \\ 1.59 \\ 1.35 \\ 2.14 \\ 1.73$	$1.44 \\ 1.01 \\ 1.67 \\ 1.58 \\ 1.59 \\ 1.18 \\ 2.08 \\ 1.83 \\ $	$1.40 \\ .98 \\ 1.63 \\ 1.61 \\ 1.53 \\ 1.14 \\ 2.03 \\ 1.79$	1.38 .96 1.60 1.57 1.48 1.17 1.92 1.76	1.39 .97 1.61 1.56 1.51 1.17 1.86 1.79	$1.39 \\ 1.02 \\ 1.58 \\ 1.56 \\ 1.46 \\ 1.21 \\ 1.94 \\ 1.72$	$1.36 \\ .97 \\ 1.57 \\ 1.57 \\ 1.48 \\ 1.17 \\ 1.89 \\ 1.71$	$1.41 \\ .99 \\ 1.64 \\ 1.58 \\ 1.56 \\ 1.21 \\ 2.04 \\ 1.76$	$1.40 \\ .98 \\ 1.62 \\ 1.59 \\ 1.49 \\ 1.30 \\ 2.08 \\ 1.73$	$1.40 \\ 1.00 \\ 1.61 \\ 1.61 \\ 1.48 \\ 1.31 \\ 2.14 \\ 1.68$	12 13 14 15 16 17 18 19
1.32	1.35	1.36	1.41	1.39	1.41	1.46	1.47	1.43	1.40	1.38	1.44	1.38	[·] 1.41	1.44	1.44	1.47	1.50	1.46	1.47	20
1.89 .82 .60 1.05	1.91 .83 .60 1.08	1.96 .83 .60 1.09	2.07 .85 .60 1.13	2.10 .82 .57 1.10	2.20 .82 .60 1.07	2.28 .83 .61 1.08	2.22 .88 .66 1.12	2.09 .87 .62 1.15	2.10 .83 .59 1.11	2.12 .79 .56 1.04	2.22 .83 .59 1.08	2.17 .80 .56 1.05	2.22 .81 .59 1.04	2.25 .83 .60 1.07	2.28 .82 .58 1.08	2.28 .85 .61 1.11	2.30 .87 .63 1.14	2.21 .87 .63 1.13	2.21 .88 .66 1.11	21 22 23 24
1.33	1.38	1.41	1.44	1.43	1.42	1.46	1.41	1.45	1.41	1.42	1.42	1.37	1.44	1.43	1.46	1.46	1.45	1.39	1.40	25
$1.75 \\ 1.50 \\ 2.05 \\ 1.11 \\ .75 \\ 1.27$	$1.90 \\ 1.75 \\ 2.06 \\ 1.12 \\ .74 \\ 1.29$	$1.90 \\ 1.72 \\ 2.11 \\ 1.15 \\ .76 \\ 1.33$	2.02 1.84 2.22 1.16 .75 1.35	$1.96 \\ 1.78 \\ 2.18 \\ 1.17 \\ .77 \\ 1.35$	1.93 1.73 2.17 1.16 .77 1.34	2.09 1.95 2.27 1.16 .76 1.35	1.90 1.61 2.27 1.16 .78 1.33	2.05 1.90 2.22 1.17 .77 1.35	1.94 1.73 2.18 1.15 .78 1.33	1.94 1.74 2.18 1.17 .76 1.36	1.93 1.72 2.17 1.16 .77 1.35	$1.83 \\ 1.56 \\ 2.17 \\ 1.14 \\ .76 \\ 1.32$	2.00 1.83 2.19 1.17 .77 1.35	2.01 1.85 2.20 1.15 .76 1.33	2.09 1.94 2.27 1.16 .75 1.35	$2.05 \\ 1.87 \\ 2.27 \\ 1.16 \\ .75 \\ 1.35$	2.05 1.85 2.29 1.16 .75 1.35	$1.84 \\ 1.53 \\ 2.25 \\ 1.16 \\ .76 \\ 1.34$	1.88 1.61 2.21 1.15 .78 1.32	26 27 28 29 30 31

for Manufacturing and Trade, Seasonally Adjusted

on 1972 dollars]

	197	79			19	80			19	81			19	82		
I.	п	ш	IV	I	п	ш	IV	I	п	ш	IV	1	11	ш	IV	Line
1.58	1.59	1.58	1.60	1.59	1.69	1.65	1.60	1.59	1.60	1.64	1.72	1.74	1.73	1.77	1.78	1
1.80	1.83	1.82	1.87	1.87	2.01	1.95	1.89	1.91	1.89	1.95	2.06	2.10	2.07	2.08	2.15	2
2.15 1.38	2.21 1.38	2.20 1.38	2.29 1.37	2.27 1.40	2.48 1.45	2.41 1.42	2.31 1.39	2.35 1.40	2.31 1.40	2.40 1.41	2.56 1.47	2.63 1.48	2.62 1.43	2.66 1.40	2.75 1.45	34
1.39	1.36	1.35	1.35	1.34	1.41	1.38	1.35	1.31	1.33	1,35	1.41	1.41	1.46	1.52	1.52	5
1.96 .92	1.90 .91	1.90 .89	1.91 .89	1.90 .88	2.05 .87	1.99 .88	1.93 .86	1.88 .84	1.90 .86	1.95 .86	2.06 .88	2.09 .85	2.20 .85	2.33 .84	2.28 .88	6 7
1.36	1.39	1.35	1.34	1.33	1.39	1.36	1.32	1.28	1.34	1.36	1.41	1.39	1.38	1.44	1.37	8
1.89 1.10	1.96 1.10	1.91 1.08	1.89 1.06	1.86 1.07	2.01 1.09	1.89 1.09	1.84 1.06	1.72 1.07	1.88 1.07	1.88 1.10	1.99 1.11	1.94 1.12	1.91 1.11	2.08 1.12	1.89 1.11	9 10

SURVEY OF CURRENT BUSINESS

Table 5.—Manufacturing Inventories by Stage of Fabrication

Billions of

																(Bi	llions of
Line			197	17			197	78			19'	79			19	80	
Line		I	II	111	IV	I	11	ш	IV	I	п	m	īV	Ι	n	ш	IV
	MATERIALS AND SUPPLIES																
1	Manufacturing	47.6	48.7	48. 9	48.3	48.2	48.8	49.6	49.9	50.4	50.4	51.0	51.6	52.2	52.2	51.3	51.2
2 3 4 5 6 7 8 9	Durable goods Primary metals Fabricated metals Machinery, except electrical Electrical machinery Motor vehicles O.T.E Other durable goods ¹	29.2 5.8 4.7 5.8 3.7 2.4 1.3 5.5	29.9 5.8 4.9 5.8 3.7 2.5 1.6 5.6	30.0 5.7 4.9 5.8 3.8 2.7 1.6 5.6	29.7 5.5 4.8 5.9 3.8 2.6 1.5 5.6	29.6 5.2 4.8 6.0 3.9 2.6 1.5 5.6	30.1 5.2 4.8 6.2 4.1 2.7 1.4 5.7	31.0 5.3 4.9 6.3 4.2 2.9 1.6 5.8	31.2 5.3 5.0 6.4 4.2 2.7 1.7 5.9	31.8 5.2 5.0 6.5 4.4 3.1 1.6 5.9	31.9 5.2 5.0 6.6 4.5 2.9 1.7 6.0	32.3 5.3 5.0 6.6 4.5 3.1 1.8 6.0	32.9 5.4 5.0 6.9 4.7 2.8 2.0 6.0	33.1 5.5 5.0 7.0 4.7 2.6 2.1 6.1	33.0 5.5 4.9 7.1 4.8 2.4 2.3 6.1	32.4 5.3 4.7 7.0 4.8 2.1 2.3 6.1	82.8 5.2 4.8 7.0 4.8 2.2 2.3 6.1
10 11 12 18 14 15 16	Nondurable goods	18.3 4.3 2.0 3.0 .9 1.2 7.0	18.7 4.5 2.0 3.0 .9 1.2 7.1	18.9 4.6 2.0 3.1 .9 1.2 7.1	$18.6 \\ 4.1 \\ 2.0 \\ 3.1 \\ .9 \\ 1.2 \\ 7.2$	18.6 4.1 2.0 3.1 .9 1.3 7.2	18.7 4.2 2.0 3.2 .9 1.2 7.1	18.6 4.1 2.0 3.3 .9 1.3 7.0	18.7 4.0 2.1 3.3 .9 1.3 7.1	$18.7 \\ 4.0 \\ 2.1 \\ 3.3 \\ .9 \\ 1.3 \\ 7.1$	$18.5 \\ 4.0 \\ 2.1 \\ 3.4 \\ .9 \\ 1.3 \\ 6.9$	18.7 4.0 2.1 3.3 .9 1.3 7.1	18.7 4.2 2.2 3.3 .9 1.3 7.0	19.1 4.2 2.2 3.5 .8 1.3 7.1	19.2 4.2 2.3 3.4 .9 1.3 7.2	18.9 4.1 2.2 3.3 .9 1.2 7.1	18.9 4.2 2.2 3.4 .9 1.3 7.0
	WORK-IN-PROCESS																
17	Manufacturing	42.3	41.8	42.9	43.5	44.4	45.2	45.6	46.5	47.1	48.3	49.0	49.6	50.0	50.3	50.4	50.6
18 19 20 21 22 23 24 25	Durable goods Primary metals	35.3 4.6 3.7 8.9 5.2 2.1 6.8 3.9	34.8 4.6 3.7 8.9 5.4 2.2 6.1 3.8	35.7 4.6 3.9 9.0 5.6 2.2 6.4 4.0	$\begin{array}{r} 36.1 \\ 4.6 \\ 4.0 \\ 9.2 \\ 5.7 \\ 2.2 \\ 6.4 \\ 4.1 \end{array}$	37.0 4.5 4.2 9.4 5.9 2.3 6.5 4.2	37.8 4.6 4.2 9.6 6.1 2.3 6.8 4.2	38.2 4.7 4.2 9.8 6.2 2.4 6.7 4.3	39.0 4.8 4.1 10.0 6.3 2.4 7.0 4.4	39.7 4.7 4.2 10.2 6.6 2.4 7.1 4.4	40.6 4.8 4.2 10.4 6.6 2.4 7.7 4.5	41.2 4.9 4.2 10.5 7.0 2.3 7.9 4.4	42.0 4.9 4.2 10.8 7.3 2.1 8.4 4.4	42.3 4.7 4.1 10.9 7.4 2.0 8.6 4.5	42.7 4.9 4.1 11.0 7.5 1.9 8.8 4.6	$\begin{array}{r} 42.9\\ 4.6\\ 4.0\\ 11.0\\ 7.6\\ 2.0\\ 9.1\\ 4.5\end{array}$	43.0 4.7 4.1 10.9 7.7 1.7 9.5 4.5
26 27 28 29 30 31 32	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 .	7.0 1.1 .4 1.3 .7 .5 3.0	7.1 1.1 .4 1.3 .7 .5 3.0	$7.2 \\ 1.1 \\ .4 \\ 1.3 \\ .8 \\ .5 \\ 3.1$	7.3 1.1 .4 1.3 .8 .6 3.1	7.3 1.1 .4 1.3 .8 .6 3.2	7.4 1.1 .4 1.3 .7 .6 3.2	7.4 1.2 .4 1.4 .7 .6 3.2	7.5 1.2 .4 1.4 .7 .6 8.2	7.5 1.2 .4 1.4 .8 .6 3.2	7.6 1.3 .4 1.4 .8 .6 3.2	7.8 1.4 .4 1.5 .8 .6 3.2	7.6 1.3 .4 1.3 .8 .6 3.1	7.7 1.3 .4 1.4 .8 .6 3.1	7.6 1.2 5 1.4 .8 .5 3.1	7.5 1.2 .5 1.4 .8 .5 3.0	7.6 1.2 .5 1.4 .8 .5 3.1
	FINISHED GOODS																
33	Manufacturing		41.7	41.9	42.3	42.6	42.8	43.2	43.4	44.3	44.7	44.3	43.8	44.4	44.9	44.6	44.0
34 35 36 37 38 39 40 41	Durable goods Primary metals Fabricated metals Machinery, except electrical Electrical machinery Motor vehicles O.T.E Other durable goods	22.0 3.3 2.6 5.6 3.1 .9 .9 5.5	$22.1 \\ 3.4 \\ 2.6 \\ 5.6 \\ 3.2 \\ 1.0 \\ .9 \\ 5.5$	22.0 3.4 2.6 5.5 3.1 1.0 .9 5.4	22.2 3.4 2.7 5.6 3.2 1.0 .9 5.4	22.5 3.3 2.6 5.7 8.2 1.0 1.0 5.6	$22.6 \\ 3.4 \\ 2.7 \\ 5.7 \\ 3.4 \\ 1.0 \\ .9 \\ 5.5$	22.7 3.4 2.7 5.8 3.4 .9 .9 5.6	$23.1 \\ 3.3 \\ 2.8 \\ 6.0 \\ 3.3 \\ 1.0 \\ 1.0 \\ 5.7$	23.9 3.3 2.9 6.2 3.4 1.1 1.1 5.8	$24.2 \\ 3.3 \\ 2.9 \\ 6.4 \\ 3.4 \\ 1.2 \\ 1.2 \\ 5.9 \\ $	24.1 3.3 2.9 6.5 3.3 1.1 1.2 5.9	24.0 3.3 2.9 6.3 3.5 1.0 1.2 5.8	24.2 3.3 2.9 6.4 3.6 1.0 1.2 5.8	$24.7 \\ 3.2 \\ 2.9 \\ 6.8 \\ 3.7 \\ 1.0 \\ 1.2 \\ 5.8$	24.6 3.2 2.9 6.8 3.6 .9 1.3 5.8	24.5 3.2 2.9 6.7 3.5 .9 1.4 5.9
42 43 44 45 46 47 48	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	6.2 1.3 3.8 1.6	19.6 6.3 1.8 3.9 1.7 1.6 4.9	$20.0 \\ 6.4 \\ 1.4 \\ 4.0 \\ 1.7 \\ 1.6 \\ 4.9$	$20.1 \\ 6.3 \\ 1.4 \\ 4.1 \\ 1.7 \\ 1.6 \\ 5.0$	$20.2 \\ 6.3 \\ 1.4 \\ 4.2 \\ 1.6 \\ 1.6 \\ 5.0$	$20.2 \\ 6.3 \\ 1.4 \\ 4.1 \\ 1.6 \\ 1.7 \\ 5.2$	$20.5 \\ 6.4 \\ 1.4 \\ 4.2 \\ 1.6 \\ 1.7 \\ 5.3$	20.3 6.4 1.4 4.1 1.6 1.7 5.2	20.4 6.5 1.3 4.0 1.5 1.6 5.3	$20.5 \\ 6.6 \\ 1.4 \\ 4.1 \\ 1.5 \\ 1.6 \\ 5.3$	20.2 6.5 1.3 3.9 1.6 1.7 5.1	19.9 6.4 1.4 3.9 1.6 1.6 5.0	20.2 6.3 1.4 3.9 1.7 1.6 5.1	$20.3 \\ 6.2 \\ 1.4 \\ 4.1 \\ 1.8 \\ 1.6 \\ 5.2$	$20.0 \\ 6.4 \\ 1.4 \\ 3.8 \\ 1.7 \\ 1.6 \\ 5.1$	$19.5 \\ 6.3 \\ 1.4 \\ 3.8 \\ 1.6 \\ 1.5 \\ 5.0$

See footnotes to table 4.

in Constant Dollars, Seasonally Adjusted End of Period

1972 dollars]

	198	31			19	82							19	82		· .				
Ι	п	ш	IV	I	п	ш	IV	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Line
51.6	51.6	52.3	51.9	51.0	50.3	49.5	48.5	51.7	51.6	51.0	51.1	50.6	50.3	50.3	49.9	49.5	49.3	48.8	48.5	1
32.6 5.3 4.8 6.8 4.7 2.3 2.5 6.2	32.7 5.2 4.7 6.9 4.9 2.2 2.6 6.2	83.1 5.3 4.8 7.0 4.9 2.3 2.6 6.3	32.8 5.3 4.7 6.9 4.8 2.2 2.6 6.2	32.1 5.3 4.6 7.0 4.6 1.8 2.7 6.1	31.5 5.2 4.5 6.8 4.5 1.8 2.7 5.9		30.2 4.9 4.3 6.5 4.4 1.8 2.8 5.6	32.6 5.3 4.7 7.1 4.8 1.9 2.7 6.1	32.5 5.3 4.6 7.1 4.7 1.9 2.8 6.1	82.1 5.3 4.6 7.0 4.6 1.8 2.7 6.1	32.0 5.3 4.6 6.9 4.7 1.8 2.7 6.1	31.7 5.3 4.5 6.9 4.5 1.8 2.7 5.9	31.5 5.2 4.5 6.8 4.5 1.8 2.7 5.9	31.5 5.2 4.5 6.8 4.5 1.9 2.8 5.8	31.2 5.1 4.5 6.8 4.4 1.8 2.8 5.8		30.9 5.0 4.5 6.7 4.4 1.7 2.8 5.8	30.5 4.9 4.4 6.6 4.5 1.7 2.8 5.7	30.2 4.9 4.3 6.5 4.4 1.8 2.8 5.6	234 56 789
19.0 4.1 2.3 3.4 .9 1.3 7.1	18.9 4.0 2.3 3.4 .9 1.3 7.1	19.1 4.1 2.3 3.4 .9 1.3 7.3	19.2 3.9 2.3 3.3 .9 1.3 7.4	19.0 4.0 2.3 3.3 .9 1.2 7.3	18.8 4.0 2.2 3.3 .9 1.1 7.3	18.5 4.0 2.2 3.3 .9 1.1 7.1	18.3 3.9 2.3 3.2 .9 1.1 7.0	19.1 4.0 2.2 3.4 .9 1.2 7.4	19.1 4.0 2.3 3.3 .9 1.2 7.4	19.0 4.0 2.3 3.3 .9 1.2 7.3	19.1 4.1 2.3 3.3 .9 1.2 7.4	19.0 4.0 2.2 3.3 .9 1.1 7.4	18.8 4.0 2.2 3.3 .9 1.1 7.3	18.9 4.0 2.2 3.3 .9 1.1 7.3	18.7 4.0 2.2 3.3 .9 1.1 7.3	18.5 4.0 2.2 3.3 .9 1.1 7.1	18.4 4.0 2.2 3.3 .8 1.1 7.0	18.3 3.9 2.2 3.2 .9 1.1 7.0	18.3 3.9 2.3 3.2 .9 1.1 7.0	10 11 12 13 14 15 16
51.1	51.3	51.6	51.0	50.1	49.8	49.1	48.3	50.3	50.1	50.1	49.9	49.8	49.8	49.2	49.2	49.1	48.9	48.4	48.3	17
43.4 5.0 4.0 10.9 7.8 1.6 9.5 4.5	43.6 5.1 4.0 10.8 8.0 1.5 9.8 4.6	44.0 5.3 3.9 11.0 8.0 1.4 9.7 4.6	43.5 5.4 3.9 10.9 7.9 1.2 9.7 4.6	42.8 5.4 3.9 10.4 7.8 1.2 9.6 4.5	$\begin{array}{r} 42.4\\ 5.1\\ 3.8\\ 10.3\\ 7.8\\ 1.3\\ 9.8\\ 4.4\end{array}$	42.0 5.0 3.7 10.0 7.5 1.3 10.2 4.3	41.3 4.7 3.5 9.6 7.5 1.2 10.6 4.3	$\begin{array}{r} 42.9\\ 5.4\\ 3.9\\ 10.5\\ 7.8\\ 1.1\\ 9.6\\ 4.5\end{array}$	42.8 5.4 3.9 10.5 7.8 1.2 9.6 4.5	$\begin{array}{r} 42.8\\ 5.4\\ 3.9\\ 10.4\\ 7.8\\ 1.2\\ 9.6\\ 4.5\end{array}$	42.5 5.2 3.8 10.4 7.6 1.2 9.8 4.5	42.5 5.1 3.8 10.3 7.7 1.2 9.8 4.4	$\begin{array}{r} 42.4\\ 5.1\\ 3.8\\ 10.3\\ 7.8\\ 1.3\\ 9.8\\ 4.4\end{array}$	41.9 5.0 3.7 10.2 7.6 1.2 9.7 4.4	41.9 5.0 3.7 10.1 7.6 1.3 9.9 4.4	42.0 5.0 3.7 10.0 7.5 1.3 10.2 4.3	41.8 5.0 3.6 10.0 7,4 1.2 10.3 4.3	41.4 4.9 3.5 9.8 7.5 1.2 10.3 4.3	41.3 4.7 3.5 9.6 7.5 1.2 10.6 4.3	18 19 20 21 22 23 24 25
7.6 1.3 .5 1.5 .8 .6 3.0	$7.7 \\ 1.2 \\ .5 \\ 1.6 \\ .8 \\ .6 \\ 3.1$	7.6 1.1 .5 1.5 .8 .6 3.1	7.5 1.2 .5 1.4 .8 .6 3.0	$7.3 \\ 1.1 \\ .4 \\ 1.4 \\ .8 \\ .6 \\ 2.9$	7.3 1.0 .5 1.5 .8 .6 2.9	7.2 1.0 .5 1.4 .8 .6 2.9	7.0 1.0 .5 1.3 .8 .6 2.8	7.4 1.2 .5 1.4 .8 .6 3.0	7.3 1.1 .4 1.4 .8 .6 3.0	7.3 1.1 .4 1.4 .8 .6 2.9	7.3 1.1 .4 1.4 .8 .6 3.0	7.3 1.1 .5 1.5 .8 .6 3.0	7.3 1.0 .5 1.5 .8 .6 2.9	7.3 1.0 .5 1.5 .8 .6 2.9	7.3 1.0 .5 1.5 .8 .6 2.9	7.2 1.0 .5 1.4 .8 .6 2.9	7.1 1.0 .5 1.4 .8 .6 2.9	7.0 1.0 .5 1.4 .8 .6 2.9	7. 0 1.0 .5 1.3 .8 .6 2.8	26 27 28 29 30 31 32
44.2	44.6	45.5	45.5	45.3	44.5	44.7	43.5	44.9	45.2	45.3	45.1	44.9	44.5	44.8	44.9	44.7	44.4	43.8	43.5	33
24.4 3.3 2.8 6.8 3.5 .8 1.4 5.9	24.6 3.3 2.9 6.9 3.5 .7 1.4 5.9	25.4 3.5 2.9 7.1 3.6 .7 1.4 6.1	25.5 3.5 2.8 7.4 3.6 .7 1.5 6.0	25.3 3.5 2.8 7.5 3.6 .6 1.5 5.9	25.3 3.3 2.8 7.6 3.5 .6 1.5 5.9	25.3 3.4 2.7 7.6 3.5 .7 1.5 6.0	24.2 3.1 2.5 7.3 3.3 .7 1.5 5.8	$25.1 \\ 3.4 \\ 2.8 \\ 7.3 \\ 3.5 \\ .6 \\ 1.5 \\ 5.9$	25.2 3.5 2.8 7.4 3.5 .6 1.5 5.8	$25.3 \\ 3.5 \\ 2.8 \\ 7.5 \\ 3.6 \\ .6 \\ 1.5 \\ 5.9$	25.3 3.4 2.8 7.6 3.5 .7 1.6 5.8	25.4 3.4 2.8 7.7 3.5 .6 1.5 5.9	25.3 3.3 2.8 7.6 3.5 .6 1.5 5.9	25.4 3.4 2.7 7.7 3.5 .7 1.5 6.0	25.4 3.4 2.8 7.7 3.5 .7 1.5 5.9	25.3 3.4 2.7 7.6 3.5 .7 1.5 6.0	24.9 3.3 2.6 7.5 3.4 .7 1.5 5.9	24.5 3.2 2.6 7.5 3.3 .6 1.4 5.8	24.2 3.1 2.5 7.3 3.3 .7 1.5 5.8	34 35 36 37 38 39 40 41
19.8 6.3 1.4 3.9 1.7 1.5 5.0	$19.9 \\ 6.4 \\ 1.4 \\ 4.0 \\ 1.7 \\ 1.5 \\ 5.0$	$20.1 \\ 6.4 \\ 1.4 \\ 4.0 \\ 1.7 \\ 1.5 \\ 5.0$	20.0 6.2 1.5 4.1 1.6 1.5 5.1	$20.0 \\ 6.0 \\ 1.6 \\ 4.1 \\ 1.7 \\ 1.5 \\ 5.1$	19.3 5.8 1.6 3.9 1.5 1.5 5.0	19.4 6.1 1.6 3.8 1.5 1.4 5.0	$19.3 \\ 6.1 \\ 1.6 \\ 3.8 \\ 1.6 \\ 1.3 \\ 4.9$	$19.8 \\ 6.1 \\ 1.5 \\ 4.0 \\ 1.6 \\ 1.4 \\ 5.1$	$20.0 \\ 6.2 \\ 1.6 \\ 4.1 \\ 1.6 \\ 1.4 \\ 5.1$	$20.0 \\ 6.0 \\ 1.6 \\ 4.1 \\ 1.7 \\ 1.5 \\ 5.1$	19.8 5.9 1.6 4.1 1.6 1.5 5.1	19.5 5.9 1.6 4.0 1.5 1.5 5.1	19.3 5.8 1.6 3.9 1.5 1.5 5.0	19.4 6.0 1.6 3.9 1.5 1.4 5.1	19.4 6.1 1.6 3.8 1.5 1.4 5.0	19.4 6.1 1.6 3.8 1.5 1.4 5.0	19.5 6.1 1.6 3.9 1.6 1.4 5.0	19.3 6.0 1.6 3.8 1.6 1.4 4.9	19.3 6.1 1.6 3.8 1.6 1.3 4.9	42 43 44 45 46 47 48

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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	1980	1981	1981	.					19	82						1983
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.
		GE	NER/	L BU	JSIN	ESS I	NDIC	CATO	RS			 ,		· ·		I
PERSONAL INCOME BY SOURCE †	1. N.															
Seasonally adjusted, at annual rates: † Total personal income bil. \$	2,160.4	2,415.8	2,497.6	2,499.1	2,513.8	2,518.6	2,535.5	2,556.2	2,566.3	2,588.3	2,592.0	2,597.2	72.611.4	r2,631.2	12.638.1	2.638.9
Wage and salary disbursements, total do Commodity-producing industries, total do Manufacturing do Distributive industries	1,356.1 468.0 354.4 330.5	1,493.9 510.8 386.4 361.4	1,530.5 514.0 384.7 367.8	1,535.7 513.5 383.7 369.7	1,546.6 517.1 387.6 373.0	1,542.6 512.2 384.1 371.4	1,546.6 511.6 383.9 372.5	1,560.4 515.1 386.4 376.9	1,562.9 514.1 386.7 376.8	1,569.5 513.0 385.8 378.1	1,570.3 510.3 384.0 378.9	1,570.1 507.3 381.5 378.2	1,571.5 503.0 377.2 378.3	r1,572.2 500.9 r375.5 r377.6	1,579.2 500.6 374.8 380.0	1,595.7 507.8 378.6 383.4
Service industries do Govt. and govt. enterprises do Other labor income do Proprietors' income: ‡	297.4 260.2 127.2 19.4	338.6 283.1 140.4	355.0 293.6 146.9 22.8	357.0 295.4 148.0	360.1 296.4 149.1 17.3	361.4 297.6 150.2	363.7 298.8 151.3	368.5 300.0 152.5	370.7 301.2 153.6	374.3 304.2 154.6	378.2 302.8 155.5	381.0 303.6 156.5	382.7 307.5 157.2	'384.5 309.2 157.9	r387.7 r310.8 158.7 r28.0	392.6 311.8 159.5
Farm do Nonfarm do	19.4 96.9	24.0 100.7	22.8 99.5	19.9 98.6	17.3 98.4	16.3 98.8	16.9 99.3	17.3 100.3	18.0 100.2	17.3 100.9	16.6 101.7	16.0 102.5	'17.1 104.2	'28.1 '105.3	105.3	19.0 105.4
Rental income of persons with capital consumption adjustment bil. \$. Dividends do Personal interest income do Transfer payments do Less: Personal contrib. for social insur. do Total nonfarm income do	32.9 55.9 263.4 297.2 88.7 2,117.3	33.9 62.5 329.0 336.3 104.9 2,364.1	33.6 65.4 352.1 353.6 106.8 2,444.6	33.7 65.6 355.5 352.4 110.3 2,448.6	33.9 65.9 359.8 353.8 110.9 2,465.5	34.0 65.9 363.8 357.5 110.6 2,470.8	34.1 66.1 368.0 363.9 110.8 2,486.8	34.2 66.2 372.0 364.8 111.6 2,506.9	34.3 66.1 376.0 366.9 111.7 2,516.0	34.5 66.6 377.6 379.7 112.4 2,538.5	34.6 67.3 378.3 380.2 112.5 2,542.8	34.7 67.7 378.8 383.3 112.4 2,548.5	34.8 68.4 378.0 392.7 112.4 2,561.5	34.4 68.9 377.2 ¹ 399.4 112.4 2,570.1	32.5 69.3 376.4 ^r 401.4 ^r 112.7 ^r 2,576.9	35.2 69.7 375.6 395.1 116.4 2,586.6
DISPOSITION OF PERSONAL INCOME *																
Seasonally adjusted, at annual rates: Total personal income bil. \$ Less: Personal tax and nontax payments do Equals: Disposable personal income do Personal consumption expenditures do Durable goods do Nondurable goods do Services do	$\begin{array}{r} 2,160.4\\ 336.3\\ 1,824.1\\ 1,717.9\\ 1,667.2\\ 214.3\\ 670.4\\ 782.5\end{array}$	2,415.8 386.7 2,029.1 1,898.9 1,843.2 234.6 734.5 874.1	2,497.6 394.7 2,103.0 1,954.7 1,896.4 230.1 751.0 915.3	2,499.1 389.9 2,109.2 1,965.8 1,907.4 234.7 746.0 926.7	2,513.8 396.3 2,117.5 1,986.9 1,928.3 240.1 755.9 932.3	2,518.6 394.2 2,124.4 1,981.1 1,922.4 238.8 745.4 938.2	2,535.5 389.1 2,146.3 1,993.9 1,934.8 238.8 747.0 949.1	2,556.2 403.7 2,152.5 2,013.1 1,954.0 245.6 759.2 949.1	2,566.3 410.7 2,155.6 2,014.4 1,954.7 237.8 758.9 958.0	2,588.3 393.5 2,194.8 2,033.8 1,974.1 236.8 767.9 969.4	2,592.0 395.3 2,196.7 2,041.3 1,981.5 236.6 767.7 977.3	2,597.2 394.6 2,202.7 2,063.1 2,003.2 247.6 769.5 986.0	r2,611.4 r397.5 r2,213.9 2,077.2 2,017.3 240.7 777.2 999.4	r2,631.2 r399.0 r2,232.2 r2,098.2 r2,038.2 r2,038.2 r2,038.2 r2,038.2 r2,038.2 r2,038.2 r2,038.2 r2,038.2 r2,038.2 r2,031.2 r2,631.2 r2,631.2 r2,99.0 r2,99.0 r2,232.2 r2,098.2 r2,008.	^r 2,638.1 ^r 402.7 ^r 2,235.4 ^r 2,099.4 ^r 2,038.9 ^r 257.2 ^r 775.0 ^r 1,006.8	2,638.9 403.4 2,235.5 2,099.4 2,038.6 253.7 775.3 1,009.6
Interest paid by consumers to business do	49.9	55.1	57.6	57.7	57.7	57.9	58.2	58.3	58.8	58.9	58. 9	59.1	59.0	، 59.2	⁷ 59.6	59.9
Personal transfer payments to foreigners (net) do	0.8	0.6	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.9
Equals: personal saving do Personal saving as percentage of disposable personal income §	106.2 5.8	130.2 6.4	148.3 7.2	143.4 6.7	130.6 6.6	143.3 6.7	152.4 6.8	139.4 6.7	141.2 6.8	161 .0 7.0	155.4 6.9	139.5 6.5	r136.7 r6.2	'133.9 '6.1	^{136.0 r}	136.1
Disposable personal income in constant (1972)	1,018.0	1,043.1	1,048.6	1,042.9	1.047.7	1,050.0	1,057.6	1,058.1	1,048.8	1.060.8	1,058.0	1.056.1	*1,054.4	1,062.4	1,065.3	
dollars bil. \$ Personal consumption expenditures in constant (1972) dollars do Durable goods do Nondurable goods do Services do Implicit price deflator for personal consumption	930.5 137.1 355.8 437.6	947.7 140.0 362.4 445.2	945.6 133.9 365.1 446.7	943.1 135.4 359.5 448.2	954.1 139.0 365.5 449.6	950.1 138.0 361.4 450.7	953.4 137.7 362.7 453.0	960.5 141.5 367.8 451.2	951.0 135.8 362.9 452.3	954.1 134.9 366.1 453.2	954.4 134.5 366.0 453.9	960.4 140.0 365.5 454.9	960.8 136.3 367.4 *457.0	^{1970.1} 145.5 1366.4 1458.2	971.7 146.1 368.8 456.8	
expendituresindex, 1972=100	179.2	194.5	200.5	202.2	202.1	202.3	202.9	203.4	205.5	206.9	207.6	208.6	210.0	210.1	209.8	
INDUSTRIAL PRODUCTION Federal Reserve Board Index of Quantity Output														н 		
Not Seasonally Adjusted	· · · ·														4.5 	
Total index 1967=100	147.0	151.0	139.1	136.6	142.7	142.0	139.4	138.5	141.8	136.2	140.5	141.2	r138.5	'134.8	₽131.2	°132.1
By industry groupings: Mining and utilities do	149.5	155.0	155.2	164.3	159.7	152.7	146.7	142.4	143.9	144.6	146.8	140.1	136.7	136.7	P142.0	°147.2
Manufacturing	146.7 161.2 136.7	150.4 164.8 140.5	137.0 149.4 128.4	133.1 147.1 123.4	140,7 156.6 129.7	140.7 156.6 129.7	138.4 154.7 127.1	138.0 154.5 126.6	141.6 159.9 128.9	135.1 152.9 122.7	139.3 161.9 123.7	141.2 164.1 125.4	r138.8 r162.4 r122.5	134.5 *155.5 *119.9	°129.4 °147.7 °116.9	°130.2 °148.5 °117.4
Seasonally Adjusted	ĺ					· · · · · ·		1. · · ·								
Total index do	147.0	151.0	143.4	140.7	142.9	141.7	140.2	139.2	138.7	138.8	138.4	137.3	r135.7	134.8	₽135.0	°136.2
By market groupings: Products, total Final productsdo Consumer goodsdo	146.7 145.3 145.4	150.6 149.5 147.9	146.2 146.3 142.0	142.9 142.8 139.6	144.6 144.1 141.8	143.7 143.3 141.5	142.9 142.6 142.1	142.3 142.2 143.6	142.1 142.1 144.8	142.6 142.5 145.8	142.0 141.2 144.1	140.8 140.0 143.4	7139.3 7138.7 142.2	*139.0 *138.2 141.1	°139.8 °139.2 °142.0	°140.6 °140.0 °143.3

See footnotes at end of tables.

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SURVEY OF CURRENT BUSINESS

February	1983
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Unless otherwise stated in footnotes below, data	1980	1981	1981						198	32						1983
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.
	GEN	NERA	LBU	SINE	SS IN	DICA	ATOR	s—c	ontin	ued						
INDUSTRIAL PRODUCTION—Continued					1							·				
Seasonally Adjusted—Continued																
By market groupings—Continued Final products—Continued												`				
Durable consumer goods	$136.7 \\ 132.8$	$140.5 \\ 137.9$	$123.2 \\ 119.2$	$120.1 \\ 109.2$	$125.9 \\ 117.5$	$128.1 \\ 125.0$	130.7 129.9	132.6 138.9	134.6 143.0	137.3 149.7	$132.9 \\ 135.5$	$131.3 \\ 135.5$	r126.5 r123.6	124.4 120.7	₽126.6 ₽129.3	*130 *135
Autos and utility vehicles	110.1 103.6	111.2 103.4	87.5 78.1	71.6	82.0 70.5	93.6 79.8	100.5 87.2	111.8 96.1	117.1 101.9	127.7 114.6	107.1 93.3	105.8 94.3	89.6 79.5	86.9 77.7	₽99.0 ₽87.9	°106 °97
Home goods do	138.9	142.0	125.4	126.3	130.6	129.9	131.1	129.1	129.9	130.4	131.4	128.9	r128.1	'126.5	₽125.1	•127
Nondurable consumer goods do	148.9 126.0	150.9 119.8	149.5	147.4	148.1	146.8	146.6	147.9	148.8	149.1	148.6	148.2	°148.5	*14 7.7	₽148.2	°148
Clothing do Consumer staples do Consumer foods and tabaata	120.0 155.2 147.4	159.5	113.8 159.4 150.9	158.9 150.0	159.2 151.1	158.1 149.6	158.3 148.1	159.0 149.9	159.9 150.9	159.7 149.9	159.4 149.6	158.8 148.6	r159.1 r150.2	158.0 149.0	₽158.5 ₽150.0	°158
Consumer foods and tobacco do Nonfood staples	164.3	$150.3 \\ 170.0$	169.3	169.1	168.7	168.0	148.1	149.5	170.4	145.5 171.2	149.0	140.0	r169.5	145.0	₽168.4	°168
Equipment do Business equipment do	$145.2 \\ 173.2$	$151.8 \\ 181.1$	$\begin{array}{c} 152.1 \\ 179.0 \end{array}$	$147.2 \\ 172.2$	$147.3 \\ 171.6$	145.9 169.0	143.4 164.9	$140.4 \\ 159.9$	$138.4 \\ 156.7$	$138.0 \\ 154.9$	$137.3 \\ 153.9$	$135.2 \\ 150.5$	י134.0 י147.1	134.3 146.6	₽135.2 ₽147.5	°135 °147
Industrial equipment # do Building and mining equip do	156.5 239.9	$166.4 \\ 286.2$	$164.0 \\ 294.6$	$158.1 \\ 289.0$	$155.9 \\ 274.9$	$151.2 \\ 256.9$	$145.9 \\ 242.2$	$138.9 \\ 224.4$	$134.0 \\ 209.0$	$131.3 \\ 200.4$	$128.4 \\ 190.8$	$123.8 \\ 182.1$	r118.3 r169.3	r117.4 r166.8	₽117.7 ₽173.3	°118 °173
Manufacturing equipment do	128.2	127.9	122.0	116.9	116.8	116.3	114.0	109.7	107.5	106.0	104.4	101.6	98.0	'97.5	₽96.0	°96
Commercial, transit, farm eq. # do Commercial equipment do	192.4 237.8	198.0 258.7	$196.3 \\ 262.9$	$ \begin{array}{r} 188.5 \\ 256.1 \end{array} $	$189.9 \\ 256.4$	$189.5 \\ 257.8$	$186.9 \\ 253.1$	$184.1 \\ 247.7$	$183.0 \\ 247.5$	$\begin{array}{c} 182.2 \\ 248.8 \end{array}$	$ \begin{array}{r} 183.3 \\ 253.5 \end{array} $	$181.4 \\ 254.0$	r180.5 r253.5	'180.2 '254.8	₽181.9 ₽256.5	*181 *257
Transit equipment do	139.9 98.2	125.4 102.7	117.5 107.0	109.0 105.2	$110.4 \\ 106.5$	110.5 107.0	110.9 107.2	110.9 107.7	108.3 107.6	106.3 109.5	102.0 109.5	95.5 109.5	93.2 '111.9	'92.3 113.6	₽95.3 ₽114.6	°93 °115
Defense and space equipment do Intermediate products	151.9 140.9	154.4 141.9	145.9 127.0	143.4 124.2	146.3 127.5	145.2 125.6	143.7 123.6	142.6 122.2	141.9 123.1	105.5 142.8 124.1	103.3 144.7 127.1	143.7 125.5	111.6 141.6 122.5	141.9 123.4	P142.0 P123.1	°143 °124
Construction supplies do Business supplies do	140.5	141.5 166.7	164.6	162.4	165.1	164.6	163.7	162.8	160.6	161.4	162.1	161.8	r160.5	120.4 160.2	P160.7	
Materials do Durable goods materials do	$147.6 \\ 143.0$	151.6 149.1	139.0 134.0	$137.2 \\ 129.7$	$140.4 \\ 132.4$	$138.5 \\ 130.7$	$136.2 \\ 128.1$	$134.3 \\ 126.6$	$133.5 \\ 126.6$	133.0 126.0	$132.8 \\ 125.1$	132.0 123.0	'130.0 '118.5	^{128.5} 116.4	₽127.7 ₽115.4	*129 *117
Nondurable goods materials do Energy materials do	$171.5 \\ 129.3$	174.6 129.0	$158.3 \\ 127.4$	156.8 130.9	$164.2 \\ 130.3$	162.0 128.2	$160.3 \\ 125.8$	$156.6 \\ 125.4$	$153.5 \\ 125.4$	$152.3 \\ 126.0$	$154.5 \\ 124.5$	$158.5 \\ 121.0$	158.2° 122.6	^{157.3} 121.6	P156.5 P121.8	°157 °122
By industry groupings:																
Mining and utilities do Mining	149.5 132.7	$155.0 \\ 142.2$	$154.7 \\ 142.6$	$157.4 \\ 144.5$	$155.6 \\ 142.4$	$153.1 \\ 138.1$	$151.6 \\ 134.1$	148.8 128.9	$145.2 \\ 123.5$	$142.6 \\ 120.1$	$141.3 \\ 116.9$	$139.7 \\ 114.7$	'140.4 '115.9	140.5 116.6	P141.1 P118.9	°141 °120
Metāl mining do Coal do	109.2 146.7	$123.1 \\ 141.3$	$110.9 \\ 145.5$	121.3 147.9	$120.8 \\ 156.0$	109.9 155.6	$108.8 \\ 146.2$	90.0 149.2	$\begin{array}{c} 71.8\\144.4\end{array}$	$\begin{array}{c} 58.1 \\ 140.3 \end{array}$	53.4 135.8	55.4 127.9	*63.1 143.2	70.4 134.1	73.9° 129.7°	°138
Oil and gas extraction # do Crude oil do	133.3 94.9	$ \begin{array}{r} 146.8 \\ 95.1 \end{array} $	150.5 94.5	151.5 96.2	146.6 94.7	141.4 94.2	137.7 95.9	132.7 95.2	$129.1 \\ 95.7$	$127.0 \\ 95.7$	123.3 95.0	121.0 94.9	'119.1 '93.9	'120.0 93.8	₽123.2 ₽94.2	°123
Natural gas do Stone and earth minerals do	$111.1 \\ 132.8$	$111.8 \\ 129.4$	$110.5 \\ 115.7$	111.3 115.8	$108.8 \\ 120.5$	$107.8 \\ 121.6$	107.2 119.6	$102.8 \\ 114.6$	$102.3 \\ 106.6$	$102.8 \\ 103.8$	99.5 105.7	101.3 106.3	$104.2 \\ 108.5$	 111.9	P114.4	
Utilities do	168.3	169.1 190.9	168.2 190.2	171.8 195.2	170.4 192.5	170.0 191.7	171.0 193.1	170.9 193.4	169.4 191.6	$167.7 \\ 189.2$	168.5 189.9	$167.5 \\ 188.2$	167.8 r188.4	167.3 188.2	₽165.9 ₽186.9	°164 °184
Electric do Manufacturing do	189.7 146.7	150.5	190.2	138.5	192.5	191.7	138.7	137.9	131.0	138.1	138.0	137.1	135.0	134.0	P134.2	*135
Nondurable manufactures do Foods	161.2 149.6	164.8 152.1	157.4 152.8	$155.1 \\ 151.1$	$157.8 \\ 151.7$	157.3 150.8	$156.1 \\ 149.7$	$155.0 \\ 150.5$	$155.3 \\ 151.0$	$155.7 \\ 151.0$	$156.9 \\ 150.7$	156.7 149.0	r156.2 r151.5	155.2 151.9	₽155.5	°156
Tobacco products do	119.9	122.2	112.6	112.7	126.7	126.7	116.1	118.6	123.6	121.4	120.6	113.3	r110.6	113.0		
Textile mill products do Apparel products do	$138.6 \\ 127.0$	$135.7 \\ 120.4$	$122.8 \\ 114.1$	120.0	125.8	126.0	126.3	123.5	123.7	124.3	125.9	126.1	^{125.9}	'123.1	₽122.0	
Paper and products do Printing and publishing do	151.1 139.6	155.0 144.2	146.6 145.3	148.3 145.6	151.5 146.4	150.6 145.9	149.8 144.2	146.5 143.8	146.8 142.6	147.0 143.9	152.5 145.3	154.3 144.3	155.0 142.0	r154.3 r141.8	P151.6 P144.0	°150 °148
Chemicals and products do	207.1 132.9	215.6 129.7	145.5 199.8 128.3	196.7 123.3	201.3 119.5	200.3 121.3	198.6 120.8	193.6 122.2	193.2 124.3	194.1 124.7	195.6 121.4	196.4 122.6	142.0 194.1 123.8	*193.0 *120.0	P195.6 P118.7	*11
Petroleum products	255.7	274.0	247.3	244.7	251.8	253.4	255.1 60.6	257.0	258.9 62.3	256.8 62.9	261.1 60.8	262.0 60.9	^{125.8} ^{1256.3} 59.5	*250.2 *57.7	P248.2 P55.7	
Leather and products do Durable manufactures do	70.1 136.7	69.3 140.5	65.6 131.3	63.1 127.1	64.0 129.3	128.2	126.7	61.1 126.1	125.5	125.9	124.9	123.5	120.3°	119.3	P119.4	•120
Ordnance, pvt. and govt do Lumber and products do	78.5 119.3	81.1 119.1	85.5 104.8	84.1 99.2	83.8 104.9	83.8 103.5	85.2 106.2	86.3 110.6	86.5 112.2	87.1 116.9	86.5 120.3	86.9 119.9	89.5 117.2	91.9 ^ء 119.1	₽92.0 ₽120.5	
Furniture and fixtures do	150.0	157.2	149.4	144.3	148.4	150.2	151.8	151.1	152.5	154.5	156.7	155.7	154.3	152.4	P152.7	
Clay, glass, and stone products do Primary metals	147.5	147.9 107.9	131.5 89.6	128.5 89.7	135.0 88.5	131.5 83.0	127.0 76.4	125.0 75.2	126.1 72.8	126.9 72.9	128.8 72.9	130.4 73.2	128.1	*127.3 *63.6	P127.8 P62.7	*64
Iron and steel	92.4 119.8	99.8 122.4	79.2 108.0	79.6 108.9	78.5 106.7	73.0 100.7	65.1 95.9	62.4 97.0	58.0 98.9	58.1 102.9	57.4 100.3	56.4	54.1 95.5	r47.5 r92.2	P46.7	
Fabricated metal products	134.1 162.8	136.4 171.2	126.1 167.4	120.7 160.9	121.4 160.0	121.1 157.3	$119.1 \\ 153.7 \\ 170.9$	115.8 150.0	115.0 147.4	115.5 147.1	114.3 147.2	112.3 144.9	107.6 140.4	*107.0 *139.6	P106.6	°10 °13 °13
Electrical machinery do Transportation equipment do	172.8 116.9	178.4 116.1	170.7 103.7	168.2 96.6	172.9 102.0	172.6 104.4	172.2 105.9	170.9 110.0	170.8 111.6	170.3 112.7	169.7 107.0	167.0 105.3	'165.4 100.8	*165.4 *100.2	P164.0 P103.6	°16 °10
Motor vehicles and parts do Instruments do	119.0 171.1	122.3 170.3	100.4 166.8	90.4 162.2	98.6 164.5	105.6 163.0	$110.7 \\ 162.8$	119.8 163.8	124.0 164.8	$127.2 \\ 165.2$	116.7 165.5	113.5 161.9	103.0 157.4	101.7 155.8	P108.5 P157.2	°11 °15
BUSINESS SALES																
Mfg. and trade sales (unadj.), total ‡ mil. \$	3,858,053	4,207,460	359,752					347,636	356,134	329,795	336,983	· ·	340,220	™338,448	352,033	
Mfg. and trade sales (seas. adj.), total ‡ do	13,858,053		341,330	334,579	340,571	342,121	339,835	349,096	346,126		339,464	l '	332,537	*335,804	332,713	
Manufacturing, total † do Durable goods industries	1,850,983 930,482	1,001,001	159,614 79,133	155,023 75,551	158,142	157,517	156,114 77,136	160,828 79,518	161,519 78,888	161,382 79,036	158,619 77,248	159,278 76,562	72,342	*152,343 *72,708	151,421 72,664	
Nondurable goods industries do Retail trade, total § do	920,501 1951,902	993,597 1,038,790	80,481 86,572	79,472 85,320	80,167 87,418	79,394 87,242	78,978 88,294	81,310 90,841	82,631 88,042	82,346 89,445	81,371 88,502	82,716 89,326	80,131 90,290	"79,635 "92,546	78,757 91,482	
Durable goods stores	296,594 655,308	326,596	26,206 60,366	25,316 60,004	26,696 60,722	26,958	27,984 60,310	29,416 61,425	27,175 60,867	27,403	26,668 61,834	27,498 61,828	27,849	130,175 162,371	29,276 62,206	
Merchant wholesalers, total @ do	11,055,168		95,144	94,236	95,010	97,361	95,427	97,427	96,565	62,042 93,776	92,343		62,441 89,774	*62,371 *90,915	89,810	
Durable goods establishments	448,040 607,128	499,970 674,102	41,053 54,091	40,416 53,820	39,932 55,078	39,408	38,707 56,720	38,407 59,020	37,950 58,615	38,033 55,743	37,121 55,222	37,449	37,797 51,977	r38,577 r52,338	37,968 51,842	
Mfg. and trade sales in constant (1972) dollars																
(seas. adj.), total * bil. \$ Manufacturing * do			152.4 69.4	*152.1 *68.4	*155.2 *70.2	'155.4 '70.1	*153.5 *69.1	*157.3 *70.8	'155.5 '70.8	*155.0 *70.6	*153.3 *69.5	*153.5 *69.6	r149.7 r66.4	*151.8 *66.6	66.5	
Retail trade * do do do			45.0 38.0	r45.0 r38.7	r46.1 39.0	^r 45.7 r39.6	46.0 r38.5	*47.1 *39.5	r45.5 r39.1	*45.9 *38.5	*45.6 *38.2	*46.2 *37.8		*47.3 *37.9	47.2	

