

Bureau of Economic Analysis

Survey of Current Business

Table of Contents February 2000

Special in this issue

12. Comparison of BEA Estimates of Personal Income and IRS Estimates of Adjusted Gross Income

The BEA estimates of personal income and the IRS estimates of adjusted gross income (AGI)---two widely used measures of household income---are reconciled through a series of adjustments for definitional differences between the two measures. This reconciliation incorporates the results of the recent comprehensive revision of the NIPA's, updates to the AGI estimates, and several improvements to the reconciliation items.

24. Accounting for Subsoil Mineral Resources

[Reprint of chapter 3 of Nature's Numbers: Expanding the National Economic Accounts to Include the Environment]

Last summer, a blue-ribbon panel of the National Academy of Sciences' National Research Council completed a congressionally mandated review of BEA's prototype integrated economic and environmental accounts. As part of its promise to inform users of the results of this evaluation, BEA is reprinting chapters from the panel's final report.

70. Industrial Composition of State Earnings in 1958--98

The industrial composition of earnings across States has become more similar over time. This convergence primarily reflects the relatively stronger growth in services than in farming and manufacturing; services-producing industries tend to be more evenly distributed across the Nation than goods-producing industries. In 1998, the States with industrial compositions that were most similar to that of the United States were California, Washington, Arizona, Pennsylvania, and Missouri. The States that were least similar were Wyoming, Alaska, Nevada, Hawaii, and New Mexico.

Regular features

1. Business Situation

U.S. economic activity registered another strong increase in the fourth quarter of 1999, while inflation picked up somewhat. Real GDP increased 5.8 percent after increasing 5.7 percent in the third quarter. The price index for gross domestic purchases increased 2.3 percent after increasing 1.7 percent.

7. Motor Vehicles, 1999

Sales of motor vehicles surged to a record 17.4 million units in 1999 from 16.0 million units in 1998. Sales of new trucks again increased strongly, reaching a record 8.7 million units; sales of new cars also increased to 8.7 million units, following 4 consecutive years of declines.

51. State Personal Income, Third Quarter 1999

Personal income in the Nation increased 1.3 percent in the third quarter of 1999, the same pace as in the second quarter. In the third quarter, the States with the fastest growth in personal income were Nevada, Arizona, and Florida. The States with the slowest growth were North Dakota, South Dakota, and North Carolina.

Reports and statistical presentations

- 23. Comprehensive NIPA Revision: Newly Available Tables
- **D-1. BEA Current and Historical Data**

BUSINESS

This article was prepared by Daniel Larkins, Larry R. Moran, Ralph W. Morris, and Deborah Y. Sieff. R EAL GROSS domestic product (GDP) increased 5.8 percent in the fourth quarter of 1999, according to the "advance" estimates of the national income and product accounts (NIPA'S), after increasing 5.7 percent in the third quarter (table 1 and chart 1).¹ The price index for gross domestic purchases increased 2.3 percent after increasing 1.7 percent. Real disposable personal income increased 4.6 percent after increasing 2.9 percent; the personal saving rate (personal saving as a percentage of current-dollar disposable personal income) continued its

downtrend, decreasing to 1.9 percent from 2.1 percent.

SITUATION

The largest contributors to the fourth-quarter increase in real GDP were personal consumption expenditures (PCE), government spending, inventory investment, and exports (table 2). (These components, along with private nonresidential fixed investment, also contributed substantially to the third-quarter increase in real GDP.) PCE increased 5.3 percent in the fourth quarter and contributed 3.6 percentage points to the growth in GDP; expenditures for durable goods, for nondurable goods, and for services all increased. Government spending increased 8.4 percent and contributed 1.5 percentage points; spending by the Federal Government and by State and local governments both increased. Inventory investment increased \$27.4 billion, as the pace of ac-

Table 1.—Real Gross Domestic Product, Real Gross Domestic Purchases, and Real Final Sales to Domestic Purchasers [Quarterly estimates seasonally adjusted at annual rates]