SURVEY OF CURRENT BUSINESS

February 1983	•			I OF	COR	ICTUIAI	DUC	DINEC	00							9-9
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1980	1981	1981						19	82						1983
in the 1979 edition of BUSINESS STATISTICS	Anı	nual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	GE	NERA	L BU	SINE	ss in	DIC	АТОВ	RS-C	Contir	nued						
BUSINESS INVENTORIES																
Mfg. and trade inventories, book value, end of year or month (unadj.), total ‡ mil. \$	477,287	513,530	513,530	513,516	513,844	517,710	512,689	513,132	512,799	511,302	509,661	511,150	516,744	r514,563	499,657	
Mfg. and trade inventories, book value, end of year or month (seas. adj.), total ± mil. \$	482,570	519,394	519,394	516,256	513,906	513,054	515,074	510,517	512,981	513,387	514,554	515,399	514,224	*508,630	505,579	
Manufacturing, total †do Durable goods industriesdo Nondurable goods industriesdo	264,016 174,674 89,341	283,152 188,429 94,723	283,152 188,429 94,723	281,155 187,054 94,100	$281,688 \\ 187,121 \\ 94,567$	280,065 186,063 94,002	278,985 185,916 93,070	276,449 184,870 91,579	275,115 184,289 90,826	183,798	274,302 183,550 90,752	272,474 182,793 89,681	271,710 181,843 89,867	^r 269,297 ^r 179,324 ^r 89,973	266,688 177,683 89,005	
Retail trade, total §do Durable goods storesdo Nondurable goods storesdo	$114,114 \\ 53,747 \\ 60,367$	125,693 58,835 66,858	$125,693 \\ 58,835 \\ 66,858$	$124,131 \\ 57,807 \\ 66,324$	$123,395 \\ 56,957 \\ 66,438$	123,332 56,803 66,529	$123,175\ 56,663\ 66,512$	122,367 55,984 66,383	$124,351 \\ 57,346 \\ 67,005$	125,939 58,246 66,693	$127,151 \\ 60,075 \\ 67,076$	$129,073 \\ 61,628 \\ 67,445$	128,628 60,708 67,920	126,638 59,059 67,579	126,848 59,058 67,790	
Merchant wholesalers, total @do Durable goods establishmentsdo Nondurable goods establishmentsdo	104,441 67,033 37,408	110,549 73,224 37,325	110,549 73,224 37,325	110,971 73,036 37,935	108,823 72,003 36,820	109,657 72,782 36,875	112,913 74,668 38,245	111,701 72,858 38,843	113,515 73,908 39,607	113,534 75,241 38,293	$113,101 \\ 74,956 \\ 38,145$	113,852 75,799 38,053	113,886 75,953 37,933	'112,695 '74,784 '37,911	112,043 74,039 38,004	
Mfg. and trade inventories in constant(1972)dollars, end of year or month(seas.adj.),total* bil. \$ Manufacturing * do do Retail trade * Merchant wholesalers * do			269.9 148.4 66.1 55.3	267.7 146.9 65.4 55.4	266.5 146.9 65.0 54.5	$266.0 \\ 146.4 \\ 65.1 \\ 54.5$	$266.5 \\ 146.0 \\ 65.2 \\ 55.4$	$264.5 \\ 145.3 \\ 64.7 \\ 54.5$	265.2 144.6 65.4 55.2	$265.6 \\ 144.4 \\ 65.5 \\ 55.6$	$265.5 \\ 144.0 \\ 66.4 \\ 55.0$	266.0 143.3 67.2 55.5	r265.2 r142.6 66.9 55.8	r262.3 r141.0 65.9 55.3	261.4 140.3 65.9 55.2	
BUSINESS INVENTORY-SALES RATIOS Manufacturing and trade, total ‡ ratio	1.45															
Manufacturing and trade, total + ratio. Manufacturing, total +	1.45 1.66 2.18 0.70 0.95 0.53	1.44 1.66 2.19 0.69 0.97 0.53	$1.52 \\ 1.77 \\ 2.38 \\ 0.74 \\ 1.05 \\ 0.60$	1.54 1.81 2.48 0.77 1.09 0.62	1.50 1.78 2.40 0.74 1.05 0.60	$1.50 \\ 1.78 \\ 2.38 \\ 0.73 \\ 1.05 \\ 0.61$	1.52 1.79 2.41 0.74 1.06 0.61	1.46 1.72 2.32 0.71 1.02 0.60	1.48 1.70 2.34 0.71 1.03 0.60	1.49 1.70 2.33 0.71 1.01 0.60	1.52 1.73 2.38 0.71 1.04 0.62	1.52 1.71 2.39 0.71 1.05 0.62	$1.55 \\ 1.78 \\ 2.51 \\ 0.75 \\ 1.11 \\ 0.66$	1.51 *1.77 2.47 0.74 1.10 *0.63	1.52 1.76 2.45 0.73 1.09	·····
Nondurable goods industries do Materials and supplies do Work in process do Finished goods do	1.13 0.45 0.19 0.48	1.13 0.45 0.19 0.48	1.18 0.47 0.20 0.50	1.18 0.48 0.20 0.51	1.18 0.47 0.20 0.51	1.18 0.47 0.20 0.52	1.18 0.47 0.20 0.51	1.13 0.46 0.19 0.48	1.10 0.44 0.19 0.47	1.11 0.45 0.19 0.47	1.12 0.45 0.19 0.48	1.08 0.43 0.18 0.47	1.12 0.44 0.19 0.49	r1.13 0.45 r0.19 0.49	0.62 1.13 0.45 0.19 0.49	
Retail trade, total §do Durable goods storesdo Nondurable goods storesdo	$1.41 \\ 2.14 \\ 1.08$	1.39 2.08 1.07	$1.45 \\ 2.25 \\ 1.11$	$1.45 \\ 2.28 \\ 1.11$	1.41 2.13 1.09	$1.41 \\ 2.11 \\ 1.10$	$1.40 \\ 2.02 \\ 1.10$	$1.35 \\ 1.90 \\ 1.08$	$1.41 \\ 2.11 \\ 1.10$	$1.40 \\ 2.13 \\ 1.07$	$1.44 \\ 2.25 \\ 1.08$	1.44 2.24 1.09	1.42 2.18 1.09	1.37 1.96 1.08	1.39 2.02 1.09	
Merchant wholesalers, total @do Durable goods establishmentsdo Nondurable goods establishmentsdo	1.13 1.70 0.70	1.09 1.67 0.66	1.16 1.78 0.69	$1.18 \\ 1.81 \\ 0.70$	1.15 1.80 0.67	$1.13 \\ 1.85 \\ 0.64$	$1.18 \\ 1.93 \\ 0.67$	$1.15 \\ 1.90 \\ 0.66$	$1.18 \\ 1.95 \\ 0.68$	$1.21 \\ 1.98 \\ 0.69$	1.22 2.02 0.69	$1.25 \\ 2.02 \\ 0.71$	$1.27 \\ 2.01 \\ 0.73$	1.24 *1.94 0.72	· 1.25 1.95 0.73	
Manufacturing and trade in constant (1972) dollars, total *do Manufacturing *do Retail trade *do Merchant wholesalers *do			1.77 2.14 1.47 1.46	^{11.76} 2.15 1.45 1.43	*1.72 *2.09 *1.41 *1.40	"1.71 "2.09 "1.42 "1.38	*1.74 *2.11 *1.42 *1.44	r1.68 r2.05 r1.37 r1.38	*1.71 *2.04 *1.44 *1.41	r1.71 r2.05 r1.43 r1.44	r1.73 r2.07 r1.46	r1.73 r2.06 r1.46 r1.47	r1.77 r2.15 r1.45 r1.50	'1.73 '2.12 '1.39	$1.73 \\ 2.11 \\ 1.40 \\ 1.47$	
MANUFACTURERS' SALES, INVENTORIES,			1.40	1.40	1.40	1.56	1.44	1.50	1.41	1.44	r1.44	-1.47	.1.50	*1.46	1,47	••••
AND ORDERS Shipments (not seas. adj.), total † do	1 850 983	1,994,600	155,117	144,431	160,220	165,832	158,058	161,541	169,159	147,553	155,187	165,584	157,882	r151,967	147,100	
Durable goods industries, total do Stone, clay, and glass products. do Primary metals. do Blast furnaces, steel mills do Fabricated metal products. do Machinery, except electrical do Electrical machinery do Transportation equipment do Motor vehicles and parts do Instruments and related products do	930,482 46,083 133,930 61,486 116,194 180,727 128,587 186,282 104,560 44,139	$\begin{array}{c} 1,001,001\\ 49,141\\ 136,847\\ 69,195\\ 123,282\\ 203,737\\ 137,873\\ 203,000\\ 114,882\\ 47,530\\ \end{array}$	76,863 3,404 9,000 4,663 8,812 17,692 11,125 15,645 7,353 4,054	68,605 3,238 9,634 4,837 8,360 14,455 10,410 12,640 6,979 3,379	78,829 3,543 10,046 5,051 9,528 16,964 11,689 15,524 8,521 3,832	$\begin{array}{c} 83,776\\ 3,871\\ 9,742\\ 4,813\\ 10,319\\ 18,032\\ 12,094\\ 17,362\\ 9,905\\ 4,171\end{array}$	79,101 3,801 9,507 4,440 9,978 15,602 11,622 16,889 10,297 3,758	80,485 3,923 8,951 3,974 10,244 15,810 11,716 18,004 10,682 3,936	84,307 4,166 8,981 4,120 10,531 16,815 12,354 18,983 11,361 4,285	70,361 3,708 7,481 3,291 9,126 13,619 10,654 14,767 8,412 3,519	73,374 3,957 7,951 3,413 9,746 13,925 11,131 14,616 8,483 3,873	79,908 4,107 8,310 3,554 9,876 15,845 12,076 16,825 9,799 4,316	75,845 4,021 7,797 3,077 9,391 14,204 11,708 16,183 9,223 3,895	r72,301 r3,685 r7,041 2,942 r8,928 r4,015 r11,281 r15,548 r8,535 r3,853	70,586 3,346 7,070 3,009 8,366 14,970 11,048 14,953 7,459	
Nondurable goods industries, total do Food and kindred products do Tobacco products do Textile mill products do	$920,501 \\ 255,872 \\ 11,893 \\ 47,397$	993,597 269,130 13,000 52,274	$78,255 \\ 21,562 \\ 1,162 \\ 3,837$	75,826 20,580 1,083 3,553	81,391 22,814 1,069 4,135	$82,055 \\ 23,140 \\ 1,061 \\ 4,625$	78,957 21,813 1,153 4,070	$81,056 \\ 22,721 \\ 1,140 \\ 4,209$	84,852 23,812 1,388 4,547	$77,192 \\ 21,657 \\ 1,024 \\ 3,412$	$81,813 \\ 22,335 \\ 1,279 \\ 4,259$	85,676 24,298 1,492 4,469	$82,037 \\ 23,207 \\ 1,260 \\ 4,292$	79,666 22,830 1,103 4,035	$22,158 \\ 1,343$	
Paper and allied products do Chemical and allied products do Petroleum and coal products. do Rubber and plastics products do	72,650 161,559 198,673 47,342	79,489 175,131 220,333 46,504	6,139 13,581 18,067 3,319	6,416 13,360 17,298 3,375	$6,782 \\ 14,369 \\ 16,547 \\ 3,669 \end{cases}$	6,915 15,176 15,533 3,607	$\begin{array}{r} 6,538 \\ 14,542 \\ 16,194 \\ 3,648 \end{array}$	$6,447 \\ 14,629 \\ 17,287 \\ 3,592$	6,727 15,360 17,770 3,898	6,080 12,960 17,341 3,469	6,721 13,977 17,006 3,682	6,684 14,840 17,443 3,778	$6,598 \\ 13,164 \\ 17,098 \\ 3,699$	r6,278 r13,163 r16,429 r3,264	15,926	
Shipments (seas. adj.), total † do By industry group:			159,614	155,023	158,142	157,517	156,114	160,828	161,519	161,382	158,619	159,278	152,473	*152,343	151,421	
Durable goods industries, total # do Stone, clay, and glass products do Primary metals	·····	·····	79,133 3,808 9,626 4,892	75,551 3,884 10,028 5,009	77,976 3,795 9,572 4,812	78,124 3,821 8,829 4,254	77,136 3,728 8,953 4,156	79,518 3,863 8,682 3,904	78,888 3,834 8,598 3,989	79,036 3,764 8,443 3,685	77,248 3,730 8,383 3,654	76,562 3,800 8,250 3,597	72,342 3,720 7,689 3,065	^r 72,708 ^r 3,709 ^r 7,315 3,061	$3,741 \\ 7,585$	
Fabricated metal products			4,892 9,361 17,116 11,252 16,118 8,262 4,035	9,231 15,939 11,210 13,847 7,357 3,754	4,812 9,557 16,587 11,451 15,152 8,241 3,933	4,234 9,765 16,570 11,508 15,805 8,829 3,942	4,156 9,750 15,432 11,677 15,945 9,509 3,825	3,904 10,096 15,899 11,912 17,314 10,109 3,988	3,989 9,890 15,488 11,639 17,573 10,420 4,007	3,685 9,965 14,879 12,108 17,806 10,918 3,905	3,654 9,680 14,847 11,434 17,589 11,018 3,894	3,597 9,520 15,402 11,452 16,292 9,568 4,043	3,065 8,921 14,044 11,220 15,053 7,923 3,753	3,061 ^{19,108} ^{14,535} ^{11,163} ^{15,088} ^{18,082} ^{3,765}	8,849 14,257 11,160 15,566 8,424	
Nondurable goods industries, total #			$\begin{array}{r} 80,481\\21,417\\1,134\\4,095\\6,680\\14,260\\17,800\end{array}$	3,734 79,472 22,069 1,138 3,905 6,712 13,740 17,011 3,646	80,167 22,709 1,136 4,150 6,603 14,071 16,024 3,520	3,942 79,394 22,404 1,103 4,254 6,599 13,847 15,698 3,414	3,825 78,978 22,302 1,157 5,058 6,463 13,751 16,494 3,500	3,986 81,310 23,018 1,128 4,148 6,346 14,136 17,382 3,569	$\begin{array}{r} 4,007\\ 82,631\\ 23,315\\ 1,351\\ 4,217\\ 6,425\\ 14,595\\ 17,592\\ 3,762\end{array}$	$\begin{array}{r} 3,903\\ 82,346\\ 23,277\\ 1,021\\ 4,074\\ 6,478\\ 14,259\\ 17,690\\ 3,807 \end{array}$	3,894 81,371 22,275 1,243 4,198 6,549 14,551 16,976 3,590	$\begin{array}{r} 4,043\\ 82,716\\ 23,268\\ 1,511\\ 4,195\\ 6,492\\ 14,397\\ 17,431\\ 3,654\end{array}$	3,753 80,131 22,392 1,207 4,084 6,519 13,548 17,352 3,483	*3,765 *79,635 *22,339 1,081 *3,988 *6,486 *14,003 *16,467 *3,423	$78,757 \\21,992 \\1,311 \\4,095 \\6,435 \\13,857 \\15,731$	

See footnotes at end of tables.

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SURVEY OF CURRENT BUSINESS

February	1983
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Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1980	1981	1981						198	32		· .		• .		1983
in the 1979 edition of BUSINESS STATISTICS	Anr	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	GEI	VERA	L BU	SINE	SS IN	DICA	ATOF	RS-C	ontin	ued	· · ·					
MANUFACTURERS' SALES, INVENTORIES, AND ORDERS †—Continued	-				_											
Shipments (seas. adj.) †—Continued								- 10 - 10 - 1		÷ .						
By market category: † Home goods and apparel	¹ 128,123 ¹ 328,375 ¹ 276,299 ¹ 123,602 ¹ 144,922 ¹ 849,662 ¹ 58,247 ¹ 312,672 ¹ 274,246	¹ 136,418 ¹ 349,269 ¹ 306,929 ¹ 135,005 ¹ 152,663 ¹ 914,319 ¹ 61,299 ¹ 344,647 ¹ 297,724	$\begin{array}{c} 10,513\\ 28,479\\ 26,684\\ 9,804\\ 11,515\\ 72,619\\ 4,782\\ 29,600\\ 25,315\\ \end{array}$	10,467 29,021 24,185 8,836 11,398 71,115 4,723 27,067 23,066	11,17629,97025,5669,76911,40070,2614,87628,41724,043	$11,208 \\ 29,753 \\ 25,623 \\ 10,332 \\ 11,738 \\ 68,862 \\ 4,982 \\ 28,549 \\ 24,060 \\ 11,208 \\ 24,060 \\ 10,108 \\ 10$	10,708 29,578 23,997 11,002 11,446 69,383 4,897 26,869 22,599	10,803 30,310 25,056 11,661 12,058 70,940 4,808 28,140 23,471	$10,858 \\ 31,043 \\ 24,451 \\ 11,974 \\ 11,720 \\ 71,473 \\ 4,904 \\ 27,727 \\ 22,906 \\ 10,043 \\ 10$	$11,328 \\ 30,660 \\ 24,146 \\ 12,456 \\ 12,102 \\ 70,690 \\ 5,133 \\ 27,283 \\ 22,483 \\ 22,483 \\ 11,328 \\ 12,102 \\ 12$	11,242 30,207 23,766 12,494 11,899 69,011 4,799 26,423 21,776	11,14931,36124,68210,98311,78769,3165,00827,13022,271	10,909 29,943 23,707 9,315 11,537 67,062 4,835 26,297 21,372	^{110,636} ^{230,176} ^{23,794} ^{19,564} ^{11,555} ^{166,618} ^{14,676} ^{26,392} ^{21,441}	$10,719 \\ 30,032 \\ 24,081 \\ 9,922 \\ 11,448 \\ 65,219 \\ 4,482 \\ 26,324 \\ 21,224 \\ \end{array}$	
Defense do	138,426	¹ 46,927	4,285	4,002	4,374	4,490	4,271	4,669	4,821	4,800	4,647	4,859	4,925	r4,951	5,100	
Inventories, end of year or month: † Book value (unadjusted), totaldo Durable goods industries, totaldo Nondurable goods industries, total	261,528 172,115 89,413	280,131 185,584 94,547	$280,131 \\ 185,584 \\ 94,547$	281,926 187,031 94,895	283,594 188,756 94,838	282,050 188,026 94,024	282,017 188,253 93,764	279,391 187,287 92,104	276,281 185,442 90,839	274,487 183,859 90,628	273,292 183,110 90,182	269,830 180,765 89,065	269,002 179,415 89,587	*266,658 *177,112 *89,546	263,751 174,918 88,833	
Book value (seasonally adjusted), total † do By industry group: Durable goods industries, total #	264,016 174,674 5,995 22,878 12,063	283,152 188,429 6,792 26,250 13,347	283,152 188,429 6,792 26,250 13,347	281,155 187,054 6,582 25,974 13,120	281,688 187,121 6,629 26,070 13,128	280,065 186,063 6,544 26,056 13,441	278,985 185,916 6,479 25,403 13,075	276,449 184,870 6,429 25,063 12,867	275,115 184,289 6,382 24,617 12,566	274,914 183,798 6,318 24,450 12,485	274,302 183,550 6,396 24,142 12,154	272,474 182,793 6,332 23,970 11,985	271,710 181,843 6,413 23,738 11,847	r269,297 r179,324 r6,361 r23,107 r11,465	266,688 177,683 6,196 22,308 11,133	
Fabricated metal products do Machinery, except electrical do Electrical machinery do Transportation equipment do Motor vehicles and parts do Instruments and related products	19,623 40,714 26,042 35,890 .9,894 9,154	20,208 44,376 28,142 38,237 9,226 9,610	20,208 44,376 28,142 38,237 9,226 9,610	20,339 44,237 27,784 38,122 8,957 9,420	20,142 44,414 27,697 38,194 8,795 9,513	19,848 44,134 27,526 38,150 8,673 9,399	19,716 44,449 27,365 38,743 8,640 9,516	19,664 44,447 27,024 38,701 8,495 9,303	19,593 44,008 26,950 39,074 8,649 9,393	19,223 43,895 26,834 39,339 8,849 9,422	19,200 43,572 26,891 39,785 8,600 9,387	19,050 43,010 26,669 40,162 8,468 9,398	18,682 42,556 26,670 40,418 8,381 9,388	*18,085 *41,923 *26,745 *40,052 *8,096 *9,289	9,231	·····
Materials and suppliesdo Work in processdo Finished goods	55,310 76,851 42,513	58,461 82,814 47,153	58,461 82,814 47,153	58,184 82,211 46,659	57,999 82,097 47,026	56,897 81,729 47,435	56,947 81,562 47,408	55,996 81,284 47,590	55,643 81,304 47,342	55,781 80,216 47,801	55,191 80,458 47,901	54,703 80,379 47,711	54,279 80,567 46,997	"53,491 "79,786 "46,047	53,020 79,281 45,382 89,005	•••••
Nondurable goods industries, total #	89,341 21,590 3,638 6,695 7,788 19,514 9,814 6,029	$\begin{array}{r} 94,723\\ 20,400\\ 4,401\\ 7,011\\ 8,825\\ 21,615\\ 10,544\\ 6,298\end{array}$	94,723 20,400 4,401 7,011 8,825 21,615 10,544 6,298	$\begin{array}{r} 94,100\\ 20,481\\ 4,495\\ 6,761\\ 8,675\\ 21,420\\ 10,373\\ 6,120\\ \end{array}$	94,567 20,486 4,514 6,710 8,850 21,418 10,615 6,172	94,002 20,405 4,572 6,587 8,921 21,428 10,531 6,153	93,070 20,377 4,812 6,513 8,842 21,363 9,675 6,165	91,579 20,140 4,812 6,501 8,810 20,895 9,060 6,115	90,826 19,830 4,697 6,367 8,757 20,973 9,101 6,046	91,116 20,178 4,893 6,428 8,734 20,798 9,220 5,868	90,752 20,212 4,696 6,381 8,748 20,656 9,329 5,791	89,681 19,972 4,492 6,369 8,831 20,272 9,274 5,678	89,867 19,911 4,417 6,350 8,890 20,396 9,201 5,803	r89,973 r19,944 4,456 r6,386 r8,880 r20,065 r9,764 r5,688	19,943 4,434 6,323 8,864 19,735 9,338 5,681	
Materials and suppliesdo Work in processdo Finished goodsdo	36,208 15,656 37,478	38,015 16,196 40,511	38,015 16,196 40,511	37,961 15,959 40,179	37,899 15,792 40,877	37,317 15,629 41,057	37,486 15,601 39,983	37,172 15,438 38,969	36,714 15,555 38,557	36,789 15,519 38,808	36,448 15,529 38,775	35,800 15,192 38,689	35,637 14,857 39,373	"35,814 "14,793 "39,366	35,443 14,621 38,941	
By market category: † Home goods and apparel	$\begin{array}{c} 20,817\\ 32,196\\ 70,150\\ 12,328\\ 20,872\\ 107,653\end{array}$	22,948 33,100 76,445 11,873 22,172 116,613	22,948 33,100 76,445 11,873 22,172 116,613	22,766 33,309 76,265 11,567 21,729 115,518	22,631 33,644 76,744 11,366 21,338 115,964	22,041 33,631 76,716 11,220 21,078 115,379	21,948 33,673 77,708 11,191 20,723 113,741	21,779 33,355 77,506 11,102 20,639 112,068	$\begin{array}{r} 21,598\\ 32,832\\ 77,622\\ 11,226\\ 20,533\\ 111,304 \end{array}$	21,675 33,351 77,423 11,332 20,415 110,718	21,517 33,262 77,618 11,054 20,490 110,361	21,416 32,632 77,464 10,807 20,261 109,894	21,327 32,692 77,083 10,806 20,125 109,677	^r 21,071 ^r 32,638 ^r 76,653 ^r 10,500 ^r 19,909 ^r 108,526	21,081 32,512 76,134 10,972 19,592 106,397	
Household durables do Capital goods industries do Nondefense do Defense do	10,345 79,141 68,605 10,535	11,256 86,515 73,360 13,154	73,360		11,120 86,974 73,376 13,598	10,896 86,795 72,937 13,857	10,856 87,752 73,806 13,946	10,692 87,644 73,615 14,029	10,744 87,393 73,166 14,227	10,782 87,378 73,173 14,205	10,656 87,885 73,426 14,459	10,678 87,579 72,710 14,869	10,548 87,779 72,575 15,204	"10,302 "87,018 "71,667 "15,351	10,352 86,668 71,162 15,506	
New orders, net (not seas. adj.), total † do Durable goods industries, total	1,868,857 948,723 920,134	999,268 992,912	75,381 78,070	147,978 71,856 76,122	159,497 78,548 80,949	166,453 84,383 82,069	156,759 77,867 78,892	155,250 74,504 80,746	162,730 78,199 84,531	143,375 66,393 76,982	149,397 67,545 81,852	161,757 75,921 85,836		*69,430 *79,545	154,514 77,812 76,702	
New orders, net (seas. adj.), total †	^{11,868,857} ^{1948,723} ^{1133,936} ^{162,217} ^{160,016}	¹ 1,992,179 ¹ 999,268 ¹ 133,901 ¹ 68,410 ¹ 53,606	156,660 76,421 8,981 4,462 3,804	154,519 75,061 9,163 4,469 3,866	155,984 76,309 8,241 3,741 3,767	157,198 77,859 7,596 3,432 3,440	154,995 76,194 8,137 3,583 3,828	156,791 75,710 8,453 3,928 3,741	157,058 74,550 8,617 3,789 3,939	158,588 76,446 8,660 3,999 3,797	154,380 72,982 8,178 3,749 3,765	156,166 73,266 7,983 3,351 4,010	149,696 69,598 6,943 2,795 3,534	*150,362 *70,607 *7,466 *3,056 *3,729	157,622 78,729 6,872 2,517 3,742	·
Fabricated metal products do Machinery, except electrical do Electrical machinery do Transportation equipment do Aircraft, missiles, and parts do	¹ 115,658 ¹ 180,332 ¹ 135,199 ¹ 198,898 ¹ 70,394	¹ 122,031 ¹ 202,448 ¹ 141,845 ¹ 202,472 ¹ 66,145	9,272 16,343 11,566 14,617 5,282	8,777 15,120 11,842 15,182 5,841	9,052 14,506 11,391 17,305 7,475	9,819 14,438 12,782 17,138 7,206	8,989 15,262 12,508 16,595 5,779	9,405 14,408 11,888 16,011 4,854	9,389 13,015 11,705 16,347 4,560	9,368 12,876 12,396 17,515 4,989	8,897 13,091 11,572 16,084 5,175	8,668 13,978 12,025 14,828 4,181	8,297 13,824 11,115 14,267 5,108	^{-78,186} ^{-12,970} ^{-12,193} ^{-14,567} ^{-5,193}	8,480 14,111 12,685 21,541 7,166	
Nondurable goods industries, total do Industries with unfilled orders ‡ do Industries without unfilled orders ¶ do	¹ 920,134 ¹ 186,011 ¹ 734,123	¹ 992,912 ¹ 205,870 ¹ 787,040	80,239 17,111 63,128	79,458 16,946 62,512	79,676 16,866 62,810	79,339 17,607 61,732	78,803 16,653 62,151	81,081 16,756 64,325	82,508 16,867 65,641	82,142 16,742 65,400	81,398 17,181 64,217	82,900 17,314 65,586	80,098 16,822 63,276	"79,755 "17,287 "62,468	78,893 17,311 61,582	
By market category: † Home goods and apparel	¹ 127,594 ¹ 328,433 ¹ 293,103 ¹ 122,045 ¹ 144,254 ¹ 853,428	¹ 136,200 ¹ 349,430 ¹ 308,350 ¹ 134,898 ¹ 152,053 ¹ 911,251	10,472 28,451 24,381 9,869 11,228 72,258	10,296 28,978 26,587 8,771 10,856 69,031	$\begin{array}{c} 11,120\\ 29,996\\ 26,161\\ 9,438\\ 11,108\\ 68,162 \end{array}$	11,570 29,822 25,349 10,285 12,006 68,167	10,067 29,477 25,890 10,625 11,003 67,937	11,040 30,340 22,074 11,398 11,592 70,347	10,964 31,070 23,179 11,887 11,384 68,574	$\begin{array}{c} 11,181\\ 30,590\\ 22,390\\ 12,647\\ 12,008\\ 69,772 \end{array}$	11,099 30,181 21,542 11,928 11,429 68,201	10,978 31,389 22,310 11,267 11,691 68,531	$\begin{array}{c} 10,772\\ 29,967\\ 22,325\\ 9,346\\ 11,205\\ 66,081 \end{array}$	*10,683 *30,147 *22,888 *9,419 *10,894 *66,331	10,892 30,086 29,174 10,071 11,200 66,199	
Supplementary series: Household durables	¹ 57,820 ¹ 334,268 ¹ 281,384 ¹ 52,884	¹ 61,128 ¹ 347,082 ¹ 288,731 ¹ 58,350	4,747 27,774 22,130 5,644	4,578 28,291 21,717 6,573	4,869 28,772 21,560 7,213	5,353 29,239 22,174 7,065	4,254 28,782 22,608 6,174	5,022 25,107 20,332 4,775	5,004 24,715 19,278 5,437	4,990 25,006 20,322 4,684	4,670 24,207 18,893 5,314	4,850 24,608 20,273 4,335	4,743 25,004 20,183 4,821	r4,715 r25,264 r20,173 r5,091	4,604 33,080 20,583 12,497	

SURVEY OF CURRENT BUSINESS

February 1983		SI	URVE	Y OF	CUR	RENT	L ROS	SINES	00		4 - A					5-
Unless otherwise stated in footnotes below, data brough 1978 and descriptive notes are as shown	1980	1981	1981						19	82						1983
in the 1979 edition of BUSINESS STATISTICS	Anı	nual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	GE	NERA	L BU	SINE	ss in	NDIC.	ATOI	RS—C	Contir	ued				<i>n</i> .		
MANUFACTURERS' SALES, INVENTORIES, AND ORDERS †—Continued													· .			
Jnfilled orders, end of year or month (unadjusted), total †	318,797 308,131 10,666	306,395	306,395	319,921 309,646 10,275	319,197 309,365 9,832		318,518 308,736 9,782	302,762	305,804 296,652 9,152	301,624 292,684 8,940	295,827 286,850 8,977	282,866	282,244	279,370 r		
Infilled orders, end of year or month (seasonally adjusted) total †	320,977	318,621	318,621	318,114	315,957	315,639	314,521	310,482	306,032	303,235	299,001	295,883	293,107	'291,128	297,323	
Durable goods industries, total # do Primary metals	310,051 29,658 16,966 8,899	308,370 26,623 16,113 7,302	308,370 26,623 16,113 7,302	307,877 25,759 15,573 7,030	$306,211 \\ 24,427 \\ 14,502 \\ 6,921$	305,947 23,195 13,679 6,697	305,004 22,378 13,106 6,572	22,147	296,866 22,168 12,930 6,586	294,272 22,385 13,244 6,499	290,011 22,181 13,369 6,391	21,913	21,167 12,823	^r 281,861 ^r 21,318 ^r 12,818 ^r 6,273	287,924 20,604 12,184 6,217	
Fabricated metal products do Machinery, except electrical do Electrical machinery do Transportation equipment do Aircraft, missiles, and parts do	30,497 73,884 47,917 114,304 86,831	29,240 72,627 51,939 113,709 87,207	72,627 51,939 113,709 87,207	28,785 71,807 52,570 115,043 88,123	90,514	118,529 92,483	27,574 67,425 54,613 119,178 93,349	92,613	26,384 63,462 54,655 116,652 91,494	25,788 61,458 54,942 116,359 91,178	25,004 59,703 55,082 114,855 91,151	58,276 55,654 113,390 90,025	58,054 55,548 112,604 89,355	'89,021	22,236 56,342 58,102 118,062 90,469	
Nondur. goods ind. with unfilled orders ‡ do By market category: † Home goods, apparel, consumer staples do	10,926	10,251	10,251	10,237	9,746		9,518	9,288	9,166	8,963	8,990		9,147	¹ 9,267	9,399	
Equip. and defense prod., incl. auto do Construction materials and supplies do Other materials and supplies do hypolementary series:	4,167 186,434 17,588 112,788	4,244 187,724 16,982 109,671	4,244 187,724 16,982 109,671	4,029 190,058 16,440 107,588	3,998 190,323 16,148 105,488	16,416	3,684 191,517 15,972 103,346		4,087 186,916 15,170 99,859	3,866 185,350 15,076 98,943	3,700 182,561 14,606 98,134	180,468 14,509	3,446 179,112 14,178 96,371	⁷ 3,462 178,065 13,517 96,084	3,688 183,306 13,269 97,060	
Household durables	3,123 218,190 155,646 62,544	3,069 220,621 146,701 73,919	3,069 220,621 146,701 73,919	2,924 221,841 145,351 76,490	2,916 222,197 142,868 79,329	3,288 222,888 140,982 81,905	2,643 224,799 140,991 83,808	2,858 221,766 137,852 83,914	2,961 218,756 134,226 84,530	2,815 216,480 132,067 84,413	2,689 214,264 129,183 85,081	2,528 211,737 127,180 84,557	$2,438 \\ 210,440 \\ 125,988 \\ 84,452$	^r 2,475 ^r 209,314 ^r 124,721 [.] '84,593	2,597 216,070 124,079 91,991	
BUSINESS INCORPORATIONS @ w incorporations (50 States and Dist. Col.): Jnadjusted	533,520	*489,059	48,650 47,556	42,680 43,330	42,511 47,234	52,574 46,899	48,845 46,876	46,008 46,995	48,876 45,936	45,282 44,525	45,572 46,981	45,461 45,552	45,029 45,530			
INDUSTRIAL AND COMMERCIAL FAILURES @		·	41,000	40,000	11,201	40,000	40,010	40,000	40,000	11,020	40,001	40,002	40,000			
ilures, total	$11,742 \\ 1,594 \\ 2,355 \\ 1,599 \\ 4,910 \\ 1,284$	16,794 2,366 3,614 2,224 6,882 1,708	$1,558 \\ 228 \\ 378 \\ 202 \\ 586 \\ 164$			· · · · · · · · · · · · · · · · · · ·	·····		·····							·
bilities (current), totalthous, \$ Commercial servicedo Construction do Manufacturing and miningdo.	4,635,080 413,502 752,109 1,885,017	6,955,180	626,739 103,459 92,749 198,651		·								·····			
Retail trade do Wholesale trade do	993,539 590,913	1,558,528 1,128,632	100,409 131,471		·····											
ilure annual rate (seasonally adjusted) No. per 10,000 concerns	¹ 42.1	¹ 61.3	72.2								•••••		•••••			
· · · · · · · · · · · · · · · · · · ·			C	OMM	ODI	ry pi	RICES	5	·····	T						• .
PRICES RECEIVED AND PAID BY FARMERS														н. 1914 - С.		
ices received, all farm products 1910-14=100. Crops # do Commercial vegetables do Cotton do Feed grains and hay do Fruit do Fruit do Tobacco do	614 539 562 583 417 452 458 1,219	633 580 r677 r566 446 456 r483 1,363	⁵⁸⁴ ⁵²⁹ 735 *435 381 434 559 1,452	r602 r547 r904 r425 r399 432 r525 r1,474	r609 r535 r800 r415 r390 425 r553 r1,474	⁷⁶⁰⁹ ⁷⁵²² ⁷⁶⁶⁴ ⁷⁴²⁵ ⁷³⁹¹ 419 ⁷⁵³⁵ ^{71,469}	r618 r533 r641 r459 404 417 r549 1,469	*634 *544 *605 *471 *417 413 *596 1,469	628 541 *640 *490 404 388 *612 1,474	r624 r540 r604 r506 385 374 r761 1,400	*607 *508 *528 *446 363 376 *689 1,526	*619 *538 *501 *469 345 *383 *1,088 1,565	*585 *491 *518 505 328 *388 *388 *721 1,535	⁵⁸⁷ ⁵⁰⁵ ⁶¹⁷ 506 345 -393 -671 1,548	⁵⁸¹ ⁴⁹⁵ ⁵⁷⁸ ⁴⁸⁴ ³⁶³ ³⁹⁸ ⁵⁴⁶ 1,548	1,
Livestock and products #do Dairy productsdo Meat animalsdo Poultry and eggsdo	691 798 878 254	688 842 848 264	641 856 756 253	659 850 791 259	685 844 841 264	699 832 870 268	706 820 898 255	727 807 950 247	718 801 936 245	711 807 912 254	710 807 922 236	705 826 894 253	685 844 850 249	672 856 823 244	r669 r850 r828 232	
ces paid: Production items do All commodities and services, interest, taxes, and	· 799	r855	840	¹ 853	r855	^r 864	· 863	^r 868	⁷ 873	'873	r871	⁻ 865	^r 859	*860	*859	. 8
wage rates (parity index)	950 65	'1,035 61	1,035 ⁻ 56 -	1,056 י 57	r1,059 r58	r1,066 57	°1,065 58	י1,070 59	1,076 58	r1,079 58	"1,079 56	*1,077 *57	*1,073 55	*1,075 55	1,073 ⁻ 54	1,
CONSUMER PRICES (U.S. Department of Labor Indexes)									[-					
Not Seasonally Adjusted L ITEMS, WAGE EARNERS AND 'LERICAL WORKERS, REVISED CPLW)	247.0	272.3	281.1	282.1	282.9	282.5	283.7	286.5	290.1	291.8	292.4	292.8	293.6	293.2	292.0	29
L ITEMS, ALL URBAN CONSUMERS CPI-U) 1967=100.	247.0	272.4	281.5	282.1	283.4	282.5	284.3	286.5	290.1	291.8	292.4 292.8	292.8	293.6 294.1	293.2 293.6	292.0 292.4	28 229
Special group indexes: All items less shelter do All items less food	235.5 244.0	$258.5 \\ 270.6$	266.0 280.8	$267.4 \\ 281.4$	$268.3 \\ 282.1$	$268.5 \\ 281.7$	268.7 282.9	270.6 286.0	$273.8 \\ 289.7$	275.3 291.5	275.7 292.5	276.9 292.9	$277.9 \\ 294.0$	$278.1 \\ 293.6$	278.2 292.1	27 229

See footnotes at end of tables.

S-5

SURV

VEY	OF	CURR	ENT	BUS	INESS	5		

Unless otherwise stated in footnotes below, data	1980	1981	1981						198	32						1983
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.	Jan.
		CC)MM(DDIT	Y PR	ICES-	-Cor	ntinue	ed							
CONSUMER PRICES—Continued (U.S. Department of Labor Indexes)—Continued Not Seasonally Adjusted							,									
All items (CPI-U)—Continued 1967 = 100 Commodities do Nondurables do Durables do Commodities less food do Commodities less food do Services do Services less rent do	$\begin{array}{c} 233.9\\ 245.0\\ 235.2\\ 210.4\\ 222.0\\ 270.3\\ 285.1 \end{array}$	$\begin{array}{c} 253.6\\ 266.3\\ 257.5\\ 227.1\\ 241.2\\ 305.7\\ 324.3 \end{array}$	258.4 269.8 261.1 233.7 246.5 321.8 342.0	258.8 270.8 260.2 233.4 245.9 323.9 344.2	$\begin{array}{c} 259.5 \\ 271.7 \\ 260.1 \\ 233.7 \\ 246.0 \\ 325.3 \\ 345.7 \end{array}$	258.8 270.7 258.4 233.5 245.2 325.5 345.7	258.9 269.3 255.0 235.8 245.0 328.4 349.1	261.5 270.7 256.2 239.8 247.8 331.8 352.8	265.1 274.4 261.2 243.2 251.9 334.9 356.5	266.5 275.7 263.0 244.7 253.5 337.0 358.5	266.4 275.5 263.6 244.6 253.8 338.9 360.5	266.6 276.2 264.6 244.1 253.9 339.7 361.3	267.5 276.5 265.7 246.0 255.4 340.3 361.6	267.8 276.4 266.1 246.6 256.0 338.6 359.3	267.7 275.8 264.7 247.3 255.8 335.6 355.5	1267.2 275.2 262.4 1247.3 1254.4 1337.9 $(^2)$
Food # do Food at home do Housing do Shelter # do Rent, residential do	254.6 251.5 263.3 281.7 191.6 314.0	274.6 269.9 293.5 314.7 208.2 352.7	277.8 271.7 305.2 328.0 216.5 367.8	281.0 275.3 306.1 328.3 217.8 367.5	283.3 278.0 307.3 329.5 218.6 368.7	283.0 277.1 306.7 327.6 219.6 365.7	283.9 277.9 309.4 331.4 220.1 370.6	285.5 279.8 313.8 336.7 221.8 377.4	287.8 282.6 317.5 340.9 222.6 382.8	288.5 282.8 319.2 342.8 224.8 384.5	287.4 280.8 320.1 344.2 226.0 385.9	287.6 280.6 319.7 342.6 226.9 383.0	287.0 279.4 320.7 342.8 228.9 382.8	286.4 278.3 319.0 340.7 230.2 379.5	286.5 277.8 316.3 335.9 230.8 372.9	288.1 279.3 ¹ 317.9 ¹ 338.3 232.2 (²)
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 Transportation do	278.6 556.0 301.8 205.4 178.4 249.7	319.2 675.9 345.9 221.3 186.9 280.0	331.8 682.5 359.9 227.7 190.5 289.8	336.2 686.0 367.4 228.4 187.3 289.9	337.1 683.1 368.7 230.2 188.0 288.0	339.3 664.0 375.9 231.6 191.1 285.1	339.2 641.3 377.8 232.6 191.9 282.9	345.4 644.6 389.0 233.4 191.5 285.6	352.2 656.6 398.9 233.7 190.8 292.8	354.7 354.7 659.9 402.1 234.1 189.7 296.1	356.3 356.3 659.9 404.4 233.4 191.8 296.2	359.5 662.8 409.2 234.2 194.9 295.3	363.4 677.2 413.4 235.4 195.5 295.5	362.2 691.3 407.6 235.1 195.4 295.8	364.1 688.5 410.6 235.7 193.6 294.8	365.4 671.1 413.5 '235.8 191.0 293.0
Private do Private do New cars do Used cars do Public do Medical care do Seasonally Adjusted	249.2 179.3 208.1 251.6 265.9	277.5 190.2 256.9 312.0 294.5	286.5 197.0 281.9 333.8 310.2	286.6 197.4 280.5 334.9 313.4	284.5 195.5 279.7 336.8 316.2	281.3 194.4 280.9 336.7 318.8	278.8 196.0 285.1 339.3 321.7	281.5 197.5 291.4 342.1 323.8	288.9 198.1 298.2 345.6 326.4	292.3 198.6 302.4 347.2 330.0	292.4 198.7 304.4 348.1 333.3	291.1 197.7 304.6 353.3 336.0	291.1 197.7	291.4 199.0 310.5 356.0 342.2	290.4 200.1 312.6 355.6 344.3	288.4 201.0 311.0 357.7 347.8
All items, percent change from previous month Commodities 1967=100. Commodities less food do. Food do. Food at home do. Apparel and upkeep do. Transportation do.			0.4 r259.3 r247.2 r279.4 r273.2 r189.6 r291.2 r288.2	0.3 r259.5 r246.7 r281.3 r275.5 r189.5 r290.9 r287.7	*0.1 *259.0 *245.7 *282.6 *277.1 *190.2 *287.0 *283.5	"0.0 "258.8 "245.3 "282.8 "277.0 "190.6 "286.6 "283.0	0.2 r258.1 r244.2 r283.3 r277.4 r190.8 r282.5 r278.6	1.0 *261.0 *247.3 285.4 *279.7 *191.1 *285.1 *281.2	r1.1 r264.3 r251.2 r287.1 r281.5 r191.5 r291.5 r291.5 r287.7	0.6 *265.8 *253.0 *287.6 *281.5 *192.2 *294.1 *290.4	0.3 *266.0 *253.6 *286.9 *279.9 *192.7 *295.3 *291.6	^{°0.1} ^{°266.4} ^{°253.8} ^{°287.5} ^{°280.2} ^{°192.8} ^{°295.6} ^{°291.6}	^{10.4} 267.9 255.6 ^{1288.1} ^{1280.5} ^{1193.3} ^{1296.4} ^{1292.3}	^{10.0} ^{1268.1} ^{1255.9} ^{1288.2} ^{1280.1} ^{1193.2} ^{1296.0} ^{1291.8}	-0.3 ¹ 268.4 ¹ 256.3 ¹ 288.1 ¹ 279.4 ¹ 192.7 ¹ 295.8 ¹ 291.7	¹ 0.2 ¹ 268.1 ¹ 255.6 288.3 279.5 193.2 293.9 289.4
Private do New cars do Services do PRODUCER PRICES § (U.S. Department of Labor Indexes) Not Seasonally Adjusted			*196.3 322.9	r195.9 r324.8	*195.3 *326.0	*195.7 *326.1	*196.1 *329.0	196.5 *332.1	*197.2 *334.9	*198.0 *336.8	*199.2 *338.9	r199.6 r339.1	r199.2 r339.9	*198.7 *339.3	*199.3 *336.7	199.4 ¹ 338.3
All commodities 1967 = 100. By stage of processing: † Crude materials for further processing do Intermediate materials, supplies, etc do Finished goods # do Finished consumer goods. do Capital equipment do By durability of product: by durability of product:	268.8 304.6 280.3 247.0 248.9 239.8	293.4 329.0 306.0 269.8 271.3 264.3	275.8 274.1	298.3 318.4 311.0 277.9 278.3 276.2	298.6 321.6 311.1 277.9 278.6 275.0	298.0 320.0 310.6 277.3 277.7 275.8 277.4	298.0 322.6 309.9 277.3 277.3 277.2	298.6 328.3 309.8 277.8 277.7 278.1	299.3 325.6 309.9 279.9 280.1 279.2	300.4 323.4 311.1 281.7 282.1 280.2 278.9	300.2 319.8 310.8 282.3 282.8 280.7 278.8	*299.3 *316.1 *310.5 *281.2 *281.9 *278.7 *278.6	312.2 310.0 284.1 284.2	300.4 313.4 310.1 284.9 285.2 284.0 281.2	300.6 312.6 310.2 285.1 285.1 285.1 285.1 285.1	300.0 313.7 309.9 283.6 283.0 285.7 282.8
Durable goods	251.5 282.4 261.5 250.8 273.0 244.7 249.4	269.8 312.4 286.0 269.6 303.6 251.5 254.9		277.6 314.7 291.9 278.0 306.8 246.0 242.2	277.4 315.4 292.0 277.8 307.2 248.4 247.1	277.4 314.2 291.4 277.8 305.9 247.5 244.7	278.1 313.6 291.1 278.7 304.1 251.6 250.6	278.5 314.5 291.3 279.2 304.0 255.8 256.5	278.3 316.0 292.4 279.3 306.3 255.3 252.7	317.6 293.7 279.9 308.5 252.4 246.6	218.6 317.1 293.8 279.8 308.6 249.6 240.8	r315.7 r292.9 r279.6 r307.1	314.3 293.9 282.4 305.9 243.9	315.5 294.0 282.4 306.3	202.0 315.1 294.1 283.2 305.6 244.8 232.5	313.4 293.7 283.9 303.9
Foods and feeds, processed do Industrial commodities do Chemicals and allied products do Fuels and related prod, and power do Furniture and household durables do Hides, skins, and leather products do Lumber and wood products. do Mathinery and equipment. do Metals and metal products do	241.2 274.8 260.3 574.0 187.7 248.9 288.9 239.8 239.8	248.7 304.1 287.8 694.4 198.4 261.5 292.8	243.6 310.0 291.8 702.5 202.9 260.7 285.4 272.0	247.1 311.8 292.9 705.1 203.5 261.8 285.5 274.1 304.7	248.1 311.6 293.6 697.8 204.6 261.6 285.2 275.4 304.2	248.1 311.0 294.6 689.7 205.5 260.6 285.3 276.2 302.9	251.1 309.9 294.3 670.6 206.0 263.4 286.5 277.6 303.1	254.4 309.6 295.0 662.2 206.5 263.2 284.6 278.2 302.8	255.8 310.6 293.3 677.3 207.0 261.8 289.0 278.6	254.6 312.8 291.6 701.1 206.8 263.1 288.6 279.6 299.5	253.5 313.2 291.6 705.6 208.1 262.0 284.2 279.9 299.2	r253.5 r312.7 r290.7 r700.4 r208.3 r263.5 283.0 r280.2	251.0 314.4 290.4 699.6 208.4 264.7 279.6 280.9	250.4 315.1 290.5 707.3 208.3 264.3 279.9	250.6 315.0 289.3 702.6 208.6 265.2 284.8 281.8	251.8 314.0 289.2 686.3 210.1 265.6 292.1 282.7
Nonmetallic mineral products	283.0 249.2 217.4 183.5 207.0 208.8	309.5 273.7 232.8 199.6 235.4	313.5 281.0 238.3 203.4 246.8	315.6 285.5 237.3 205.0 248.6	319.0 286.3 239.3 205.6 245.2 246.8	319.9 287.4 240.8 205.0 245.2 246.8	$\begin{array}{c} 320.2 \\ 288.5 \\ 241.1 \\ 205.4 \\ 245.8 \\ 247.2 \end{array}$	321.2 289.6 242.1 205.4	320.9 289.5 242.5 205.0 249.1 251.1	321.1 289.1 242.0 204.1 249.8 252.0	320.5 289.3 242.6 204.2 250.6 252.8	r321.2 r289.4 r242.5 r204.3 r244.5	321.2 289.2 243.0 202.6 256.4	321.5 289.6 242.6	320.9 289.5 243.0 202.4 257.5	321.5 291.1 244.5 202.6 257.1
Seasonally Adjusted ‡ Finished goods, percent change from previous month			0.3	⁷ 0.4	r0.1	·0.3	0.1	r0.0	1.0	0.5	- r0.5	r0.1	۳0.4	0.6	⁷ 0.2	-1.0
By stage of processing: † Crude materials for further processing 1967=100. Intermediate materials, supplies, etc			r315.1 r311.0 r276.2 r277.0 r253.3 284.6 r223.8 r329.9 r273.6	7224.2 7330.0	r317.9 r311.0 r277.5 r278.3 r257.8 r284.6 r223.3 r330.3 r274.5	r317.0 r309.6 r276.8 r277.0 r257.4 r282.9 r224.6 r326.5 r276.0	r320.8 r308.4 277.1 277.3 r261.6 r281.6 r224.3 r324.4 276.5	¹ 225.0 1322.4	r325.8 r309.7 r279.9 r280.0 r263.5 r284.6 r226.8 r327.7 279.5	r322.1 r310.3 281.2 r281.5 r259.2 r288.5 r227.4 r334.3 280.5	r319.1 r310.3 r282.5 r282.6 r259.4 r290.1 r228.6 r336.2 r282.3	⁷ 282.8 ⁷ 283.0 ⁷ 258.3 ⁷ 291.2 ⁷ 227.8 ⁷ 338.6	r310.9 283.9 284.3 258.3 293.0 r228.6 r341.4	345.2	*286.0 *286.5 *258.7 *295.9 *295.9	310.8 283.0 282.6 258.2 290.5 229.8 335.9
PURCHASING POWER OF THE DOLLAR As measured by: Producer prices	0.405		0.363 0.355	0.360 0.354	0.360 0.353	0.361 0.353	0.361 0.352	0.360 0.348		0.355 0.342	0.354 0.342	r0.356 0.341		0.351 0.341	0.351 0.342	

See footnotes at end of tables.

February 1983

SURVEY OF CURRENT BUSINESS

	1980	1981	1981						19	22						19
Unless otherwise stated in footnotes below, data hrough 1978 and descriptive notes are as shown n the 1979 edition of BUSINESS STATISTICS	1980 Ann		1981 Dec.	Jan.	Feb.	Mar.	Apr.	May	June	52 July	Aug.	Sept.	Oct.	Nov.	Dec.	Ja
			STRU	,				-		July		Sept.	001.	1107.	Dec.	
		CON	SINC				LAL	E S I I								г
CONSTRUCTION PUT IN PLACE	000 740	000 001	10.005			10 505	17.040	10 000			01.001		-01.000			
Jew construction (unadjusted), total mil. \$	230,749 175,699	238,201	18,865	15,142	14,726	16,705	17,943	19,323 15,205	20,932	20,490	21,021	21,402	*21,028	*20,635	19,698	
Private, total # do Residential do	87,261	185,222 86,566	14,941 5,966	12,170 4,963	11,794 4,417	13,349 5,175	14,173 5,915	6,609	$16,281 \\ 6,899$	$15,738 \\ 6,680$	$15,801 \\ 6,628$	16,005 6,602	'16,124 '6,815	'16,098 '7,067	15,813 6,570	l
New housing units do	63,139	62,664	3,951	3,450	3,166	3,789	3,856	4,175	4,406	4,676	4,846	5,006	r4,971	'5,068	4,565	
Nonresidential buildings, except farm and public utilities, total # mil. \$	52,434	60,818	5,230	4,542	4,575	5,018	5,195	5,383	5,776	5,610	5,615	5,679	5,774	¹ 5,652	5,334	
Industrial do Commercial do	13,837 29,945	$17,030 \\ 34,248$	$1,456 \\ 3,008$	$1,226 \\ 2,619$	1,239 2,623	1,338 2,898	$1,296 \\ 3,078$	$1,417 \\ 3,119$	$1,543 \\ 3,320$	1,433 3,302	$1,458 \\ 3,235$	$1,465 \\ 3,289$	$1,548 \\ 3,252$	1,369 3,285	1,313 3,075	
Public utilities: Telephone and telegraph do	6,733	7,074	652	466	531	639	584	588	654	626	652	652	604	599		
Public, total # do	55,050	52,979	3,924	2,971	2,932	3,356	3,770	4,118	4,651	4,752	5,220	5,396	14,905	14,538	3,885	
Buildings (excluding military) # do	18,517	17,792	1,459	1,186	1,227	1,290	1,377	1,377	1,468	1,458	1,527	1,599	1,461	1,512	1,344	
Housing and redevelopment do Industrial do	1,648 1,441	1,722 1,655	147 158	111 93	113 121	129 138	137 150	128 131	132 146	142 141	153 144	150 167	154 136	162 138	142 127	
Military facilities do	1,441	1,055	161	159	121	138	130	186	140	201	215	244	184	211	204	
Highways and streets do	13,807	13,304	756	434	444	585	721	1,014	1,467	1,563	1,673	1,672	1,649	1,241	763	····
New construction (seasonally adjusted at annual rates), total bil. \$			228.8	225.1	222.6	224.6	226.1	228.7	231.6	227.3	228.1	228.1	⁷ 228.8	7235.8	239.0	
Private, total # do			220.0 176.6	225.1 175.5	222.6 173.0	224.6 173.6	226.1 175.1	228.7 179.9	231.6 182.6	178.7	228.1 176.6	228.1 177.0	·228.8 177.7	183.8	239.0 186.8	
Residential do			75.8	73.7	69.2	70.0	72.3	75.5	75.3	73.4	72.1	71.5	r74.0	78.9	83.1	
New housing units			49.4	51.0	49.2	51.0	49.6	51.0	49.8	51.5	52.3	53.1	52.3	10.5	57.1	
public utilities, total # bil. \$			62.2	62.8	64.1	64.9	64.2	64.4	67.1	64.0	63.3	64.2	63.5	*64.7	63.5	
Industrial do Commercial do			$16.6 \\ 36.4$	$17.1 \\ 36.2$	$17.2 \\ 36.8$	16.6 38.4	15.9 38.4	$17.1 \\ 36.8$	$\begin{array}{c} 18.4\\ 38.0\end{array}$	16.4 37.5	16.7 36.1	$ \begin{array}{c} 16.6 \\ 37.1 \end{array} $	$17.1 \\ 35.7$	"15.8 "37.8	$15.0 \\ 37.1$	····
Public utilities: Telephone and telegraph do			7.5	7.3	8.4	7.4	7.1	7.3	7.0	7.4	7.2	7.3	6.5	6.8		
Public, total # do			52.2	49.6	49.6	51.0	51.0	48.8	48.9	48.9	51.4	51.1	·51.1	r52.0	52.2	
Buildings (excluding military) # do			17.6	16.8	17.7	16.9	17.5	16.5	16.8	16.1	16.9	16.8	·17.1	¹ 17.8	16.2	
Housing and redevelopment do Industrial do			1.6 1.8	1.7 1.1	$1.5 \\ 1.8$	$1.6 \\ 1.6$	1.6 1.8	1.5 1.5	1.6 1.6	1.6 1.7	$1.8 \\ 1.8$	1.6 1.6	1.9 1.9	^r 2.0 r1.9	$1.6 \\ 1.4$	
Military facilities do			2.0	2.1	1.5	2.3	1.7	2.1	1.9	2.3	2.5	2.7	2.3	2.5	2.5	
Highways and streets do			12.7	11.5	12.4	13.3	12.1	11.7	13.1	14.1	13.3	13.5	14.3	'13.9	13.2	
CONSTRUCTION CONTRACTS																
Construction contracts in 50 States (F.W. Dodge Division, McGraw-Hill):																
Valuation, total mil. \$ Index (mo. data seas. adj.)	148,393 107	^r 153,480 ^{r1} 110	11,980° 115°	$10,580 \\ 118$	8,881 115	13,036 105	11,713 88	11,821 94	$15,444 \\ 111$	12,528 98	13,896 112	$14,180 \\ 117$	12,549 105	12,909 122	13,977 131	
Public ownership mil. \$	41,717	-38,956	۲2,811	2,673	2,998	4,280	3,394	3,773	4,360	3,745	3,411	3,849	3,272	3,137	2,835	
Private ownership do By type of building:	106,676	^{114,524}	'9,170	7,907	5,883	8,756	8,319	8,048	11,084	8,783	10,485	10,330	9,276	9,772	11,142	
Nonresidential do Residential do	52,492 63,668	r60,088 r60,164	'4,362 '3,677	$3,458 \\ 3,008$	$3,606 \\ 3,143$	$5,273 \\ 4,600$	4,400	4,233 4,984	6,113 5,602	$5,011 \\ 5,144$	$5,250 \\ 5,414$	$5,226 \\ 5,525$	$5,027 \\ 5,629$	4,520 5,628	$3,975 \\ 5,184$	·····
Non-building construction do lew construction planning	32,234	r33,228	r3,941	4,113	2,132	3,164	2,658	2,604	3,729	2,372	3,232	3,429	1,893	2,761	4,818	
(Engineering News-Record) § do	149,143	166,366	17,516	13,920	12,102	10,844	14,043	9,119	8,278	11,992	10,385	11,936	13,373	15,530	17,683	15
HOUSING STARTS AND PERMITS																
lew housing units started: Unadjusted:																
Total (private and public)thous Privately owned do	1,312.6 1,292.2		59.7 59.1	$47.6 \\ 47.2$		$78.7 \\ 78.2$	85.1	99.2		107.2	97.2		111.5		182.2	
One-family structures do	852.2	$1,084.2 \\ 705.4$	34.1	29.3	$51.3 \\ 32.5$	51.8	84.1 55.8	98.8 58.9	91.1 63.5	106.8 61.4	96.0 62.0	$\begin{array}{r}106.4\\63.3\end{array}$	110.5 66.3	'108.9 '66.0	'81.7 '51.6	
Seasonally adjusted at annual rates:			* 906	* 877	r911	*9 20	r911	r1 000	1010	11 105	11.046	71 104	71.140	11 001		
Total privately owned do One-family structures do		·····	-906 -556	-877 -585	'911 '561	*607	•911 •583	"1,028 "622	¹ 910 1617	"1,185 "625	'1,046 '651	r1,134 r683	"1,142 "716	'1,361 '868	'1,263 '837	
lew private housing units authorized by building permits (16,000 permit-issuing places):																
Monthly data are seas. adj. at annual rates:				000			0-0									
Total	1,191 710	986 564	797 454	$ 803 \\ 450 $	792 436	851 460	879 450	944 488	929 516	$1,062 \\ 500$	$\frac{888}{497}$	1,003 561	$1,172 \\ 651$	1,192 729	'1,305 '736	
Innufacturers' shipments of mobile homes	221.6	1940.0	14.2	12.0	*17.9	00.1	90.9	01.0	00.0	10.4		01.0	00.4	10.0		
Unadjustedthous Seasonally adjusted at annual rates do		240.9°.	^{14.2} 216	13.9 7221	"17.3 "248	22.1 ¹ 244	22.3 r249	21.8	23.6 ¹ 252	19.4 ¹ 240	22.2 234	21.2 222	20.4 7224	18.8 7251	15.9 243	
CONSTRUCTION COST INDEXES																
ept. of Commerce composite 1977=100	143.2	152.5	156.1	156.5	156.0	156.3	156.5	154.9	154.3	155.1	154.8	155.1	155.8	158.4	160.6	
merican Appraisal Co., The: Average, 30 cities	2,495	2,643	2,700													
Atlanta do New York do	2,660 2,553	2,841 2,645	2,893 2,659													
San Francisco do	2,671	2,873	2,934			·····										·····
St. Louis do oeckh indexes:	2,343	2,453	2,535							••••			•••••			
Average, 20 cities:																
Apartments, hotels, office buildings 1977=100 Commercial and factory buildings do	$125.1 \\ 127.7$	$137.4 \\ 140.1$	·····	$144.1 \\ 146.3$		$\begin{array}{c}146.0\\148.5\end{array}$				154.3		153.6 155.2		154.9 156.0		
Residences do	128.9	136.0		142.1		143.1		146.1				151.2		152.5		
ngineering News-Record: Building	287.7	310.3	322.3	324.7	325.7	324.8	325.0	328.6	328.5	330.6	333.5	332.9	332.8	334.5	339.6	23
Construction do	301.4	328.9	344.0	346.8	347.8	347.2	347.3	353.0	352.9	357.9	360.0	361.0	360.9	362.3	366.0	23
ederal Highway Adm.—Highway construction:																

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SURVEY OF CURRENT BUSINESS

February	1983
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<u>S-8</u>	.	St	JRVE	Y OF	CUR	RENT	BUS	SINES	S					F	ebruar	ry 1983
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1980	1981	1981						198	32		· · ·				1983
in the 1979 edition of BUSINESS STATISTICS	Anr	nual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	CON	STRU	CTIO	N AN	D RI	EAL I	ESTA	TE—	Conti	nued				· .		
REAL ESTATE ¶										· .						
Mortgage applications for new home construction: FHA net applicationsthous. units Seasonally adjusted annual ratesdo	141.4	92.3	8.2 115	7.5 128	8.6 110	9.8 101	6.3 r74	5.2 *65	6.7 *90	8.2 '100	6.8 *102	9.8 180	11.8 *106	7.9 *143	11.3 *168	8.3 178
Requests for VA appraisals do Seasonally adjusted annual rates do	202.2	153.8	9.1 141	9.3 138	9.1 120	11.1 '119	13.6 143	13.0 '149	14.1 *157	12.3 137	11.9 '128	12.9 '154	15.7 *186	16.9 *227	15.1 "238	19.5 274
Home mortgages insured or guaranteed by: Fed. Hous. Adm.: Face amount mil. \$ Vet. Adm.: Face amount § do	16,458.53 13,855.54	10,278.14 7,905.93	593.31 357.69	443.87 327.39	606.52 393.60	585.12 421.78	547.57 374.45	$589.61 \\ 327.85$	716.28 443.89	653.80 438.90	592.51 552.50	772.41 743.54	724.61 385.69	771.21 454.78	1,083.56 563.89	914.79 630.80
Federal Home Loan Banks, outstanding advances to member institutions, end of period mil. \$	48,963	65,194	65,194	65,099	65,089	66,162	67,941	67,801	69,398	69,325	68,399	67,642	67,077	66,308	66,004	62,36
New mortgage loans of all savings and loan associations, estimated total mil. \$ By purpose of loan:	72,537	53,283	3,760	2,628	2,849	3,966	3,807	3,797 796	5,006 1,052	4,101	4,543	5,112	4,724 1,125	¹ 5,314	7,848 1.625	
Home construction do Home purchase	14,946 42,957 14,634	11,599 28,299 13,385	824 1,682 1,254	495 1,204 929	592 1,320 937	966 1,647 1,353	832 1,612 1,363	1,607 1,394	2,080 1,874	859 1,921 1,321	981 1,962 1,600	1,154 1,988 1,970	1,125 1,786 1,813	*1,194 *1,938 *2,182	2,543 3,680	
				DOM												
ADVERTISING																
Magazine advertising (Publishers Information Bureau): mill \$ Cost, total mill \$ Apparel and accessories do Automotive, incl. accessories	2,872.6 112.2 231.1	3,222.5 141.7 290.1	275.3 11.6 21.0	$211.2 \\ 7.9 \\ 20.3$	249.5 8.4 23.5	$287.8 \\ 15.1 \\ 29.6$	290.9 15.9 25.5	338.9 11.8 36.5	$262.7 \\ 5.5 \\ 17.0$	$210.7 \\ 7.6 \\ 21.2$	$211.6 \\ 13.0 \\ 20.1$	307.5 23.2 17.9	351.1 17.2 36.8	397.6 16.7 46.2	285.5 11.9 26.9	
Building materials do Drugs and toiletries do Foods, soft drinks, confectionery	52.5 280.8 211.9	56.5 318.3 231.8	3.8 23.5 20.3	2.7 20.1 10.3	2.5 27.8 21.1	4.4 27.5 18.5	5.9 30.8 26.2	6.8 34.4 21.2	4.4 28.7 22.8	3.7 22.6 20.9	3.0 23.5 15.8	6.9 30.4 22.3	5.1 30.3 26.9	4.1 28.5 34.3	2.7 24.7 20.8	
Beer, wine, liquors	239.2 139.6 71.0 30.0 290.3 1,213.9	251.8 165.4 67.5 29.6 314.5 1,355.1	37.9 13.0 4.7 1.7 25.2 112.7	$15.1 \\ 7.1 \\ 3.5 \\ 1.5 \\ 21.2 \\ 101.4$	$16.2 \\ 6.7 \\ 4.2 \\ 1.9 \\ 24.5 \\ 112.5$	$20.8 \\ 12.5 \\ 5.5 \\ 2.8 \\ 27.1 \\ 123.3$	$20.7 \\ 14.9 \\ 5.2 \\ 3.1 \\ 28.9 \\ 129.6$	22.7 19.2 8.0 3.0 32.3 143.0	$23.2 \\ 9.6 \\ 3.5 \\ 2.3 \\ 28.2 \\ 117.5$	$16.1 \\ 8.5 \\ 3.2 \\ 1.4 \\ 27.2 \\ 66.6$	12.2 6.7 3.2 1.7 31.0 82.8	$19.5 \\ 17.1 \\ 3.9 \\ 2.1 \\ 32.0 \\ 132.1$	24.3 16.0 3.7 3.2 34.2 153.1	$32.6 \\ 17.5 \\ 4.4 \\ 2.5 \\ 38.7 \\ 172.0$	34.8 10.8 2.4 1.1 32.7 116.7	
Newspaper advertising expenditures (Media Records Inc.): Total mil. \$	8,185.9	9,575.4	795.0	738.3	729.6	824.3	814.7	904.9								
Automotive do Classified do Financial do General do Retail do	182.4 2,195.6 297.3 1,121.7 4,388.9	225.6	13.2 149.1 31.7 91.7 509.4	21.6 208.4 42.6 120.6 345.0	22.5 197.3 26.0 119.1 364.7	25.8 218.5 31.3 128.8 419.9	24.1 209.2 30.6 122.8 428.0	25.0 233.6 29.4 137.8 479.0								
WHOLESALE TRADE ‡	,									. 1						
Merchant wholesalers sales (unadj.), total mil. \$ Durable goods establishments do Nondurable goods establishments do	1,055,168 448,040 607,128	1,174,072 499,970 674,102	98,565 41,012 57,553	87,340 35,404 51,936	87,470 36,578 50,892	103,912 42,482 61,430	96,622 39,675 56,947	95,748 37,908 57,840	98,549 39,582 58,967	91,642 37,348 54,294	92,666 38,383 54,283	91,904 38,647 53,257	91,461 38,704 52,757	"92,603 "38,538 "54,065	92,551 37,702 54,849	
Merchant wholesalers inventories, book value, end of year or month (unadj.), total mil. \$ Durable goods establishments do Nondurable goods establishments	104,655 65,825 38,830	111,163 72,345 38,818	111,163 72,345 38,818	111,331 71,575 39,756	110,187 71,931 38,256	111,386 73,073 38,313	113,319 75,265 38,054	111,342 74,169 37,173	112,469 75,238 37,231	112,444 76,219 36,225	111,116 75,031 36,085	112,255 75,344 36,911	114,075 75,118 38,957	^r 113,581 r73,737 r39,844	112,675 73,151 39,524	
RETAIL TRADE All retail stores: † Estimated sales (unadj.), total † mil. \$	951.902	1,038,790	106,069	76,647	75,698	86,129	87,502	90,347	88,426	90,600	89,130	87,755	90,877	¹ 93,878	r112,382	¹ 81,012
Durable goods stores #	296,594 - 49,616	326,596	29,140 3,841	21,704 3,058	23,365 3,055	3,861	27,903 4,308	29,443 4,886	28,502 4,808	28,116 4,665	27,889 4,501	27,762 4,477	27,710 4,489	'29,464 '4,133	*32,104 *3.907	¹ 24,667
Automotive dealers	162,309 43,416	180,722	13,341 4,836	$12,118 \\ 3,211$	13,912 3,143	17,068 3,552	16,506 3,451	17,329 3,477	16,225 3,647	15,996 3,715	15,880 3,676	15,828 3,577	15,788 3,677	r16,862 r4,003	15,498 5,027	¹ 14,468 13,423
Nondurable goods stores	655,308 117,227 217,047 93,624	712,194 127,494 237,586 101,665	76,929 19,888 22,019 8,555	54,943 7,442 19,966 8,110	$52,333 \\ 7,468 \\ 18,594 \\ 7,460$	58,141 9,473 20,066 7,918	59,599 10,226 20,616 7,819	60,904 10,775 21,157 8,062	59,924 10,143 20,785 8,463	62,484 10,124 22,398 8,852	61,241 10,519 20,600 8,577	59,993 10,119 20,703 8,144	63,167 11,089 21,300 8,296	"64,414 "13,243 "20,440 "8,030	*80,278 *21,230 *23,225 *8,100	¹ 56,345 ¹ 8,164 ¹ 20,287 ¹ 7,509
Apparel and accessory stores do Eating and drinking places do Drug and proprietary stores	44,426 85,842 30,504	47,755 94,070 32,999	6,676 7,888 3,837	3,302 7,279 2,590	3,168 7,259 2,575	3,729 8,129 2,802	4,038 8,464 2,829	3,934 8,889 2,833	3,649 8,934 2,827	3,812 9,428 2,827	4,130 9,427 2,802	3,919 8,812 2,764	4,157 9,204 2,855	'4, 495 '8,552 '2,921	6,874 19,146 14,044	¹ 3,341 ¹ 8,353 ¹ 2,838
Liquor stores do Estimated sales (seas. adj.), total † do	17,083	17,461	2,125 86,572	1,333 85,320	1,257 87,418	1,362 87,242	1,410 88,294	1,469 90,841	1,450 88,042	1,560 89,445	1,439 88,502	1,389 89,326	1,434 90,290	"1,439 "92,546	1,974 ¹ 91,482	 191,578
Durable goods stores #do Building materials, hardware, garden supply, and mobile home dealers #	· · · · · · · · · · · · · · · · · · ·		26,206 4,058 2,586	25,316 4,046 2,538	26,696 4,102 2,668	26,958 4,173 2,727	27,984 4,263 2,829	29,416 4,480 2,938	27,175 4,261 2,855	27,403 4,257 2,861	26,668 4,076 2,742	27,498 4,077 2,733	27,849 4,116 2,796	'30,175 '4,124 '2,776	"29,276 "4,155 2,941	¹ 28,997 ¹ 4,416
Hardware stores			783 14,497 12,819 1678	844 13,677 12,083 1,594	777 14,819 13,156 1,663	785 15,175 13,526 1,649	759 16,074 14,360 1,714	820 17,269 15,485 1 784	764 15,288 13,446 1 842	746 15,492 13,688	714 14,911 13,137 1 774	709 15,671 13,893 1 778	744 16,123 14,313 1 810	752 18,183 16,370 11,813	722 17,012 15,278	116,545 114,826
Auto and home supply storesdo Furniture, home furn, and equip. #do Furniture, home furnishings storesdo Household appliance, radio, TV			1,678 3,776 2,285 1,236	1,594 3,508 2,112 1,137	1,663 3,634 2,161 1,180	1,649 3,652 2,182 1,173	1,714 3,706 2,233 1,184	1,784 3,723 2,239 1,181	1,842 3,641 2,187 1,136	1,804 3,717 2,204 1,222	1,774 3,613 2,187 1,123	1,778 3,600 2,180 1,109	1,810 3,631 2,242 1,118	'1,813 '3,698 '2,258 '1,175	1,734 ^r 3,898 2,317 1,302	13,855
See footnotes at end of tables.			1,000	1,107	-,	-,,0	-,-\f	_,_\I	2,200	-,	-,-20	.,	-,	2,2.0	2,302	

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data	1980	1981	1981						19	82						1983
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Anı	nual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
		Ι	DOME	STIC	TRA	DE-	-Cont	inued	1							
RETAIL TRADE—Continued																
All retail stores †—Continued Estimated sales (seas. adj.)—Continued																
Nondurable goods stores mil. \$ General merch. group stores do Department stores do Variety stores do	(²)		60,366 10,774 8,728 738	60,004 10,427 8,672 707	60,722 10,735 8,890 711	60,284 10,833 8,992 760	60,310 10,700 8,861 721	61,425 11,181 9,237 759	60,867 10,795 8,923 717	62,042 11,039 9,140 746	10,895 9,003	61,828 10,838 8,924 732	62,441 10,891 9,004 736	r62,371 r11,085 r9,068 r741	r62,206 r11,499 r9,413 756	¹ 62,5' ¹ 11,60 ¹ 9,5
Food stores do Grocery stores do Gasoline service stations do	••••••		20,487 18,950 8,521	20,213 18,666 8,628	20,390 18,737 8,363	20,340 18,798 8,047	20,555 19,026 7,827	20,984 19,390 7,935	20,648 19,017 8,075	20,990 19,361 8,257	21,067 19,428 8,138	21,070 19,469 8,177	21,157 19,578 8,206	'21,086 '19,481 '8,211	"21,060 "19,604 "8,028	¹ 21,0 ¹ 19,4 ¹ 8,0
Apparel and accessory stores #do Men's and boys' clothingdo Women's clothing, spec. stores, furriers do Shoe storesdo			3,984 627 1,471 750	3,947 568 1,534 722	4,334 618 1,661 786	4,196 619 1,599 781	4,017 633 1,562 700	4,233 679 1,641 759	4,001 644 1,542 707	4,175 660 1,595 754	4,082 611 1,556 746	4,007 654 1,503 741	4,019 631 1,557 714	4,120 *634 *1,609 *730	*4,089 640 1,606 725	¹ 4,0
Eating and drinking placesdo Drug and proprietary storesdo Liquor storesdo	••••••	·····	7,880 2,801 1,500	7,973 2,690 1,466	8,431 2,827 1,465	8,329 2,880 1,495	8,364 2,852 1,519	8,514 2,882 1,496	8,549 2,920 1,453	8,697 2,905 1,468	8,777 2,892 1,449	8,699 2,950 1,448	9,050 2,943 1,463	'9,059 '2,962 '1,442	'9,046 '2,920 1,385	19,24 12,99
Estimated inventories, end of year or month: † Book value (unadjusted), total	111,104 52,991 9,197 24,708 8,346	122,236 57,994 9,390 28,211 8,847	122,236 57,994 9,390 28,211 8,847	119,899 57,454 9,372 28,249 8,663	120,063 56,869 9,657 27,384 8,605	123,374 57,842 9,795 28,097 8,630	123,540 57,780 9,970 27,624 8,630	122,399 57,319 9,997 27,207 8,688	124,049 58,419 9,951 28,483 8,772	124,371 58,462 9,868 28,762 8,738	125,253 57,935 9,804 27,657 8,939	129,065 59,131 9,638 28,179 9,156	'133,667 '60,146 '9,749 '28,507 '9,356	134,259 59,995 9,905 27,978 9,331		
Nondurable goods stores #	58,113 19,811 14,835 12,660 9,041	,64,242 22,515 16,897 13,825 9,574	64,242 22,515 16,897 13,825 9,574	62,445 22,113 16,600 13,573 9,249	63,194 22,575 16,882 13,724 9,565	65,532 24,016 18,025 13,907 10,054	65,760 24,411 18,395 13,907 9,945	65,080 24,070 18,069 13,825 9,882	65,630 24,324 18,039 14,009 9,837	65,909 24,686 18,128 13,702 9,963	67,318 25,435 18,722 13,586 10,533	69,934 26,781 19,760 13,830 10,976	"73,521 "28,890 "21,511 "14,461 "11,247	74,264 28,963 21,718 14,929 11,193		
Book value (seas. adj.), totaldo Durable goods stores #do Building materials and supply storesdo Automotive dealersdo Furniture, home furn., and equipdo	114,114 53,747 9,610 24,488 8,542	125,693 58,835 9,822 27,987 9,074	125,693 58,835 9,822 27,987 9,074	124,131 57,807 9,652 27,695 8,968	$\substack{123,395\\56,957\\9,638\\27,006\\8,826}$	123,332 56,803 9,500 27,068 8,708	$\substack{123,175\\56,663\\9,587\\26,716\\8,604}$	$\substack{122,367\\55,984\\9,734\\25,911\\8,679}$	124,351 57,346 9,785 27,414 8,728	124,939 58,246 9,878 28,337 8,791	127,151 60,075 9,863 29,803 8,886	129,073 61,628 9,745 30,931 9,056	*128,628 *60,708 *9,857 *30,008 *8,996	126,587 59,095 10,066 28,232 9,050		
Nondurable goods stores #	60,367 21,810 16,213 12,535 9,388	66,858 24,821 18,487 13,702 9,952	66,858 24,821 18,487 13,702 9,952	66,324 24,666 18,465 13,766 10,097	66,438 24,611 18,470 14,018 10,197	$\begin{array}{c} 66,529 \\ 24,689 \\ 18,506 \\ 13,824 \\ 10,301 \end{array}$	66,512 24,620 18,469 13,893 10,200	66,383 24,444 18,270 13,979 10,177	67,005 24,751 18,370 14,165 10,236	66,693 24,929 18,442 13,896 10,115	67,076 25,109 18,629 13,835 10,296	67,445 25,018 18,589 13,956 10,325	"67,920 "25,611 "19,138 "13,999 "10,132	67,492 25,308 18,787 14,272 10,021	······	
irms with 11 or more stores: Estimated sales (unadjusted), total mil. \$	338,028	372,443	44,821	27,194	26,138	30,277	31,360	32,205	31,268	32,491	31, 9 14	31,507	r33,278	35,558		
Durable goods stores do Auto and home supply stores do	25,023 3,606	27,216 3,846	3,447 345	1,710 275	1,718 259	2,115 323	2,205 352	2,370 346	2,368 359	2,387 370	2,305 348	2,320 345	r2,347 359	2,572 364		
Nondurable goods stores # do General merchandise group stores do Food stores do Grocery stores. do Apparel and accessory stores do Eating places. do Drug stores and proprietary stores do	313,005 105,982 115,059 113,630 17,066 18,237 16,137	345,227 116,115 127,517 125,629 18,798 20,125 17,769	41,374 18,270 12,064 11,790 2,790 1,705 2,254	25,484 6,753 10,934 10,797 1,160 1,579 1,394	24,420 6,814 10,086 9,929 1,137 1,512 1,374	28,162 8,715 10,923 10,779 1,477 1,750 1,524	$\begin{array}{r} 29,155\\9,401\\11,204\\11,031\\1,666\\1,804\\1,535\end{array}$	$\begin{array}{r} 29,835\\9,931\\11,321\\11,175\\1,606\\1,925\\1,550\end{array}$	28,900 9,334 11,038 10,889 1,458 1,926 1,518	30,104 9,279 12,046 11,886 1,534 2,014 1,554	29,609 9,686 10,928 10,778 1,776 2,011 1,521	$\begin{array}{r} 29,187\\ 9,290\\ 11,201\\ 11,057\\ 1,611\\ 1,856\\ 1,507\end{array}$	r30,931 r10,179 r11,521 r11,381 r1,729 r1,977 r1,551	32,986 12,296 11,124 10,983 1,935 1,860 1,612		
Estimated sales (sea. adj.), total # do Auto and home supply storesdo Department storesdo Variety stores	(²)		$31,827 \\ 320 \\ 8,407 \\ 580 \\ 10,927$	31,311 329 8,330 550 10,733	31,951 339 8,539 563 10,863	32,044 337 8,668 598 10,910	31,789 329 8,517 586 10,987	32,737 341 8,914 619 11,130	32,362 332 8,626 571 11,044	32,932 348 8,830 602 11,140	$32,651 \\ 338 \\ 8,680 \\ 604 \\ 11,321$	32,768 344 8,632 587 11,225	"32,716 341 "8,699 "587 "11,213	33,066 350 8,766 586 11,253		
Apparel and accessory storesdo Women's clothing, spec. stores, furriers do Shoe storesdo Drug stores and proprietary storesdo			1,591 655 366 1,489	1,598 674 358 1,488	1,710 718 368 1,561	1,664 697 365 1,611	1,614 676 342 1,547	1,724 713 388 1,578	1,614 679 353 1,588	1,740 713 379 1,604	1,680 700 357 1,575	1,631 670 349 1,640	"1,664 "704 348 "1,640	1,736 729 367 1,638		
	LAB	OR FC	RCE,	EMF	PLOY	MEN	T, Al	ND E	ARNI	INGS						
POPULATION OF THE UNITED STATES																
otal, incl. armed forces overseas ‡mil LABOR FORCE	°227.66	³229.81	230.84	231.01	231.18	231.32	231.48	231.63	231.81	231.99	232.22	232.43	232.63	232.84	233.01	233.2
Not Seasonally Adjusted abor force, total, persons 16 years of age																
and overthous Armed forces do Civilian labor force, total do Employed do Unemployed do	109,042 2,102 106,940 99,303 7,637	110,812 2,142 108,670 100,397 8,273	110,738 2,164 108,574 99,562 9,013	2,159	110,492 2,168 108,324 97,946 10,378	110,936 2,175 108,761 98,471 10,290	110,990 2,176 108,814 98,858 9,957	2,175 109,914	$\substack{113,742\\2,173\\111,569\\100,683\\10,886}$	114,706 2,180 112,526 101,490 11,036	2,196 111,887 101,177	2,198	112,955 2,188 110,767 99,825 10,942	113,035 2,180 110,855 99,379 11,476	°112,659 °2,182 110,477 98,849 11,628	111,9 2,1 109,7 97,2 12,5
Seasonally Adjusted ¶ Civilian labor force, total	63.8	63.9	109,066 63.7 99,677	63.6 99,688	109,364 63.8 99,695	109,478 63.8 99,597	63.9 99,484	64.2 99,994	110,147 64.0 99,681	110,416 64.1 99,588	110,614 64.1 99,683	110,858 64.2 99,543	110,752 64.1 99,176	111,042 64.2 99,136	111,129 64.2 99,093	110,5 65 99,1
Employment-population ratio * percent Agriculture	58.5 3,364 95,938	58.3 3,368 97,030	57.5 3,219 96,458 9,389	57.5 3,379 96,309 9,346	57.4 3,367 96,328 9,669	57.3 3,367 96,230 9,881	57.2 3,356 96,128 10,256	57.4 3,446 96,548 10,384	57.2 3,371 96,310 10,466	57.1 3,445 96,143 10,828	57.1 3,429 96,254 10,931	56.9 3,363 96,180 11,315	56.6 3,413 95,763 11,576	56.6 3,466 95,670 11,906	56.5 3,411 95,682 12,036	57 3,4 95,69 11,4
Long term, 15 weeks and over do	1,871	2,285	2,407	2,402	2,750	2,962	3,080	3,267	3,517	3,569	3,637	3,856	4,167	4,524	4,732	4,6

See footnotes at end of tables.

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SURVEY OF CURRENT BUSINESS

February 1983

S-10		່ວເ	JULVE	Y OF	CUR.	LEIN I	DUS	DINES						F	ebruar	ry 1983
Unless otherwise stated in footnotes below, data	1980	1981	1981		- Pro				198	32						1983
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.
LABO	DR FO	RCE,	EMP	LOYN	IENI	r, an	D EA	RNI	NGS-	-Con	tinue	d				
LABOR FORCE—Continued Seasonally Adjusted ¶ Civilian labor force—Continued Unemployed—Continued Rates (unemployed in each group as percent of civilian labor force in the group): §															-	
All civilian workers Men, 20 years and over Women, 20 years and over Both sexes, 16-19 years	7.1 5.9 6.4 17.8	7.6 6.3 6.8 19.6	8.6 7.6 7.4 21.4	8.6 7.6 7.2 21.7	8.8 7.7 7.6 22.3	9.0 8.0 7.9 21.9	9.3 8.3 8.1 22.8	9.4 8.3 8.2 22.9	9.5 8.7 8.1 22.5	9.8 8.9 8.3 23.9	9.9 9.0 8.3 23.8	10.2 9.6 8.4 23.8	10.5 9.8 8.7 24.1	10.7 10.0 9.0 24.2	10.8 10.1 9.2 24.5	10. 9. 9. 22.
White Black and other Married men, spouse present Married women, spouse present Women who maintain families	6.3 13.1 4.2 5.8 9.2	6.7 14.2 4.3 6.0 10.4	7.6 15.7 5.6 6.6 10.3	7.6 15.5 5.3 6.3 10.4	7.716.05.46.910.4	7.9 16.6 5.6 7.0 10.8	8.3 16.8 6.0 7.6 11.5	8.4 17.1 6.1 7.3 11.9	8.4 17.1 6.4 7.1 12.1	8.7 17.4 6.6 7.4 12.0	8.7 17.7 6.8 7.3 11.7	9.1 18.1 7.2 7.6 12.4	9.3 18.4 7.5 7.9 11.3	9.6 18.5 7.6 8.2 12.5	9.7 18.8 7.8 8.2 13.2	7.
Occupation: White-collar workers Blue-collar workers Industry of last job (nonagricultural): Private wage and salary workers	3.7 10.0 7.4	4.0 10.3 7.7	4.5 12.6 9.0	4.3 12.4 8.8	4.6 12.5 9.0	4.7 13.0 9.4	4.8 13.5 9.8	4.8 13.6 9.8	4.9 14.0 10.0	4.9 14.4 10.2	4.9 14.4 10.2	4.9 15.5 10.7	5.2 15.8 11.0	5.5 16.2 11.4	5.6 16.3 11.6	(1) (1) 10.
Construction Manufacturing Durable goods EMPLOYMENT †	14.1 8.5 8.9	15.6 8.3 8.2	18.0 10.8 11.6	18.5 10.3 10.9	18.3 10.6 11.2	18.2 10.7 10.8	19.3 11.3 11.9	18.9 11.5 12.2	19.5 12.2 13.1	20.3 12.1 12.8	20.4 12.4 13.3	22.0 13.6 14.9	22.3 14.1 16.0	21.8 14.8 17.0	22.0 14.8 17.1	20. 13. 14.
Employees on payrolls of nonagricultural estab.: Total, not adjusted for seasonal variationthous Private sector (excl. government) do Seasonally Adjusted †	90,406 74,165	91,105 75,081	91,437 75,329	89,269 73,407	89,413 73,328	89,679 73,503	89,984 73,830	90,455 74,295	90,570 74,599	89,238 74,230	* 89,058 74,180	*89,520 74,129	*89,533 73,689	"89,487 "73,505	*89,327 *73,378	₽87,69 ₽72,02
Total employees, nonagricultural payrollsdo do Private sector (excl. government) do Nonmanufacturing industries do Goods-producing do Mining do Construction do	$\begin{array}{r} 90,406 \\ 74,165 \\ 53,880 \\ 25,658 \\ 1,027 \\ 4,346 \end{array}$	$\begin{array}{r} 91,105\\75,081\\54,908\\25,481\\1,132\\4,176\end{array}$	90,642 74,725 55,049 24,908 1,206 4,026	90,460 74,596 55,079 24,684 1,201 3,966	90,459 74,609 55,155 24,631 1,203 3,974	90,304 74,445 55,126 24,450 1,197 3,934	90,083 74,231 55,062 24,289 1,182 3,938	90,166 74,313 55,198 24,255 1,152 3,988	89,839 74,007 55,077 23,994 1,124 3,940	89,535 73,900 55,087 23,840 1,100 3,927	⁷ 89,313 73,640 54,968 23,657 1,086 3,899	*89,264 73,504 54,932 23,530 1,075 3,883	r88,877 73,118 54,793 23,239 1,058 3,856	r88,750 r72,996 r54,815 r23,081 r1,046 r3,854	r88,535 r72,779 r54,650 r22,975 r1,034 r3,812	P88,87 P73,20 P55,04 P23,11 P1,02 P3,92
Manufacturing do Durable goods do Lumber and wood products do Furniture and fixtures do Stone, clay and glass products do Primary metal industries do Fabricated metal products do Machinery, except electrical do Electric and electronic equipment do Transportation equipment do Miscellaneous manufacturing do	20,285 12,187 690 465 662 1,142 1,613 2,494 2,090 1,899 711 418	$\begin{array}{c} 20,173\\ 12,117\\ 668\\ 467\\ 638\\ 1,121\\ 1,592\\ 2,507\\ 2,092\\ 1,892\\ 726\\ 410 \end{array}$	$19,676 \\ 11,724 \\ 615 \\ 457 \\ 610 \\ 1,053 \\ 1,529 \\ 2,486 \\ 2,049 \\ 1,791 \\ 725 \\ 409 \\ 1,91 \\ 1,25 \\ 1,100 $	$19,517 \\ 11,622 \\ 607 \\ 452 \\ 596 \\ 1,038 \\ 1,515 \\ 2,459 \\ 2,055 \\ 1,777 \\ 720 \\ 403 \\$	19,454 11,575 611 449 596 1,024 1,505 2,446 2,446 2,446 2,048 1,778 718 400	19,319 11,490 607 446 590 1,007 1,496 2,419 2,038 1,774 716 397	19,169 11,375 615 443 976 1,481 2,389 2,034 1,748 713 392	19,115 11,332 617 443 586 945 1,472 2,377 2,377 2,374 1,755 713 390	18,930 11,203 615 442 580 926 1,452 2,322 2,026 1,745 708 387	18,813 11,133 614 439 579 906 1,446 2,274 2,018 1,759 708 390	18,672 10,993 614 443 574 889 1,427 2,230 2,230 2,011 1,719 702 384	$\begin{array}{c} 18,572\\ 10,900\\ 616\\ 439\\ 571\\ 865\\ 1,414\\ 2,208\\ 1,995\\ 1,709\\ 701\\ 382 \end{array}$	$\begin{array}{c} 18,325\\ 10,666\\ 614\\ 434\\ 565\\ 831\\ 1,381\\ 2,142\\ 1,969\\ 1,658\\ 694\\ 378\end{array}$	"18,181 "10,550 "616 "435 556 "813 "1,365 "2,108 "1,963 "1,963 "1,963 "1,963 "1,963 "374	*18,129 *10,523 *621 435 *552 806 *1,359 *2,087 *1,949 *1,949 *1,949 *1,960 *683 *371	P18,15 P10,54 P62 P43 P55 P81 P1,36 P1,95 P1,66 P1,66 P37
Nondurable goods do	8,098 1,708 68 847 1,263 692 1,252 1,107 1,107 197 726 232	8,056 1,674 69 822 1,244 687 1,265 1,107 215 736 233	7,952 1,661 68 794 1,222 677 1,276 1,276 1,100 214 716 224	7,895 1,657 69 780 1,201 674 1,275 1,095 210 712 222	7,879 1,663 68 777 1,201 670 1,276 1,276 1,093 208 708 215	7,829 1,658 68 760 1,186 668 1,278 1,088 207 703 213	$7,794 \\ 1,643 \\ 67 \\ 773 \\ 1,165 \\ 664 \\ 1,274 \\ 1,082 \\ 206 \\ 706 \\ 214$	$\begin{array}{c} 7,783\\ 1,652\\ 67\\ 759\\ 1,165\\ 661\\ 1,274\\ 1,079\\ 207\\ 708\\ 211\end{array}$	$7,727 \\ 1,637 \\ 67 \\ 741 \\ 1,161 \\ 658 \\ 1,269 \\ 1,073 \\ 205 \\ 704 \\ 212 \\$	$7,680 \\ 1,643 \\ 65 \\ 741 \\ 1,126 \\ 657 \\ 1,267 \\ 1,267 \\ 1,068 \\ 205 \\ 700 \\ 208 $	7,679 1,628 65 737 1,145 653 1,269 1,070 205 699 208	209	7,6591,644637351,1416501,2681,061208684205	r7,631 r1,644 61 r726 r1,134 652 1,266 r1,059 206 r678 205	"7,606 "1,631 "65 "725 "1,129 650 "1,266 1,055 206 "678 "201	P7,61 P1,63 P64 P71 P1,13 P64 P1,27 P1,05 P20 P68 P20
Service-producing do Transportation and public utilities do Wholesale and retail trade do Wholesale trade do Retail trade do Finance, insurance, and real estate do Government do Federal do State and local do	$\begin{array}{r} 64,748\\ 5,146\\ 20,310\\ 5,275\\ 15,035\\ 5,160\\ 17,890\\ 16,241\\ 2,866\\ 13,375\end{array}$	65,625 5,157 20,551 5,359 15,192 5,301 18,592 16,024 2,772 13,253	65,734 5,128 20,524 5,357 15,167 5,331 18,834 15,917 2,756 13,161	65,776 5,125 20,630 5,346 15,284 5,326 18,831 15,864 2,741 13,123	65,828 5,115 20,670 5,343 15,327 5,326 18,867 15,850 2,737 13,113	65,854 5,100 20,655 5,336 15,319 5,336 18,904 15,859 2,736 13,123	65,794 5,094 20,584 5,323 15,261 5,335 18,929 15,852 2,730 13,122	65,911 5,101 20,652 5,331 15,321 5,342 18,963 15,853 2,728 13,125	65,845 5,078 20,595 5,307 15,288 5,352 18,988 15,832 2,739 13,093	65,695 5,044 20,615 5,299 15,316 5,359 19,042 15,635 2,737 12,898	*65,656 5,025 20,550 5,278 15,272 5,360 19,048 *15,673 *2,740 12,933	*65,734 5,031 20,492 5,272 15,220 5,367 19,084 *15,760 *2,731 13,029	*65,638 5,007 20,441 5,254 15,187 5,357 19,074 *15,759 *2,740 13,019	r4,992 r20,425 r5,228 r15,197 r5,363 r19,135 r15,754 r2,745	^{765,560} 74,984 720,306 75,204 715,102 75,373 719,141 715,756 72,761 712,995	P4,97 P20,54 P5,20 P15,34 P5,40 P19,17 P15,66 P2,75
Production or nonsupervisory workers on private nonagric. payrolls, not seas. adjusted thous Manufacturing	60,331 14,214	60,881 14,021	61,007 13,515	59,135 13,200	59,094 13,168	59,257 13,093	59,562 12,971	60,027 12,958	60,284 12,931	59,931 12,618	59,868 12,674	59,868 12,773	59,478 12,493	r59,305 r12,313	"59,211 "12,192	₽57,88 ₽12,06
Broduction or nonsupervisory workers on private nonagricultural payrolls †	$\begin{array}{c} 60,331\\ 18,442\\ 762\\ 3,421\\ 14,214\\ 8,442\\ 578\\ 376\\ 513\\ 878\\ 1,195\\ 1,602\\ 1,328\\ 1,233\\ 426\\ 313\end{array}$	$\begin{array}{c} 60,881\\ 18,245\\ 832\\ 3,250\\ 14,021\\ 556\\ 376\\ 491\\ 1,173\\ 1,585\\ 1,312\\ 1,216\\ 1,216\\ 428\\ 304 \end{array}$	60,401 17,478 883 3,107 13,488 7,885 503 364 465 795 1,110 1,552 1,257 1,115 423 301	420	60,282 17,225 876 3,059 13,290 7,759 502 356 452 770 1,089 1,514 1,258 1,108 418 292	60,132 17,073 871 3,023 13,179 7,685 497 3533 446 756 1,081 1,490 1,248 1,109 415 290	59,923 16,922 863 3,017 13,042 7,576 507 3500 441 727 1,069 1,460 1,241 1,086 411 284	60,025 16,917 835 3,074 13,008 7,553 507 350 444 702 1,063 1,454 1,240 1,098 412 283	59,759 16,686 805 3,029 12,852 7,443 506 349 438 686 1,408 1,408 1,233 1,089 2,817 2,917 2	$59,670 \\ 16,564 \\ 782 \\ 3,022 \\ 12,760 \\ 7,388 \\ 505 \\ 346 \\ 438 \\ 669 \\ 1,043 \\ 1,366 \\ 1,221 \\ 1,112 \\ 1,112 \\ 406 \\ 282 \\$	59,388 16,414 770 2,997 12,647 7,272 506 3500 435 657 1,027 1,328 1,215 1,075 402 277	16,308 763 2,979 12,566 7,191 507 346 433 638 1,017 1,309 1,202 1,064	58,929 16,037 746 2,956 12,335 6,979 505 3422 427 607 989 1,250 1,180 1,014 392 273	^{r58,788} 15,895 ^{r739} r2,953 r12,203 r6,874 ^{r508} r3420 r591 <u>r975</u> 1,221 r1,171 r1,171 r990 387 269	*58,613 *15,811 *726 *2,912 12,173 *6,857 *6,857 *513 343 *416 *587 *972 *1,206 *1,159 *1,012 *1,012 *383 *286	P15,94 P71 P3,01 P12,200 P6,88 P52 P34 P41 P59 P98 P1,19 P1,16 P1,02 P38