	Billi	ons of	chained	1 (1996) dollar	s	Perce	ent char	nge fror	n prec	eding p	eriod
	Cł	nange f	rom pre	eceding	period					19	99	
	1998 1999 1999						1998	1999		ш		IV
	1998	1999	1 11		III IV				'	п	III	IV
Gross domestic product	351.2	344.7	78.7	40.7	122.0	126.3	4.3	4.0	3.7	1.9	5.7	5.8
Less: Exports of goods and services Plus: Imports of goods and services	21.7 127.0	35.4 144.8	-14.4 37.8	10.0 44.5	28.4 47.6	17.6 35.6	2.2 11.6	3.5 11.8	-5.5 12.5	4.0 14.4	11.5 14.9	6.9 10.6
Equals: Gross domestic purchases	449.3	442.3	125.9	70.8	138.7	142.5	5.4	5.1	5.8	3.2	6.3	6.3
Less: Change in private inventories Nonfarm	5.2 7.0 –2.1	-32.4 -31.0 -1.6	-15.1	-36.1 -30.0 -6.5	24.0 28.1 -4.7	27.4 30.2 -3.4						
Equals: Final sales to domestic purchasers	443.6	470.2	144.2	103.0	114.4	116.1	5.4	5.4	6.7	4.7	5.2	5.2
Personal consumption expenditures	264.9 74.1 65.4 127.8 155.8 10.1 118.7 29.6 25.2 -4.8 -6.6 1.7 29.8	300.1 83.6 89.3 132.3 117.6 92.9 -6.8 104.9 25.2 54.3 15.2 6.4 8.7 39.1	92.6 22.8 36.9 34.5 33.4 21.9 -3.8 27.2 11.1 18.7 6 -3.5 2.8 19.3	73.4 17.3 14.2 42.7 25.1 20.2 -3.4 25.2 5.1 4.9 2.8 -2.2 5.0 2.2	71.5 15.1 15.6 41.4 26.3 31.4 -2.4 35.7 -3.7 17.0 5.5 9.1 -3.6 11.5	77.9 23.3 26.6 30.0 6.2 7.6 -3.3 12.1 -1.1 31.2 20.4 15.4 5.1 10.9	4.9 11.3 4.0 11.8 12.7 4.1 15.8 9.2 1.7 9 -1.9 1.0 3.2	5.3 11.4 5.3 4.0 8.0 8.3 -2.7 12.0 7.2 3.7 2.9 1.9 4.7 4.1	6.5 12.4 8.9 4.2 9.1 7.8 -5.8 12.5 12.9 5.1 5 -4.0 6.1 8.2	5.1 9.1 3.3 5.2 6.6 7.0 -5.3 11.2 5.5 1.3 2.1 -2.6 10.9 .9	4.9 7.7 3.6 5.0 6.8 10.9 -3.8 15.7 -3.8 4.5 4.1 11.2 -7.1 4.8	5.3 11.8 6.1 3.5 1.5 2.5 -5.3 4.9 -1.2 8.4 16.0 18.9 11.0 4.4
							4.5	4.6				

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates usually are not additive. Chained (1996) dollar levels and residuals,

which measure the extent of nonadditivity in each table, are in NIPA tables 1.2, 1.4, and 1.6. Percent changes are calculated from unrounded data. Percent changes in major aggregates are in NIPA table S.1. (See "Selected NIPA Tables," which begins on page D-2 of this issue.)

^{1.} Quarterly estimates in the NIPA's are expressed at seasonally adjusted annual rates. Quarter-to-quarter dollar changes are the differences between the published estimates. Quarter-to-quarter percent changes are annualized and are calculated from unrounded data unless otherwise specified.

Real estimates are calculated using a chain-type Fisher formula with annual weights for all years and for all quarters except those for the most recent year, which are calculated using quarterly weights; real estimates are expressed both as index numbers ($_{1996} = _{100}$) and as chained ($_{1996}$) dollars. Price indexes ($_{1996} = _{100}$) are also calculated using a chain-type Fisher formula.