SURVEY OF CURRENT BUSINESS

February 1983				1 01	CON	ICTOIN I	BUS	TTA TW	ю 							- <u>9</u> -11
Unless otherwise stated in footnotes below, data		1981	1981						19	82						1983
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	r, An	D EA	RNI	NGS-	-Con	tinue	d		L		F
EMPLOYMENT †Continued						-								[
Seasonally Adjusted † Production or nonsupervisory workers—Continued																
Nondurable goodsthous. Food and kindred products do	5,772	5,721 1,151	$5,603 \\ 1,140$	5,548 1 135	5,531 1,142	5,494 1,138	5,466 1,125	5,455 1,133	5,409	$5,372 \\ 1,129$	$5,375 \\ 1,115$	5,375	5,356 1,128	5,329 1,128	⁺ 5,316 +1,118	₽5,32 ₽1,12
Tobacco manufactures	54	54 712	53 683	1,135 54 670	53 667	53 651	52 662	52 650	1,121 52 633	51 634	51 630	1,116 49 631	48 631	46 622	,110 50 622	°5 °61
Apparel and other textile products do Paper and allied products do	. 1,079	1,059 518	1,036 506	$1,018 \\ 504$	1,018 501	1,006 499	987 496	985 493	982 489	949 489	967 487	966	963 484	1956 485	1952 1484	₽95 ₽48
Printing and publishing do Chemicals and allied products do	. 699	698 627	700 616	699 612	699 609	701 609	698 602	699 600	696 595 122	694 591	695 593	695 592 126 535	694 588	693 588	¹ 694 587	₽69 ₽58
Petroleum and coal products do Rubber and plastics products, nec do Leather and leather products do	. 559	135 569 197	131 548 190	125 544 187	124 538 180	124 534 179	123 541 180	123 543	542	122 541	122 540	126 535 173	125 525 170	517	124 517	P12 P51
Service-producing do	41,933	42,778	42,923	42,997	43,057	43,059	43,001	177 43,108	177 43,073	172 43,106	175 42,974	42,995	42,892	r42,893	168 ⁻ 42,802	₽16 ₽43,05
Transportation and public utilities do Wholesale and retail trade do	. 17,812	4,277 17,960	4,241 17,920	4,241 18,011	4,232 18,061	4,217 18,051	4,209 17,996	4,212 18,065	4,194 18,014	4,165 18,037	4,142 17,941	4,155 17,889	4,129 17,841	74,113 17,803	⁴ ,111 17,707	°4,09 °17,93
Wholesale trade do Retail trade do Finance, insurance, and real estate do	4,312 13,500 3,907	4,360 13,600 4,002	4,348 13,572 4,014	4,332 13,679 4,007	4,327 13,734 4,003	4,317 13,734 4,004	4,301 13,695 3,999	4,309 13,756 3,998	4,287 13,727 4,012	4,282 13,755 4,013	4,260 13,681 4,006	4,253 13,636 4,014	$4,237 \\ 13,604 \\ 4,001$	r4,209 r13,594 r4,005	"4,191 "13,516 "4,010	P4,194 P13,734 P4,022
Services do	15,921	16,539	16,748	16,738	16,761	16,787	16,797	16,833	16,853	16,891	16,885	16,937	16,921	16,972	16,974	P17,00
AVERAGE HOURS PER WEEK † Seasonally Adjusted													i			
Avg. weekly hours per worker on private nonagric. payrolls: 1 Not seasonally adjusted hours.	35.3	35.2	35.2	33.9	34.8	34.7	34.6	34.8	35.0	35.2	35.2	34.8	34.7	34.7	r35.0	₽ 34 .7
Seasonally adjusted do Mining ‡ do	43.3		35.0 44.8	$34.4 \\ 42.9$	35.0 43.6	34.9 43.8	34.9 42.7	35.0 42.6	34.9 42.8	34.9 42.5	34.8 42.4	34.8 41.9	34.7 41.9	34.7 41.6	'34.8 '42.0	P35.2 P42.3
Construction ‡ do Manufacturing:	. 37.0	36.9	37.1	33.3	35.9	37.0	36.7	37.5	37.5	38.0	37.6	36.9	·37.1	36.1	⁻ 36.8	₽36.8
Not seasonally adjusteddo Seasonally adjusteddo Overtime hoursdo	. 39.7 	39.8 2.8	39.9 39.1 2.4	$37.1 \\ 37.6 \\ 2.3$	39.2 39.4 2.4	39.1 39.0 2.3	38.7 39.0 2.4	39.0 39.1 2.3	39.3 39.2 2.4	38.9 39.2 2.4	39.0 39.0 2.4	38.9 38.8 2.3	39.0 38.8 2.3	39.3 38.9 2.3	39.7 38.9	₽39.1 ₽39.7
Durable goods do	. 40.1	40.2	39.5	1	39.8	39.5	39.5	39.6	39.7	39.7	39.4	38.9	39.0	39.2	2.3 39.2	°2.3 °40.1
Overtime hoursdo Lumber and wood productsdo Furniture and fixturesdo	2.8 38.5 38.1	2.8 38.7	2.3 37.7 37.9	38.2 2.2 35.0	2.2 37.9	2.2 37.6	2.2 37.6	2.2 38.5	2.3 38.7	2.2 38.6	2.2 38.2	2.1 38.5	2.0 38.0	2.1 *38.5	2.1 38.5	₽2.1 ₽40.6
Stone, clay, and glass products	. 40.8 . 40.1	38.4 40.6 40.5	39.7 39.2	33.6 38.6 38.3	37.7 40.1 39.4	37.3 40.0 38.8	37.4 40.0 38.5	37.5 40.2 38.5	37.8 40.4 38.9	37.6 40.6 38.9	37.9 40.3 38.8	37.4 40.2 37.8	37.5 40.2 38.0	37.6 40.2 38.2	"37.6 "40.0 "38.8	P39.0 P41.5 P39.0
Fabricated metal products do Machinery, except electrical do	. 40.4 . 41.0	40.3 40.9	39.5 40.4	38.1 39.3	39.7 40.7	39.5 40.2	39.4 40.1	39.5 39.8	39.4 39.6	39.5 39.8	39.2 39.5	38.8 39.0	38.9 39.2	*39.0 39.2	"39.2 39.3	P39.€ P39.7
Electric and electronic equipment do Transportation equipment do	. 39.8 . 40.6	39.9 40.9	39.5 39.7	38.3 39.0	39.8 40.5	39.4 40.4	39.3 41.1	39.4 41.1	39.5 41.6	39.8 41.0	39.3 40.5	38.8 39.8	39.0 40.1	39.2 40.8	39.3 *39.9	≥39.9 ≥41.3
Instruments and related products do Miscellaneous manufacturing do	. 40.5 . 38.7	40.4 38.8	39.0 38.5	39.0 37.3	39.9 38.6	39.9 38.6	39.9 38.5	40.2 38.7	40.2 38.6	40.1 38.7	$\frac{40.1}{38.6}$	39.8 38.3	39.4 38.6	'39.2 38.6	¹ 39.6 138.5	₽40.4 ₽39.1
Nondurable goodsdo Overtime hoursdo	. 39.0 2.8	39.1 2.8	38.6 2.6 39.8	36.8 2.5	38.9 2.6	$38.5 \\ 2.5$	38.4 2.6	38.5 2.5	38.6 2.5	38.6 2.6	38.5 2.6	38.6 2.6	38.5 2.6	38.5 2.5	38.5 2.5	°39.2 °2.5
Food and kindred products do Tobacco manufactures ‡	. 39.7 . 38.1	39.7 38.8	38.1	39.1 36.1	40.2 38.3	39.5 37.3	39.4 36.6	39.4 37.2	39.5 38.4	39.5 36.8	39.1 38.1	39.4 39.7	39.7 39.0	r39.4 38.0	39.2 *38.0	P39.2 P36.7
Textile mill products do Apparel and other textile products do	40.1 35.4	39.6 35.7	37.8 35.1	32.3 31.4	38.3 35.5	37.6 35.0	37.7 34.7	37.9 34.8	37.8 35.1	37.7 35.2	38.2 35.0	38.1 35.2	38.2 35.0	r38.6 r35.1	'38.4 35.0	°40.3 °36.6
Paper and allied products do Printing and publishing	. 37.1	42.5 37.3	41.8 37.1	41.3 36.9	42.3 37.4	41.8 37.1	$\begin{array}{c} 42.1\\ 37.1 \end{array}$	41.8 36.8	42.0 37.1	41.9 37.0	41.7 36.8	41.5 37.0	41.7 36.9	'41.6 37.1	'41.5 '37.1	₽41.7 ₽37.5
Chemicals and allied products do Petroleum and coal products do Rubber and plastics products, nec do	41.5 41.8 40.0	41.6 43.2 40.3	41.3 42.7 39.4	41.0 44.3 37.9	$41.2 \\ 43.5 \\ 40.0$	40.7 43.5 39.6	40.7 44.0 39.8	41.0 44.1	41.0 44.1 40.1	40.9 43.3	40.9 43.9	41.2 44.0	40.8 43.3	40.6 543.9	'41.0 '44.5	P41.2 P45.3
Leather and leather products do	. 36.7	36.8	36.1	34.1	35.6	35.8	35.6	39.9 35.6	35.7	40.2 36.1	39.7 36.0	39.6 35.7	39.0 35.2	r39.3 r35.9	"39.7 "35.5	₽40.3 ₽36.2
Transportation and public utilities ‡do Wholesale and retail tradedo Wholesale trade	39.6 32.2 38.5	39.4 32.2 38.6	39.3 32.0 38.4	38.5 31.7 38.1	39.2 32.0 38.5	39.0 31.9	38.8 31.8	38.8 32.0	39.2 31.9	39.2 31.9	39.3 31.9	38.8 32.1	38.8 31.9	739.0 31.8	r39.1 r32.1	₽38.5 ₽32.2
Retail trade	30.2 36.2	30.1 36.3	29.9 36.2	29.7 36.2	29.9 36.2	38.4 29.8 36.3	38.3 29.8 36.2	38.5 30.0 36.3	38.6 29.8 36.1	38.5 29.9 36.2	38.5 29.9 36.3	38.4 30.1 36.1	38.3 29.9 36.2	38.4 29.8 36.2	r38.4 r30.2 r36.2	₽38.6 ₽30.3 ₽36.5
Services	32.6	32.6	32.6	32.5	32.6	32.6	32.7	32.7	32.7	32.6	32.6	32.8	32.6	32.6	*32.6	₽32.8
Seasonally Adjusted										с.						
Employee-hours, wage & salary workers in non- agric. establish, for 1 week in the month,							1									
seas adj. at annual rate bil. hours. Total private sector do	169.39 137.55	169.96 139.05	$168.66 \\ 137.41$	165.66 136.28	168.93 137.80	167.92 136.61	167.23 135.98	167.99 136.79	$166.52 \\ 135.78$	166.16 135.75	165.61 135.14	165.60 134.87	$164.35 \\ 133.69$	"163.43 "133.30	'164.14 '133.26	₽166.01 ₽135.11
Miningdo Constructiondo Manufacturingdo	2.32 8.36 41.89	2.58 8.01	2.79 7.75	2.73 7.28	2.73	2.73	2.65 7.53	2.58 7.75	2.51 7.49	2.45 7.56	2.38 7.47	2.34 7.30	2.29 7.30	"2.26 "7.31	r2.24 r7.27	₽2.30 ₽7.98
Transportation and public utilities	10.61 34.17	41.69 10.57 34.54	40.14 10.41 34.21	39.44 10.43 34.25	39.93 10.46 34.64	39.31 10.40 34.36	$38.92 \\ 10.36 \\ 34.26$	39.06 10.37 34.60	38.79 10.34 34.32	$35.58 \\ 10.27 \\ 34.48$	38.24 10.22 34.38	$37.82 \\ 10.16 \\ 34.45$	37.36 10.13 34.13	r37.06 r10.09 r33.95	'36.85 '10.08 '34.03	P37.21 P10.03 P34.53
Finance, insurance, and real estate do Services	9.74 30.45	$10.01 \\ 31.65$	$10.05 \\ 32.05$	$ \begin{array}{c} 10.03 \\ 32.11 \end{array} $	$10.01 \\ 32.27$	$10.06 \\ 32.14$	$10.05 \\ 32.21$	$10.14 \\ 32.29$	$10.09 \\ 32.24$	10.09 32.33	10.12 32.33	$10.13 \\ 32.66$	$10.08 \\ 32.41$	"10.10 "32.53	'10.14 '32.64	P10.26
Government	31.84	30.91	31.24	29.38	31.13	31.32	31.25	31.20	30.73	30.40	30.47	30.73	30.66	¹ 30.13	r30.87	₽30.89
Private nonagric. payrolls, total	107.2 102.4	108.0 100.9	106.3 96.3	104.3 91.4	106.2 95.6	105.6 93.9	$105.2 \\ 93.0$	105.7 93.3	104.9 91.9	104.8 91.4	104.1 90.0	103.9 88.7	102.8 87.2	'102.6 86.7	'102.6 '86.3	₽104.4 ₽89.4
Mining do Construction do	122.6 115.0	134.5 108.9	$145.5 \\ 104.2$	141.6 96.8	143.7 102.9	$142.6 \\ 101.1$	138.4 100.9	133.6 104.5	128.2 101.0	125.1 101.9	$121.4 \\ 100.5$	118.6 98.3	$115.2 \\ 97.2$	'113.8 '97.4	'112.1 '96.9	°114.3 °106.4
Manufacturing do Durable goods do Nondurable goods do	98.9 99.5 98.1	97.8 98.0 97.6	92.5 91.4	88.0 87.3	91.9 90.6	90.3 89.1	89.3 87.8	89.2 87.8	88.4 86.7	87.8 86.1	86.5 84.1	85.5 82.2	83.9 80.0	83.3 79.2	¹ 83.1 ¹ 78.9	₽85.0 ₽80.9
Service-producing	98.1 109.8 106.3	97.6 111.9 105.1	94.1 111.8 103.6	89.0 111.4 102.8	93.8 112.1 103.7	92.0 112.0 103.3	91.5 111.9 102.8	91.4 112.5 102.6	91.0 112.1 102.2	90.3 112.2 101.5	90.0 111.8 101.2	90.3 112.3 100.7	89.7 111.5 100.1	89.4 111.4 100.2	89.2 1111.6 99.9	₽90.9 ₽112.7 ₽99.3
Wholesale and retail trade do Wholesale trade do	105.5	105.1 106.5 111.7	105.4 111.0	102.8 105.2 109.7	106.3 110.7	105.9 110.2	105.5	102.6 106.5 110.3	102.2 105.8 110.0	101.5 106.1 109.6	101.2 105.5 109.0	100.7 105.6 108.6	100.1 104.8 107.9	*100.2 *104.3 107.4	*104.8 *107.0	P106.4
Retail trade do Finance, insurance, and real estate do	103.7 114.5	104.5 117.4	103.3 117.4	103.4 116.9	104.6 116.8	$104.2 \\ 117.1$	$103.9 \\ 117.0$	$105.1 \\ 117.9$	$104.2 \\ 117.4$	104.7 117.4	$104.2 \\ 117.2$	$104.5 \\ 117.4$	$103.6 \\ 117.0$	*103.1 *117.2	"103.9 "117.3	₽106.0 ₽118.6
Services do See footnotes at end of tables.	115.0	119.3	120.8	120.3	120.9	121.1	121.5	121.8	121.9	121.8	121.8	122.9	122.0	*122.4	'122.4	₽123.3

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SURVEY OF CURRENT BUSINESS

February 1983

Unless otherwise stated in footnotes below, data	1980	1981	1981						19	82						1983
hrough 1978 and descriptive notes are as shown n the 1979 edition of BUSINESS STATISTICS	An	1 1ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
LABC	OR FO	ORCE,	EMP	LOYN	MEN	r, an	D EA	RNI	NGS-	-Con	tinue	d				
HOURLY AND WEEKLY EARNINGS †										-						
Average hourly earnings per worker: ¶ Not seasonally adjusted: Private nonagric. payrolls dollars. Mining do Construction do Manufacturing do Durable goods do Lumber and wood products do Stone, clay, and glass products do Primary metal industries do Stone, clay, and dlarties do Electric and electronic equipment do	6.66 9.17 9.94 7.27 7.02 7.75 5.49 6.55 5.49 7.50 9.77 7.45 8.00 6.94	10.05 10.80 7.99 7.72 8.53 8.25 7.00 5.91 8.27 10.81 8.20	7.45 10.41 11.26 8.27 8.00 8.83 8.55 7.16 6.12 8.56 11.08 8.53 9.18 7.90	7.55 10.65 11.59 8.42 8.17 8.92 8.68 7.38 6.28 6.28 6.28 8.70 11.23 8.55 9.19 7.98	7.54 10.62 11.32 8.34 8.65 7.27 6.19 8.62 11.20 8.57 9.20 7.96	7.55 10.62 11.33 8.37 8.13 8.68 7.28 6.21 8.65 11.15 8.64 9.18 8.01	7.58 10.65 11.32 8.42 8.19 8.94 8.72 7.24 6.21 8.72 11.24 8.69 9.24 8.69 9.24 8.03	7.63 10.66 11.46 8.45 8.22 9.01 8.77 7.41 6.23 8.80 11.23 8.79 9.26 8.05	7.64 10.82 11.41 8.50 9.06 8.81 7.59 6.30 8.86 11.31 8.83 9.27 8.09	7.67 10.91 11.53 8.55 8.31 9.11 8.87 7.64 6.34 8.93 11.37 8.85 9.30 8.18	7.70 10.93 11.60 8.51 8.26 9.09 8.84 7.61 6.39 8.93 11.49 8.85 9.33 8.24	7.76 11.04 11.68 8.59 8.33 9.16 8.91 7.70 6.41 9.03 11.54 8.90 9.40 8.31	7.79 11.02 11.82 8.56 8.31 9.13 8.89 7.61 6.41 9.04 11.42 8.85 9.34 8.34	"7.81 "11.06 "11.66 9.17 8.92 "7.63 6.44 9.04 "11.49 8.90 "9.36 8.38	7.82 *11.05 *11.90 8.69 8.43 9.24 8.98 *7.60 *6.47 *9.08 *11.54 *8.96 9.41 *8.96	P7.8 P11.1 P11.8 P8.4 P9.2 P9.0 P7.6 P6.5 P9.0 P11.5 P9.0 P11.5 P9.4 P8.4 P9.4 P8.4 P9.4
Transportation equipment do Instruments and related products do Miscellaneous manufacturing do	9.35 6.80 5.46	10.39 7.43 5.96	10.76 7.81 6.19	10.79 7.93 6.27	10.82 7.94 6.29	10.89 8.00 6.32	10.89 8.07 6.35	11.08 8.16 6.38	$11.21 \\ 8.23 \\ 6.41$	$ \begin{array}{r} 11.25 \\ 8.31 \\ 6.40 \end{array} $	11.18 8.40 6.39	11.24 8.44 6.49	$ \begin{array}{r} 11.30 \\ 8.48 \\ 6.50 \end{array} $	'11.35 8.57 '6.56	r11.46 r8.66 r6.65	₽11.4 ₽8.7 ₽6.€
Nondurable goods do Excluding overtime do Food and kindred products do Tobacco manufactures	$\begin{array}{c} 6.55\\ 6.32\\ 6.85\\ 7.74\\ 5.07\\ 4.56\\ 7.84\\ 7.53\\ 8.300\\ 10.10\\ 6.52\\ 4.58\\ 8.87\\ 5.48\\ 6.96\\ 4.88\\ 8.87\\ 5.48\\ 5.79\\ 5.85\\ \end{array}$	$\begin{array}{c} 8.88\\ 5.52\\ 4.96\\ 8.60\\ 8.18\\ 9.12\\ 11.38\\ 7.16\\ 4.99\\ 9.70\\ 5.93\\ 7.57\\ 5.25\\ 6.31\end{array}$	$\begin{array}{c} 7.44\\ 7.207\\ 8.96\\ 5.72\\ 5.04\\ 8.96\\ 8.48\\ 9.53\\ 11.59\\ 7.38\\ 5.155\\ 5.15\\ 10.06\\ 6.02\\ 7.81\\ 5.31\\ 6.66\\ 6.66\end{array}$	$\begin{array}{c} 7.67\\ 7.42\\ 7.82\\ 9.21\\ 5.76\\ 5.18\\ 9.06\\ 8.58\\ 9.68\\ 9.68\\ 11.91\\ 7.51\\ 5.19\\ 10.10\\ 6.17\\ 7.94\\ 5.43\\ 6.56\\ 6.79\\ \end{array}$	$\begin{array}{c} 7.54\\ 7.31\\ 7.74\\ 9.56\\ 5.76\\ 5.13\\ 8.99\\ 8.56\\ 9.68\\ 9.68\\ 12.29\\ 7.49\\ 5.22\\ 10.13\\ 6.16\\ 7.94\\ 5.42\\ 5.62\\ 6.79\end{array}$	$\begin{array}{c} 7.57\\ 7.34\\ 7.79\\ 9.72\\ 5.76\\ 5.15\\ 9.03\\ 8.59\\ 9.71\\ 12.32\\ 7.45\\ 5.24\\ 10.07\\ 6.16\\ 7.93\\ 5.43\\ 6.59\\ 6.77\\ \end{array}$	$\begin{array}{c} 7.65\\ 7.43\\ 7.90\\ 10.05\\ 5.79\\ 5.18\\ 9.11\\ 8.59\\ 9.81\\ 12.50\\ 7.52\\ 5.32\\ 10.14\\ 6.18\\ 7.97\\ 5.44\\ 6.64\\ 6.81\\ \end{array}$	$\begin{array}{c} 7.66\\ 7.43\\ 7.92\\ 9.93\\ 5.16\\ 5.16\\ 9.14\\ 8.61\\ 9.83\\ 12.52\\ 7.56\\ 5.32\\ 10.17\\ 6.20\\ 8.03\\ 5.47\\ 6.77\\ 6.85\end{array}$	7.70 7.46 7.90 10.35 5.79 5.18 9.28 8.66 9.95 12.53 7.64 5.36 10.20 6.20 8.01 5.47 6.71 6.84	$\begin{array}{c} 7.77\\ 7.53\\ 7.88\\ 10.42\\ 5.81\\ 5.17\\ 9.41\\ 8.74\\ 10.02\\ 12.42\\ 7.65\\ 5.30\\ 10.29\\ 6.21\\ 8.07\\ 5.48\\ 6.78\\ 6.87\\ \end{array}$	$\begin{array}{c} 7.74\\ 7.48\\ 7.85\\ 9.53\\ 5.82\\ 5.18\\ 9.45\\ 8.79\\ 10.03\\ 12.42\\ 7.64\\ 5.33\\ 10.43\\ 6.22\\ 8.11\\ 5.48\\ 6.87\\ 6.90\end{array}$	7.84 7.56 7.911 9.57 5.86 5.20 9.63 8.90 10.20 12.62 7.76 5.41 10.46 6.26 8.14 5.52 6.90 6.99	$\begin{array}{c} 7.81\\ 7.55\\ 7.88\\ 9.50\\ 5.19\\ 9.54\\ 8.87\\ 10.24\\ 12.57\\ 7.72\\ 5.39\\ 10.24\\ 12.57\\ 7.72\\ 5.54\\ 6.30\\ 8.17\\ 5.54\\ 6.97\\ 7.05 \end{array}$	7.88 7.62 *8.00 10.16 5.92 *5.22 *9.60 8.91 *10.28 *12.69 7.79 5.41 *10.59 6.32 8.18 5.58 7.01 7.08	r7.96 r7.70 8.055 r9.78 r6.02 5.26 r9.65 r9.65 r9.65 r10.34 r12.74 r12.74 r12.74 r12.74 r1.62 6.28 r8.24 r5.25 r7.04 r7.12	P7.9 P8.0 P9.8 P6.0 P9.8 P9.6 P9.0 P10.3 P10.3 P10.6 P6.4 P8.3 P5.6 P5.6 P7.2 P7.1
Seasonally adjusted: Private nonagricultural payrolls dollars Mining do Construction do Manufacturing do Transportation and public utilities do Wholesale and retail trade do Finance, insurance, and real estate do Services do	6.66 9.17 9.94 7.27 8.87 5.48 5.79 5.85	7.25 10.05 10.80 7.99 9.70 5.93 6.31 6.41	7.46 10.41 11.22 8.20 10.02 6.08 6.47 6.65	$7.52 \\10.65 \\11.52 \\8.38 \\10.09 \\6.09 \\6.56 \\6.71$	$7.53 \\10.62 \\11.34 \\8.34 \\10.13 \\6.10 \\6.62 \\6.72$	$7.54 \\ 10.62 \\ 11.39 \\ 8.37 \\ 10.15 \\ 6.12 \\ 6.59 \\ 6.72 \\ \end{array}$	7.59 10.65 11.43 8.44 10.18 6.16 6.64 6.80	7.65 10.66 11.54 8.48 10.24 6.20 6.77 6.85	$7.67 \\10.82 \\11.51 \\8.52 \\10.30 \\6.22 \\6.71 \\6.90$	$7.71 \\10.91 \\11.56 \\8.56 \\10.30 \\6.23 \\6.78 \\6.96$	7.74 10.93 11.58 8.57 10.40 6.26 6.87 7.00	7.72 11.04 11.56 8.56 10.37 6.25 6.90 7.01	7.77 11.02 11.71 8.56 10.43 6.32 6.97 7.04	"7.79 11.07 "11.61 8.61 "10.51 6.34 7.01 7.04	7.83 11.09 11.85 8.62 10.58 6.35 7.08 7.11	P7.8 P11.1 P11.8 P8.6 P10.6 P6.3 P7.2 P7.1
ndexes of avg. hourly earnings, seas. adj.: ¶ Private nonfarm economy: Current dollars	127.3 93.5 134.2 121.9 129.4 127.2 127.8 127.0 125.5	141.9 139.4 138.2 138.1	143.5 92.3 153.4 136.6 146.9 144.3 141.7 142.0 142.6	144.9 ^r 93.1 156.2 139.9 148.9 145.5 142.1 143.1 143.4	145.0 -93.1 156.0 137.9 149.1 146.0 142.5 143.3 143.7	145.4 r93.5 156.0 138.1 149.9 146.3 142.8 143.8 143.8 143.9	146.3 93.7 156.5 138.7 150.8 146.9 143.7 144.9 145.1	147.7 r93.5 156.8 139.9 151.8 148.2 145.1 148.0 146.5	148.1 r92.9 159.6 139.7 152.5 149.1 145.2 147.2 147.3	148.9 r92.8 161.3 140.6 153.3 148.9 145.7 148.6 148.7	149.9 r93.1 161.5 140.7 154.2 150.3 146.5 150.6 149.7	150.1 93.2 163.2 140.4 154.7 149.9 146.8 151.3 149.7	150.8 93.2 162.5 142.3 154.6 151.1 147.6 152.9 150.8	 151.2 93.5 163.3 141.0 155.3 152.3 148.1 152.7 150.9 	^r 152.1 ^r 94.3 ^r 163.2 ^r 155.7 ^r 155.7 ^r 153.2 ^r 148.5 ^r 154.2 ^r 152.3	P152. P94. P163. P143. P156. P154. P154. P156. P152.
Common labor	11.73 18.42	16.78	13.69 17.72	13.78 17.89	13.83 17.99	13.83 18.00	13.85 18.07	14.15 18.39	14.15 18.40	14.45 18.70	14.56 18.98	14.64 18.99	14.64 19.01	14.77 19.26	14.86 19.34	₽14.9 ₽19.4
All workers, including piece-rate\$ per hr All workers, other than piece-ratedo Workers receiving cash wages onlydo Workers paid per hour, cash wages only Railroad wages (average, class I)do	3.66 3.59 3.82 3.67 9.92		 		 	11.09		11.29	 	11.54			11.64	12.07		
vg. weekly earnings per worker, private nonfarm: ¶ Current dollars, seasonally adjusted 1977 dollars, seasonally adjusted ‡ Spendable earnings (worker with 3 dependents): Current dollars, seasonally adjusted ‡ 1977 dollars, seasonally adjusted ‡	234.93 172.74 206.40 151.65	170.13 220.57	261.10 167.91 225.73 145.16	258.69 *166.15 (1) (1)	263.55 '169.16	263.15 *169.12	264.89 169.69	267.75 *169.78	267.68 *167.93	269.08 *167.76	269.35 167.40	268.66 •166.77	269.62 166.53	"270.31 "167.17	"272.48 "168.82	₽276.6 ₽171.5
Isoff contars, seasonally adjusted +	$\begin{array}{c} 235.10\\ 397.06\\ 367.78\\ 288.62\\ 310.78\\ 255.45\\ 351.25\\ 176.46\\ 269.97\\ 147.38\\ 209.60\\ 190.71\end{array}$	255.20 439.19 398.52 318.00 342.91 280.74 382.18 190.95 294.08 158.03	262.24 466.37 417.75 329.97 356.73 291.65 395.36 194.45 302.25 160.89 234.21 217.12	$\begin{array}{c} 255.95\\ 456.89\\ 385.95\\ 312.38\\ 336.28\\ 277.65\\ 388.85\\ 191.89\\ 300.13\\ 157.47\\ 237.47\\ 219.32 \end{array}$	262.39 463.03 406.39 326.93 352.93 291.04 397.10 194.66 303.31 159.35 239.64 220.68	$\begin{array}{c} 261.99\\ 465.16\\ 419.21\\ 327.27\\ 352.84\\ 289.93\\ 392.73\\ 194.66\\ 303.72\\ 159.64\\ 239.22\\ 220.03\\ \end{array}$	$\begin{array}{c} 262.27\\ 454.76\\ 415.44\\ 325.85\\ 350.45\\ 291.47\\ 393.43\\ 195.91\\ 304.45\\ 161.02\\ 240.37\\ 221.33\end{array}$	$\begin{array}{c} 265.52\\ 454.12\\ 429.75\\ 329.55\\ 355.90\\ 294.14\\ 394.60\\ 197.78\\ 308.35\\ 163.01\\ 245.75\\ 222.63\end{array}$	267.40 463.10 427.88 334.05 360.59 297.99 399.84 199.02 309.19 164.65 242.23 224.35	$\begin{array}{c} 269.98\\ 463.68\\ 438.14\\ 332.60\\ 357.11\\ 299.15\\ 403.37\\ 202.45\\ 312.31\\ 168.24\\ 245.44\\ 227.40 \end{array}$	271.04 463.43 436.16 331.89 356.33 299.54 409.90 202.77 313.05 168.24 249.38 227.70	270.05 462.58 430.99 334.15 357.24 304.19 405.85 200.95 312.58 166.70 249.09 228.57	$\begin{array}{c} 270.31 \\ 461.74 \\ 438.52 \\ 333.84 \\ 357.90 \\ 302.25 \\ 406.62 \\ 200.97 \\ 314.55 \\ 165.09 \\ 252.31 \\ 229.13 \end{array}$	^r 271.01 ^r 460.10 ^r 420.93 338.37 363.13 306.53 ^r 413.01 ^r 200.34 314.93 165.73 253.76 230.10	r273.70 r464.10 r437.92 344.99 370.52 r311.24 r415.24 r203.47 r318.89 r169.83 r254.85 r232.11	P273.7 P469.5 P437.1 P340.1 P365.9 P307.6 P411.5 P202.8 P318.6 P167.8 P263.1
HELP-WANTED ADVERTISING easonally adjusted index 1967=100 ee footnotes at end of tables.	129	119	109	106	103	96	88	87	85	83	78	73	76	78		

		<u> </u>	1	<u> </u>												
Jnless otherwise stated in footnotes below, data hrough 1978 and descriptive notes are as shown n the 1979 edition of BUSINESS STATISTICS		1981	1981		1	T		1	19	82	i vi	I			T	198
	Anr		Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jar
LAB	OR FC	DRCE,	EMP	LOYI	MEN'	<u>г, ал</u>	D EA	RNI	NGS-	-Con	tinue	d	· .			
WORK STOPPAGES ¶			1.1				· ·									
Vork stoppages involving 1,000 or more workers: Number of stoppages:	105															
Beginning in month or year number Workers involved in stoppages: Beginning in month or yearthous	187 795	145 729		. 2	2	3	9 36				15 42	14 390	3 40			
Days idle during month or year	20,844	16,908	146		237	352	480			36 831	786	2,126	949			
nemployment insurance programs:											н 					
Insured unemployment, all programs, average weekly # @	3,837	3,410	3,935	4,681	4,723	4,892	4,760	4,387	4,328	4,495	4,398	4,282	4,391	4,635	5,078	
State programs (excl. extended duration prov.): Initial claimsthous	25,373	23,939	3,272 3,778	3,328	2,272	2,418	2,347	1,989	2,399 3,707	2,658 3,912	2,358	2,342	2,443	⁵ 2,661	P3,066	
Insured unemployment, avg. weekly do Percent of covered employment: @@ Unadjusted	3,350 3.9	3,048 3.5		4,470	4,376 5.0		4,067	3,729		· ·	3,831	3,712	3,828			1 .
Unadjusted Seasonally adjusted Beneficiaries, average weekly thous	2,864	2,614	4.3 4.1 3,171	$5.1 \\ 4.1 \\ 3,801$	4.0 3,908		4.6 4.6 3,672	4.3 4.6 3,257		4.5 4.5 3,331	4.4 4.7 3,413	4.2 5.0 3,306		4.7 5.3 r3,446		
Benefits paid @ mil. \$	13,761.1	13,257.8	1,592.5	1,764.2	1,781.8		1,849.9		1,692.2	1,682.1	1,746.2			1,818.2		
Federal employees, insured unemployment, average weeklythous	30	32	39	· 40	40	38	33	29	28	29	27	26	28	31	33	
Veterans' program (UCX): Initial claims	267	193	11	8	8	10	.9	89	10	10	11	11	10	17	P23	
Insured unemployment, avg. weekly do Beneficiaries, average weekly do Benefits paid mil. \$	56 56 357.7	$40 \\ 41 \\ 280.7$	19 20 10.2	16 15 7.1	13 12 5.3	11 10	10 8 4.0	7	87	6 2.8	7 5 2.8	6	97		26 19	
Railroad program: Applicationsthous.	162	280.7	10.2	7.1 22	5.3	5.1 9	4.0	3.4 5	3.3 36	2.8 68	2.8 20	2.9 14	3.4 20	4.0	10.9 17	
Insured unemployment, avg. weekly do Benefits paid mil. \$	34 176.1	40 210.8	56	73 30.5	67 28.0	65	52 26.3	43 19.1	41 18.6	54 18.0	59 27.0	65 31.1	73 31.6	78 35.1	81 39.5	
				. 1	FINA		L							<u>.</u>	<u> </u>	I
BANKING									•					· .		
en market paper outstanding, end of period:				÷												
Bankers' acceptances mil. \$ Commercial and financial co. paper, total do	54,744 121,597	69,226 161,114	161,114	70,088 167,271	70,468 167,460	166,373	71,128 172,540	71,601 176,937	71,765 180,015	180,878	72,709	73,818 171,627	$75,811 \\ 170,365$	166,941	162,387	
Financial companies do Dealer placed do	87,667 19,904	111,908 30,357	30,357	$112,112 \\ 30,666$	110,656 30,974	31,844	113,786 32,723	117,918 34,336	121,083 35,446	36,983	$117,202 \\ 36,657$	$115,216 \\ 35,584$	115,530 35,893	$115,650 \\ 36,147$	118,206 34,818	
Directly placed do Nonfinancial companies do	67,763 33,930	81,551 49,206	81,551 49,206	81,446 55,159	79,682 56,804	77,813 56,716	81,063 58,754	83,582 59,019	85,637 58,932	85,902 57,993	80,545 56,892	79,632 56,411	79,637 54,835	79,503 51,291	83,388 44,181	
gricultural loans and discounts outstanding of agencies supervised by the Farm Credit Adm.:																
Total, end of period	68,648	78,188	r78,206	78,387	79,035	79,758	80,695	80,972	81,415	81,659	81,564	81,566	81,352	80,766	80,408	
Federal land banks do Loans to cooperatives do	38,138 9,506	46,463 9,124	46,463 9,124	46,899 9,498	47,324 9,760	47,966 9,581	48,425 9,758	48,838 9,260	49,289 8,670	49,582 8,355	49,845 8,034	50,006 8,078	50,160 8,288	50,292 8,477	50,375 8,423	
Other loans and discounts do	21,005	22,619	22,619	21,990	21,951	22,211	22,512	22,874	23,456	23,722	23,685	23,464	22,904	21,998	21,609	
deral Reserve banks, condition, end of period: Assets, total # mil. \$	171,495	176,778	176,778	179,941	170,321	172,249	182,959	173,574	173,810	177,673	180,258	180,647	186,454	187,494	190,128	176
Reserve bank credit outstanding, total # do Time loans do	137,644 1,809	143,906 1,601	143,906 1.601	$141,871 \\ 2,217$	$138,575 \\ 1,180$	139,700 2,646	148,335 1,799	141,249 1,058	$140,244 \\ 1,638$	143,812 458	144,502 449	146,838 1,123	142,629 438	149,394 374	153,769 717	142
U.S. Government securities	121,328 11,161		$130,954 \\ 11,151$	$128,230 \\ 11,151$	125,410 11,150	125,589	134,257 11,149	129,407	127,005 11,149	132,640 11,149	132,858 11,148	134,393 11,148	$132,080 \\ 11,148$	137,676	139,312 11,148	132 11
Liabilities, total # do	171,495	176,778	1. J. A. 1. A. 1.	179,941	170,321	172,249	182,959	173,574	173,810	177,673	180,258	180,647	186,454	187,494	190,128	176
Deposits, total	$31,546 \\ 27,456$	$30,816 \\ 25,228$	$30,816 \\ 25,228$	39,324 25,066	29,630 24,964	$30,073 \\ 26,357$	$38,357 \\ 24,702$	$26,834 \\ 23,463$	25,325 20,198	29,893 24,974	29,076 24,993	32,095 20,318	36,638 24,678	29,884 26,533	34,334 26,489	26 22
Federal Reserve notes in circulation do	124,241	131,906	131,906	126,835	126,869	128,855	130,189	132,619	134,228	134,115	135,374	135,197	136,048	139,989		137
l member banks of Federal Reserve System, averages of daily figures:											1					
Reserves held, total mil. \$ Required do	¹ 40,097 ¹ 40,067	¹ 41,918 ¹ 41,606	41,918 41,606	43,210 42,785	41,280 40,981	39,230 38,873	39,558 39,284	$39,552 \\ 39,192$	39,567 39,257	39,864 39,573	40,177 39,866	39,963 39,579	40,587 40,183	41,199 40,797	r41,853 r41,353	41 41
Excess	130 1,617	¹ 312 1642	312 642	425 1,526	299 1,713	357 1,611	$274 \\ 1,581$	360 1,105	310 1,205	291 669	311 510	384 976	404 455	402 579	*500 *697	
Free reserves do rge commercial banks reporting to Federal Re-	¹ -1,471	1–277	-277	-1,026	-1,282	-1,080	-1,140	-508	-656	-153	-80	-490	35	-130	^r –164	
serve System, Wed. nearest end of yr. or mo.: Deposits:		1.2														
Demand, adjusted § mil. \$ Demand, total # do	119,485 228.086	108,595 187,518	<i>,</i>	99,682 170,840	95,764 169,273	101,234 172,931	94,010 157,940	95,278	102,299	97,375	102,844		104,736 187.996	107,467	109,485	
Individuals, partnerships, and corp	158,283 5,829	140,376 5,235	140,376 5,235		109,275 125,658 4,492		157,940 120,484 4,640	$179,476 \\ 133,774 \\ 4,521$	$178,515 \\ 133,268 \\ 5,710$	$158,878 \\ 120,287 \\ 4,594$	$182,564 \\ 136,351 \\ 4,850$	164,592 124,103 4,479	187,996 139,931 5,391	190,848 143,159 5,238	189,553 139,264	173 131 5
U.S. Government do Domestic commercial banks	1,108 41,407	2,148 21,896	2,148 21,896	3,645 19,273	3,331 19,762	1,133 19,695	2,958 16,143	1,148 23,721	2,345 20,392	1,575 17,299	900 20,735	1,874 17,963	3,014 22,492	1,064 23,374	5,487 1,767 23,613	1 19
Time, total # do	314,128	362,502	362,502			372,461	373,733	381,227	385,108	393,402	401,576		403,348	400,672	406,888	19, 416,
Individuals, partnerships, and corp.: Savings	72,670	76,971	76,971	79,286	79,314	,80,434 255,514	78,902	80,795	79,642	78,899	80,977	79,898	85,222	85,764	110,726	147,
Other time do Loans (adjusted), total § do	205,862 433,313	250,511 470,988					257,536 479,517	263,021 486,083	19 - L	276,274 488,186	280,606 495,430	281,321 499,562	278,768 503,707	276,097 503,562	257,937 505,624	233, 507,
Commercial and industrial	174,581 9,988	195,499 10,756	195,499 10,756		198,819 9,163	202,573	204,731 7,484	209,058 9,056					216,951 12,207	217,027 11,627	216,895 11,223	218, 9,
To nobank financial institutions do Real estate loans	26,073 111,819	26,729 124,444	26,729	26,756	26,762	27,913	28,096 128,538	9,056 27,768 129,098	27,666	27,368	28,090	27,279	27,312	27,017	26,924	9, 26, 133,
Other loans do	135,555	146,367	146,367	144,998	144,382	140,837	138,662	143,552	144,398	143,263	151,608	148,534	154,608	152,199		155,
Investments, total do U.S. Government securities, total	118,098 39,611	36,819	36,819	38,090	38,374	38,570	$115,768 \\ 36,999$	36,945	36,997	37,659	$115,831 \\ 37,113$	37,899	$122,120 \\ 42,270$	122,031 44,152	$125,862 \\ 44,586$	131, 48,
Investment account * do Other securities	35,239 78,487	30,872 80,086	30,872 80,086	30,785 80,413	30,747 79,222	30,345 79,366	29,548 78,769	29,158 80,609	29,196 78,125	28,957 77,745	$30,161 \\ 78,718$	$30,695 \\ 78,412$	33,043 79,850	34,740 77,879	36,730 81,276	38, 83,

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SURVEY OF CURRENT BUSINESS

February	198	3
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Unless otherwise stated in footnotes below, data	1980	1981	1981						198	2				、		1983
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.	Jan
- <u> </u>	I	-	F	INAN	ICE—	Cont	inued	 l								
BANKING—Continued																
Commercial bank credit, seas. adj.: Total loans and securities ¶	1,239.6 110.0 214.4 915.1	1,316.3 111.0 231.4 973.9	1,316.3 111.0 231.4 973.9	$1,320.0 \\ 114.1 \\ 231.5 \\ 974.5$	$1,332.4 \\ 115.1 \\ 232.0 \\ 985.2$	1,342.5 114.4 233.1 995.0	1,352.5 116.6 234.0 1,002.0	1,362.0 116.3 234.9 1,010.8	1,368.8 115.8 235.9 1,017.1	1,376.1 116.5 235.9 1,023.7	$1,383.1 \\ 117.8 \\ 237.1 \\ 1,028.3$	1,389.4 118.2 237.6 1,033.5	1,397.5 122.3 237.2 1,038.1	'1,398.5 126.4 235.8 1,036.4	1,412.4 130.9 239.2 1,042.3	
Ioney and interest rates:							ł									
Discount rate (N.Y.F.R. Bank) @ @ percent	11.77	13.41	12.10	12.00	12.00	12.00	12.00	12.00	12.00	11.81	10.68	10.00	9.68 12.90	9.35	8.73 12.14	8 •11
Federal intermediate credit bank loans do Home mortgage rates (conventional 1st	²12.22	²14.20	14.87	14.63	14.45	14.11	14.14	13.93	13.73	13.63	13.43	13.21	12.90	12.48	12.14	11
mortgages): New home purchase (U.S. avg.) percent Existing home purchase (U.S. avg.) do	² 12.25 ² 12.58	² 14.17 ² 14.62	15.23 15.53	14.67 15.37	14.44 15.22	14.93 15.07	15.13 15.39	15.11 15.57	14.74 15.01	15.01 14.96	15.05 15.03	14.34 14.71	13.86 14.37	13.26 13.74	13.09 13.44	18 13
Open market rates, New York City: Bankers' acceptances, 90 days do Commercial paper, 6 month ‡ do	³ 12.78 ³ 12.29	415.32 314.76	12.13 12.14	$13.06 \\ 13.35 \\ 10.56$	14.47 14.27	13.73 13.47	13.95 13.64 13.09	13.29 13.02	14.00 13.79	12.90 13.00	10.34 10.80	10.40 10.86 9.63	9.24 9.21 8.60	8.76 8.72	8.54 8.50 8.20	8
Finance co. paper placed directly, 6-mo @ do Yield on U.S. Government securities (taxable):	³ 11.28 ³ 11.506	313.73 314.077	11.24 10.926	12.56 12.412	13.58 13.780	12.89 12.493	12.821	12.61 12.148	12.69 12.108	12.15 11.914	9.93 9.006	9.63 8.196	7.750	8.42 8.042	8.20	7.
3-month bills (rate on new issue) percent CONSUMER INSTALLMENT CREDIT	-11.500	-14.077	10.920	12.412	13.760	12.455	12.021	12.140	12.100	11.514	5.000	8.190	1.100	0.042	0.010	
otal extended and liquidated: Unadjusted: Extended mil. \$ Liquidated	306,076 304,628	336,341 316,447	$30,914 \\ 26,595$	22,574 25,814	22,758 25,460	27,986 28,289	28,449 27,217	28,389 27,413	31,098 28,586	27,415 26,792	29,608 28,272	28,988 26,848	27,680 28,650	30,905 28,889	$34,311 \\ 27,932$	
Seasonally adjusted: Extended, total # do			26,656	26,888	27,150	27,462	28,684	29,197	29,737	27,514	27,579	28,268	28,062	31,610	30,462	
By major holder: Commercial banks do			13,264	11,775	12,431	12,519	12,790	12.765	13,460	12,485	12,499	12,750	13,322	14,616	13,992	
Finance companiesdodo Credit unionsdo Retailersdo			4,089 2,517 4,142	4,433 3,326 4,385	4,857 2,695 4,254	5,002 2,631 4,536	5,343 3,010 4,618	6,135 2,902 4,449	5,700 2,887 4,762	4,607 2,711 4,785	4,685 2,904 4,396	4,894 3,092 4,684	4,427 2,897 4,431	6,231 3,438 4,383	5,752 3,315 4,518	
By major credit type: Automobile do Revolving do			7,352 11,592	7,474 11,070	7,283 11,730	7,183 12,143	7,871 12,416	8,429 12,528	8,182 13,361	7,332 12,551	7,112 12,497	7,546 12,464	7,970 12,340	10,329 12,489	9,618 12,336	
Mobile home do Liquidated, total # do			508 26,689	434 26,445	364 27,075	411 26,472	544 27,509	478 27,798	459 28,388	441 26,944	581 27,513	452 27,176	476 28,386	484 29,087	455 28,270	
By major holder: Commercial banks			12,104 4,503 2,886	$11,765 \\ 5,030 \\ 2,637$	$12,602 \\ 4,550 \\ 2,830$	12,353 4,329 2,753	12,694 4,799 2,878	12,778 5,009 2,941	$13,560 \\ 4,826 \\ 2,849$	$12,551 \\ 4,412 \\ 2,780$	12,751 4,827 2,725	12,269 4,779 2,746	$13,371 \\ 4,820 \\ 2,929$	$13,712 \\ 5,098 \\ 3,020$	12,893 4,907 3,146	
Retailers do			4,480	4,358	4,378	4,365	4,437	4,381	4,458	4,488	4,505	4,624	4,519	4,481	4,553	
By major credit type: Automobile			7,284 11,533 365	7,595 11,266 460	7,339 11,885 408	7,211 11,836 396	7,638 11,917 493	7,470 11,991 408	7,527 12,854 392	7,271 11,939 378	7,514 12,354 440	7,041 12,254 442	8,048 12,232 480	8,513 12,382 444	8,315 11,804 523	
otal outstanding, end of year or month # do	313,472	333,375	333,375	330,135	327,435	327,131	328,363	329,338	331,851	332,471	333,808	335,948	334,871	336,991	343,372	
By major holder: Commercial banksdo Finance companies do Credit unions do	. 147,013 76,756 44,041	89,818 45,954	45,954	148,162 88,925 45,907	146,922 89,009 45,586	89,591 45,632	146,616 90,674 45,450	91,958 45,472	146,775 93,009 45,882 26,645	$146,745 \\ 93,353 \\ 45,698 \\ 96,710$	147,275 93,207 46,154	148,280 93,357 46,846 26,829	147,926 92,541 46,645 27,046	148,270 93,462 46,832 27,639	150,643 94,322 47,253 30,202	
Retailersdo By major credit type: Automobiledo	. 28,448	29,551 126,431	29,551 126,431	28,179 125,525	27,013 125,294	26,530 125,559	26,537 126,201	26,536 127,220		26,710 128,359	26,751 128,281			129,594	130,504	
Kevolving	. 58,352 . 17,322	63,049	63,049	61,433 18,397	59,514 18,343	58,491	58,641 18,402	58,647 18,479	59,302 18,543	59,824 18,601	60,475 18,741	60,932 18,778		61,500 18,821	66,273 18,768	
FEDERAL GOVERNMENT FINANCE Budget receipts and outlays:																
Receipts (net) mil. \$. Outlays (net) do Budget surplus or deficit () do	. ¹ 517,112 ¹ 576,675 ¹ -59,563	¹ 599,272 ¹ 657,204 ¹ -57,932	r76,290	55,269 45,930 9,339	43,042 57,822 -14,780	63,546	75,777 66,073 9,704	36,753 55,683 -18,930	66,353 59,629 6,724	44,675 64,506 -19,831	44,924 59,628 -14,704	59,694 61,403 -1,708	66,708	42,007 66,166 -24,158	54,498 72,436 -17,938	
Budget financing, total do	¹ 59,563	\$57,932	20,516	8,109	14,993	18,773	-8.711	21,424	-4,457	20,962	16,751	4,575	26,462	24,845	18,103	
Borrowing from the public do Reduction in cash balances do	. ¹ 70,515 1–10,952	¹ 79,329 1–21,397	14,274 6,242	9,783 -17,892	10,693 4,300	12,305 6,468	2,527 -11,238	3,187 18,237	3,260 -7,717	14,348 6,614	21,086 -4,335	22,129	6,228 20,234	25,923 -1,078	29,895 -11,792	
Gross amount of debt outstanding do Held by the public do	. ¹ 914,317 715,105	¹ 1,003,941 ¹ 794,434		1,043,817 839,837	1,053,325 850,504	1,066,393 862,809	1,070,734 865,336	1,076,798 868,523	1,084,658 871,783	1,094,628 886,131	1,114,214 907,218	1,146,987 929,346	1,147,713 935,574	1,166,569 961,497	1,201,898 991,392	
Budget receipts by source and outlays by agency: Receipts (net), total	¹ 517,112 244,069 164,600	1285,917		55,269 32,646 2,473	43,042 21,007 1,293	45,291 13,391 6,910	75,777 41,672 7,342	36,753 9,576 1,202		44,675 23,987 601	44,924 20,867 422	59,694 32,592 6,146		42,007 22,452 -680	54,498 24,946 8,164	
Social insurance taxes and contributions (net) mil. \$. Other do	¹ 157,803 ¹ 50,640	¹ 182,720 ¹ 69,499	*14,057 6,777	14,575 5,574	15,109 5,633	18,752 6,238	21,593 5,170	20,483 5,493	17,572 5,918	14,874 5,214	17,961 5,674	15,608 5,348		14,902 5,332	15,776	
Outlays, total #	1576,675 124,555	¹ 657,204 ¹ 26,030	76,290 4,793 15,880	45,930 4,573 13,783	57,822 2,984 14,239	63,546 4,394	66,073 2,484 16,013	· ·	59,629 1,526	64,506 2,668 16,329	59,628 2,184 15,011	61,403 3,026	66,708	66,166 5,374	72,436 7,499 17,615	
Health and Human Services Department §	¹ 194,691 76,691 4,850	¹ 230,304 ¹ 92,633 ¹ 5,421	r33,282 13,277 551	7,319 7,935 443	20,679 8,164 493	21,628 7,598 524	21,898 9,641 464	19,883 8,286 486	21,087 14,090 497	22,499 8,643 435	21,168 9,235 491 994	21,424 7,179 467	22,200 9,149 482	22,817 9,076 632	23,440 14,327 524 3,200	
Veterans Administration			3,214	760	1,908	2,269	3,236		1,923	3,097		1,924			0,200	
Monetary stock, U.S. (end of period) mil. \$ Price at New York ‡ dol. per troy oz Silver:	612.509	459.614	408.743	ĺ		330.248	350.488	334.403	314.982		365.952	435.564	421.755	414.993	445.431	ł
Price at New York # dol. per troy oz.	20.632	10.518	8.432	8.030	8.268	7.213	7.311	6.674	i 5.578	6.497	7.136	8.725	9.458	9.892	10.586	I

SURVEY OF CURRENT BUSINESS

Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1980	1981	1981						19	82						1983
in the 1979 edition of BUSINESS STATISTICS	Anı	nual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
			F	'INAI	NCE-	-Con	tinue	d		·		•				<u> </u>
MONETARY STATISTICS																
Currency in circulation (end of period) bil. \$	137.2	145.6	145.6	140.5	140.5	142.6	144.0	146.5	148.2	148.1	149.4	149.2	150.1	154.1	156.2	•••••
Money stock measures and components (averages of daily figures): † Measures (not seasonally adjusted): ‡																
M1 bil. \$. M2 do	401.4 1,591.7	429.6 1,747.1		r454.3 r1,817.7	¹ 438.1	r440.9	r456.3		1450.8	'454.3 '1,883.0	r454.3 r1,896.5	r461.0	470.6 1,928.4	r479.1 1.943.3	7491.2 1,963.8	489. 2,015.
M3do L (M3 plus other liquid assets)do	1,873.0 2,267.6	2,089.9	2,175.9	2,193.5	^{1,007.9} ^{2,189.2}	1,825.9 2,211.0 2,697.5	"1,848.6 "2,235.3 "2,724.4	2,237.3	"1,865.4 "2,257.2 "2,762.8	2,280.8	12,308.8	^{1,908.7} 2,324.4 2,822.7	*2,3 50.2	r2,368.9		2,015. 2,411.
Components (not seasonally adjusted):	2,207.0	2,010.0	2,025.1	2,000.0	-2,011.0	-2,001.0	2,724.4	2,131.0	2,102.0	-2,101.0	-2,005.4	2,022.1	•••••		••••••	•••••
Currency	111.7 263.9	119.8 239.9		123.3 *244.3	123.0 *229.3	'123.9 '229.1	*125.7 *236.9	127.2 r228.8	128.3 *230.7	129.8 r231.7	'130.1 '229.6	130.2 *232.9	"131.3 "237.6	132.7 *240.6	135.2 r247.7	133 245
Other checkable deposits # do Overnight RP's and Eurodollars * do	21.8 30.0	65.6 38.7	78.4 *36.1	82.5 *39.7	81.5 *38.0		89.5 r36.8	85.4 r40.1	87.2 140.3	87.9 •41.8	89.8 142.4	*93.3 *41.5	97.3 r43.9	101.5 ¹ 45.2	104.0° 44.2	107 47
Money market mutual funds do Savings deposits	55.3 404.0	110.3 361.6		154.7 י346.6	156.0 344.6	159.7 346.3	'161.8 '348.5	r164.9	170.1 348.6	172.9 348.6	"182.3 "346.8	r185.1 r348.2	*187.6 *357.8	r191.1 r363.3	'182.1 '356.5	166 334
Small time deposits @ do Large time deposits @ do	706.4 236.3	812.9 286.4	*824.1	*828.7 *308.4	*837.3 *315.3	7845.8 7318.9	*851.1	*855.9	*861.4 *323.5	*871.6 *327.4	*876.6 *332.9	*879.0 *334.9	¹ 875.1 1339.1	r871.2 r340.8	*853.8 *336.6	798 314
Measures (seasonally adjusted): ‡																
M1			r ¹ 440.6 r1,794.9	447.8 r 1,810.1	"448.0 "1,815.8 "2,191.6	*448.6 *1,828.9	1.835.2	1.850.6	¹ 453.4 1,864.6	'454.4 '1,880.9	^{1458.3} 1,903.6	*463.2 *1,917.0 *2,333.9	^r 468.8 r1,929.5	r474.1 r1,944.7	r478.4 r1,958.8	482. 2,007.
M3 do L (M3 plus other liquid assets) do			r2,167.9 r2,622.0	"2,181.8 "2,644.4	"2,191.6 "2,668.0	"2,210.9 "2,692.6	2,224.1 2,709.9	r2,240.7 r2,736.9	"2,260.2 "2,766.0	"2,283.4 "2,795.7	"2,317.8 "2,821.1	^r 2,333.9 2,837.7	'2,351.8	r2,369.9	¹ 2,376.9	2,399
Components (seasonally adjusted): Currency do			^{123.2}	'124.0	11047	'125.2	100.9	107.4	r100.0	100.0	1100 C	100 5	r101.0	r101.0	*100.0	104
Demand deposits			236.4	¹ 238.9	124.7 235.5	¹ 233.8	126.3 233.3	· r233.1	*128.2 *232.3	128.8 *232.1	*129.6 *232.5	130.5 *234.0	"131.3 "236.1	r131.9 r237.6	r132.8 r239.8	134. 239.
Small time deposits @ do			r344.4 r828.6	r347.7 r826.6	r346.9 r833.1	r346.6 r840.7	*847.2	*852.5	r347.2 r859.3	r345.0 r872.9	*346.7 *879.8		*358.0 *877.8	r366.4 r874.6	r359.0 r859.1	334 797
Large time deposits @ do PROFITS AND DIVIDENDS (QTRLY.)			*302.6	'304.4	*309.9	''315.8	'321.2	'322.1	*327.4	r332.1	¹ 334.9	¹ 336.1	r339.6	340.4	¹ 333.9	310.
Manufacturing corps. (Fed. Trade Comm.): Net profit after taxes, all industries mil. \$						2										
Net profit after taxes, all industries mil. \$ Food and kindred products do	92,579 8,222	101,302 9,109	22,856 2,446			18,999 2,120			$20,028 \\ 2,079$			17,828 2,031				
Textile mill products do Paper and allied products do	977 2,789	1,157 3,110	198 829			78 418			146 436			258 408				•••••
Chemicals and allied products do	. 11,578	12,973	2,985			2,900			2,764			2,451				•••••
Petroleum and coal products do Stone, clay, and glass products do	$25,133 \\ 1,833$	23,733 1,627	$5,464 \\ 267$			4,935 -167			4,146 205		·····	5,024 329				
Primary nonferrous metal do Primary iron and steel do	2,768 2,334	2,124 3,507	369 5	•••••		82 25			44 -430			-41 -893				
Fabricated metal products (except ordnance, machinery, and transport. equip.) mil. \$	3,967	4,235	760			786			820			425				
Machinery (except electrical) do	11,459	12,580	3,492			2,657			2,454			1,687				
Elec. machinery, equip., and supplies do	7,114	7,872	1,745		·····	1,781			1,801		•••••	1,688		·····		••••••
Transportation equipment (except motor vehicles, etc.) mil. \$ Motor vehicles and equipment	3,084	3,722 -209	707			645			693			720				••••••
All other manufacturing industries do	-3,424 14,745	15,762	-139 3,728			$2,738^{1}$	·····		$1,072 \\ 3,798$			$-18 \\ 3,759$				·····
Dividends paid (cash), all industries do	36,495	40,317	10,763			10,160			10,418			10,076				
SECURITIES ISSUED																
Securities and Exchange Commission: Estimated gross proceeds, total mil. \$	81,111	75,870	5,969	3,283	5,838	6,601	4,610	r5,787	5,791	6,613	^r 9,386	7,507	¹ 9,878	7,351		
By type of security: Bonds and notes, corporate do	56,265	45,606	3,948	1,607	4,074	4,653	r2,563	3,405	3,066	4,230	7,296	5,204	7,248	4,057		
Common stock do	$18,996 \\ 3,635$	25,108	1,935 80	1,477	1,430	1,750	1,875	۲1,367	2,559	1,490	^{1,365}	1,681	^{1,919}	2,719		
Preferred stock do By type of issuer:	3,030	1,788	. 00	199	185	198	172	887	67	644	622	522	611	573		•••••
Corporate, total # mil. \$ Manufacturing do	78,896 24,398	72,503 17,397	$5,963 \\ 1,212$	'3,282 727	5,689 479	$6,601 \\ 1,142$	4,610 599	'5,658 755	5,692 417	6,364 1,845	9,283 2,373	7,407 1,510	'9,778 2,904	$7,350 \\ 1,274$		
Extractive (mining) do Public utility do	4,893 15,940	9,113 14,494	723	724 962	479 1,088	919 2,219	636 1,684	360 1,747	1,800 941	668 909	464 1,674	750 1,902	r302 1,941	516 1,403		
Transportation do	3,727	2,779	105	68	76	255	41	108	131	18	464	149	521	319		
Communication do Financial and real estate do	$7,401 \\ 15,638$	6,158 17,197	201 1,894	66 506	366 2,994	87 1,523	20 1,358	'346 1,665	$191 \\ 1,906$	$179 \\ 2,305$	206 2,914	305 2,343	$314 \\ 3,015$	$129 \\ 2,811$		
State and municipal issues (Bond Buyer): Long-term	47,133	46,134	5.072	3,780	3,459	E E 91	6 600	= 000	E 007	z 000	0.005	0.001	7.050	0 505	0.150	
Short-term	26,485	34,443	3,138	2,525	2,708	5,531 2,950	$6,692 \\ 3,109$	5,268 5,919	5,667 4,848	5,822 3,302	6,635 4,766	$\begin{array}{c} 6,381 \\ 3,146 \end{array}$	7,959 3,357	9,505 3,396	8,178 2,890	
SECURITY MARKETS															·	
Stock Market Customer Financing Margin credit at brokers, end of year																
or month	14,721	14,411	14,411	13,441	13,023	12,095	12,202	12,237	11,783	11,729	11,396	11,208	11,728	12,459	13,325	
Margin accounts	$2,105 \\ 6,070$	$3,515 \\ 7,150$	3,515 7,150	3,455 6,575	3,755 6,595	$3,895 \\ 6,510$	$4,145 \\ 6,270$	4,175	$4,215 \\ 6,345$	4,410	4,470	4,990	5,520	5,600	5,735	•••••
Bonds	3,010	7,100	- 7,100	0,070	0,090	0,010	0,270	6,355	0,340	6,730	7,550	7,475	8,120	8,395	8,390	
Prices:																
Standard & Poor's Corporation: High grade corporate:		_														
Composite §dol. per \$100 bond Domestic municipal (15 bonds) do	41.4 57.4	33.7 43.2	33.2 37.1	30.9 35.8	$31.1 \\ 37.0$	32.9 37.3	33.3 38.2	34.0 39.9	32.1 38.3	32.8 39.4	35.7 43.2	38.0 45.6	41.7 49.7	44.2 48.7	42.9 49.0	42. 51.
Sales:	_															~1/
New York Stock Exchange, exclusive of some stopped sales, face value, total mil. \$	5,190.30	5,733.07	673.76	410.47	388.34	512.80	509.13	510.05	499.02	463.04	724.38	699.80	875.39	770.43	792.60	787.75
ee footnotes at end of tables.																

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SURVEY OF CURRENT BUSINESS

February	1983

Unless otherwise stated in footnotes below, data	1980	1981	1981						19	82						1983
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Anı	nual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	· .		F	INAN	NCE-	-Cont	inue	1	I	۱ ــــــــــــــــــــــــــــــــــــ			1			
Bonds-Continued										-						
Yields: Domestic corporate (Moody's)percent	12.75	15.06	15.38	16.05	16.13	15.68	15.53	15.34	15.77	15.70	15.06	14.34	13.54	13.08	13.02	12.90
By rating: Aaa do	11.94	14.17	14.23	15.18	15.27	14.58	14.46	14.26	14.81	14.61	13.71	12.94	12.12	11.68	11.83	11.7
Aa do A Baa	12.50 12.89 13.67	14.75 15.29 16.04	15.00 15.75 16.55	15.75 16.19 17.10	15.72 16.35 17.18	15.21 16.12 16.82	14.90 15.95 16.78	14.77 15.70 16.64	15.26 16.07 16.92	$15.21 \\ 16.20 \\ 16.80$	14.48 15.70 16.32	13.72 15.07 15.63	12.97 14.34 14.73	12.51 13.81 14.30	$12.44 \\ 13.66 \\ 14.14$	12.3 13.5 13.9
By group:																
Industrials do Public utilities do Railroads do	12.35 13.15 11.48	15.62	$15.00 \\ 15.77 \\ 13.84$	$15.37 \\ 16.73 \\ 14.10$	$15.53 \\ 16.72 \\ 14.08$	15.29 16.07 14.00	$15.22 \\ 15.82 \\ 14.03$	15.08 15.60 13.93		15.37 16.04 14.05	14.88 15.22 13.90	14.11 14.56 13.69	13.19 13.88 13.08	$12.57 \\ 13.58 \\ 12.74$	$12.48 \\ 13.55 \\ 12.60$	12.3 13.4 12.2
Domestic municipal:																14.4
Bond Buyer (20 bonds) do Standard & Poor's Corp. (15 bonds) do	8.73 8.51	11.23	$13.30 \\ 12.77$	$13.15 \\ 13.16$	$12,70 \\ 12.81$	$13.13 \\ 12.72$	11.97 12.45	12.13 11.99	12.58 12.42	11.97 12.11	10.74 11.12	10.48 10.61	10.05 9.59	10.23 9.97	9.56 9.91	9.4
U.S. Treasury bonds, taxable ‡ do Stocks	10.81	12.87	12.88	13.73	13.63	12.98	12.84	12.67	13.32	12.97	12.15	11.48	10.51	10.18	10.33	10.3
rices: Dow-Jones averages (65 stocks)	328.23	364.61	351.31	333.99	327.54	318.94	332.69	333.11	、 313.66	316.31	321.30	356.89	383.92	401.57	404.83	417.6
Industrial (30 stocks) Public utility (15 stocks)	891.41 110.43	932.92 108.58	878.28 110.73	853.41 105.68	833.15 105.98	812.33 107.47	844.96 112.17	846.72 114.49		818.41 106.28	832.11 109.64	917.27 116.18	988.71 119.97	1,027.76	1,033.08	1,064.2 123.8
Transportation (20 stocks) Standard & Poor's Corporation: §	307.23	398.56	387.11	353.99	345.93	328.85	344.68	340.90	314.58	316.68	318.34	368.32	402.70	436.43	446.37	457.7
Combined index (500 Stocks)	118.78 134.52	128.04 144.24	123.79 138.35	$117.28 \\ 131.08$	$114.50 \\ 127.56$	$110.84 \\ 122.85$	116.31 129.19	$116.35 \\ 129.68$	109.70 122.61	109.38 122.49	$109.65 \\ 122.29$	122.43 137.09	$132.66 \\ 148.11$	138.10 153.90	$139.37 \\ 156.02$	144.2 162.0
Capital goods (111 Stocks) do Consumer goods (189 Stocks) do	131.37 86.88	139.03 100.67	128.23 98.37	121.78 95.43	$120.53 \\ 97.32$	112.43 97.00	117.32 102.91	$115.84 \\ 103.81$	105.97 100.92	106.34 102.66	106.34 102.46	119.61 115.51	$131.64 \\ 126.43$	139.35 133.27	$142.63 \\ 134.75$	151.0 133.0
Utilities (40 Stocks) do Transportation (20 Stocks) 1970=10	50.54 18.52	51.87 23.26	53.53 22.21	$51.81 \\ 20.05$	51.39 18.95	52.33 17.68	54.25 18.71	54.88 18.50	52.13 17.21	51.87 17.22	$53.34 \\ 17.53$	56.48 20.27	59.41 22.19	60.08 23.52	59.33 23.84	61.8 24.9
Railroads (10 Stocks)	75.57 12.50	93.09 14.44	90.84 14.76	80.86 13.95	75.99 14.19	67.73 14.15	71.20 14.59	71.16 13.81	65.49 12.45	63.15 12.07	64.71 12.38	77.20 13.72	86.27 15.97	88.27 17.46	85.83 16.90	90.2 16.5
NewYorkCity banks(6 Stocks) 1941-43 = 10 Banks outside N.Y.C. (10 Stocks) do	44.00	52.45 117.82	54.01 112.58	51.33 102.51	53.85 100.48	53.77 96.11	55.93 97.40	52.27 93.29	48.10	45.36 81.10	47.46 82.06	50.50 86.79	64.21 106.48	68.70 114.55	65.60 103.62	63.9 101.2
Property-Casualty Insurance (6 Stocks) do New York Stock Exchange common stock indexes:	. 127.06	141.29	149.00	141.08	146.08	147.01	149.14	142.45	126.05	120.61	118.41	134.47	156.02	166.54	168.28	162.0
Composite	68.10 78.70	74.02 85.44	71.81 81.70	67.91 76.85	66.16 74.78	63.86 71.51	66.97 75.59	67.07 75.97	63.10 71.59	62.82 71.37	62.91 70.98	70.21 80.08	76.10 86.67	79.75 90.76	80.30 92.00	83.2 95.3
Transportation do Utility e	60.61 37.35	72.61 38.91	68.27 40.22	62.04 39.30	59.09 38.32	55.19 38.57	57.91 39.20	56.84 39.40	53.07 37.34	53.40 37.20	53.98 38.19	61.39 40.36	66.64 42.67	71.92	73.40 42.93	75.0 45.5
Finance do ields (Standard & Poor's Corp.):	64.25	73.52	74.74	70.99	70.50	69.08	71.44	69.16	63.19	61.59	62.84	69.66	80.5 9	88.66	86.22	85.0
Composite (500 stocks) percent Industrials (400 stocks) do	5.26 4.95	5.20 4.90	5.57 5.28	5.95 5.64	6.06 5.75	6.28 5.99	5.99 5.70	5.97 5.65	6.28 5.90	6.31 5.91	6.32 5.94	5.63 5.26	5.12 4.78	4.92	4.93 4.59	
Utilities (40 stocks) do Transportation (20 stocks) do Financial (40 stocks) do	9.77 4.04 5.75	10.15 3.40 5.41	10.22 3.76 5.48	$10.74 \\ 4.20 \\ 5.89$	10.77 4.38 5.79	$10.61 \\ 4.72 \\ 5.92$	10.27 4.47 5.73	10.27 4.47 6.07	10.87 4.85 6.67	11.02 4.92 6.97	10.77 4.95 6.79	10.22 4.17 6.12	9.73 3.75 5.22	9.62 3.53 4.84	9.83 3.46 5.08	
Preferred stocks, 10 high-grade do	10.60	12.36	12.83	13.19	13.20	12.97	12.90	12.58	12.96	13.24	12.78	12.41	11.71	11.18	11.20	11.5
ales: Total on all registered exchanges (SEC):									·							
Market value	475,850 15,486	490,688 15,910	38,692 1,365	33,445 1,222	35,953 1,313	44,157 1,713	39,900 1,533	$37,350 \\ 1,430$	35,174 1,414	41,292 1,577	47,117 1,902	61,374 2,301	79,437 2,857	75,043 2,643		
On New York Stock Exchange: Market value mil. \$ Shares sold (cleared or settled) millions	397,670 12,390		$32,701 \\ 1,092$	28,301 987	$30,268 \\ 1,071$	$38,232 \\ 1,411$	$33,714 \\ 1,242$	$31,913 \\ 1,167$		35,580 1,304			67,157 2,292	63,837 2.126		
New York Stock Exchange: Exclusive of odd-lot and stopped stock sales					,									-		
(sales effected)	11,352	11,854	959	968	972	1,270	1,136	1,027	1,111	1,145	1,673	1,548	2,069	1,857	1,682	1,85
Market value, all listed shares	1,242.80 33,709	1,143.79 38,298	1,143.79 38,298	$1,115.82 \\ 38,408$	$1,053.75\ 38,572$	1,036.85 38,588	1,081.87 38,738	1,039.18 38,594	1,017.45 38,894	993.56 39,064	1,106.56 39,070	$1,120.26 \\ 39,177$	1,244.38 39,262	1,291.94 39,400	1,305.36 39,516	1,349.1 39,68
	F	OREIC	N TH	RADE	OF '	ГНЕ	UNIT	ED S	TAT	ES					1.	
VALUE OF EXPORTS																
Exports (mdse.), incl. reexports, total @ mil. \$	220,704.9	· ·	19,139.9	, i	17,637.3	20,160.9	18,610.6	19,000.7	19,416.1	17,259.3		16,716.7	17,274.5	15,695.0	16,723.9	
Excl. Dept. of Defense shipments do Seasonally adjusted do	220,548.7	¹ 233,677.0	19,130.0 18,885.4		17,635.5 18,703.6	20,151.7 18,602.0	18,605.2 17,842.8	18,992.4 18,218.0	19,413.3 18,821.8	17,252.2 18,026.5	16,249.9 17,497.8	16,712.6 17,387.3	17,267.0 16,697.7	15,689.2 15,692.7	16,716.4 16,335.3	
By geographic regions: Africa do	9,060.4		925.4	850.6	972.4	967.1	1,001.7	936.3	1,038.0	681.9	693.7	720.1	915.0	601.3		
Asia do Australia and Oceania do Europe do	60,168.3 4,875.7 71,371.4	16,435.8	5,628.8 582.4 5,912.5	5,172.3 461.4 5,545.1	5,194.8 442.6 5,605.7	5,752.2 597.9 6,328.8	5,215.9 471.6 5,753.1	5,545.1 495.4 5,711.4	5,786.2 662.3 5,639.7	5,793.3 470.0 4,743.1	5,186.8 495.9 4,562.0	4,947.1 445.8 4,857.0	5,372.4 433.6 4,930.1	5,109.7 362.7 4,892.6	·····	·····
Northern North America do	35,399.0	¹ 39,565.8	2,841.7	2,463.8	2,593.5	3,346.8	3,066.1	3,189.7	2,943.2	2,667.7	2,634.8	2,838.1	3,089.2	2,512.5		
Southern North America do South America do	21,337.7 17,376.8	¹ 24,368.7 ¹ 17,732.1	$1,888.3 \\ 1,305.6$	1,703.4 1,318.6	1,665.1 1,163.0	1,791.3 1,376.6	1,758.6 1,258.2	1,730.8 1,323.2	1,837.9 1,437.0	1,514.5 1,334.4	$1,328.1 \\ 1,336.0$	1,573.0 1,278.5	1,224.7 1,235.6	1,043.4 1,125.3		
By leading countries: Africa:		10.00														
Egypt do Republic of South Africa do	1,873.6 2,463.5		$142.8 \\ 215.9$	172.6 230.9	275.2 224.6	$231.1 \\ 206.7$	$383.1 \\ 237.4$	293.6 234.8	269.4 242.7	177.8 191.9	191.7 182.7	191.4 174.7	280.0 162.3	145.4 133.4		
Acia: Australia and Occania:	1	1														

See footnotes at end of tables.

Asia; Australia and Oceania: Australia, including New Guinea...... Japan

SURVEY OF CURRENT BUSINESS

February 1983		5	URVE	LI OF	COR	REN.	I BUS	DINES	20							3
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown		1981	1981			•			19	82				-		1983
in the 1979 edition of BUSINESS STATISTICS		nual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan
F	OREIG	AN TR	ADE	OF T	'HE U	JNIT	ED S'	ГАТЕ	ES-C	ontin	ued					
VALUE OF EXPORTS—Continued							- <u>-</u>								1	
Exports (mdse.), incl. reexports—Continued								ĺ)	
Europe: France	7,485.4	7,340.5	562.7	523.4	563.5	728.8	592.9	603.8	665.3	516.4	601.5	572.1	666.1	515.4		
E. Germany) mil. \$. Federal Republic of Germany (formerly	. 478.6		16.4	. 49.9		43.7	9.3	i i	1.12	5.5	0.8	1.9		10.1		
W. Germany) mil. \$. Italy do	. 10,959.8 5,511.1	15,360.0	798.9 548.0	822.5 413.6	789.6 397.5	969.6 379.0	804.7 395.2	821.6 446.1		723.0 328.8	703.6 308.0	654.9 349.4	678.6 386.5	755.9 344.1		
Union of Soviet Socialist Republics do United Kingdom do	. 1,512.8 . 12,693.6	12,431.3	358.3	398.0		421.3 991.0	325.1	265.7 913.3	134.4	71.8 885.2	55.1 805.5	77.1	80.0	160.6 838.1		
North and South America: Canadado	. 35,395.3	139,564.3	2,841.7	2,463.5	2,593.5	3,346.2	3,065.8	3,189.5	2,942.7	2,667.5	2,634.5	2,837.9	3,089.1	2,512.3		
Latin American republics, total # do Brazil do	36,030.4	138,950.1	2,933.4 252.0	2,757.4 306.2	2,537.2 260.4	2,926.9 289.8	2,699.6 274.9	· ·		2,588.5 361.2	2,387.7 318.1	2,562.2 306.0	2,118.6 236.3	1,844.7 201.7		
Mexico dododo	15,144.6		1,380.8 467.2		1,123.9 380.9	1,307.2 501.7	1,173.1 415.0	1,201.1 440.6	1,202.6		795.2 460.8		633.2 449.2	201.7 504.9 402.6		
Exports of U.S. merchandise, total § do Excluding military grant-aid do	216.436.0	1228,960.8	18,631.1 18,621.1	17,129.0	17,274.6 17,272.8	19,685.4 19,676.2	18,208.3 18,202.8	18,589.3	18,980.3	16,870.3	15,943.9 15,929.3	15,980.7	16,886.7 16,879.2	15,319.1 15,313.3		
Agricultural products, total	41,255.9 175,336.3	143,338.5	3,596.5	3,254.7	3,499.9	3,702.5 15,982.9	3,481.8	3,403.4	3,129.1	2,446.0	2,492.4 13,451.5	2,388.1	2,887.4	3,049.7		
By commodity groups and principal commodities:														• • •		
Food and live animals # mil. \$ Beverages and tobacco do	27,743.7 2,663.0	12,914.7	2,315.3 236.8	208.9	2,188.5 250.0	2,429.6 300.2	224.2	2,161.4 262.5	221.3	167.0	1,874.2 211.6	1,691.6 193.1	1,816.6 350.3	379.8	1,758.0 257.5	
Crude materials, inedible, exc. fuels # do Mineral fuels, lubricants, etc. # mil. \$ Oils and fats, animal and vegetable do	23,790.7 7,982.3 1,946.3		$1,811.4 \\ 1,106.2 \\ 158.4$	1,724.7 1,048.5 102.8	1,782.6 1,050.9 167.3	1,837.3 1,246.3	1,789.3 1,190.2	1,839.6	1,090.4	1,350.5 996.8	1,272.0 954.9	1,328.1	1,515.4 1,206.1	1,663.4 846.0	1,546.9 881.9	
Chemicals do	20,740.2	121,187.1	1,715.4	1,594.2	1,662.1	132.4 1,858.4	124.3 1,688.2	102.2 1,722.4		157.3 1,648.6	125. 6 1,715.0	146.8 1,548.7	105.0 1,487.8	118.3 1,455.2	117.3 1,647.2	
Manufactured goods #do Machinery and transport equipment, total	22,254.6 84,552.9		1,446.3 7, 9 31.2	1,456.9 7,126.7	1,388.7 6,979.4	1,633.8 8,357.6		1,535.6		1,348.5 7,597.3	1,274.2 6,738.6	1,321.7	1,390.7	1,202.5	1,155.4	
Machinery, total # do Transport equipment, total	55,789.7 28,838.8	¹ 62,945.5	5,012.2 2,921.0	4,849.8 2,281.4	4,719.0 2,261.0	5,523.1 2,835.1	7,547.7 4,967.7 2,580.3	7,782.5 5,203.1 2,580.0	5,523.2	5,083.1 2,515.6	4,664.3 2,081.5	6,756.3 4,928.1 1,828.8	7,136.5 4,889.2 2,248.1	6,083.4 4,451.1 1,632.7	6,846.4	
Motor vehicles and parts do VALUE OF IMPORTS	14,589.6		1,124.8		1,123.9	1,489.3		1,436.2		1,080.8	1,029.5	1,040.7	1,084.0	957.9		
eneral imports, total do	240,834.3	¹ 261,304.9	19,663.4	² 22,606.0	18,264.6	20,823.4	17,882.1	20,804.5	21,810.9	19,763.2	22,867.8	20,187.8	21,219.3	19,002.0	18,720.2	
Seasonally adjusted do By geographic regions:			19,516.3		19,090.4		17,386.8	20,558.1	21,309.6			20,644.0	21,096.0	18,936.5	18,864.7	
Africa do Asia do Australia and Oceania do	32,250.9 78,848.0 3,391.9			² 2,358.5 ² 8,466.5 ² 200.5		1,500.6 7,310.1 262.4	5,965.2	911.3 7,684.6		1,695.1 6,987.1	1,467.7 9,061.3	1,262.7 6,920.8	1,586.0 7,155.4	1,423.8 6,133.6		
Europe do	47,849.7	¹ 53,409.7	4,410.3	²4,758.5	3,674.7	4,479.6	226.8 4,012.6	244.9 4,923.4	299.2 4,907.0	288.9 4,358.7	345.0 4,743.5	281.1 4,241.8	323.1 4,712.0	261.2 4,220.1		
Northern North America do Southern North America do South America do	41,470.9 22,656.9 14,361.6	¹ 46,432.0 ¹ 23,477.4 ¹ 15,526.4	1,826.3	² 3,508.5 ² 1,860.6 ² 1,452.5	3,549.0 1,831.9 977.2	4,158.8 1,967.5 1,144.3	3,737.8 1,660.2 1,027.2	4,070.3 1,824.7 1,145.1	4,399.5 2,309.5 1,182.9	3,462.0 1,881.2	3,829.5 2,210.3 1,210.3	4,238.7 2,100.8	3,907.9 1,972.3	4,009.8	·····	
By leading countries:	14,001.0	10,020.4	.,211.0	1,402.0	011.2	1,144.0	1,021.2	1,140.1	1,102.0	1,090.1	1,410.0	1,141.9	1,562.4	1,173.7	•••••	
Africa: Egypt do Republic of South Africa do	458.4 3,320.5	¹ 397.3 ¹ 2,445.3	24.3 131.0	² 42.6 ² 168.1	100.1 183.1	80.0 138.5	$32.7 \\ 141.1$	46.5 138.6	90.7 147.5	22.4 144.6	2.3 159.0	8.5 184.4	19.2 227.1	51.2 162.8		
Asia; Australia and Oceania: Australia, including New Guinea mil. \$																••••••
Japan do	30,701.3	¹ 37,612.1	235.4 3,001.5	°3,720.0	152.8 2,708.0	215.3 3,586.6	162.6 2,790.4	181.1 3,759.4	215.5 3,117.2	219.7 2,887.9	220.4 3,814.7	203.1 2,904.2	252.7 3,274.0	2,695.1		······
Europe: France do German Democratic Republic (formerly	5,247.0	¹ 5,851.4	534.1	²511.0	452.7	455.6	441.9	479.5	539.7	442.8	475.6	410.1	414.0	469.8		
E. Germany) mil. \$ Federal Republic of Germany (formerly	43.9	' 47.7	. 4.4	²3.6	5.1	6.9	3.1	3.7	3.6	2.8	4.6	11.2	3.3	3.2		
W. Germany) mil. \$ Italy do Union of Soviet Socialist Republics do	11,681.2 4,313.1	¹ 11,379.0 ¹ 5,189.0 ¹ 347.5	1,055.9 503.3	² 1,087.4 ² 499.2	874.9 394.4	1,003.3 492.7	944.8 439.7	1,221.1 494.6	1,090.5 459.3	957.1 379.4	1,025.4 498.5	872.9 459.6	981.1 350.0			
United Kingdom do	453.2 9,755.1	12,834.6	8.0 906.3	² 18.4 ² 981.7	22.0 780.0	18.0 1,011.3	15.5 821.4	$10.2 \\ 1,151.5$	31.8 1,210.4	7.7 1,139.7	$25.7 \\ 1,217.6$	27.6 1,079.6	34.8 1,483.0	8.9 1,037.3	······	
North and South America: Canada do	41,455.4	¹ 46,413.8	3,603.9	²3,507.8	3,547.6	4,156.2	3,735.7	4,068.6	4,398.1	3,459.2	3,828.4	4,236.3	3,907.2	4,009.6		
Latin American republics, total # do Brazil	29,851.2 3,714.6	¹ 32,023.3 ¹ 4,474.5	2,573.1 . 376.4	² 2,759.9 ² 335.4	2,376.0 314.4	2,678.5 369.8	2,222.5 312.1	2,624.6 343.7	3,011.3 313.2	$2,550.6 \\ 346.8$	2,884.1 391.9	2,776.3 374.8	$3,061.0 \\ 427.5$	2,604.6 315.4		
Mexico do Venezuela do	12,519.5 5,297.1	¹ 13,765.1 ¹ 5,566.0	1,170.9 436.6	² 1,116.6 ² 602.2	1,255.3 312.4	$1,310.5 \\ 355.2$	$1,014.2 \\ 350.2$	1,238.3 293.0	1,578.2 399.2	1,230.8 387.0	1,435.3 281.4	1,448.9 361.9	1,299.9 504.0	1,219.1 392.3		
By commodity groups and principal commodities: Agricultural products, total mil. \$	17 495 0	117,003.4	1 967 0	21 900 0	1.140.3	1 200 1	1 004 0	1 007 0	1 000 4	1 100 0	1.050.1	1 000 0				
Nonagricultural products, total do	223,409.2	1244,301.4	18,285.2		17,173.6	1,396.1 19,419.5	1,284.0 16,610.8	1,327.2 19,456.3	1,339.4 20,476.2		1,352.1 21,519.8	1,290.3 18,885.8	1,445.6 19,790.7	1,198.4 17,754.0	1,250.8	
Food and live animals # do Beverages and tobacco	15,762.7 2,771.5 10,495.9	¹ 15,237.6 ¹ 3,138.3 ¹ 11,193.4	1,299.2 238.9 696.1	² 1,035.8 ² 285.8 ² 740.9	948.4 193.5 669.2	1,270.6 266.3 689.7	1,158.2 284.1 703.2	1,267.2 321.2 771.3	1,272.6 292.4 790.5	1,122.5 251.3 695.3	1,301.1 300.1 782.1	1,266.6 310.1 715.8	1,384.3 305.3 701.3	1,232.7 287.5 705.0	1,192.8 266.0 624.8	
Mineral fuels, lubricants, etc do	79,057.7	¹ 81.416.9	5,426.9	²7,439.3	5,107.2	5,008.9	4,311.9	4,167.4	5,426.6	5,942.7	6,353.1	5,200.6	701.3 5,946.5	5,037.4	624.8 5,467.6	
Petroleum and products do Oils and fats, animal and vegetable do Chemicals	73,770.9 533.4 8,582.7	¹ 75,577.3 ¹ 479.5 ¹ 9,445.9	4,854.3 35.3 691.3	² 6,830.8 ² 42.8 ² 777.4	4,523.2 19.2 667.7	4,504.2 40.2 872.9	3,862.8 25.4 730.2	3,749.4 38.8 840.3	5,025.3 43.1 820.7	5,454.9 31.8 698.9	5,954.0 46.6 897.6	4,741.4 24.4 869.7	5,486.9 32.2 827.0	4,419.7 32.3 739.3	28.9	
Manufactured goods # do	32,190.4	¹ 37,291.9		1.1.1	2,830.9	2,963.7	2,454.4	3,203.9	3,091.3	2,501.4	2,941.1	2,581.1	2,616.0	2,509.1	751.8 2,229.1	
Machinery and transport equipment do Machinery, total # do Transport equipment do	60,545.7 31,903.6 28,642.0	¹ 69,627.2 ¹ 38,212.2 ¹ 31,415.2 ¹ 26,216.9	5,711.3 2,971.3 2,740.0	-6,199.7 23,318.1 22,881 6	5,263.5 2,784.4 2,479.1 2,017.7	6,601.1 3,295.6 3,305.5	5,785.5 2,898.5 2,887.0	7,051.3 3,557.7 3,493.6	6,929.7 3,702.3 3,227.4	5,646.5 3,108.7 2,537.8	6,700.7 3,867.0 2,833.7	5,894.2 3,419.1 2,475 1	6,187.3 3,422.8 2,764.5	5,543.0 3,044.5 2,498.5	5,517.3	
Automobiles and parts do	24,133.9	26,216.9	2,296.2	² 2,436.4	2,017.7	2,842.8	2,522.3	2,977.3	2,780.7	2,270.6	2,532.5	2,475.1 2,202.1	2,436.6	2,498.5 2,178.6		•••••

See footnotes at end of tables.

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therwise stated in footnotes below, data	1980	1

SURVEY OF CURRENT BUSINESS

S-18		SL	JKVE	Y OF	UUR	REN'I	. ROS	DINES.						Fe	ebruar	y 19
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1980	1981	1981			,			19	82						1983
in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
FC	REIG	N TR	ADE	OF T	HE U	NITI	ED SI	ГАТЕ	s—c	ontin	ued					
Indexes																
Exports (U.S. mdse., excl. military grant-aid): Unit value	138.1 132.9 183.6	¹ 150.8 ¹ 128.8 ¹ 194.1	152.9 123.9 189.5	156.2 111.6 174.2	155.6 113.0 175.8	$154.8 \\ 129.4 \\ 200.2$	154.6 119.9 185.3	154.3 122.5 189.1	152.6 126.5 193.1	153.5 111.8 171.6	$151.3 \\ 107.1 \\ 162.1$	$150.8 \\ 107.8 \\ 162.6$	151.6 113.3 171.8	$151.0 \\ 103.2 \\ 155.8$	152.2 108.9 165.7	
General imports: Unit value do Quantity	161.4 102.6 165.5	¹ 170.3 ¹ 105.2 ¹ 179.1	167.4 96.5 161.6	170.7 109.1 186.2	171.7 87.6 150.4	170.4 100.7 171.5	169.6 86.8 147.3	167.3 102.4 171.3	165.9 108.3 179.6	$167.4 \\ 97.2 \\ 162.7$	165.1 114.0 188.3	164.1 101.3 166.2	166.2 105.2 174.7	164.1 95.3 156.5	164.2 93.8 154.0	
Shipping Weight and Value								1								
Waterborne trade: Exports (incl. reexports): Shipping weight thous. sh. tons Value	401,172 118,835	'406,796 '123,495	37,820 10,350	29,927 9,657	32,880 9,856	37,243 11,113	37,240 10,237	37,178 10,299	37,012 10,514	31,425 9,080						
General imports: Shipping weight thous. sh. tons Value mil. \$	487,936 164,924	1464,420 1177,059	31,864 12,863	°39,974 °15,694	27,342 11,465	28,615 12,995	26,025 11,010	27,300 13,170	34,464 13,875	33,829 12,924						
		ANSF							CATI	ON				, I		· · ·
TRANSPORTATION																
Air Carriers (Scheduled Service)			· .													
Certificated route carriers: Passenger-miles (revenue)bil. Passenger-load factorpercent Ton-miles (revenue), totalmil.	$254.18 \\ 59.0 \\ 32,487$	248.39 58.5 31,886	20.38 57.2 2,651	19.62 55.5 2,457	17.65 55.3 2,280	21.71 60.7 2,768	$21.58 \\ 61.2 \\ 2,715$	58.4	23.67 63.6 2,910	25.16 63.0 3,094	25.82 64.0 3,153	54.9 2,583			·····	
Operating revenues (quarterly) # § mil. \$ Passenger revenues do	233,728 28,049	36,502 30,579	8,776 7,238		••••••	8,415 7,039			9,222 7,767				·			
Cargo revenues	² 2,432 623 ² 33,949 ² –124	2,480 675 ²36,922 533	651 192 9,284 -386		•••••	556 172 9,046 –689	······		602 171 9,063 43		······	601 165 8,479 172	·····			
Domestic operations: Passenger-miles (revenue) bil Cargo ton-miles	200.09 3,274 944	198.13 3,338 994	16.70 264 111	15.92 225 79	14.80 230 77	18.29 269 87	17.76 249 85	257	18.97 250 77	19.79 254 79	20.23 258 77	15.61 254 80				
Operating revenues (quarterly) § mil. \$ Operating expenses (quarterly) § do Net income after taxes (quarterly) § do	26,404 26,409 ²156	² 29,014 29,277 ² –360	6,999 7,389 -322	•••••		6,832 7,373 -501			7,350 7,231 31	·····		7,604 7,431 65	······			
International operations: Passenger-miles (revenue) bil Cargo ton-miles mil. Mail ton-miles do	54.09 2,458 392	50.28 2,337 376	3.68 194 43	3.70 162 29	2.85 180 29	33	3.83 191 32	202 32	4.70 185 31	5.36 214 32	5.59 203 32	31				
Operating revenues (quarterly) § mil. \$ Operating expenses (quarterly) § do Net income after taxes (quarterly) § do Urban Transit Systems	² 6,543 ² 6,766 –270	² 6,390 ² 6,595 –186	1,501 1,625 -59			1,366 1,444 –94	·····		1,601 1,574 13	······	•••••	1,912 1,777 83	•••••			······
Passengers carried, totalmil	8,228	7,948	651	603	623	720	650	636	645	584	631	636	678	654	654	
Motor Carriers Carriers of property, large, class I, qtrly.: @																
Number of reporting carriers	100 15,432 304	100 16,489 199	100 4,247 10			100 3,587 48			100 3,910 58			100 3,937 48				
Tonnage hauled (revenue), common and contract carrier servicemil. tons.	189	182	45			39			41	·····		40				
Freight carried—volume indexes, class I and II intercity truck tonnage (ATA): Common and contract carriers of property (dtrly)														•••••	•••••	
seas. adj 1967=100 Class I Railroads ‡	148.7	147.1	126.2	127.9	131.8	128.0	131.4	132.9	132.9	132.1	133.9	131.5	*124.6	119.6'	₽1 18 .1	
Financial operations, qtrly. (AAR), excl. Amtrak: Operating revenues, total # mil. \$ Freight	28,258 26,350	30,904 28,925	7,697 7,191			7,190 6,707			7,222 6,746			6,612 6,148			•••••	
Passenger, excl. Amtrakdo Operating expensesdo Net railway operating incomedo Ordinary incomedo	439 26,351 1,342 ³ 1,130	535 28,583 1,362 32,055	143 7,113 192 580			142 6,821 204 216			145 6,821 265 340			145 6,500 114 161				
Traffic: Ton-miles of freight (net), total, qtrly	920.6 918.6 284.5	^r 911.7 r910.2 327.6	224.9 225.1 337.8	350.4	350.6	207.4 207.4 350.5	351.2		208.0 208.0 351.5		352.0	190.9 351.9	351.9	351.9	191.4 352.1	4
Hotels and motor-hotels: Restaurant sales index same month 1967=100 Hotels: Average room sale ¶	182 49.48 65 35.30	194 56.39 68 38.31	195 57.95 50 38.21	*159 60.33 57 40.22		*63.96 *71 *41.79	68 41.41	68 41.30	41.02	212 58.66 64 43.15	191 59.17 65 41.77	41.89	210 64.28 70 41.26	187 61.87 62 39.19		
Rooms occupied % of total. Foreign travel: U.S. citizens: Arrivals (quarterly)thous	29,010	8,905	1,965			2,051	70 4729 4830	4772		72 41,022 41,087	72 41,093 4961	4786	65 4795 4762	58 4600 4623		
Departures (quarterly) do Aliens: Arrivals (quarterly) do Departures (quarterly) do Passports issued	² 9,971 ² 11,252 ² 9,285 3,020 59,081	9,978 11,976 9,933 3,222 62,237	2,208 2,681 2,339 210 2,023	208 1,683	260 r2.084	2,192 2,381 1,931 271 r2,691	*883 *732 395	*865 *705 371	*973 *765 496	*1,087 *1,249 *870 382 *11,043	41,237 41,039 305	⁴943 ⁴759 236	4838 4737 223 5,532	4686 4602 228 2,890	288	p

February 1983		St	JRVE	Y OF	CUR	RENI	BUS	SINES	SS	•						S-19
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1980	1981	1981						19	82						1983
in the 1979 edition of BUSINESS STATISTICS	Anr	nual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
TR	ANSF	PORTA	ATIO I	N AN	D CO	MMU	JNIC	ATIO	N—C	ontir	ued	· -				
COMMUNICATION										· .						
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.	56,738 24,333 22,983 37,983 10,194 159.9	66,498 28,117 26,505 44,594 11,903 164.9	5,978 2,503 2,394 4,505 865 164.9	5,911 2,508 2,324 3,924 1,041 164.5	5,802 2,515 2,163 3,944 987	6,163 2,552 2,468 4,304 996 164.1	6,128 2,604 2,348 4,229 1,011 164.3	6,080 2,591 2,321 4,216 998		6,225 2,665 2,348 4,292 1,059 162.2	6,329 2,679 2,428 4,189 1,148 161.7	6,291 2,712 2,338 4,366 987 161.4	6,327 2,736 2,334 4,417 986 160.8	· · · · · · · · · · · · · · · · · · ·		
Telegraph carriers: Domestic:	155.5	104.9	104.9	104.5	164.4	104.1	104.5	164.1	102.7	102.2	101.7	101.4	160.8	•••••		
Operating revenues	697.0 561.4 95.9	779.2 623.8 112.7	68.3 49.6 9.6	64.2 51.8 8.7	64.3 52.2 8.4	70.3 55.3 10.5	66.9 54.0 9.4	68.1 55.4 9.0	70.0 55.8 10.6	68.4 56.6 8.2	69.1 59.2 6.5	66.9 69.6 -7.0	66.5 54.3 8.4			
Operating revenues	^{\$} 534.7 ^{\$} 374.8 ^{\$} 137.0	578.0 436.2 117.0	47.1 36.3 9.3	48.7 39.0 7.5	48.8 38.3 8.4	54.7 39.9 12.6	50.5 38.9 9.3	50.9 41.2 7.5	41.7	48.2 40.2 5.8	50.0 42.0 5.5	51.9 43.1 4.0	50.3 42.6 5.3			
		CHEN	MICA	LS A	ND A	LLIE	D PI	RODI	JCTS						:	
CHEMICALS Inorganic Chemicals																
Inorganic Chemicals Production: Aluminum sulfate, commercial (17% Al ₂ O ₃) ‡															1	
Automitti sunate, commercial $(1', \%, M_2 \odot_3) \pm$ thous. sh. tons Chlorine gas (100% Cl ₂) \pm do Hydrochloric acid (100% HCl) \pm	1,286 11,421 2,895 432	1,206 10,556 2,444 426	101 770 184 30	87 768 210 30	$101 \\ 786 \\ 227 \\ 27 \\ 27$	$118 \\ 815 \\ 251 \\ 34$	95 828 218 33	91 794 215 31	111 782 225 31	94 783 198 31	111 698 199 26	99 684 183 29	84 743 192 31			·····
Sodium hydroxide (100% NaOH) ‡do Sodium silicate, anhydrous ‡do Sodium sulfate, anhydrous ‡do	11,606 786 1,139	10,650 738 1,162	771 54 97	764 48 82	767 64 84	801 62 81	837 64 74	807 51 73	786 54 72	794 44 71	731 54 74	696 53 70	767 55 72	: 		
Sodium tripolyphosphate (100% Na _s P ₃ O ₁₀) ‡ do Titanium dioxide (composite and pure) ‡ do	¹ 727 727	690 748	57 55	52 44	56 58	57 56	48 55	53 53	55 51	41 53	54 52	51 58	56 51		·····	
Sulfur, native (Frasch) and recovered: Production	10,298 3,045	10,440 3,577	844 3,577	782 3,651	718 3,697	808 3,775	755 3,911	726 4,152	687 4,195	686 4,231	685 4,202	651 4,229	643 4,160	'658 '4,199	663 4,175	
Inorganic Fertilizer Materials Productión:																
Ammonia, synthetic anhydrous ‡ thous. sh. tons Ammonium nitrate, original solution ‡ do Ammonium sulfate ‡ do Nitric acid (100% HNO ₃) ‡	19,653 9,127 2,136 9,232	19,043 8,791 41,642 9,039	$^{1,570}_{768}$	$1,361 \\ 705 \\ 136 \\ 682$	1,296 680 159 692	$1,434 \\ 812 \\ 164 \\ 822$	1,498 701 174 716	1,523 664 154 664	1,356 573 156 585	1,203 490 161 524	$1,173 \\ 515 \\ 146 \\ 543$	$1,196 \\ 516 \\ 141 \\ 558$	"1,167 559 "145 "608	1,144 569 132 599		
	2,773 10,938 44,157	⁴ 2,951 9,914 40,795	⁴ 223 707 2,888	4196 659 2,638	⁴ 202 672 2,625	⁴ 258 748 2,818	⁴ 244 663 2,612	4268 640 2,443	⁴ 230 673 2,462	⁴ 211 696 2,551	°185 760 2,703	4211 749 2,772	°134 802 2,894	°152 694 2,743		
Superphosphate and other phosphatic fertilizers (100% P ₂ O ₂): Production thous sh. tons Stocks, end of period	8,339 372	³ 16,903 ³ 1,068	$1,076 \\ 1,068$	1,128 1,197	$1,213 \\ 1,306$	1,240 1,317	983 1,200	857 929	967 917	1,065 998	1,184 926	1,230 909	'1,258 '881	966 885		••••••
Potash, deliveries (K ₂ O) 1 do Exports, total # do Nitrogenous materials do	6,950 29,445 3,668	6,478 22,391 2,834	614 1,834 246	416 1,497 243	396 1,637 212	417 2,031 274	618 1,582 259	552 1,736 244	375 1,811 251	340 1,872 317	517 1,734 148	389 1,756 229	358 1,580 207	313 1,912 139	*495 1,193 125	
Phosphate materials do Potash materials do	17,524 1,815	13,308 1,203	$\substack{1,148\\100}$	860 62	$\substack{1,135\\30}$	1,309 106	992 37	1,022 109	911 142	933 146	979 139	1,013 158	982 64	1,177 172	684 55	
Imports: do Ammonium nitrate do Ammonium sulfate do Potassium chloride do Sodium nitrate do	247 289 8,907 158	264 327 8,601 159	17 58 719 0	21 20 670 12	$16 \\ 24 \\ 552 \\ 0$	18 34 582 21	33 51 722 9	51 23 664 22	29 30 483 19	19 20 599 5	16 5 643 18	16 25 504 (⁷)	$17 \\ 33 \\ 661 \\ 0$	$15 \\ 28 \\ 489 \\ 15$	$12 \\ 25 \\ 584 \\ 9$	
Industrial Gases																
Production: Acetylene ‡ mil. cu. ft Carbon dioxide, liquid, gas, and solid	5,493	5,161	471	296	376	509	435	406	288	317	284	271	254			••••••
Hydrogen (high and low purity) ‡ do Nitrogen (high and low purity) ‡ do Oxygen (high and low purity) ‡ do	*3,005 106,562 479,240 430,977	°3,813 103,278 490,285 430,610	*289 8,171 39,680 32,220	⁶ 262 7,189 40,745 31,827	⁶ 286 7,692 38,194 31,399	°334 7,893 41,591 35,306	⁶ 297 7,597 39,063 31,483	°317 7,679 39,142 30,689	*333 7,637 40,833 30,678	°330 7,773 41,133 30,044	°325 7,515 42,247 28,742	⁸ 295 7,276 40,190 27,241	°287 7,804 40,987 27,378			
Organic Chemicals § Production:	* .															
Acetylsalicylic acid (aspirin)mil. lb Crosote oil mil. gal. Ethyl acetate (85%)mil lb Formaldehyde (37% HCHO) do	¹ 33.7 152.5 ¹ 233.6 ¹ 5,555.3	¹ 29.7 ^{r1} 81.9 ¹ 277.1 ¹ 5,720.7	$1.8 \\ 8.8 \\ 18.2 \\ 376.5$	$2.1 \\ 5.2 \\ 13.7 \\ 375.0$	$2.4 \\ 6.4 \\ 11.0 \\ 379.0$	2.7 8.2 24.8 398.4	2.2 24.0 443.8	2.0 8.5 24.3 402.3	1.4 19.9 368.2	1.6 5.8 19.7 334.7	1.7 5.7 18.8 391.3	6.6 19.2 394.6	2.0 4.3 12.9 427.5	10.3 382.4	18.7 307.0	
Glycerin, refined, all grades	314.8 ¹ 1,077.3 ¹ 818.2	299.1 ¹ 1,291.7 ¹ 869.5	$16.7 \\ 121.5 \\ 57.1$	17.5 93.0 53.8	$18.6 \\ 85.8 \\ 42.1$	20.4 109.8 75.6	22.8 110.9 64.7	19.2 95.6 68.5	18.7 104.2 53.7	20.4 97.4 57.2	16.4 76.7 48.0	18.7 77.3 69.0	21.5 94.3 54.4	'21.5 83.2 58.7	14.1 97.1 48.0	••••••
ALCOHOL Ethyl alcohol and spirits: Production	643.2 72.0	571.2 83.2	45.4 83.2	42.9 79.8	39.8 81.6	48.2 72.8	37.6 64.0	41.9 57.5	$52.6 \\ 58.0$	51.9 59.9	44.3 55.7	53.3 49.1				
Denatured alcohol: Productionmil. wine gal Consumption (withdrawals)	$301.2 \\ 284.2$	230.2 *225.9	18.1 16.3	18.7 18.3	$17.2 \\ 15.2$	22.4 22.8	19.9 18.5	$20.3 \\ 20.2$	$21.9 \\ 21.7$	23.5 22.4	22.1. 23.2	$25.6 \\ 25.5$	23.7 23.6			
Stocks, end of periodl ee footnotes at end of tables.	10.1	5.0	5.0	4.7	6.2	4.8	4.8	4.5	4.7	5.1	4.0	4.0	3.91		i	•••••

See footnotes at end of tables.

SURVEY OF CURRENT BUSINESS

February 1983

S-20				I OF	COR	IVEN I	. DUS	SINES	5					r	ebrua	ry 19
Unless otherwise stated in footnotes below, data brough 1978 and descriptive notes are as shown	1980	1981	1981						19	32						1983
n the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jar
	CHEN	AICAI	S AN	ID AI	LIEI	D PR	ODU	CTS-	-Cont	inued	1			2		•
PLASTICS AND RESIN MATERIALS																
Production: Phenolic resinsmil. lb Polyethylene and copolymersdo Polystyrene and copolymersdo Polystyrene and copolymersdo Polystyrene and copolymers	¹ 1,744.9 ¹ 11,719.9 ¹ 3,699.0 ¹ 5,540.1 ¹ 5,485.4	¹ 1,688.0 ¹ 12,603.6 ¹ 4,007.8 ¹ 5,915.2 ¹ 5,618.4	101.8 825.9 273.3 404.6 310.6	93.2 814.6 276.4 351.8 329.0	100.7 845.8 304.5 397.5 384.5	$101.5 \\1,012.5 \\347.9 \\432.8 \\436.9$	$103.7 \\ 955.5 \\ 321.8 \\ 414.4 \\ 426.2$	$102.5 \\ 942.3 \\ 287.8 \\ 435.4 \\ 491.4$	102.7 944.7 271.6 422.2 490.5	89.7 974.4 261.0 432.1 374.3	$91.8 \\ 1,053.7 \\ 273.1 \\ 441.1 \\ 408.5$	$101.1 \\ 1,053.7 \\ 280.4 \\ 460.5 \\ 481.0$	$107.0 \\998.4 \\287.5 \\434.0 \\454.9$	93.4 1,020.1 311.0 421.1 452.4	91.3 1,083.4 286.4 352.1 405.5	
Explosives (industrial), shipments, quarterly											1. A. A.					
Paints, varnish, and lacquer, shipments: mil. lb Total shipments mil \$ Architectural coatings do Product finishes (OEM)	¹ 3,000.4 7,635.9 3,641.2	3,003.6 8,395.7 3,968.9	816.7 513.6 225.9 186.0	544.9 234.8 201.9	579.9 274.2 196.3	687.0 711.7 355.5 219.8	741.0 362.9 220.3	791.2 415.9	675.1 835.1 433.6 235.4	744.9 390.7 204.0	798.2 408.7	582.9 773.8 379.3 234.4	¹ 656.4 1302.4 1206.4	589.9 253.3 204.2	569.9	
Special purpose coatings do	2,418.5 1,576.2	2,737.2 1,689.5	101.7	108.2	196.3	136.4	157.9	222.8 152.5	235.4 166.1	204.0 150.2	222.6 166.9	254.4 160.1	*147.6	132.3		
6]	ELEC	TRIC	POV	VER .	AND	GAS								
ELECTRIC POWER																
Production: Electric utilities, totalmil. kwhr. By fuelsdo By waterpowerdo	2,286,439 2,010,418 276,021	2,294,812 2,034,129 260,684	195,590 171,711 23,879	210,098 183,195 26,904	180,310 153,614 26,698	157,784	172,588 144,661 27,928	177,261 149,199 28,063	186,204 158,178 28,027	210,543 183,131 27,412	205,656 181,768 23,888	180,662 160,766 19,896	172,967 153,216 19,751		·	
Sales to ultimate customers, total (Edison Electric Institute) ‡do	2,126,094 524,122 793,812	2,153,796 541,426 799,885	131,742			³ 542,662 ³ 137,466 ³ 185,625			512,758 133,118 188,374			563,084 151,910 193,918				
Railways and railroads do	4,275	4,091	1,004			°1.059			1,006			1,038				
Residential or domestic do Street and highway lighting do Other public authorities do Interdepartmental do	734,411 14,832 48,284 6,358	735,724 14,975 51,055 6,640	174,008 3,830 12,424 1,581			³ 204,112 ³ 3,936 ³ 12,938 ³ 1,527			3,458 13,358 1,581			198,141 3,633 12,901 1,543				
Revenue from sales to ultimate customers (Edison Electric Institute) ‡ mil. \$ GAS	95,462	111,584	27,810			³ 30,513			29,440			33,485				
Total utility gas, quarterly (American Gas Association):	47,263	47,859	47,859			48,352			40.050		:	47 894				
Customers, end of period, totalthous. Residentialdo. Commercial do Industrial do	43,528 3,499 188	44,059 3,563 189	44,059 3,563 189			44,466 3,644 194			44,405 3,613 187			44,116 3,546 184		·····		
Other do Sales to customers, total tril. Btu	48 15,409	48 15,338	48 3,844			49 5,332			48 3,051		······	· 48 2,399				
Residentialdo Commercialdo Industrialdo Other do	4,823 2,442 7,862 283	r4,573 r2,357 r8,165 r243	1,227 642 1,902 73			2,279 1,078 1,875 100			876 459 1,674 42			405 285 1,670 39				
Revenue from sales to customers, total mil. \$	48,276	156,478	15,199			22,859			13,348			10,789				
Residentialdo Commercial do. Industrial do. Other do.	17,409 8,149 22,081 637	*19,208 *9,267 *27,276 *727	5,478 2,683 6,812 226			10,449 4,787 7,272 351		·	4,408 2,162 6,607 172			2,395 1,409 6,832 152				
	FO	OD A	ND K	INDI	RED	PROI	DUCT	S; TO	BAC	CO						
ALCOHOLIC BEVERAGES									_		<u>·</u>					·
Beer: Productionmil. bbl Taxable withdrawalsdo Stocks, end of perioddo.	194.08 173.37 13.96	193.69 176.70 12.95	13.93 12.91 12.95	15.19 11.90 14.16	15.00 12.91 14.93	17.65 15.68 16.32	17.62 15.82 15.83	18.22 16.56 15.59	18.19 17.22 15.28	17.17 16.10 14.45	19.50 16.26 14.31	15.64 14.88 13.99	15.07 13.83 14.00	13.65 13.14 13.43		
Distilled spirits (total): Production mil. tax gal.	140.53	152.03	14.05	11.02	12.34	15.28	13.59	10.98	10.83	6.85	6.57	10.50	14.68			
Consumption, apparent, for beverage purposes ‡mil. wine gal Stocks, end of period ‡mil. tax gal Importsmil. proof gal	² 449.42 623.26 113.71	449.45 613.76 117.93	54.09 613.76 9.12	30.70 612.96 7.03	30.22 608.32 6.33	35.69	36.13 621.06 7.98	33.29	38.32 616.84 10.86	33.47 614.96 7.29	$32.74 \\ 565.60 \\ 8.95$	34.93 604.93 9.87	36.33 605.53 12.75	11.75		
Whisky: Production ‡ mil. tax gal. Stocks, end of period ‡ do Imports	. 554.88	96.66 541.07 86.53	9.06 541.07 6.62	7.37 541.03 4.91	8.88 543.22 4.65	10.32 545.29 4.06	10.20 547.76 5.91	7.54 547.25 6.88	7.81 545.48 8.09	4.94 544.59 5.40	4.57 501.07 5.88	6.66 539.59 7.19	8.31 536.00 9.89	8.18		
Wines and distilling materials: Effervescent wines: Productionmil. wine gal Taxable withdrawalsdo	26.20 25.28 9.27	30.73 27.27 11.53	1.95 2.72 11.53	1.83 1.15 12.67	1.89 1.12 13.09	2.06 1.93	1.92 1.62 13.59	2.18 2.57 13.36	2.92 1.98 13.65	$2.51 \\ 1.21 \\ 15.52$	$3.11 \\ 2.17 \\ 15.56$	3.39 1.90 16.52	3.77 6.55 14.64	2.70 2.85 14.02		
Stocks, end of perioddo Importsdo Still wines: Production ‡do	4.83 509.05	7.66 r466.23	1.01 15.00	0.53 4.02	0.33 6.03	0.45	0.52 4.87	0.67	0.70 4.97	0.52 5.18	0.67 29.96	0.71 162.79	0.81 229.61	1.13 72.07	1.29	
Taxable withdrawals ‡ do Stocks, end of period ‡ do Imports do	610.53	363.63 604.31 107.60	30.96 604.31 10.91	28.98 575.15 9.96 2.88	25.63 557.53 6.49		30.03 492.03 8.16 11.35	9.45	30.96 435.01 10.61 2.08	25.76 408.23 8.83 1.86	29.17 395.40 9.99 11.68	9.93	9.13	71.06 705.62 11.94	·	

February 1983		S	URVE	Y OF	CUR	REN	T BU	SINE	ss					:		S-21
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1980	1981	1981	l.		. ·		.	19	982	,					1983
in the 1979 edition of BUSINESS STATISTICS	Anr	ual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
FO	OD A	ND K	INDR	ED P	ROD	UCT	S; ТО	BAC	CO(Conti	nued					
DAIRY PRODUCTS																1
Butter, creamery: Production (factory) @ mil. lb Stocks, cold storage, end of period do Price, wholesale, 92 score (N.Y.)	1,145.3 304.6 1.448	1,228.2 429.2 1.535	109.5 429.2	128.3 433.1	116.8 440.4				*332.9 *541.6			262.2 510.0			295.1 463.2	
Cheese: Production (factory), total @mil. lb.: American, whole milk @do	3,984.3 2,375.8	4,229.0 2,608.5	368.6 220.5	347.0 218.4	325.8 204.9				\$1,178.8 \$740.9			1,099.5			1,104.6 633.8	
Stocks, cold storage, end of period do American, whole milk do Imports	578.8 479.6 231.2	709.6 623.0 247.7	709.6 623.0 52.9	717.3 632.0 19.0	696.4 622.6 11.8	641.6			*804.4 *712.3			. 871.2			954.9 871.4	
Price, wholesale, cheddar, single daisies (Chicago) \$ per lb	1.562	1.672	1.684	1.684	1.684									28.7 1.686	46.8 1.686	
Condensed and evaporated milk: Production, case goods @mil. lb Stocks, manufacturers', case goods, end of	724.7	757.9	68.6	58.1	53.6				*195.0			. 185.6			184.6	
periodmil. lb Exports do	51.8 43.4	46.0 34.9	46.0 3.7	45.5 2.2	40.7 5.0	47.7	i .	1	*89.1 2.5	2.4	0.6	. 103.3 6 0.5	0.3		56.9 0.6	
Fluid milk: Production on farms ‡ do Utilization in mfd. dairy products @ do Price, wholesale, U.S. average\$ per 100 lb	$128,525 \\ 71,665 \\ 13.00$	'133,013 76,004 13.80	'10,905 6,208 14.00	'11,116 6,370 13.90	'10,391 6,099 13.80			13.20	**35,723 *21,419 13.10	13.20	13.20	- ⁷ 33,983 19,431 13.50	13.80	14.00	r32,854 18,107 r13.90	¹⁰ 11,292 P13.90
Dry milk: Production: Dry whole milk @mil. lb Nonfat dry milk (human food) @mid	82.7 1,160.7	92.7 1,314.3	8.9 110.1	9.2 104.1	8.0 107.2	9.4 125.3			⁸ 29.2 ⁸ 417.2			21.4 346.7			24.5 296.8	
Stocks, manufacturers', end of period: Dry whole milk do Nonfat dry milk (human food) do	5.3 85.0	6.0 86.7	6.0 86.7	7.6 87.7	6.9 94.5				^{\$9.6} \$127.5			7.3 89.8			6.0 93.3	
Exports, whole and nonfat (human food) do Price, manufacturers' average selling, nonfat dry	176.2 0.887	198.0	2.0	9.4	12.6	17.4	11.4	18.2		23.1	1		12.1	22.4	10.4	
milk (human food) \$ per lb GRAIN AND GRAIN PRODUCTS		0.939	0.940	0.936	0.936	0.937	(7)									•••••
Exports (barley, corn, oats, rye, wheat) mil. bu Barley: Production (crop estimate) ¶ do	3,914.4 ² 361.0	3,918.3 ²479.3	318.6	285.8	299.5	360.9	353.7	339.4	344.8	243.7	248.5	245.8	268.7	269.1	264.9 °522.4	
Stocks (domestic), end of period, total ‡ do On farms ‡ Off farms	303.4 185.6 117.8	r333.1 r231.2 r101.9	"333.1 "231.2 "101.9	·····	·····	r226.9 r147.5 r79.4		r4149.7 r494.1 455.7				^{1501.4} 1353.4 148.0			418.7 293.9 124.8	
Exports, including malt § do	68.9	95.9	7.7	8.5	8.2	6.5	3.9	7.5	6.3	4.9	8.6	5.7	1.5	3.0	1.9	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	² 6,644.8 5,858.8 4,141.5 1,717.3	² 8,201.6 ¹ 6,967.7 ¹ 5,033.8 ¹ 1,933.8	r6,967.7 r5,033.8 r1,933.8	······		"5,131.8 "3,625.9 "1,505.9		**************************************				r ⁵ 2,285.9 r ⁵ 1,356.0 r ⁵ 929.9			*8,397.3 8,422.7 6,156.9 2,265.8	
Exports, including meal and flour do	2,485.3	2,159.3	172.4	151.1	147.2	189.3	195.0	212.4	179.8	119.8	112.8	107.4	166.5	169.8	173.8	•••••
Production (crop estimate) ¶mil. bu Stocks (domestic), end of period, total ‡ do On farms ‡	² 458.3 391.0 329.3 61.7	² 509.2 ⁷ 365.2 ⁷ 314.1 51.1	^r 365.2 ^r 314.1 51.1			*236.9 *200.5 36.3		r4152.0 r4127.2 424.8				^{1581.3} ^{1486.0} ^{195.3}			°617.0 473.6 397.9 75.7	
Exports, including oatmeal	9.1 (⁷)	12.8	0.3	0.6	0.3	0.6	0.8	0.6	0.8	0.3	0.3		0.8	0.2	0.3	
tice: Production (crop estimate)mil. bags # California mills:	² 146.2	²182.7													°154.2	
Receipts, domestic, roughmil. lb Shipments from mills, milled ricedo Stocks, rough and cleaned (cleaned basis), end of period	3,582 2,711 231	3,359 2,267 510	287 97 510	84 70 493	184 62 550	221 76 628	202 129 639	204 210 577	77 279 356	723 161 344	225 332 174	76 110 108	505 81 369	346 63 462	139 47 503	
Southern States mills (Ark., La., Tenn., Tex.): Receipts, rough, from producers	10,831 6,795	10,821 7,354	768 654	505 612	683 564	784 685	702 662	552 602	406 583	434 505	1,198 559	3,278 615	1,507 541	402 714 542	720 550	
Stocks, domestic, rough and cleaned (cleaned basis), end of periodmil. lb Exports	2,969 6,620	2,763 6,801	2,763 458	2,572 479	2,300 515	2,132 399	1,868 487	1,610 661	1,308 538	1,012 370	1,270 809	2,826 320	3,276 431	3,232 199	3,170 307	
Price, wholesale, No. 2, medium grain (South- west Louisiana)	0.225	0.256	0.195	0.185	0.175	0.160	0.158	0.165	0.163	0.160	0.165	0.165	0.165	0.155	0.180	0.170
ye: Production (crop estimate) ¶ mil. bu Stocks (domestic), end of period ‡ do	² 16.5 9.3	²18.8 ^r 7.9	۰ 7.9			¹ 5.8	••••••	 43.1				·16.5			⁹ 20.8 10.9	
/heat: Production (crop estimate), total ¶ mil. bu Spring wheat ¶ do Winter wheat ¶ do	² 2,374 ² 479 ² 1,895	² 2,799 ² 695 ² 2,104										······			9700	
Distribution, quarterly @ @ do Stocks (domestic), end of period, total ‡ do On farms ‡	2,191 1,903.2 753.4	2,523 *2,178.0 *955.6	559 r2,178.0 r955.6			620 *1,557.1 *748.4		**1,163.9 **581.0	*394 		······	*964 *2,987.1 *1,421.0			2,521.4	
Off farms do Exports, total, including flour do	1,149.7 1,344.5	"1,222.4 1,647.7	'1,222.4 137.8	125.6	143.8	808.7 164.5	154.1	*582.9 118.9	 157.9	118.7	126.8	°1,566.0 132.4	99.9	96.0	1,354.0 88.9	
Wheat only do l ee footnotes at end of tables.	1,309.5	1,610.8	137.4	124.2	138.7	159.1	147.4	114.8	155.7	117.9	124.0	130.8	98.5	94.1	88.5 İ	•••••

February 1983

Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	·	1981	1981	·····					19	82		r1				1983
n the 1979 edition of BUSINESS STATISTICS		ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan
FO	OD Al	ND KI	NDR	ED P	ROD	UCTS	5; TO	BACC	х о—с	ontir	nued					
GRAIN AND GRAIN PRODUCTS—Continued																
Wheat flour: Production:	000 075	000.000	00 001	00.005	00 550	05 050	00.4774	01.000	00.4771	00.150	04 660	04 01 0	104.065	00 504		
Flour ‡thous. sacks (100 lb.). Millfeed ‡thous. sh. tons.	. 282,655	283,966 5,045	22,321	23,985 432	23,553 423	25,256 453	22,474 403	21,886 393	22,471 406	23,153 424	24,669 448	24,213 435	"24,965 "450	23,584 431		······
Grindings of wheat ‡ thous. bu. Stocks held by mills, end of period		634,381	50,197	53,740	52,786	56,663	50,348	49,018	50,215	52,333	55,826	54,340	r56,328	53,153		
thous. sacks (100 lb.). Exports do	. 3,842 . 15,014	$3,460 \\ 15,839$	3,460 184		2,165	3,384 2,336	2,858	1,760	3,744 944	352	1,196	3,563 698	593	824	185	••••••
Prices, wholesale: Spring, standard patent (Minneapolis)	110 500	10.044	10.000	10 700	10.070	10 700	10 500	10 550	10 500	10 500	10.100	10.475	10.388	10.463	10.450	10
\$ per 100 lb. Winter, hard, 95% patent (Kans. City) do	. ¹ 10.566 . ¹ 10.116	10.844 10.347	10.338 	10.763 10.638	$10.950 \\ 10.700$	$10.738 \\ 10.638$	$10.538 \\ 10.425$	10.550	10.500	10.538	10.188	10.475		10.463	10.450	10
POULTRY AND EGGS																
Poultry: Slaughtermil. lb.	. 14,233	15,058	1,232	1,087	1,070	1,253	1,220	1,222	1,360	1,306	1,377	· 1,364	1,338	1,27 0	1,215	
Stocks, cold storage (frozen), end of period, total mil. lb.	. 339	392	392	378	374	377			4 425			565			345	
Turkeys do Price, in Georgia producing area, live broilers		238	238	238	236	233	•••••		4282		·····	436			206	
Sggs:	. 0.270	0.265	0.230	0.255	0.250	0.256	0.235	0.260	0.270	0.270	0.250	0.265	0.230	0.230	0.235	_0
Production on farms mil. cases §. Stocks, cold storage, end of period:	. 193.6	* 194 .0			r*48.5	•••••		r48.8			r47.9	•••••		^r 48.4		
Shell		35 22	35 22	26 21	19 19	39 17			*32 *23			29 28			35 27	
Price, wholesale, large (delivered; Chicago) \$ per doz.		0.690	0.721	0.762	0.742	0.752	0.683	0.604	0.608	0.617	0.616	0.659	0.668	0.662	0.641	0
LIVESTOCK																
Cattle and calves:																
Slaughter (federally inspected): Calves thous. animals.	. 2,294	2,478	254	$228 \\ 2.771$	$210 \\ 2,591$	263			4608 48,193			693 8,770			726 8,762	
Cattle do Prices, wholesale:	31,642	32,819	2,829	2,111	2,091	2,819			0,195			0,170				
Beef steers (Omaha)		63.84 64.26	59.24 58.96	60.75 59.22	63.54 62.37	65.80 63.96		72.10 66.07	70.18 63.70		65.14 66.42		58.78 62.21	58.91 61.24	59.82 59.17	8
Calves, vealers (So. St. Paul) do		77.25	67.50	69.00	67.50	71.50	78.00	82.88			81.12		75.00	75.00	78.40	· 8
Hogs: Slaughter (federally inspected) thous. animals. Prices:	91,882	87,850	7,923	6,875	6,340	7,691			420,043			18,310			20,068	
Wholesale, average, all weights (Sioux City)																
\$ per 100 lb. Hog-corn price ratio (bu. of corn equal in value	39.48	44.29	40.17	45.77	49.70	49.50		58.35		59.70			57.27	53.90	55.23	
to 100 lb. live hog)		14.9	16.3	17.1	19.8	19.8	20.1	21.8	22.4	23.2	26.7	28.6	28.2	24.6	*23.7	
Sheep and lambs: Slaughter (federally inspected) thous. animals.	5,363	5,789	522	510	490	570			41,493			1,577			1,634	
Price, wholesale, lambs, average (Omaha) \$ per 100 lb.	59.81	52.23	45.10	49.75	51.50	59.00	59.50	66.25	60.50	57.25	50.50	50.00	48.25	46.75	48.50	ł
MEATS									ļ							
Fotal meats (excluding lard): Production, totalmil. lb.	38,590	38,675	3,417	3,152	2,894	3,296			49,097			9,163			9,659	
Stocks, cold storage, end of period	750	578 1,847	578 153	554 129	524 147	536 124	131		4504 147		108	474	133	143	566 115	
Imports (meat and meat preparations) do	2,052	1,832	118	127	106	160	169	167	215		234				114	
Beef and veal: Production, total do	21,849	22,629							45,462			5,835			5,927	
Stocks, cold storage, end of period do Exports	338 425	266 486	266 43	258 33	232	220 44	40		4197 49	40	41		52	56		
Imports do			80	93	72	108	130	116	158	113	180	194	146	67	69	
Price, wholesale, beef, fresh, steer carcasses, choice (600-700 lbs.) (Central U.S.) \$ per lb.	1.044	0.998	0.937	0.974	1.012	1.038	1.095	1.151	1.112	1.026	1.008	0.955	0.930	0.929	0.926	
Lamb and mutton: Production, totalmil. lb.	310	328	30	29	28	33			485		. 	88			93	
Stocks, cold storage, end of period do		11	.11	10	8	. 9			48			9			9	
Pork (excluding lard): Production, totalmil. lb	16,431	15,719	1,445	1,234	1,116	1,346			43,550			3,239			3,639	
Stocks, cold storage, end of period do Exports do	349 314	347	264 29	249 30	246	274	22	42	4264 32	19			17	22	225 19	
Imports do	433	432	33	30	30	46	34	43	50	42	45	44	43	51	40	
Prices, wholesale: Hams, smoked # Index, 1967=100	² 254.8	266.5		271.1	278.6	282.4		289.2 1.301	299.4 1.386					342.0 1.232		
Fresh loins, 8-14 lb. average (N.Y.) \$ per lb MISCELLANEOUS FOOD PRODUCTS	1.011	1.137	1.007	1.209	1.169	1.100	1.186	1.301	1.500	1.570	1.300	1.415	1.040	1.202	1.223	
Cocoa (cacao) beans:		-														
Imports (incl. shells)thous. lg. tons Price, wholesale, Accra (New York) \$ per lb	148.5 1.354		11.5 1.090	10.0 1.160	29.0 1.070	17.6 1.020					20.3 0.860	14.3 0.870	14.4 0.880	14.4 0.820	17.4 0.850	
Coffee (green):										1						
Inventories (roasters', importers', dealers'), end of periodthous. bags	2,834															
Roastings (green weight) do	17,047	1	1 5 477	1 007	1 105	1 400	1 1 47	1 476	1 995	1 999	1 609	1.640		1 256	1 609	
Imports, total] 3,505	3,243	1,547	1,287	210	267	227	1,476	213	264	307	412	445	196	346	l
Price, wholesale, Santos, No. 4 (N.Y.) \$ per lb Confectionery, manufacturers' sales @ mil. \$	2.066 5 4,684		1.500 466					1.450 338						1.330 503		
Fish:			1								070		000	F00-	1000	
Stocks, cold storage, end of periodmil. lb	l 393	350	350	315	282	1 275	256	250	l 280	334	372	389	369	l ¹ 385	l *38 3	1

SURVEY OF CURRENT BUSINESS

February 1983		0	JUNE	or or	COR	TOTALN 1	DOG	DITATO					-			0-4
Unless otherwise stated in footnotes below, data	1980	1981	1981						198	32						1983
hrough 1978 and descriptive notes are as shown n the 1979 edition of BUSINESS STATISTICS	Anr	nual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan
]	FOOD	AND	KINI	DRED) PR(DUC	CTS; 1	гова	CCO-	-Con	1 t. .					
MISCELLANEOUS FOOD PRODUCTS-Cont.			Γ													
Sugar (United States): Deliveries and supply (raw basis): § Production and receipts: Production	4,713	5,157	1,154	745	(4)											
Deliveries, total do For domestic consumption do	10,838 10,149	10,922 9,731	785 746	648 638							••••••					
Stocks, raw and ref., end of period do Exports, raw and refinedsh. tons	2,970 608,029	3,311 979,157	3,311 47,605	3,743 4,370	3,644 16,359	(*) 4,246	2,953	2,837	15,619	2,212	1,478	1,751	4,551	1,299	837	
Imports, raw and refined thous. sh. tons	4,127	5,054	902	223	10,000	316	2,500	1	218	360	133	90	520	1,200	133	
Prices, wholesale (New York): Raw \$ per lb	0.306	0.198	0.167	-0.180	0.178	0.169	0.176	0.195	0.208	(4) (4)						
Refined (excl. excise tax) do Yea, importsthous. lb	0.405 184,786	0.303 190,254	0.261 12,121	0.282 15,055	0.282 15,464	0.282 13,787	0.280 13,176		0.300 14,309	(*) 14,286	15,598	17,425	16,207	18,222	12,567	
robacco eaf: Production (crop estimate)mil. lb	¹ 1,786	¹ 2,064													⁵1, 9 62	
Stocks, dealers' and manufacturers', end of period ‡mil. lb Exports, incl. scrap and stemsthous. lb	4,850 591,518	5,080 575,255	5,080 55,577	31,670	39,392	4,983 49,862	41,756	53,960	4,675 37,226	23,910	30,179	5,034 24,805	74,480	92,236	50,528	
Imports, incl. scrap and stems do fanufactured: Consumption (withdrawals):	365,622	335,920	12,970	31,264	16,579	20,393	22,659	24,820	25,012	17,725	41,903	25,541	29,006	29,126	11,714	
Cigarettes (small): Tax-exempt	94,256 620,565 3,292	92,006 638,114 3,258	6,479 42,300 247	7,479 48,234 215	8,990 52,850 221	7,584 57,430 267	6,577 48,368 248		6,265 60,590 292	5,784 49,167 234	7,595 55,802 279	6,789 56,655 291	6,415 54,068 259	6,766 49,537 261		
Exports, cigarettes	81,998	82,582	4,713	6,426	8,148	7,337	5,540		5,797	4,461	5,844	5,894	6,734	6,144	5,589	
			LEA	THE	R AN	D PR	ODU	CTS								
LEATHER																
xports: Upper and lining leatherthous. sq. ft	192,597	192,193	11,660	10,849	10,343	13,696	15,534	17,449	18,610	18,486	12,065	10,417	11,842	9,726		
rice, producer: Sole, bends, light index, 1967=100 LEATHER MANUFACTURES	283.8	²306.7									·····					
Footwear:																
Production, totalthous. pairs Shoes, sandals, and play shoes, except athletic thous. pairs	396,851 299,131	375,473 278,979	27,624 21,061	26,259 20,178	27,128 20,102	31,060 22,975	26,894 19,680	27,940 20,878	28,219 20,444	23,561 18,831	27,873 20,365	"28,448 "20,785	28,373 20,258			
Slippers do do	73,337 24,383	70,834 25,660	4,715 1,848	4,829 1,252	5,734 1,292	6,672 1,413	5,991 1,223	5,672 1,390	6,427 1,348	3,933 797	6,044 1,464	r6,288 r1,375	$6,604 \\ 1,511$			
Other footwear do	3,271	3,171	238	257	274	365	334	298	341	242	241	320	357			
Exports do	9,781	9,688	615	505	629	681	839	693	742	636	577	595	649	635		
Prices, producer: * Men's leather upper, dress and casual index, 12/80=100		103.1	103.7	104.9	103.5	104.0	105.8	106.0	101.2	106.2	106.3	106.4	107.0	107.0	105.4	10
Women's leather upper index, 1967=100 Women's plastic upper index, 12/80=100	211.7	214.4 99.6	212.3 93.0	204.1 94.4	205.3 94.4	207.7 94.7	215.6 98.3	214.1 98.3	218.5 98.5	219.0 99.1	219.5 99.1	220.0 99.7	222.3 99.7	221.8 99.7	221.8 99.2	21 9
annan a			LUN	ABER	ANI) PR	ODUC	CTS								
LUMBER-ALL TYPES #																
lational Forest Products Association: Production, total	°31,632 °7,297 24,335	³ 29,713 ³ 7,003 22,710	1,765 418 1,347	1,810 356 1,454	1,891 402 1,489	2,148 411 1,737	2,281 416 1,865	2,251 419 1,822	2,338 443 1,895	2,376 388 1,988	$2,560 \\ 382 \\ 2,178$	2,445 393 2,052	2,333 400 1,933	2,247 391 1,856		
Shipments, total	³ 31,126 ³ 6,679 24,447	³ 29,715 ³ 6,812 22,903	1,947 1,989 413 1,576	1,434 1,637 393 1,244	1,483 1,837 430 1,407	2,148 446 1,702	2,336 427 1,909	2,308 465	2,513 438 2,075	2,363 381 1,982	2,178 2,450 377 2,073	2,052 2,260 396 1,864	2,506 407 2,099	2,353 398 1,955	······	
Stocks (gross), mill end of period, total	5 805	5 842	5.842	6.016	6.068	6.042	5 983	5.915	5 853	1,962	5 977	1,004 6 163	2,099 5 986	1,900		

5,842 1,972 3,870

591

459 429

396 507 844

47 19 28

5,842 1,972 3,870

9,518

6,393 429

6,395 6,463 844

523 129 394

5,805 1,807 3,998

1,655 9,859

6,791 499

6,815 6,821 912

 $540 \\ 117 \\ 422$

223.42

6,016 1,936 4,080

530

407 471

459 365 938

34 11 22

6,068 1,906 4,162

585

393 443

457 421 974

34 8 26

6,042 1,842 4,200

601

523 496

454 470 958

54 18 36

5,983 1,827 4,156

792

473 487

465 482 941

46 14 32

5,915 1,786 4,129

848

486 481

482 492 931

48 14 35

5,853 1,789 4,064

888

550 500

472 530 939

40 9 30

5,867 1,797 4,070

874

504 488

520 516 \$43

31 8 23

5,977 1,802 4,175

888

569 494

556 563 936

42 14 28

6,163 1,799 4,364

962

481 501

512 474 974

 $^{31}_{7}_{24}$

5,986 1,789 4,179

758

573 510

490 564 900

41 8 33

5,881 1,783 4,098

916

573 572

509 511 898

31 6 25

781

537 612

452 497 853

39 8 31

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Price, wholesale: Dimension, construction, dried, 2" x 4", R.L. \$ per M bd. ft.. See footnotes at end of tables.

Exports, total sawmill products do... Imports, total sawmill products do...

SOFTWOODS Douglas fir: Orders, new......mil. bd. ft... Orders, unfilled, end of perioddo....

Production do...

Shipments do... Stocks (gross), mill, end of period do...

Exports, total sawmill productsdo... Sawed timber do... Boards, planks, scantlings, etc do...

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SURVEY OF CURRENT BUSINESS

February 1983

nless otherwise stated in footnotes below, data	1980	1981	1981						198	32						19
hrough 1978 and descriptive notes are as shown a the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	J
		LUM	BER	AND	PRO	DUC	rs—c	Conti	nued							
SOFTWOODS—Continued																Γ_
outhern pine: Orders, newmil. bd. ft.,	¹ 6,559	¹ 6,128	400	344	409	520	486	513	599	493	537	508	607	512	-	
Orders, unfilled, end of period do	419	418	418	430	448	476	446	463	467	409	427	401	438	435		
Production do Shipments do	¹ 6,758 ¹ 6,663	16,143 16,129	415 412	366 332	419 391	487 492	$515 \\ 516$	490 496	556 595	547 551	582 519	643 534	563 570	513 515		
Stocks (gross), mill and concentration yards, end of periodmil. bd. ft.	1,270	1,284	1,284	1,318	1,346	1,341	1,340	1,334	1,295	1,291	1,354	1,464	1,456	1,454		
Exports, total sawmill productsthous. bd. ft	280,243	227,020	15,032	14,283	18,936	20,195	23,660	19,318	26,989	18,752	17,778	22,926	19,908	22,203	20,273	
Prices, wholesale (indexes): Boards, No. 2 and better, 1" x 6", R.L.																
1967=100 Flooring, C and better, F. G., 1" x 4", S.L.	337.2															
1967=100	324.7														•••••	
/estern pine: Orders, newmil. bd. ft	7,730	7,235	428	407	413	562	608	605	609	629	741	609	684	663	526	·
Orders, unfilled, end of period do Production do	326 7,613	219 7,261	219 390	257 423	261 417	333 529	302 621	331 572	305 603	304 642	337 726	357 603	365 605	364 598	324 504	
Shipments do	7,807	7,342	452	369	409	490	639	576	634	630	708	590	676	664	566	
Stocks (gross), mill, end of period do Price, wholesale, Ponderosa, boards, No. 3,	1,185	1,104	1,104	1,158	1,166	1,205	1,187	1,183	1,196	1,208	1,226	1,239	1,168	1,102	1,040	
1" x 12", R.L. (6' and over)\$ per M bd. ft HARDWOOD FLOORING	287.55							•••••	•••••			••••			•••••	
ık: Orders, unfilled, end of periodmil. bd. ft Shipmentsdo	1.9 78.0	2.8 83.1	2.8 5.2	2.0 5.4	2.2 5.4	2.6 6.9	1.9 6.0	1.8 6.0	2.1 6.2	2.2 5.8	3.3 6.7	2.7 7.3	2.8 6.7	3.4 6.3	4.8 6.2	
Stocks (gross), mill, end of period do	12.4	10.1 M	10.1 ETAI	9.9 S AN	10.3	9.9 ANU	10.5 FACT	10.2 URE	11.8 S	11.4	11.3	10.4	10.6	10.9	12.0	<u>.</u>
IRON AND STEEL										· · · · ·						
ports: Steel mill products thous. sh. tons	4,101	2,904	227	173	154	197	148	194	180	146	159	158	133	109	97	
Scrap	11,168 73	6,415 16	509 1	462	539 (²)	522 1	507 1	812 1	806 6	577 1	$ \begin{array}{r} 152 \\ 542 \\ 1 \end{array} $	607 18	434 1	620 21	375	
ports: Steel mill products do	$15,495 \\ 558$	19,898 572	1,613	1,969	1,600	1,356 36	1,029 41	1,696 57	1,784 49	1,113 37	$1,451 \\ 45$	1,191 37	$^{1,146}_{35}$	1,258 38	1,090 27	
Scrap	400	433	45 64	32 36	41 16	36 14	41	57 71	45 35	9	15	14	41	. 11	13	
Iron and Steel Scrap oduction thous. sh. tons	¹ 42,207	¹ 43,260	2,817	9 749	9 759	3,019	2,597	2,418	2,320	2,119	r2,122	2,078	1,975	1,772		
oduction	¹ 40,954 ¹ 83,710	¹ 43,260 ¹ 41,981 ¹ 85,097	2,661 2,656	2,742 2,715 5,917	2,753 2,889 5,615	3,114 6,180	2,397 2,779 5,391	2,418 2,611 5,077	2,303 2,303 4,715	2,119 2,033 4,336	^{12,122} ^{12,133} ^{14,377}	2,078 2,106 4,357	2,134 4,226	1,914 3,749	••••••	
ocks, end of period do	8,018	8,118	8,261	7,826	7,870	7,762	7,716	7,650	7,551	7,352	7,117	6,954	6,628	6,488		
rices, steel scrap, No. 1 heavy melting: Composite	92.17 96.17	90.17 100.50	76.02 85.50	81.70 94.00	80.47 91.50	75.93 85.00	69.98 75.00	62.85 64.00	55.21 59.50	53.84 57.50	54.77 58.00	53.48 58.00	52.32 55.00	48.94 51.50	48.61 51.50	
Ore																
on ore (operations in all U.S. districts): Mine productionthous. lg. tons	169,613	173,174	4,430	5,687	5,244	5,126	5,347	4,358	2,525	869	909	744	1,470	1,728		
Shipments from mines do Imports do	¹ 69,594 25,058	¹ 72,181 28,328	$3,507 \\ 1,585$	$1,076 \\ 1,630$	$1,180 \\ 1,018$	1,433 646	2,265 773	5,306 1,199	4,964 1,865	4,795 1,508	4,193 1,532	3,943 1,424	3,161 1,395	3,065 898	826	
U.S. and foreign ores and ore agglomerates: Receipts at iron and steel plants do	87,188	96,645	5,579	1,664	1,589	1,596	2,795	6,672	7,182	6,746	5,848	5,361	4,368	3,395	2,655	
Consumption at iron and steel plants do Exports do	89,397 5,073	94,958 15,546	6,038 685	5,518 44	5,175 1	5,670 1	4,888 211	4,896 349	4,342 539	4,705 289	4,369 51	4,249 448	4,192 478	3,664 9,179	3,565 210	
Stocks, total, end of period do At mines do	$56,066 \\ 11,725$	60,243 12,734	$\begin{array}{c} 60,243 \\ 17,469 \end{array}$	60,401 21,594	60,894 25,701	$57,340 \\ 26,576$	57,725 29,740	$57,645 \\ 28,314$	$58,457 \\ 26,380$	59,065 25,297	57,833 22,137	55,774 19,042	54,480 17,423	52,647 16,098		
At furnace yards	35,706 6,095	36,203 6,571	36,203 6,571	32,298 6,509	28,813 6,380	24,654 6,110	22,504 5,481	24,209 5,122	26,909 5,168	28,860 4,908	30,276 5,420	31,326 5,406	31,501 5,556	30,953 5,596	29,923 5,750	
anganese (mn. content), general imports do Pig Iron and Iron Products	795	775	49	65	49	65	55	22	58	35	33	14	25	32	15	
g iron: Production (including production of ferroalloys)																
thous. sh. tons Consumption	68,721 169,053	73,570 75,051	4,750 4,824	4,489 4,766	4,169 4,384	4,622 4,869	3,967 4,083	3,904 3,975	3,595 3,648	3,516 3,554	3,277 3,431	3,160 3,261	3,077 3,201	2,648 ¤2,841	2,712	
Stocks, end of period do Price, basic furnace	889 203.00	859 206.00	859 213.00	881 213.00	822 213.00	782 213.00	745 213.00	747 213.00	758 213.00	⁷ 728 213.00	697 213.00	681 213.00	649	₽603	•••••	
astings, gray and ductile iron:	200.00			210.00	210.00			210.00	210.00							
Orders, unfilled, for sale, end of period thous. sh. tons	964	743	743	783	761	726	696	651	610	611	608	⁷ 575	505	521	·	
Shipments, total do For sale do	11,799 6,457	11,929 6,702	681 344	771 399	764 412	860 482	$\begin{array}{c} 771 \\ 445 \end{array}$	741 432	756 428	616 359	630 404	'631 369	$\frac{618}{351}$	587 334		
stings, malleable iron: Orders, unfilled, for sale, end of period thous. sh. tons	22	32	32	31	29	29	25	24	24	16	16	15	13	13		
Shipments, total do For sale	450 206	421 199	23 10	24 12	$\frac{26}{15}$	30 13	$\frac{28}{12}$	$27 \\ 12$	29 11	$21 \\ 7$	23 10	22 8	19 7	19 8		

SURVEY OF CURRENT BUSINESS

nless otherwise stated in footnotes below, data	1980	1981	1981						19	82						1983
prough 1978 and descriptive notes are as shown the 1979 edition of BUSINESS STATISTICS	Anr	nual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan
	M	ETAL	S AN		NUF	ACT	URES	S—Co	ntinu	ied	1	I ,	I	L.,	.	
Steel, Raw and Semifinished											ļ					
teel (raw): Production thous. sh. tons Rate of capability utilizationpercent	¹ 111,835 72.8	120,828 78.3	7,672 58.6	7,737 59.3	7,178 60.9	8,049 61.7	7,006 55.2	6,678 50.9		5,719 43.8	5,538 42.4	5,299 41.9	5,262 40.2	4,546 35.9	4,456 34.0	5,5 43
eel castings: Orders, unfilled, for sale, end of period													а. А			
Shipments, total do For sale, total do Steel Mill Products	605 1,878 1,701	385 1,752 1,568	385 122 110	381 115 106	359 114 104	335 129 117	304 113 103	276 101 93	91	232 63 56	222 65 58	213 768 62	181 63 56	170 56 50		
eel products, net shipments: Total (all grades) thous. sh. tons	83,853	87,014	5,666	5,608	5,434	6,163	5,488	5,149	5,372	4,514	4,724	4,760	4,309	4,088	4,234	
By product: Semifinished productsdo Structural shapes (heavy), steel pilingdo Plates	5,342 5,207 8,080	5,598 4,903 7,397	389 299 482	314 329 463	285 323 498	325 365 527	318 321 393	306 290 330	291 284 316	257 272 259	269 265 300	283 280 269	291 321 261	260 237 260	255 210 260	
Rails and accessories do Bars and tool steel, total do	1,797 13,258	1,458 13,828	81 898	98 912	102 821	91 1,015	73 865	74 846	68 855	. 56 668	41 766	44 746	36 715	49 639	51 615	
Bars: Hot rolled (incl. light shapes) do Bars: Reinforcing do Bars: Cold finished	6,911 4,683 1,585	¹ 7,770 4,371 1,620	471 323 99	$525 \\ 271 \\ 112$	506 205 105	573 320 117	470 298 93	434 321 87	440 319 92	304 296 66	361 325 76	347 322 73	238 323 68	280 293 64	312 241 59	
Pipe and tubing do Wire and wire products do Tin mill products do Sheets and strip (incl. electrical), total do Sheets: Hot rolled do Sheets: Cold rolled do	9,097 1,768 5,709 33,595 12,116 13,313	10,286 1,694 4,927 36,924 13,451 14,396	759 102 412 2,246 901 811	753 105 389 2,245 793 869	702 115 449 2,139 768 817	662 133 400 2,645 953 1,030	602 125 328 2,462 828 1,005	476 123 338 2,367 759 957	388 123 386 2,661 848 1,069	274 113 331 2,285 758 884	246 112 386 2,340 746 919	228 113 502 2,295 665 915	220 108 251 2,189 657 878	224 89 266 2,063 637 832	220 83 294 2,247 656 974	
By market (quarterly): Service centers and distributors	16,172 8,742 3,148 12,124 3,155 4,543 5,551 30,415	17,546 8,761 3,225 13,101 2,180 4,646 5,293 32,264	3,704 1,812 610 2,472 422 947 1,129 7,075			3,429 1,684 592 2,367 411 960 1,260 6,500			3,213 1,651 598 2,791 277 689 1,115 5,676			3,099 1,568 548 2,311 183 491 1,252 4,546			3,029 1,379 543 2,036 159 446 837 4,201	
eel mill shapes and forms, inventories, end of period—total for the specified sectors:	00,110		1,010			0,000			0,010			4,040		******	4,201	
mil. sh. tons. Producing mills, inventory, end of period: Steel in process mil. sh. tons Finished steel	⁸ 28.4 9.6 6.9	30.0 11.3 7.4	30.0 11.3 7.4	30.0 11.6 7.2	29.9 11.3 7.2	29.4 11.2 7.1	28.8 11.0 7.0	28.1 10.9 6.9	26.9 10.4 6.5	26.5 10.2 6.5	25.8 9.9 6.3	24.8 9.6 6.0	24.0 9.3 5.8	······		
period mil. sh. tons Consumers (manufacturers only): Inventory, end of period do Receipts during period do Consumption during period do NONFERROUS METALS AND PRODUCTS	*5.3 6.6 69.9 73.4	5.4 5.9 71.7 72.4	5.4 5.9 *3.9 *4.3	5.2 6.0 4.7 4.6	5.2 6.2 5.3 5.1	5.2 5.9 5.8 6.1	5.1 5.7 5.0 5.2	5.0 5.3 4.8 5.2	5.1 4.9 4.7 5.1	5.0 4.8 4.3 4.4	5.0 4.6 4.4 4.6	4.8 4.4 4.5 4.7	4.6 4.2 4.2 4.4	•••••		······
uminum: Production, primary (dom. and foreign ores)																
thous. sh. tons Recovery from scrap (aluminum content) do	5,130 1,377	4,948 1,653	364 123	351 144	311 156	336 170	319 170	321 167	300 188	297 182	287 186	271 181	275 180	266 164		
mports (general): Metal and alloys, crude do Plates, sheets, bars, etc do Skports:	580.8 71.4	698.5 140.1	49.3 13.7	38.5 17.5	65.9 19.1	61.7 21.4	61.0 14.1	51.0 19.5	66.5 15.5	42.2 16.7	78.2 17.9	52.8 16.9	52.7 18.9	60.1 18.2	47.8 17.5	
Metal and alloys, crude do Plates, sheets, bars, etc do	714.9 315.3	344.2 271.2	24.6 16.8	22.1 18.0	18.8 17.8	46.0 18.3	26.6 15.4	19.9 15.9	48.5 19.9	24.2 13.3	42.6 14.3	23.6 22.0	59.5 20.4	42.1 12.1	27.3 12.6	
Price, primary ingot, 99.5% minimum \$ per lb aminum products:	0.6957	0.7600	0.7600	0.7600	0.7600	0.7600	0.7600	0.7600	0.7600	0.7600	0.7600	0.7600	0.7600	0.7600	0.7600	
Shipments: Ingot and mill prod. (net ship.) mil lb Mill products, total do Sheet and plate do	14,057 10,485 5,862	13,237 10,328 5,978	928 679 389	849 738 430	934 734 430	1,095 831 482	995 783 452	971 762 441	1,113 833 498	879 744 444	*1,100 777 462	1,014 781 465	955 732 416			
Castings do inventories, total (ingot, mill products, and scrap), end of periodmil. lb.,	1,538 5,076	1,581 6,607	98 6,607	106 6,670	105 6,742	120 6,658	119 6,683	116 6,684	143 6,577	102 6,626	"104 "6,508	108 6,434	102			•••••
opper: Production:	0,010	0,001	0,001	0,010	0,142	0,000	0,000	0,004	0,017	0,020	0,000	0,404	0,420			
Mine, recoverable copper thous. met. tons Refinery, primary do From domestic ores do From foreign ores do	1,181.1 1,210.9 1,121.9 189.0	1,538.2 1,544.0 1,430.2 113.8	114.0 130.2 123.9 6.2	112.6 106.2 97.3 8.9	107.4 104.7 96.2 8.5	119.9 117.2 110.4 6.9	112.0 105.4 97.9 7.4	97.0 99.3 90.5 8.8	90.0 93.9 85.8 8.0	84.6 99.5 85.7 13.8	81.1 91.5 74.1 17.4	r75.3 94.7 75.6 19.0	86.5 95.0 80.1 14.9	114.2 98.1		
Secondary, recovered as refined do mports (general):	573.0	631.9	60.1	47.5	51.8	51.4	49.2	52.0	39.2	34.9	28.6	60.7				••••••
Refined, unrefined, scrap (copper cont.) do Refined	551.8 459.8	502.5 359.3	42.3 24.3	45.2 20.6	40.6 15.7	30.8 18.8	30.6 22.3	47.5 20.4	50.6 29.2	47.5 27.2	42.9 25.8	57.3 29.9	56.2 27.6	42.3 26.2	01.0	
Refined and scrap do Refined do	330.1 17.4	339.7 27.2	21.3 1.8	35.2 0.4	21.9 0.6	29.4 0.9	30.5 1.0	39.1 1.6	20.4 1.6	33.5 2.9	34.0 5.4	36.6 9.9	40.2 8.6	34.3 0.8		
onsumption, refined (by mills, etc.) thous. sh. tons tocks, refined, end of period do	2,083 365	2,045 511	402			508 558			485 •587			407				

See footnotes at end of tables.

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Unless otherwise stated in footnotes below, data	1980	1981	1981						198	32						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.	Jan
	M	ETALS	S AN	D MA	NUF	ACT	URES	S-Co	ntinu	ed						.
NONFERROUS METALS AND PRODUCTS—Continued																
Copper-base mill and foundry products, shipments (quarterly total):																
Brass mill products mil. lb Copper wire mill products (copper cont.) do Brass and bronze foundry products do	2,467 2,783 489	2,622 2,847 471	544 659 109	·····		544 654 114			564 636 107							
Lead: Production:	549.5	¹ 444.1	41.3	40.5	43.5	48.7	44.3	42.1	42.6	37.0	42.9	41.7	45.0	42.1		
Mine, recoverable lead thous. met. tons Recovered from scrap (lead cont.) do	675.6	627.4	41.3 48.7 2.1	45.5	48.2	48.0	47.6	46.1 1.9	44.8	34.4	44.2 8.5	41.9 2.3	43.0 44.6 8.2	41.9 1.9		
Imports (general), ore (lead cont.), metal do Consumption, total do	52.1 1,070.3	68.9 1,125.3	2.1 107.6	5.6 93.9	3.4 84.4	4.9 90.9	3.8 88.3	82.1	5.4 84.5	1.6 73.0	90.7	2.3 87.9	95.3	83.0		
Stocks, end of period: Producers', ore, base bullion, and in process (lead content), ABMS thous. met. tons Refiners' (primary), refined and antimonial	135.3	83.3	83.3	78.9	79.3	81.2	85.7	85.6	82.1	79.2	79.0	75.1	76.6	75.9	75.0	
(lead content) thous. met. tons Consumers' (lead content) ¶ do Scrap (lead-base, purchased), all smelters	54.8 95.8	79.5 98.1	79.5 98.1	68.3 92.0	70.0 88.4	73.4 85.2	65.5 87.2	61.7 81.7	69.0 88.3	66.6 84.2	61.7 83.5	66.6 84.2	69.0 79.4	73.6 77.4		······
(gross weight) thous. met. tons Price, common grade, delivered \$ per lb	59.6 0.4246	41.7 0.3653	41.7 0.3107	41.7 0.2967	36.8 0.2870	35.1 0.2764	34.5 0.2606	32.7 0.2609	36.1 0.2476	39.3 0.2718	34.8 0.2582	31.6 0.2532	30.6 0.2319	37.1 0.2161	0.2047	
Yin: Imports (for consumption): Ore (tin content) metric tons	842	232	0	295	72	162	149	0	156	93	186	194	289	88	277	
Metal, unwrought, unalloyed do Recovery from scrap, total (tin cont.) do	45,983 118,638	45,873 15,010	4,216 1,270	2,312 1,025	$1,089 \\ 1,150$	$2,742 \\ 1,135$	3,145 1,005	2,966 1,065	2,055 1,025	$2,450 \\ 1,000$	2,742 940	1,697 996	2,409 1,019		2,100	
As metal do Consumption, total do Primary do	¹ 1,703 ¹ 56,362 ¹ 44,342	1,705 48,450 38,750	160 2,950 2,200	85 3,400 2,500	95 3,300 2,500	120 3,750 2,800	150 5,100 3,600	140 5,000 3,600	140 5,100 3,700	155 4,900 3,600	145 4,700 3,400	121 4,700 3,400	164 4,600 3,300	4,500 3,200		·····
Exports, incl. reexports (metal)	4,293 5,504 8.4600	5,989 5,988 7.3305	1,180 5,988 7.9352	4,748 3,872 7.7590	1,610 3,490 7.4519	441 3,829 6.6917	454 5,222 6.5600	261 4,953 6.6284	662 4,653 6.0826	375 3,888 6.1255	305 2,910 6.2549	175 2,940 6.3904	249 2,770 6.2475	241 3,437 6.1347	256 6.1434	
inc: Mine prod., recoverable zinc thous. met. tons.	317.1	312.4	23.9	24.2	24.7	25.3	23.4	25.6	27.0	21.3	27.4	25.7	27.8	25.9	۱ ••••••	
Imports (general): Ores (zinc content) do Metal (slab, blocks) do	113.8 329.0	117.7 602.6	9.2 32.8	3.2 2.0	6.1 33.0	6.3 36.2	2.4 26.4	4.0 35.3	4.9 39.8	0.7 27.8	2.8 26.2	3.9 34.9	9.1 49.1	2.3 61.5	3.6 41.0	
Consumption (recoverable zinc content): Oresdo Scrap, all typesdo	67.6 236.1	58.2 224.1	5.3 18.6	4.6 17.1	4.2 16.8	4.7 18.2	6.8 18.0	6.2 17.7	3.9 17.3	3.1 17.3	2.6 17.5	3.6 17.9	4.0 17.6	4.7 17.1		
Slab zinc: @ Production, total ‡thous. met. tons. Consumption, fabricators	¹ 369.9 ¹ 811.1 0.3	341.8 834.7 0.3	23.0 52.0 (²)	24.2 55.1 (²)	21.6 55.3 (²)	21.4 60.0 (²)	19.3 57.8 (²)	21.5 58.8 (²)	21.5 65.8 (²)	18.7 56.3 0.	20.4 60.7 (²)	61.4 61.4 (²)	24.8 60.8 (²)	18.7 54.0 (²)	18.1 (2)	
Stocks, end of period: Producers', at smelter (ABMS) do	18.7	34.6	34.6 72.1	36.7 70.1	41.2	41.8	39.9 60.0	35.3 60.8	27.9 57.7	20.5 62.0	14.9 57.7	15.9 56.1	19.9 56.0	21.5 62.2	24.6	1
Consumers' do Price, Prime Western \$ per lb	22.6 0.3743	44.7 0.4455	0.4259	0.4217	67.0 0.4272	65.7 0.3923	0.3550	0.3467	0.3460	0.3566		0.3964	0.4083	0.4039	0.3846	
MACHINERY AND EQUIPMENT Heating, combustion, atmosphere equipment, new		470.0	115.0			1107			79.0			5 90				
orders (domestic), net, qtrly # mil \$. Electric processing heating equipment do Fuel-fired processing heating equip do	. 348.3 82.8 156.5	470.0 106.9 225.4	115.3 28.4 54.0			113.7 20.2 61.0			73.3 17.5 26.9			53.8 18.1 14.4		·····		
Material handling equipment (industrial): Orders (new), index, seas. adj	375.5	382.0	377.8	323.0	428.0	262.3	273.0	221.4	241.2	235.1	209.5	266.0	188.4			
Industrial trucks (electric), shipments: Hand (motorized) number.	. 20,495	18,734	1,569	1,250	1,398 1,452	1,665 1,828	1,216		1,558 1,567	787 931	1,207 1,042	1,160 1,312	1,220 1,113			
Rider-type do Industrial trucks and tractors (internal combustion engines), shipments number.	. 24,110 . 39,448	19,784 31,885	1,976 2,551	1,447 2,277	2,053	2,430	1,386 1,658		2,216	824	1,042	1,312	1,312	1		
Industrial supplies, machinery and equipment: New orders index, seas. adjusted	. 114.9	148.1	117.3	114.2	110.2	104.8	97.3	91.1	90.9	88.3	90.8	92.1	87.8	84.1	83.6	
ndustrial suppliers distribution: † Sales index, seas. adjusted	. 134.5	142.3	132.5	135.2	130.9	133.3	134.4	123.5	121.3	120.0	119.1	115.9	109.8	106.8	100.7	
Sales Index, not seas. adjuster	. 131.2	144.3	149.2	150.2	151.6	152.6	152.9	153.7	153.8	154.0	153.8	154.0	153.7	153.5	153.7	
Hydraulic products, seas. adj 1972=100. Pneumatic products, seas. adj	272 234	279 249	271 251	263 252	255 245	246 225	233 215			191 195	198 186	178 191	170 172		*143 *174	
Machine tools: Metal cutting type tools: Orders, new (net), total mil. \$.	. 3,884.75	2,228.10	112.55	155.95	123.15	105.75	115.10	68.00	91.65	70.40	60.45	52.60	72.85	62.75	₽86.60	
Domestic do Shipments, total do	. 3,495.50 . 3,680.80	1,945.80 4,104.50	101.05 398.60	124.90 307.15	113.30 293.15	90.20 332.75	107.55 239.45	53.75 246.60	55.15 324.60	57.55 203.55	49.25 212.50	47.20 224.40	59.10 150.60	47.45 155.70	P85.00 P207.10	;
Domestic do Order backlog, end of period do	. 3,206.00	3,552.45	358.85 2,873.3	284.50	273.75 2,552.1	303.05	214.60 2,200.8			173.75 1,656.0	184.30 1,504.0	192.65 1,332.2	132.30 1,254.4			
Metal forming type tools: Orders, new (net), total do			39.25 32.90		40.65 35.90					36.15 30.40	26.05 22.70	34.30 30.20	46.35 42.55		P35.15	
Domesticdo Shipments, totaldo Domesticdo	. 1,010.95 . 878.55	991.10 824.20	92.30 79.95	76.40 49.60	66.45 57.50	78.30	60.00 56.30	49.25 44.90	84.55 75.35	46.80 40.65	44.70 38.90	51.45 45.95	50.10 42.25	37.80 33.70	P59.85	
Order backlog, end of period do See footnotes at end of tables.	384.8	427.0	427.0	399.8	374.0	327.8	299.4	1 288.2	237.8	1 227.2	208.6	191.4	l 187.6	175.3	I №150.6	• • • •

SURVEY OF CURRENT BUSINESS

February 1983		5	URVE	I OF	CUR	REIN	DUS	DINERS	50							3-4
Unless otherwise stated in footnotes below, data	1980	1981	1981						19	82		•		<u></u>		198
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
	M	ETAL	S AN	D MA	NUF	ACT	URES	SCo	ntinu	ed				.	· .	.
MACHINERY AND EQUIPMENT—Continued																
Tractors used in construction, shipments, qtrly: Tracklaying, total	16,503	15,789	3,010			2,390			2,589			2,110	⁴69 9	⁴ 336		
mil. \$ Wheel (contractors' off-highway)units	1,306.1 4,781 387.5	1,569.9 4,309 410.9	311.2 784 90.3		·	264.4 547 58.2			272.7			259.6	⁴ 70.5	419.4 	······	
mil. \$ Tractor shovel loaders (integral units only), wheel and tracklaying types units	45,480	33,369	6,774			6,218			7,432			5,468				
mil \$ ractors, wheel, farm, nonfarm (ex. garden and construction types), ship., qtrlyunits	1,697.1 146,274	1,605.5 141,170	344.6 31,417			300.8 28,067		·····	299.0 25,754	······		263.7 20.845	*10,533	46,386		
mil. \$ ELECTRICAL EQUIPMENT	3,183.4	3,479.3	822.7			754.2			737.7			583.0	4250.9	* 197.6		
atteries (auto-type replacement), shipthous	50,063	53,597	5,012	4,897	4,269	3,839	3,611	3,584	3,640	3,629	4,750	5,819	5,660	5,237	5,280	
adio sets, production, total marketthous elevision sets (incl. combination models),	28,104	31,476		2,012		²1,816	1,609	2,460	Í Í	2,284	4,052	²3,624	3,490		•••••	
production, total marketthous lousehold major appliances (electrical), factory	18,532	18,480	²1,250	1,208	1,344	²1,499	1,375	1,292	²1,710	1,177	1,420	²1,619	1,106	1,161	1,229	1,:
shipments (domestic and export) #thous Air conditioners (room) do Dishwashers do	30,260 3,204 2,738	30,336 3,692 2,484	"1,810 163 144	'1,915 191 169	2,177 361 160	2,650	2,452 517 201	2,232 419 169	2,341 289 160	2,196 145	2,257 61 203	2,097 17 167	2,350 31 218	2,117 71 206	1,892	2,1
Disposers (food waste)	2,962 2,530	2,484 3,178 2,325	206	220 149	214 143	151 272 161	175 169	200 150	207 293	187 199 166	203 219 170	241 168	218 339 202	208 260 195	178 238 175	
Refrigerators do Freezers	5,124 1,681	4,944 1,561	264 178	r277 r92	324 99	343 117	379 107	359	437 161	456 151	432 156	381 109	401 80	310 80	262 73	1
Washers do Dryers (incl. gas) do Vacuum cleaners (qtrly.) do	4,550 3,177 7,439	4,365 2,977 7,785	246 189 1,767		347 234	383 253 1,911	345 214	322 195	352 214 1,677	323 196	364 244	360 245 2,136	347 261	319 251	252 193 1,812	
GAS EQUIPMENT (RESIDENTIAL)	,	,,	_,						2,011			2,100			1,012	
urnaces, gravity and forced-air, shipmentsthous anges, total, sales do Vater heaters (storage), automatic, sales @ do	1,446 1,538 2,818	1,417 1,496 2,785	95 124 211	80 99 239	69 107 268	* 77 135 305	70 110 295	69 113 246	85 123 248	78 96 230	96 99 225	126 133 232	140 113 260	*127 *114 236	148 126 257	
	2,010	PETI	I	(L	L			I	200	220		200	230	201	
COAL				, 												<u> </u>
nthracite: Production thous. sh. tons Exports do	6,056 1,795	5,423 2,249	394 101	353 147	381 44	459 84	274 79	329 41	319 45	r313 106	r370 86	'340 77	387 121	347 107	353 43	
Price, wholesale * Index, 1967=100	463.7	582.2	643.7	643.7	643.7	645.5	648.1	639.0	637.5	637.5	637.4	637.4	637.4	638.0	638.0	63
Production † thous. sh. tons Consumption, total do	823,644 669,061	818,352 728,543	75,966 64,578	65,720 68,842	69,621 59,461	82,209 57,965	72,432 53,017	69,933 54,585	*70,508 55,730	⁻¹ 59,145 63,629	⁷ 71,368 63,192	'66,480	68,836	63,365	60,158	
Electric power utilities do Industrial, total do	568,322 125,815	595,575 127,527	52,968 10,783	57,195 10,847	°48,795 10,149	47,811 9,761	43,403 9,041	45,523 8,713	47,330 8,121	55,206 7,933	54,660 8,002	56,506 48,332 7,665	46,248	47,699		
Coke plants (oven and beehive) do Residential and commercial do	66,493 4,924	60,888 5,440	4,833 827	4,437 800	4,334 517	4,165 393	3,704 573	3,616 349	3,476 279	3,118 490	3,056 530	2,922 509				
Stocks, end of period, total do Electric power utilities do	¹ 199,077 178,269	179,607 163,356	179,607 163,356	168,274	167,676 152,735	173,574 159,030	180,807 165,848	187,248 171,892	192,664	184,237 168,844	184,429 169,403	183,872 169,216	173,879	175,811		
Industrial, total do Oven-coke plants do	20,808 9,017	16,251 6,446	16,251 6,446	15,339 6,181	14,941 5,887	14,544 5,594	14,959 5,914	15,356 6,216	15,753 6,518	15,393 6,153	15,026 5,788	14,656 5,422			·····	·····
Exportsdo Price, wholesaleIndex, 1967=100	89,882 466.5	110,243 493.7	$11,462 \\ 510.2$	6,029 520.6	8,918 525.3	$10,335 \\ 525.0$	$10,742 \\ 527.9$	$10,057 \\ 529.6$	10,626 529.3	9,071 533.9	7,293 534.9	8,603 534.4	9,850 535.6	7,700 536.2	6,020 536.2	
COKE													н. П			
roduction: Beehive and oven (byproduct) thous. sh. tons Petroleum coke § do	$46,132 \\ 27,094$	$\frac{42,786}{28,296}$	$10,580 \\ 2,622$		2,207	$^{8,828}_{2,551}$	2,428	2,533	7,507 2,397	2,672	2,564	6,270 2,433	2,452	2,543		
tocks, end of period: Oven-coke plants, total do	8,627	6,724	6,724	_,		7,455	2,120		7,871			7,969		2,040		
At furnace plants do At merchant plants do	7,521 1,106	6,320 403	6,320 403			7,015 440		·····	7,489 382			7,639 330	······			
Petroleum coke t do xports do	³ 846 2,162	900 1,251	900 134	829 48	894 105	939 . 97	959 37	963 154	1,091 175	1,171 129	1,088 61	1,244 141	1,168 62	1,339 66		
PETROLEUM AND PRODUCTS																
rude petroleum: Oil wells completed number Price, wholesale Index, 1967=100	27,026 556.4	37,684 803.5	4,619 787.2	"2,798 787.2	3,049 770.3	3,750 744.8	3,683 717.9	3,459 717.8	3,899 718.2	3,286 718.4	2,848 718.4	3,360 718.3	2,838 735.8	3,282 734.1	4,090 720.4	2,3 72
Gross input to crude oil distillation unitsmil. bbl	5,049.3	4,656.5	395.1	372.9	325.4	361.7	353.0	378.9	388.4	399.8	380.3	376.3	376.7	364.7	120.4	
Refinery operating ratio% of capacity Il oils, supply, demand, and stocks: ‡	76	69	69	66	65	65	66	68	74	75	72	74	71	71		
New supply, total ¶mil. bbl Production: Crude petroleumdo	6,266.9 3,146.4	5,905.7 3,124.6	501.3 267.3	480.2 268.7	418.6 243.3	454.9 266.5	437.5 259.6	465.2	464.1	495.7	479.2	470.0	480.9 260.0	483.1		
Natural gas plant liquids do Imports:	591.8	597.9	267.3 51.1	268.7 49.2	243.3 44.0	266.5 50.1	259.6 49.3	268.5 48.4	260.4 46.8	268.1 49.0	269.7 49.6	262.0 47.2	269.0 49.8	260.7 50.6		
Ćrude and unfinished oils do Refined products do	1,946.2 582.5	1,642.8 540.4	$135.7 \\ 47.1$	118.6 43.6	86.9 44.4	92.7 45.6	88.0 40.6	107.3 41.0	117.6 39.2	136.9 41.8	123.7 36.1	$114.3 \\ 46.5$	119.0 43.1	122.6 49.2		
Change in stocks, all oils (decrease,—) do Demand, total do	³ 79.3 6,441.7	68.3 6,057.2	-17.6 535.0	-27.7 518.3	29.5 468.9	-30.5	-51.0	-0.5	12.9	31:6	13.5	7.1	19.2	21.4		
Exports: Crude petroleum do	6,441.7 104.9	6,057.2	535.0 5.9	7.4	468.9 8.5	509.7 10.0	505.0 5.2	485.1 8.1	469.0 2.8	480.9 7.1	486.6 9.4	471.3 5.5	488.3 8.4	474.5 7.9		
Refined products do	94.3	133.9	14.5		14.0	17.4	18.3	16.8	18.3	15.9	17.2	18.2	20.5			

See footnotes at end of tables.

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SURVEY OF CURRENT BUSINESS

February 1983

Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1980	1981	1981						19	82						1983
in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	PETH	ROLEU	J M, C	OAL,	ANI) PR	ODUC	CTS-	-Cont	inued	L					
PETROLEUM AND PRODUCTS-Continued													· .			
All oils, supply, demand, and stocks ‡—Continued Domestic product demand, total #do Gasoline	6,242.4 2,420.5 58.0	5,840.2 2,414.9 46.2	514.6 208.9 6.2	492.6 184.2 6.4	446.4 170.5 5.0	482.3 205.8 3.6	481.4 207.5 3.4	460.2 207.0 3.2	447.9 205.4 2.5	457.9 211.7 3.0	460.0 207.4 2.4	447.6 196.2 3.2	459.4 198.9 4.1	450.9 197.2 4.2		
Distillate fuel oil do Residual fuel oil do Jet fuel	1,049.0 918.0 390.7	1,032.8 752.5 368.6	101.0 67.9 30.7	105.7 66.6 31.2	89.2 63.3 29.7	89.3 59.3 30.3	89.9 56.0 30.0	75.8 48.1 31.2	73.5 45.1 29.6	64.6 45.4 30.6	69.1 47.7 30.2	75.4 44.2 31.0	80.2 45.4 29.8	74.2 47.9 31.4		
Lubricantsdo Asphaltdo Liquefied gasesdo	58.3 142.4 537.8	56.0 124.8 542.2	4.4 5.8 51.8	3.9 2.9 58.1	4.2 4.3 47.6	4.2 5.2 47.4	4.6 7.1 45.8	4.1 10.5 44.4	4.5 14.3 38.6	4.3 16.7 46.1	4.2 18.2 42.1	4.5 15.4 45.8	4.1 15.2 45.9	4.8 8.9 49.0		
Stocks, end of period, total do Crude petroleum do Strategic petroleum reserve do Unfinished oils, natural gasoline, etc do Refined products do	¹ 1,420.2 ¹ 482.9 ¹ 107.8 ¹ 192.0 ¹ 745.3	1,488.5 598.8 230.3 176.8 712.9	1,488.5 598.8 230.3 176.8 712.9	$\substack{\substack{1,460.9\\606.2\\235.3\\181.5\\673.3}$	$\substack{\substack{1,431.4\\612.2\\241.2\\184.0\\635.2}$	1,400.9 614.2 248.5 183.5 603.1	$\substack{\substack{\textbf{1,349.9}\\611.0\\255.5\\178.4\\560.4}$	1,349.4 609.5 261.0 174.5 565.4	$1,362.3 \\ 606.9 \\ 264.1 \\ 174.1 \\ 581.2$	$\substack{\textbf{1,393.9}\\611.7\\267.2\\176.4\\605.8}$	$1,407.4\\625.4\\273.6\\171.9\\610.1$	1,414.5 617.8 277.9 173.9 622.8	1,433.7 635.3 284.6 167.6 630.9	$\substack{\substack{1,455.2\\646.0\\290.0\\165.3\\643.9}}$		
Refined petroleum products: ‡ Gasoline (incl. aviation): Productionmil. bbl Stocks, end of perioddo	2,394.1 $^{1}213.5$	2,350.8 205.8	206.0 205.8	192.3 216.8	166.3 216.1	186.8 201.5	183.7 182.0	196.8 176.2	203.9 180.2	211.3 185.3	201.0 187.2	196.6 193.5	194.6 194.3	188.9 191.9		·····
Prices (excl. aviation): Wholesale, regular	576.7 1.217	666.0 (*)	657.7	651.7	642.3	621.1	578.6	555.7	582.7	628.8	636.3	^r 628.4	619.5	611.0	600.7	578.
Unleaded *dodo Aviation gasoline: Productionmil. bbl Stocks, end of perioddodo	1.261 12.8 12.3	(4) 11.5 2.7	0.8 2.7	0.6 2.7	0.6 2.7	0.7 2.6	0.5 2.4	0.9 2.5	0.9 2.4	0.9 2.4	1.1 2.4	0.7 2.2	0.8 2.2	0.7 2.5		
Kerosene: Productiondo Stocks, end of perioddo Price, wholesale (light distillate)	50.1 11.4	43.6 11.1	4.5 11.1	4.4 9.6	4.3 9.1	3.3 8.8	3.6 9.6 1,009.1	2.4 8.9 975.9	2.7 9.2 974.2	2.7 9.1 984.4	2.6 9.5 983.0	3.4 9.8 ^r 976.3	4.0 10.2 968.6	4.3 11.3 984.6		
Jindex, 1967=100 Distillate fuel oil: Production Imports do Stocks, end of period Price, wholesale (middle distillate)	863.4 974.1 51.9 1205.4	1,039.8 954.9 61.0 190.2	1,037.9 88.7 2.9 190.2	1,044.3 81.1 3.0 166.0	1,034.3 68.5 3.6 146.7	1,027.9 71.1 1.5 127.7	70.7 1.8 108.8	973.9 81.2 2.3 114.5	974.2 81.9 3.0 124.6	84.8 3.8 148.2	78.3 2.4 158.9	79.7 1.8 161.2	908.0 88.0 3.0 170.2	85.9 4.2 185.6		
Residual fuel oil: Index, 1967=100 Production mil. bbl. Imports do Stocks, end of period do Price, wholesale Index, 1967=100	850.6 578.4 343.6 '91.5 961.2	1,058.1 480.3 290.6 78.3 1,239.0	1,060.6 40.2 28.5 78.3 1,180.9	1,067.8 36.7 25.4 68.2 1,219.8	1,058.2 31.8 26.0 58.1 1,177.6	1,029.3 34.7 28.2 57.3 1,163.0	953.6 34.9 22.9 53.6 1,182.7	928.7 34.9 22.9 59.1 1,191.6	974.6 32.3 19.3 60.5 1,229.5	1,024.0 31.9 17.8 59.0 1,237.1	$1,022.2 \\31.2 \\16.1 \\52.8 \\1,250.0$	'998.8 30.2 26.1 61.8 1,120.7	997.7 29.6 23.5 63.6 1,125.2	1,040.6 29.7 25.3 66.4 1,152.8	1,053.6	
Jet fuel: Production	365.6 142.4	353.5 40.5	29.3 40.5	27.8 37.2	28.0 37.0	34.7 42.5	30.3 44.1	27.9 41.8	27.9 40.1	29.9 39.8	30.4 40.8	29.3 39.7	30.4 40.9	30.5 40.5		
Lubricants: Production do Stocks, end of period do	65.1 13.6	60.6 14.2	5.1 14.2	4.3 14.4	4.1 14.3	4.3 13.7	4.5 13.4	4.6 13.5	4.6 13.4	4.6 13.5	4.4 13.4	3.9 12.7	4.4 12.6	4.4 12.6		
Asphalt: Production do Stocks, end of period do	141.2 118.8	124.2 19.5	7.6 19.5	$\begin{array}{c} 6.5\\ 23.1\end{array}$	5.4 24.3	7.0 26.1	8.0 27.1	10.5 27.1	12.4 25.6	$13.1 \\ 22.1$	13.3 17.4	12.4 14.6	13.6 13.1	9.7 14.1		
Liquefied gases (incl. ethane and ethylene): Production, total	561.8 440.9 120.8 128.0	583.4 467.9 115.6 137.0	49.9 41.0 8.9 137.0	$47.9 \\ 40.3 \\ 7.6 \\ 122.2$	41.3 34.8 6.6 113.5	47.2 39.2 8.0 109.0	47.0 39.1 7.8 105.8	49.1 40.4 8.7 107.7	47.1 38.3 8.8 110.9	48.2 38.9 9.3 111.1	49.3 40.5 8.9 112.5	48.2 38.9 9.3 111.5	41.0 8.0	$48.1 \\ 40.3 \\ 7.8 \\ 103.5$		
		PULP	, PAF	PER, A	AND	PAP	ER P	ROD	UCTS	3 .						
PULPWOOD AND WASTE PAPER																
Pulpwood: Receiptsdo thous. cords (128 cu.ft.) Consumptiondo Stocks, end of perioddo	*81,007 *79,703 6,697	³ 79,547 ³ 79,604 6,045	5,972 5,658 6,045	(2) (2) (2)										·····		
Waste paper: Consumptionthous. sh. tons Stocks, end of perioddo WOODPULP	°13,185 831	°13,523 993	966 993	(2) (2)				•••••		 	·····	······	· · · · · · · · · · · · · · · · · · ·		••••••	
Production: Total, all grades # thous. sh. tons Dissolving and special alpha do Sulfate	³ 52,055 1,418 38,931 1,911 4,887 3,938	³ 51,783 1,366 39,597 1,812 5,038 3,940	3,590 85 2,675 130 420 279	(2) (2) (2) (2) (2) (2) (2)						· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · · ·		
Stocks, end of period: Total, all millsdo Pulp millsdo Paper and board millsdo Nonpaper millsdo	944 439 449 57	1,198 690 454 54	$1,198 \\ 690 \\ 454 \\ 54$	$\begin{pmatrix} 2 \\ 2 \\ (^2) \\ (^2) \\ (^2) \\ (^2) \end{pmatrix}$						·····						
Exports, all grades, totaldo Dissolving and special alphado All otherdo	³ 3,805 769 ³ 3,037	³ 3,678 784 ³ 2,894	315 85 230	$221 \\ 50 \\ 172$	$303 \\ 42 \\ 261$	319 62 257	316 52 264	326 69 257	302 55 247	261 32 229	279 60 219	298 52 246	237 50 186	247 55 192 375	285 51 234 264	
Imports, all grades, totaldo Dissolving and special alphado All otherdo	³ 4,051 194 ³ 3,858	³ 4,086 201 ³ 3,885	269 8 262	$270 \\ 26 \\ 244$	$310 \\ 9 \\ 301$	296 10 286	306 22 284	302 8 294	287 12 275	289 6 283	$350 \\ 17 \\ 333$	541 8 533	303 18 285	375 18 357	264 8 256	

February 1983		S	URVE	Y OF	CUR	REN'	r BUS	SINES	SS	· · · ·						S-2
Unless otherwise stated in footnotes below, data	1980	1981	1981						19	82						1983
through 1978 and descriptive notes are as shown in the 1979 edition of BUSINESS STATISTICS	Anı	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
	PULP	, PAP	ER, A	ND I	PAPE	RP	RODU	JCTS-	-Con	tinue	ed			.		I
PAPER AND PAPER PRODUCTS														· .		
Paper and board: Production (Bu. of the Census): All grades, total, unadjusted thous. sh. tons Paper	65,834 30,164	66,439 30,669		(⁵) (⁵)												
Paperboarddo Wetmachine boarddo Construction paper and boarddo	31,143 138 4,390	31,561 160 3,846	2,177 9	(5) (5) (5)										······		
Producer price indexes: Paperboard	234.6 206.2	258.1 231.7	260.0 230.3	259.7 233.8	261.4 231.4	261.1 239.6	261.2 236.3				"255.4 243.8		248.0 241.5	247.6 240.4	244.5 241.4	243. 240.
Groundwood paper, uncoated: Orders, new thous. sh. tons	¹ 1,475		122 112	113	112	123	140	116		138	113	125	131	r121	115	
Orders, unfilled, end of period do Shipments do	110 1,498	100 11,463	112 113	89 110	95 108	98 126	104 123	102 115		117 121	100 124		99 139	"93 126	91 116	
Coated paper: Orders, newdo Orders, unfilled, end of perioddo Shipments	¹ 4,753 391 4,673	¹ 4,853 360 4,940	363 308 389	397 343 404	411 361 389	407 332 437	408 336 409	381 307 408	432 306 431	399 312 400	307	285	446 282 447	'413 '272 '433	411 283 399	
Uncoated free sheet papers: Orders, new	¹ 7,694 ¹ 8,326	17,735 18,234	592 600	628 676	612 658	713 745	641 689	621 669	645 670	610 628	674 705	640 684	684 716	r652 r695	608 622	
Unbleached kraft packaging and industrial converting papers: Shipments thous. sh. tons	*13,962	¹¹ 3,725	269	311	324	343	288	272	291	271	326	r296	*309	r315	270	
Tissue paper, production do Newsprint: Canada:	¹ 4,375	¹ 4,518	350	355	365	406	356	365	358	339	383	359	383	366	345	
Production thous. metric tons Shipments from mills do Stocks at mills, end of period do	8,625 8,622 165	8,946 8,915 194	743 800 194	783 671 304	719 709 326	760 750 336	694 703 327	743 718 353	652 611 394	617 615 397	642 591 448	601	698 685 418	657 692 383	599 717 265	
United States: Production do Shipments from mills do Stocks at mills, end of period do	4,239 4,234 21	4,753 4,735 38	359 367 38	415 406 46	378 376 48	420 413 55	396 374 76	385 376 86	383 381 89	363 351 101	372 363 110	353	406 398 118	373 389 102	330 346 86	
Consumption by publishers ¶ do Stocks at and in transit to publishers, end of period thous. metric tons	10,089 732	10,165 961	892 961	790 981	775 1,038	868 1,068	863 1,045	879 1,012	804 1,003	. 767 992	804 952	835 898	r927 861	7890 7832	902 834	
Imports thous. sh. tons Price, rolls, contract, f.o.b. mill, freight allowed or delivered Index, 1967=100	7,279 ³ 279.3	6,977 ³ 308.1	557 316.8	585 316.8	524 318.1	608 318.1	503 321.1	620 322.4	570 319.4	460 318.4	520 318.4	489 318.4	587 318.4	567 303.7	498 300.7	
Paper products: Shipping containers, corrugated and solid fiber shipmentsmil. sq. ft. surf. area	241,377	*246,152	r17,587	18,961	18,638	21,218	19,941	18,720	20,071	18,610	20,414	20,657	21,064	19,043	17,540	
Folding paper boxes, shipments thous. sh. tons mil. \$	(2) (2)										·					
		RUI	BBER	ANI) RUI	BBER	R PRO	DDUC	TS						· .	
RUBBER						· · ·							-			
Natural rubber: Consumptionthous. metric tons	586.15	634.67	42.56	54.59	51.64	53.56	54.40	48.69	^{53.73}	48.16	¹ 48.06	*58.08	53.61			. <u>.</u>
Stocks, end of period do Imports, incl. latex and guayulethous. lg. tons	126.67 598.31	142.43 662.41	142.43 49.13	138.36 50.99	138.02 59.33	134.39 45.71	67.00 53.86	126.26 56.19	'121.88 63.39	62.06 38.67	'115.27 54.35	'105.71 40.60	110.56 54.36	51.37	49.45	
Price, wholesale, smoked sheets (N.Y.) \$ per lb	40.730	⁴ 0.576	0.483	0.488	0.465	0.470	0.453	0.453	0.461	0.465	0.468	0.445	0.426	0.421	0.418	0.440
Synthetic rubber: Production thous. metric tons Consumption do	2,015.24 1,854.01	2,021.45 1,889.71	125.51 131.88	140.49 143.09	145.76 138.94	170.32 149.88	$154.86 \\ 134.63$	155.44 133.07	'139.71 '132.19	117.46 *106.50	124.91 135.22	127.19 *151.80	$135.18 \\ 118.42$			
Stocks, end of period do	341.77	349.02	349.02	340.36	340.43	356.30	376.91	375.59	*374.7 0	*357.91	345.48	310.25	327.59			
Exports (Bu. of Census)thous. lg. tons	422.78	334.63	21.65	27.76	23.46	31.18	26.53	24.73	25.23	20.40	22.04	22.83	21.13	20.47	18.86	
TIRES AND TUBES Pneumatic casings, automotive:																
Productionthous Shipments, total	159,263 177,063	¹ 181,762 201,105	11,855	14,866	15,387	17,051	15,077	14,856	15,669	12,293	14,835	15,528	15,381	13,585	13,972	
Snipments, total	40,227 131,271 5,565	201,105 41,711 153,716 5,678	13,544 2,363 10,820 361	14,144 2,478 11,365 301	13,704 2,769 10,573 362	17,312 3,697 13,216 399	17,676 3,679 13,652 345	18,216 3,970 13,989 257	19,428 4,074 15,018 336	16,421 3,038 13,199 264	$17,700 \\ 2,817 \\ 14,625 \\ 258$	18,938 3,022 15,583 333	17,851 2,919 14,605 327	15,325 2,652 12,337 336	14,521 3,518 10,606 397	
Stocks, end of period do	33,298	40,863	40,863	42,904	46,254	47,817	46,583	45,337	43,475	40,763	40,192	38,685	38,116	38,436	397 39,955	
Exports (Bu. of Census) do	9,058	11,088	485	385	461	614	454	463	653	381	454	385	489	377	474	
nner tubes, automotive: Exports (Bu. of Census) do	4,557	3,428	231	141	151	254	174	102	178	195	162	201	192	162	113	••••••
ee footnotes at end of tables.		·*			· · ·		I					.			L	

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Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1980	1981	1981						198	32						1983
in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
		STON	E, CI	AY,	AND	GLA	SS PI	RODI	UCTS							
PORTLAND CEMENT																
Shipments, finished cementthous. bbl	*1402,830	r1382,692	23,495	15,149	17,755	25,729	28,213	30,984	35,388	34,527	35,957	35,351	34,106	27,431	22,718	
CLAY CONSTRUCTION PRODUCTS																
Shipments:									1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -							
Brick, unglazed (common and face) mil. standard brick	6,090.1	5,199.9	276.7	176.7	213.7	345.1	370.9	398.4	439.2	426.2	425.5	446.2				
Structural tile, except facing thous. sh. tons Sewer pipe and fittings, vitrified do	101.5 758.7	91.9 462.2	$5.1 \\ 21.9$	3.2 14.9	2.7 13.4	3.5 23.3	2.6 25.9	3.7 29.0	$\begin{array}{c} 4.8\\31.0\end{array}$	3.8 31.6	3.5 34.8	4.3 37.5				
Facing tile (hollow), glazed and unglazed									· · · ·							
mil. brick equivalent Floor and wall tile and accessories, glazed and	45.4	35.3	2.6	1.8	1.6	2.5	3.0	2.4	(7)	(7)	(*)	(7)		•••••		
unglazed mi. sq. ft	297.6	287.8	22.8	20.7	20.7	27.0	25.7	23.4	26.1	23.4	26.6	27.6			······	
Price index, brick (common), f.o.b. plant or N.Y. dock	280.8	300.2	303.8	303.8	304.2	304.2	308.4	309.5	310.0	310.9	319.0	r319.2	312.5	322.1	322.1	322
GLASS AND GLASS PRODUCTS	200.0		000.0	505.5	004.2	504.4	500.4	505.5	510.0	010.0	515.0	010.2	012.0	022.1	022.1	022
Flat glass, mfrs.' shipments thous. \$	868,459	952,283	226,926			194,972			219,074	ļ		220,472				
	000,400	302,200	220,920			104,012	•••••		215,014			220,472				
Bass containers: Productionthous. gross	327,972	321,373	19,912	24,442	26,095	29,204	26,673	27,293	27,934	25,982	28,009	^r 24,714	27,716	23,345		
Shipments, domestic, total ‡ do	323,899	319,022	23,788	⁵ 24,731	23,307	27,448	26,259	26,774	28,991	25,165	28,184	26,515	25,956	22,906		
Narrow-neck containers: Food do	28,075	28,728	1,968	2,517	2,208	2,579	2,488	2,520	2,834	2,598	3,489	3,365	2,483	2,092		
Beverage do	57,848	60,248	4,488	3,696	4,103	5,299	5,156	5,699	6,326	5,732	6,029	5,193	4,888	4,483		
Beer	$122,678 \\ 24,574$	$115,680 \\ 24,003$	8,396 1,832	8,559 2,097	8,462 1,541	9,503 1,947	9,509 1,865	9,695 1,852	10,254 1,943	$8,661 \\ 1,607$	9,111 1,777	8,261 1,849	$^{8,122}_{2,165}$	7,603 1,946		
Wide-mouth containers:	-1,011	,	1,002	_,	2,011	2,0 2.	1,000	1,002	,	1,000	-9.1.1	_,,	_,	_,		
Food and dairy productsthous. gross.	61,212	62,404	5,019	5,491	4,906	5,764	4,989	4,978	5,417	4,832	5,752	5,840	5,891	4,962		
Narrow-neck and wide-mouth containers:																
Medicinal and toilet do Chemical, household and industrial do	26,250 3,262	25,119 2,840	1,849 236	2,116 255	$1,875 \\ 212$	2,095 261	1,982 270	$1,848 \\ 182$	2,019 198	1,542 193	$1,767 \\ 259$	1,790 217	2,177 230	1,648 172		
Stocks, end of period do	46,966	46,683	46,683	46,462	49,124	50,405	51,009	51,433	49,982	50,532	50,244	•52,988	49,467	49,374		
GYPSUM AND PRODUCTS @	10,000	10,000	10,000	10,102	40,121	00,100	01,000	01,100	10,002	00,002	00,211	02,000	10,101	10,011		
Production:																
Crude gypsum (exc. byproduct) thous. sh. tons	12,376	11,497	862	784	844	820	886	855	949	912	1,009	966	1,044	898		[
Calcined do	11,848	11,687	825	872	688	919	971	809	965	923	945	971	1,036	945		
mports, crude gypsum do	7,365	7,593	500	375	397	405	218	531	772	469	728	733	724	625	•••••	••••••
Sales of gypsum products: Uncalcined do	5,678	4,904	448	308	294	277	327	401	421	384	394	445	411	342		
Calcined:	0,010	1,001			201		021	101		001				•		
Industrial plasters do	393	370	26	25	26	30	40	39	38	34	37	37	40	34	·····	
Building plasters: Regular basecoat do	232	225	15	16	17	21	16	14	16	16	15	(8)	(6)	(6)		
All other (incl. Keene's cement) do	166	157	10	10	9	13	7	6	8	7	8	(⁶) ⁶ 23	(⁶) ⁶ 21	(⁶) ⁶ 21		
Board products, total mil. sq. ft	14,144	13,759	955 3	965	876 3	1,087	1,100	971 3	1,120	1,098	1,169	1,140	1,216	1,134		
Lath do Veneer base do	79 338	59 325	21	22	18	25	3 24	20	26 25	3 24	26	23 25	25	25		
Gypsum sheathing do	199	208	15	15	15	18	20	20		22	23		27	28		
Regular gypsum board do Type X gypsum board do	10,551 2,638	9,295 3,446	629 258	633 259	564 236	286	716 286	618 262	716 299	702 298	749 315	733 303	774 330	741 293		
Predecorated wallboard do	119	122	10	10	9	11	10	9	11	10	11	10	10	10		
5/16 mobile home board do	4220	304	19	23	31	39	41	38	40	38	42	42	47	35		l
-			Τ	EXTI	LE P	ROD	UCTS	5								
FABRIC																
Woven fabric, finishing plants: * Production (finished fabric) mil. linear yd.	8,420	8,176	°657	495	550	³695	540	531	°663	366	525	r*661	534			
Cotton do	3,531	3,212	°255	172	196	³ 255	194	196	°259	133	200	r ³ 259	201			
Manmade and silk fiber do	4,990		³402	323	354	³ 440	346	335		233	325	³ 402	332			
Inventories held at end of period do Cotton	769	740 317	740 317	725 284	742 312	729 314	722 306	692 293	282	662 282	673 285	*652 267	668 278			
Manmade and silk fiber do	430	423	423	441	430	414	416	400	378	380	389	'385	r390			
Backlog of finished orders do	8,495	9,018 4,711	601 326	580 249	575 255	585 269	592 264	554 254	529 194	485 182	439 178	*456 185	451 195			
Cotton do Manmade and silk fiber do	4,577	4,711	275	330	320	317	204 328	300	334	302	261	271	255			
COTTON				I								1		}	ł	
Cotton (excluding linters):									· ·			l			Į	
Production: Ginnings 1 thous. running bales.	210,826 211,122		13,502				•••••			40	453	1,531	5,290			
Crop estimatethous. net weight bales §. Consumption	6,135		3400	378		³ 493	410		³⁴⁶⁰			°474	416	390	12,019 3430	1
Stocks in the United States, total, end of period #		l i					8.976								14,232	1
thous. running bales. Domestic cotton, total do	9,260	13,777 13,776	$13,777 \\ 13,776$	12,567 12,566	11,424 11,422	10,060 10,058	8,974	8,117 8,116	7,170 7,169 728	6,399 6,397	16,362 16,359	16,436	15,731 15,728	15,033 15,031	14,229	13,4
On farms and in transit do Public storage and compresses do	. 2,502 5,927	3,752	3,752	2,257 9,488	1,810 8,729	1,221 7,921	953 7,112	924 6,292	728 5,542	300 5,269	10,617 4,998	10,475 5,293	7,545 7,575	4,209	2,433 11,101	1,5 11,0
Consuming establishments do		756	9,268 756	821	883	916	909	900	899	828	4,550	668	608	632	695	1 1,

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February 1983	<u></u>	SU	JRVE	1 OF	CUR		BUS									S- č
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in the 1979 edition of BUSINESS STATISTICS	Ann	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
		Tł	EXTII	LE PF	RODU	JCTS-	-Cor	ntinue	ed							
COTTON AND MANUFACTURES-Cont.																
Cotton (excluding linters)—Continued Exportsthous. running bales Importsthous. netweight bales § Price (farm), American upland ¶cents per lb Price, Strict Low Middling, Grade 41, staple 34	¹ 7,975 16 74.4	8,021 17 54.5	$737 \\ 1 \\ 51.2$	653 0 *50.3	754 0 r49.1	873 ([®]) *50.4	676 4 *54.3	484 13 *55.8	498 4 ¹ 56.1	396 1 *59.9	342 2 r52.8	351 10 55.5	293 1 59.8	382 3 59.9	377 57.3	
(1-1/16"), average 10 markets cents per lb	°71.5	^{\$} 83.0	55.1	57.8	57.3	59.7	62.0	62.4	· 61.1	65.0	60.4	59.0	58.6	58.2	59.6	₽60
Spindle activity (cotton system spindles): Active spindles, last working day, total Consuming 100 percent cotton Spindle hours operated, all fibers, total Average per working day Consuming 100 percent cotton	15.9 6.0 102.4 0.388 42.0	15.4 5.5 91.8 0.357 33.6	15.4 5.5 46.9 0.278 42.5	15.4 5.5 6.5 0.327 2.3	15.3 5.5 6.8 0.339 2.4	15.3 5.5 *8.3 0.414 *3.0	15.2 5.5 6.7 0.337 2.5	15.3 5.6 6.6 0.327 2.5	14.9 5.6 47.8 0.310 42.9	$14.7 \\ 5.5 \\ 5.4 \\ 0.268 \\ 2.0$	14.6 5.4 6.3 0.314 2.4	14.5 5.3 47.7 r0.307 42.8	'14.4 5.3 6.6 0.328 2.5	14.6 5.2 6.2 0.309 2.3		······
Cotton cloth: Cotton broadwoven goods over 12" in width:																
Production (qtrly.)	4,456 ⁵ 15.8	3,913 14.1	1,002 14.6			983 12.7	11.5	9.6	953 8.8		10.7	 9.2		9.1		
avg. weekly production no. weeks' prod Ratio of stocks to unfilled orders (at cotton	⁵ 4.2	5.6	6.7	6.8	7.0	7.3	7.1	6.3	7.2	11.2	8.7	5.9	5.8	5.8		
mills), end of period	⁵0.29	0.40	0.46	0.45	0.56	0.58	0.62	0.65	0.82	0.88	0.81	0.63	0.68	0.64		
net-weight §	540.2 567.0	$345.6 \\ 766.3$	21.9 58.9	18.2 66.5	$18.6 \\ 55.1$	$20.4 \\ 47.4$	$20.6 \\ 45.4$	24.3 54.1	24.8 47.8	$22.7 \\ 41.4$	15.7 48.7	18.4 49.3	20.7 44.3			
MANMADE FIBERS AND MANUFACTURES	н. С															
Filer production, qtrly: Filament yarn (acetate)mil. lb Staple, incl. tow (rayon)	308.5 443.3	257.0 460.6	54.8 111.7			52.9 95.4									·····	
Noncellulosic, except textile glass: Yarn and monofilamentsdo Staple, incl. towdo Textile glass fiber	3,725.3 4,148.2 867.3	3,792.8 4,191.1 1,041.1	834.2 940.8 263.2			785.4 864.6 206.9										
ber stocks, producers', end of period: Filament yarn (acetate)mil. lb	18.4 27.2	14.3	14.3			13.5										
Staple, incl. tow (rayon)do Noncellulosic fiber, except textile glass: Yarn and monofilamentsdo Staple, incl. tow	27.2 289.3 287.0	31.1 337.0 327.8	337.0			38.2 330.7 340 3										
Staple, incl. tow	104.1 10,774.1	146.2 11,228.7	146.2 2,586.8			151.8 2,352.3								••••••		
Filament yard (100%) fabrics # do Chiefly rayon and/or acetate fabrics do	3,980.6	3,850.9	884.4			769.0 95.5 110.3	······		834.4 105.8 110.0			······				
Chiefly nylon fabrics	5,899.6 430.2 4,342.9 763.8	6,431.4 584.1 4,517.0 1,002.2	1,445.6 94.1 1,037.7 226.0	·	 	1,326.3 30.5 1,009.3 225.3	······		1,189.7 28.7 901.3 223.4	······	·			·····		
Ratio, stocks to unfilled orders, end of period Prices, manufacturer to mfr., f.o.b. mill: 50/50 polyester/carded cotton printcloth, gray, 48", 3.90 yds./lb., 78x54-56\$ per yd Ianmade fiber manufactures:	0.510					•••••				·····				 1 (C		
Annade noer manufactures: Exports, manmade fiber equivalent mil. lbs Yarn, tops, thread, cloth	771.54 418.64 249.77 352.91	637.73 318.89 208.48 318.84	38.08 19.00 12.74 19.09	34.90 16.20 9.72 18.70	$38.35 \\ 17.13 \\ 10.13 \\ 21.22$	39.72 18.10 11.48 21.61	35.96 15.67 10.59 20.29	$\begin{array}{c} 42.01 \\ 18.42 \\ 12.11 \\ 23.59 \end{array}$	44.21 20.65 13.36 23.56	33.93 16.12 10.66 17.80	33.13 14.70 9.32 18.44	$35.86 \\ 16.06 \\ 11.29 \\ 19.80$	36.87 16.87 12.03 19.98			
Imports, manmade fiber equivalent do Yarn, tops, thread, cloth do Cloth, woven do Manufactured prods, apparel, furnishings do Apparel, total do Knit apparel do	540.64 97.48 67.28 ² 443.15 378.52 187.74	$\begin{array}{r} 639.08 \\ 130.52 \\ 95.38 \\ 508.56 \\ 434.87 \\ 184.70 \end{array}$	39.51 7.71 5.83 31.80 25.97 8.64	$53.18 \\ 10.88 \\ 7.74 \\ 42.30 \\ 36.48 \\ 12.46$	48.07 8.73 6.58 39.34 33.95 11.22	$\begin{array}{r} 47.74\\ 9.33\\ 6.82\\ 38.41\\ 32.29\\ 10.55\end{array}$	40.14 9.58 6.79 30.56 25.39 8.56	$\begin{array}{r} 67.85\\ 12.27\\ 8.74\\ 55.58\\ 40.45\\ 15.32\end{array}$	91.93 12.48 9.14 79.46 53.04 21.76	77.34 9.50 6.58 67.83 43.58 17.80	$100.05 \\ 14.40 \\ 10.44 \\ 85.65 \\ 60.91 \\ 26.41$	82.75 12.95 9.07 69.80 48.38 21.52				
WOOL AND MANUFACTURES Vool consumption, mill (clean basis):																
Apparel class mil. lb. Carpet class do /ool imports, clean yield do Duty-free (carpet class) do	$113.4 \\ 10.0 \\ 56.5 \\ 26.0$	127.8 10.9 ² 75.3 26.1	⁴ 11.2 ⁴ 1.0 5.3 2.0	9.4 0.7 8.0 2.1	9.6 0.9 6.3 1.6	⁴ 12.8 ⁴ 1.0 6.6 1.8	9.0 0.7 4.9 2.0	8.2 0.9 6.0 2.0	⁴9.4 ⁴0.8 6.6 2.6	5.9 0.6 4.0 1.7	8.0 1.0 4.2 2.0	**8.3 *1.2 4.7 1.8	$7.1 \\ 0.7 \\ 2.9 \\ 1.4$	7.7 0.8 3.6 1.3	 3.7 1.2	
ool prices, raw, shorn, clean basis, delivered to U.S. mills: Domestic—Graded territory, 64's, staple 2-3/4"																
and up	⁵ 2.45 ⁵ 3.09 158.3	⁵2.78 ⁵3.16 165.0	2.83 3.12 33.1	2.75 3.01	2.63 3.03	2.44 3.13 38.1	2.40 3.23	2.40 3.36	2.40 3.21 36.1	2.40 3.04	2.40 2.94	$2.40 \\ 2.87$	2.76	2.69	2.67	2
FLOOR COVERINGS	100.0	100.0	00.1			55.1			00.1	•••••						
arpet, rugs, carpeting (woven, tufted, other), shipments, quarterly mil. sq. yds	1,058.4	990.6	217.6			214.0			242.7							
APPAREL Jomen's, misses', juniors' apparel cuttings: Coats	16,808 179,401 18,162	14,845 136,176 13,605														
Bluses	70,152 26,704	91,025 30,322	5,192				(

February 1983

S-32		<u> </u>	JRVE	I OF	CUR	RENI	BUS	SINES	00					F	ebrua	ry 198
Unless otherwise stated in footnotes below, data through 1978 and descriptive notes are as shown	1980	1981	1981						198	32		·····				1983
in the 1979 edition of BUSINESS STATISTICS	Anr	ual	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
		TI	EXTI	LE PH	RODU	JCTS-	-Con	tinue	ed							
APPAREL—Continued																
Men's apparel cuttings: Suitsthous. units	14,074	14.686	1,139													
Coats (separate), dress and sport do Trousers (separate), dress	16,906 124,011	17,880	1,312													
Slacks (jean cut), casual do Shirts, dress and sport thous. doz	253,640 40,988	175,445 38,112	10,178 2,441													
Hosiery, shipments	286,379	304,826	19,796	25,065		· · · · · ·	23,898	22,248	23,888	29,632	22,725	24,466	27,540	22,561	20,969	
· · · · · · · · · · · · · · · · · · ·		TE	RANS	POR	FATI	ON E	QUIF	PMEN	TT.		· · · · · ·					
AEROSPACE VEHICLES																
Orders, new (net), qtrly, total @ mil. \$ U.S. Government do	69,624 33,496	72,852 39,102	19,526 11,808			r20,079 11,016			r18,279 r10,744		 	17,572 10,469		·····	•••••••	
Prime contract do Sales (net), receipts, or billings, qtrly, total do U.S. Government	67,642 58,440 26,674	70,633 69,944 33,039	$18,869 \\ 18,742 \\ 9,253$			^{19,407} 16,719 8,740			17,665 18,113 9,317			16,919 18,869 11,456			•••••••	
Backlog of orders, end of period # do	89,732	92,640	92,640			"96,000			¹ 96,166			94,869				
U.S. Government	37,199 46,777	43,262 44,555	43,262 44,555			"45,538 "46,516			r46,965 46,103		·····	45,978 44,138			••••••	
Engines (aircraft) and parts do Missiles, space vehicle systems, engines, propul- sion units, and parts mil. \$. 11,494 8,498	13,173 11,047	13,173 11,047			"13,545 "10,997	·····		¹ 13,331 10,690			13,912 10,374				
other related operations (conversions, modifica- tions), products, services	10,240	11,047	11,047			°10,997 °11,991			10,000			13,618				
Aircraft (complete);							806.0	956.5	739.9	564.0	466.1	646.5	r602.4	624.7		
Shipments # #	13,043.1 97,068 8,250	13,195.0 89,076 8,551	1,592.4 9,871 952	708.3 4,187 504	774.2 3,993 369	1,122.0 5,857 809	4,270 412	956.5 5,045 453	4,059 434	3,437 445	466.1 2,801 370	646.5 3,665 77	*3,225	3,129 102	421	
MOTOR VEHICLES (NEW)	0,200	0,001	002	504	505		412	400	404	440	510		010	102		
Passenger cars: Factory sales (from U.S. plants), totalthous Domesticdo	³ 6,400 ³ 5,840	6,225 5,749	370 344	273 256	320 302	469 431	488 441	510 468	561 523	439 405	356 334	429 406	431 406	*407 382	'366 344	
Retail sales, total, not seasonally adj † do	8,979 6,581	8,535	523 358	535 368	632 457	- 777 576	669 499	774 584	651 452	630 430	609 409	671 488	656 488	743	632 448	59
Domestics § do Imports § do Total, seas, adjusted at annual rate †mil.	2,398	6,209 2,326	165 7.2	166 7,9	457 175 8.4	201 7.7	499 170 7.3	190 8.2	452 199 *7.0	200 7.4	200 7.6	183 8.3	169	558 185 9.4	184 8.7	18
Domestics §			4.9 2.3	5.4 2.5	6.2	5.6 2.0	5.4 1.8	6.2 2.0	⁶ 4.8 ⁶ 2.2	5.1 2.2	5.4 2.2	6.0 2.3	5.5 2.4	6.8 2.6	6.1 2.6	6
Retail inventories, end of period, domestics: § †	1,520	1,471	1,471	1,432	1,325	1,247	1,256	1,213	1.364	1,377	1,379	1,350	1,296	1,164	1,126	1,18
Not seasonally adjustedthous Seasonally adjusted	1,520	1,495	1,495	1,383	1,325	1,171	1,187	1,146	°1,247	1,378	1,531	1,481	1,412	1,229	°1,191	1,20
Inventory-retail sales ratio, domestics § † Exports (BuCensus), assembled carsthous	2.6 607.80	2.9 538.12	3.7 29.18	3.1 17.27	2.4 23.87	2.5 40.21	2.6 49.59	2.2 45.70	*3.1 38.66	3.2 34.29	3.4 21.18	3.0 26.30	3.1 27.42	2.2 27.39	¹ 2.4 22.42	
To Canada	509.13	470.86 2,998.6	22.37 233.7	13.42 259.9	19.46 195.9	36.03 285.7	45.72 249.2	42.55 309.5	35.72 275.5	32.27 261.9	18.39 263.0	23.70 217.4	23.48		19.60 232.7	
From Canada, total do	594.8	563.9	45.7	37.1	58.0	70.4	73.2	71.2	83.3	44.1	47.7	61.0	49.5	56.8	50.2	
Registrations ¶, total new vehicles do Imports, incl. domestically sponsored do	8,761 2,469	8,444 2,432	612 184	509 159	546 164	626 176	672 186	708 189	$717 \\ 206$	626 203	627 214	625 200	655 195	678 181	765 220	
Trucks and buses: Factory sales (from U.S. plants), totalthous Domestic do	³1,667 ³1,464	r1,701 r1,514	127 116	116 108	144 133	197 184	183 169	193 180	212 197	166 154	142 134	155 146		r127 118	130 122	
Retail sales, seasonally adjusted: † Light-duty, up to 14,000 bbs. GVW do	⁵ 1,963.5		120.4	*167.6	±175.0	r186.0	'170.1	'191.3	155.3	162.2	'140.4	*193.8		^{199.4}	'179.2	
Medium-duty, 14,001-26,000 lbs. GVW do Heavy-duty, 26,001 lbs. and over GVW do	⁵ 92.3 ⁵ 175.7	⁵ 73.9 ⁵ 151.7	'5.4 '13.0	^{4.0 r} 14.0	"3.6 "12.4	'3.4 12.5	3.8 12.6	*4.6 *12.5	*4.1 11.7	'3.9 10.1	⁷ 3.4 710.4	'3.9 10.1	*3.5 *9.6	3.6 10.0	'3.8 '12.5	
Retail inventories, end of period, seasonally adjusted †thous	⁵ 574. 0	⁵559.4	¹ 558.8	r514.0	r498.3	r482.0		⁻ 526.9	569 .0	¹ 615.2	r704.9	¹ 665.5		*566.4	*537.9	
Exports (BuCensus), assembled units do Imports (BuCensus), including separate chassis	⁴ 190.32	170.50	8.97	8.22	11.46	12.68	12.37	12.89	13.81	9.17	7.80	6.62	10.31	9.80 43.28	9.04	
and bodiesthous. Registrations, 1 new vehicles, excluding buses not	1,133.28	838.92	72.29	74.80	57.15	82.00	73.68	71.63	73.27	51.73	56.50	57.33			42.27	1
produced on truck chassisthous Truck trailers and chassis, complete (excludes	2,477	2,185	180	156	171	208	219	226	226	197	193	182	193	215	246	
detachables), shipments	136,702 86,248		9,628 5,611	7,476 4,327	8,418 4,928	9,903 6,355	8,453 5,300	8,023 5,240	8,382 5,388	$6,046 \\ 4,025$	7,826 5,582	6,910 4,900	r6,421 r4,279	7,480 5,400		
Trailer bodies (detachable), sold separately do Trailer chassis (detachable), sold separately do	11,849 14,202	7,239	336	252 449	203 564	429 817	440 846	504 790	376 598	305 680	228 597	335 320	378 211	335 93		
RAILROAD EQUIPMENT																
Freight cars (new), for domestic use; all railroads and private car lines (excludes rebuilt cars and														· .		
cars for export): Shipments	185,920	¹ 44,901	2,711	1,995	1,762	2,247 2.032	2,443	1,794 1,694	1,339 1,244	1,369 1,369	1,060 992	967 913	890 650	610 525	765	
Equipment manufacturers do New orders do Equipment manufacturers do	^{180,357} ^{143,955} ^{140,140}	¹ 41,435 ¹ 17,916 ¹ 17,288	2,455 1,811 1,811	1,833 815 815	1,526 753 753	2,032 1,485 1,485	2,265 539 539	1,694 487 487	1,244 586 586	1,369 179 179	992 373 373	583 583	650 884 134	249 249	477 231 231	
Unfilled orders, end of period	52,370 47,866	16,485	16,485 14,819	14,735 13,231	13,486 12,218	12,599	10,560 9,685	9,253 8,478	8,500 7,820	7,187	6,829 6,217	5,895 5,337	5,283 4,710	4,866	4,295	
Freight cars (revenue), class 1 railroads (AAR): ‡							-									
Number owned, end of periodthous. Held for repairs, % of total owned	1,168 8.8	6.9	1,111 6.9	1,110 7.0	1,105 7.4	1,100 7.6 99.76	1,095	1,090 7.7	1,083 8.0 87.71	1,077 8.1 97.47	1,069 7.9	1,059 8.3	1,053 8.4 85.86	1,047 *8.6 85.43	84 97	
Capacity (carrying), total, end of momil. tons Average per cartons	92.56 79.24		89.37 80.43	89.32 80.48	89.02 80.58	88.76 80.71	88.48 80.84	88.19 80.92	87.71 81.02	87.47 81.19	86.94 81.35	86.24 81.44		85.43 81.60	84.87 81.68	

S-32

FOOTNOTES FOR PAGES S-1 THROUGH S-32

General Notes for all Pages:

r Revised.

p Preliminary.

Estimated c Corrected.

Page S-1

+ Revised series. See Tables 2.6 - 2.9 in the July 1982 SURVEY for revised estimates back to 1977. Pre-1977 estimates 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.

Page S-2

1. Based on data not seasonally adjusted.

Includes data not shown separately.

‡ Revised series. For wholesale see note "‡" for p. S-8. For manufacturing see note "+" for p. S-3. For retail see note "†" for p. S-8. † See note "†" for p. S-3. § See note "†" for p. S-8.

 @ See note '‡' for p. S-8.
 % New series. Data back to 1967 are available from the National Income and Wealth Division, Bureau of Economic Analysis.

Page S-3

‡ Revised series. For wholesale see note "‡" for p. S-8. For manufacturing see note "+" for this page. For retail see note "†" for p. S-8.

† Revised series. Data have been revised back to 1972. A detailed description of these revisions and historical data appear in the reports "Manufacturers' Shipments, Inventories, and Orders" M3-1.10 (1972-1980) and M3-1.11 (1977-81), available from the Bureau of the Census, Washington, D.C. 20233.

§ See note "†" for p. S-8.

@ See note "‡" for p. S-8.

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

Includes data for items not shown separately.

Page S-4

1. Based on data not seasonally adjusted.

† See note "†" for p. S-3.

Includes data for items not shown separately. ‡ Includes textile mill products, leather and products, paper and allied products, and

printing and publishing industries; unfilled orders for other nondurable goods industries are zero.

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

Page S-5

1. Based on unadjusted data.

2. Beginning with data for January 1983, the index is affected by a change in methodology used to compute the homeownership component. For additional information regarding this change see p. S-36 of this SURVEY. † See note "†" for p. S-3. @ 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.
 \$\$ See note "\$" for p. S-4.

Page S-6

1. See note 2 for p. S-5.

2. Index no longer available from the source, BLS.

§ For actual producer prices of individual commodities see respective commodities in the Industry section beginning p. S-19. 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. 1983 SURVEY, data have been revised back to 1978 to reflect updated seasonal factors. Effective Feb. 1982 SURVEY, data have been revised back to 1977 to reflect updated seasonal factors. These revisions are available upon request.

Page S-7

1. Computed from cumulative valuation total.

2. Index as of Feb. 1, 1983: building, 347.5; construction, 372.5.

Includes data for items not shown separately.

§ Data for Jan., Apr., July, Sept., and Dec. 1982 are for five weeks; other months four weeks.

Page S-8

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

§ Data include guaranteed direct loans sold.

‡ Effective Oct. 1982 SURVEY, seasonally adjusted wholesale trade data have been revised for Jan. 1981-March 1982. Effective April 1982 SURVEY, wholesale trade data have been revised for Jan. 1972-Dec. 1981. Revised data are available upon request.

† Effective April 1982 SURVEY, retail trade data have been revised for the years 1972-1981. 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-9

Advance estimate.

2. Effective Jan. 1979 data, sales of mail-order houses are included with department store sales.

3. As of July 1.

1.

Advance Estimate.

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 with the January 1983 SURVEY, the seasonally adjusted labor force series have been revised back to January 1978. Revised monthly series appear in the January 1983 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.

† See note "†" for p. S-8.

Page S-10

1. This series has been discontinued.

§ These unemployment rates are for civilian workers only. The unemployment rate for all workers, including the resident armed forces, was 10.2 in Jan. 1983.

† Effective June 1982 SURVEY, data have been revised back to 1977 based on March 1981 benchmark levels and updated seasonal adjustment factors. See "BLS Establishment Estimates Revised to March 1981 Benchmarks," in the June 1982 issue of Employment and Earnings; Effective July 1981 SURVEY, data have been revised back to 1974 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*. ¶ See note "¶" for p. S-9.

Page S-11

See note "†" on p. S-10.

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

¶ Production and nonsupervisory workers.

Page S-12

1. This series has been discontinued.

See corresponding note on p. S-10,

¶ Production and nonsupervisory workers.

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

§ Wages as of Feb. 1, 1983: Common, \$14.92; Skilled, \$19.46.

Page S-13

1. Average for Dec.

¶ Effective April 1982 SURVEY, the series for work stoppages involving six or more workers have been discontinued and have been replaced by series for work stoppages involving 1,000 or more workers.

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).

* New series. Beginning Dec. 1978, data are for all investment account securities; comparable data for earlier periods are not available.

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

2. Average for the year. 3. 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. See also note 3 for this page

5. Beginning Oct. 1981, data represent the total surplus or deficit (budget surplus or deficit plus off-budget surplus or deficit). See also note 1.

6. Interest rate charged as of Feb. 1, 1983 was 11.11.

Includes data for items not shown separately.
 § The Department of Health, Education, and Welfare was redesignated as the Depart-

ment of Health and Human Services by the Department of Education Organization Act. ¶ Adjusted to exclude domestic commercial interbank loans and Federal funds sold to domestic commercial banks.

‡ Rates on the commercial paper placed for firms whose bond rating is Aa or the equivalent. Data through Oct. 1979 show a maturity for 120-179 days. Beginning Nov. 1979, matu-

rity is for 180 days. @ Data through Oct. 1979 show a maturity for 150-179 days. Beginning Nov. 1979, matu-

rity is for 180 days. ±‡ Courtesy of Metals Week.

@@ Average effective rate

Page S-15

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

† 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:

-This measure is currency plus demand deposits at commercial banks and interest-earning Mi.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 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 denominations of \$100,000 or more) at all depositary institutions (including negotiable CD's) plus term RP's issued by commercial banks and savings and loan associations.

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

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

Page S-16

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-17

1. See note 1 for p. S-16.

2. Beginning Jan. 1982 data, the Customs value is being substituted for the f.a.s. value. Includes data not shown separately.

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

Page S-18

1. See note 1 for p. S-16.

- Annual total; quarterly or monthly revisions are not available. 3. Before extraordinary and prior period items.
- 4. For month shown.

5. Domestic trunk operations only (averaging about 90 percent of domestic total).

6. See note 2 for p. S-17.

Beginning October 1982; data are not comparable because of the exclusion of some small carriers who chose to waive filing a Form 41.

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 from compared and activated in the second secon Average daily rent per room occupied, not scheduled rates.
 @ Effective January 1, 1980, contract carriers are not included because the data filed by

these carriers were substantially reduced in scope, in accordance with the ICC revised reporting regulations.

Page S-19

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

Data withheld to avoid disclosing operations of individual companies.

Beginning Jan. 1981, data represent gross weight (formerly phosphoric acid content weight) and are not comparable with data shown for earlier periods.

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

5. Beginning Jan. 1980 data, another company is included.

6. A portion of data is being suppressed because of not meeting publication standards. For nitrogen solutions, see also note 4 for this page.

7. Less than 500 short tons.

Includes data for items not shown separately.

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

‡ Revisions, back to 1977 for some commodities, are available upon request. ¶ Data for Jan. 1977-June 1979 exclude potassium magnesium sulfate; not strictly compa-

rable with data shown for other periods.

Page S-20

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

Annual total includes Hawaii; not distributed to the months.

3. Beginning 1982, the reporting frequency has been changed from a monthly to a quarterly basis. Revised quarterly data for 1979 through 1981 are available upon request

4. 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 1977 are available upon request.

Page S-21

Average for three months, price not available for Apr.-Dec.

Crop estimate for the year. 2

3. 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).

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

- Data are no longer available.
- See note 4 for p. S-22

Crop estimate for 1982.

10. Effective with this reporting, data are reported on a monthly basis.

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-22

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

Average for nine months; index not available for Apr.-June,

Data are no longer available. 3.

4. Effective with this reporting, data are for three-month intervals.

Cases of 30 dozen. 8

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.

- 1. Crop estimate for the year.
- Average for seven months; price not available for July, Aug., and Oct.-Dec. 2.
- Annual total; monthly revisions are not available.
- Data are no longer available. Crop estimate for 1982. 5.
- Monthly data reflect cumulative revisions for prior periods. Revisions back to 1975 are available upon request. New series. Source: Bureau of Labor Statistics.

- # Totals include data for items not shown separately.

Page S-24

1. Annual data; monthly revisions not available.

2. Less than 500 short tons.

Page S-25

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-26

1. Annual data; monthly revisions are not available.

Less than 50 tons.

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

[‡] 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-27

1. 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.

2. Data are for five weeks; other months 4 weeks. Based on new 1981 stock level. See also note "‡" for this page.

4.

For month shown.

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 alcohol new supply (field production)," 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-28

1. Based on new 1981 stock level. See also note "‡" for p. S-27.

See note 5 for p. S-29.

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

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-27.

Page S-29

- 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. 1980 or June 1981.

Average for 11 months; no price available for Nov. 1980 or for Oct. 1981.

Monthly data will be discontinued as of April 1982 SURVEY, due to budgetary limitations. The related annual report, MA26A, will continue to be published.

¶ Source: American Paper Institute. Total U.S. estimated consumption by all newspaper users § 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-30

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

2. Crop for the year.

Data cover five weeks; other months, four weeks.

Data are not available prior to Jan. 1980.

See note "‡" for this page.

6. Data for regular basecoat plasters not available; sales of "all other" represents total sales of building plasters.

7. Data withheld to avoid disclosing operations of individual companies 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.

Beginning Jan. 1982, shipments include those for direct export; such shipments for 1980-81 were (thous. gross): 2,316 and 2,165 respectively.

@ Annual totals are based on advance summaries and reflect revisions not distributed to the months.

Page S-31

1. Effective Jan, 1, 1978, includes reexports, formerly excluded.

Annual total includes revisions not distributed to the months.

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

For five weeks; other months four weeks, 4.

5. Monthly average.

Less than 500 bales.
 § 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-32

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

2. Estimates of production, not factory sales.

3. Beginning Jan. 1979, data reflect the inclusion of Volkswagens produced in the U.S. Beginning Jan. 1980, passenger vans (previously reported as passenger cars) are included with trucks

4. Monthly data for 1980 as published in earlier issues of the SURVEY, exclude exports for off-highway trucks; not strictly comparable with data shown for other periods. Such exports have since been included in the monthly data and are available upon request.

5. Based on unadjusted data.

See note "+" for this page. 6.

Effective with the September 1982 SURVEY, retail sales of trucks have been restated back to Jan. 1982 to include U.S.-built Mercedes-Benz trucks (19,501 - 33,000 lbs.); comparable stock data, prior to Aug. 1982, are not available. 8. See last sentence of note "+" for this page. # 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. Effective with the July 1982 SURVEY, seasonally adjusted data for passenger cars have been revised back to Jan. 1977 and are available upon request. Effective with the Feb. 1983 SURVEY, seasonally adjusted data for trucks and buses have been revised back to Jan. 1980 and 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.

Change in the Treatment of Homeownership in the CPI-U

Beginning with data for January 1983, the Consumer Price Index for All Urban Consumers (CPI-U), shown along with selected components on pages S-5 and S-6, reflects changes in the methodology used to compute the homeownership component. A rental equivalence measure is now used. Historical data for the CPI-U based on the new methodology will not be available. However, the change has been made in such a way that the indexes based on the new and old methodologies are equal for December 1982 (the so-called link month), and calculations based on the old method will be available for a 6-month overlap period (January through June 1983). The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) will continue to be calculated by the old method through 1984. Beginning with data for January 1985, it will also reflect a rental equivalence measure of homeownership.

Under the old method of computation, the CPI homeownership component consisted of five subcomponents: the net price of homes purchased, the amount of mortgage interest expected to be paid over one-half the stated life of a home mortgage, property taxes, property insurance, and home maintenance and repairs. As such, it reflected investment elements, largely related to the purchase price and mortgage interest subcomponents, as well as consumption elements. The large weight of the homeownership component in the CPI and the sensitivity of the all-items index to the procedures used in its calculation focused attention on it.

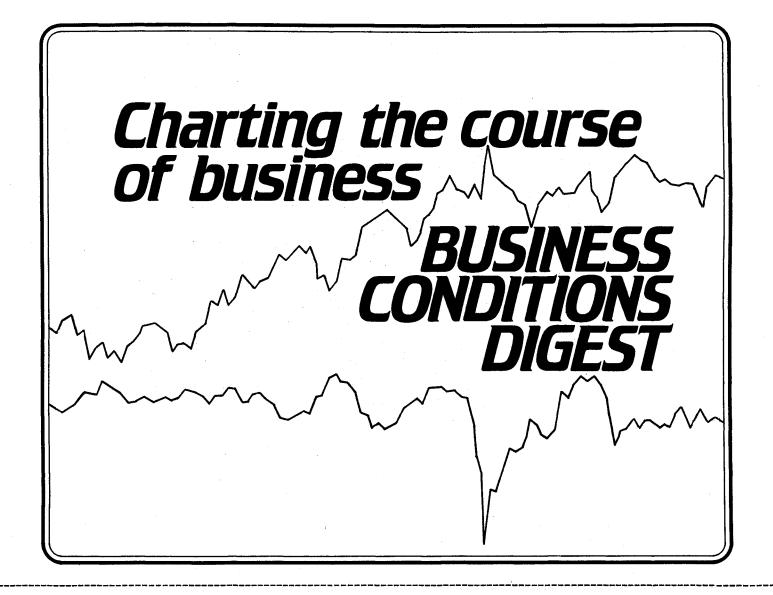
A change to a flow-of-services-consumed treatment for homeownership has been under discussion for some time. Because such a treatment would abstract from investment elements of homeownership, it would be consistent with the design of the CPI as a measure of change in the prices of the market basket of services consumed in the base period. More recently, problems in obtaining reliable data for calculating the home price and mortgage interest cost subcomponents have highlighted the need for change. For home prices, the prices used in the CPI pertained only to purchases financed with FHA-insured mortgages. These prices represented a very small, specialized, and declining segment of the housing market, and thus were becoming less representative. For mortgage interest, new types of mortgages-involving variable rates, shorter financing terms, and other special arrangements-had become increasingly prominent, making the standard, long-term, fixed-rate

mortgage used in the CPI increasingly unrepresentative. Further, because of high interest rates and difficulties faced by home buyers in securing mortgages from financial institutions, many homeowners were offering to provide financing at below commercial rates in order to sell their homes; these arrangements were not reflected in the CPI.

Under the new method of computation, the CPI-U homeownership component has been replaced with a homeowners' cost component to reflect costs associated with homeowners' consumption of shelter service. (The new rental equivalence CPI-U is a descendant, with important refinements, of the CPI-U-X1, one of the experimental measures produced since 1980 and now discontinued.) In the new CPI-U, the homeowners' cost consists of owners' equivalent rent and household insurance. Owners' equivalent rent, the primary rental equivalence item, is a measure of the rental income owners forego when they choose to occupy their homes instead of renting them out. It replaces home purchase, home financing, and property tax of the old method, plus the portions of the property insurance, maintenance and repairs, and household appliances that are implicitly included in rents. The household insurance subcomponent is a measure of the portion of property insurance not implicitly included in rents-insurance for liability and house contents. Except for the portions now included in owners' equivalent rent, maintenance and repairs (now excluding capital improvement items) and household appliances are listed separately. As a result of the change in methodology, the overall weight of homeownership in the CPI-U declined, from about 26 to 14 percent.

The notes to pages S-5 and S-6 indicate which CPI-U series shown on those pages are affected by the change in methodology: the all-items index and series based on it; the indexes for commodities, services, and some major commodities and services aggregates; and the indexes for housing and its shelter and household furnishings and operation subcomponents. Two indexes—homeownership, and services less rent—are no longer available. In addition, a number of detailed and special-group indexes not shown on these pages are affected.

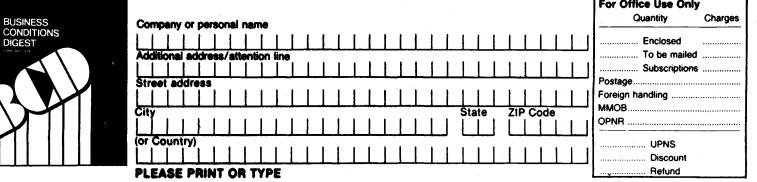
For a detailed discussion of the change in the treatment of homeownership, see "Changing the Homeownership Component of the Consumer Price Index to Rental Equivalence," *CPI Detailed Report*, January 1983: 1-8.



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Percent

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1978

1979

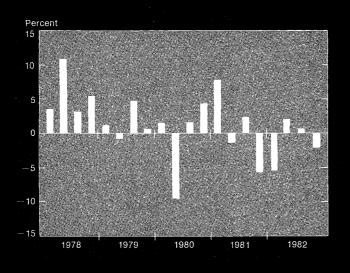
1980

1981

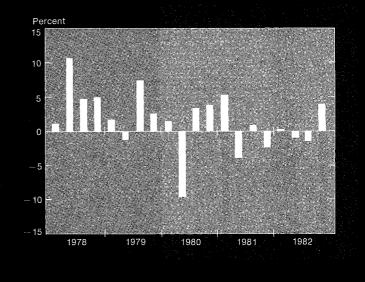
1982

- Real GNP declined 2 percent
- Real final sales increased 4 percent
 GNP fixed-weighted price index increased 4½ percent
- Real disposable personal income increased 1 percent



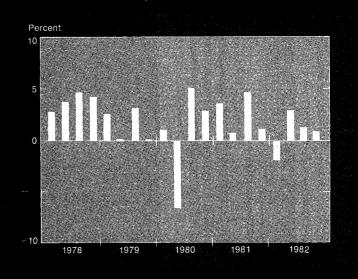






Real Final Sales

Real Disposable Personal Income



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

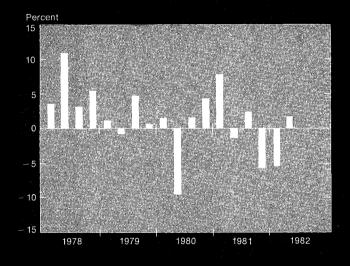
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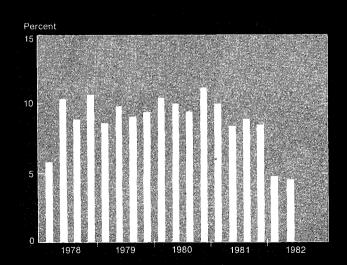
In the second quarter

- Real GNP increased 1½ percent
 Real final sales declined ½ percent
 GNP fixed-weighted price index increased 4½ percent
- Real disposable personal income increased 3 percent





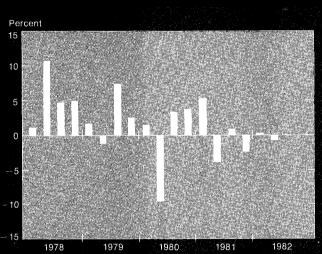




Real Disposable Personal Income









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> > 4

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