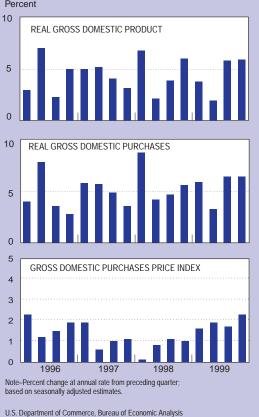


Table 2.—Contributions to Percent Change in Real Gross Domestic Product

[Quarterly estimates seasonally adjusted at annual rates]

	1000	1000		19	99	
	1998	1999	I	Ш		IV
Percent change at annual rate: Gross domestic product	4.3	4.0	3.7	1.9	5.7	5.8
Percentage points at annual rates:						
Personal consumption expenditures Durable goods Nondurable goods Services	3.24 .86 .79 1.59	3.52 .89 1.04 1.59	4.27 .96 1.68 1.63	3.36 .71 .64 2.01	3.33 .62 .73 1.97	3.59 .93 1.22 1.43
Gross private domestic investment	1.93 1.86 1.49 .13 1.37 .37 .07	.99 1.32 1.02 –.08 1.10 .31 –.33	.67 1.48 .94 18 1.12 .53 80	36 1.10 .86 16 1.02 .24 -1.46	2.25 1.16 1.33 –.11 1.44 –.17 1.09	1.46 .28 .33 15 .48 05 1.18
Net exports of goods and services Exports Goods Services Imports Goods Services	-1.18 .25 .17 .08 -1.43 -1.21 22	-1.11 .38 .29 .09 -1.49 -1.33 16	-2.13 61 .13 -1.52 -1.28 24	-1.35 .42 .32 .10 -1.77 -1.59 19	72 1.19 1.19 0 -1.91 -1.83 08	70 .74 .57 .17 -1.44 -1.13 30
Government consumption expenditures and gross investment Federal National defense Nondefense State and local	.31 06 08 .02 .37	.64 .18 .08 .10 .47	.87 03 16 .13 .90	.23 .13 10 .23 .10	.81 .26 .42 –.16 .55	1.45 .94 .70 .24 .52

NOTE.—More detailed contributions to percent change in real gross domestic product are shown in NIPA table 8.2. Contributions to percent change in major components of real gross domestic product are shown in tables 8.3 through 8.6.

Table 3.—Motor Vehicle Output, Sales, and Inventories

[Seasonally adjusted at annual rates]

	E	Billions of c	hained (19	996) dollar:	s	Perce	nt change qua	from prec	eding
	Level	Chanç	ge from pr	eceding qu	uarter		19		
	1999		19	99			19'	99	
	IV	I	II	Ш	IV	I	II	Ш	IV
OutputAutos Trucks	361.1 137.0 223.6	- 19.7 -22.0 2.0	6.7 2.3 4.4	20.1 2.4 17.6	5.3 7.2 –1.8	- 20.7 -47.7 4.1	8.4 7.5 9.0	26.2 7.6 38.3	6.1 24.2 –3.1
Less: Exports Autos Trucks	26.7 17.0 9.7	-1.8 -1.6 2	2.3 2.1 .2	-1.9 -2.2 .3	2.4 1.8 .6	-25.2 -33.0 -8.8	43.3 67.0 8.4	-25.5 -41.8 14.6	44.7 56.4 27.2
Plus: Imports Autos Trucks	117.4 97.7 19.6	9.2 6.6 2.6	.6 -2.3 2.9	6.8 8.1 –1.3	3 0 3	41.6 34.4 85.7	2.2 -9.7 80.7	26.8 41.2 –21.8	9 .1 -5.2
Equals: Gross domestic purchases Autos Trucks	452.2 218.3 233.7	- 8.3 -13.3 4.9	5.0 -2.3 7.2	28.9 12.9 15.9	2.6 5.3 –2.6	- 7.6 -22.5 9.8	4.9 -4.5 14.3	30.4 28.5 32.2	2.3 10.3 -4.4
Less: Change in private inventories Autos Trucks	16.2 5.7 9.9	-10.2 -11.2 .5	-4.0 -9.6 4.7	10.8 11.1 .2	2.9 2.5 .5				
Equals: Final sales to domestic purchasers	435.6 212.6 223.0	1.9 -2.4 4.3	9.0 6.9 2.1	17.9 2.1 15.8	- .4 2.8 -3.2	1.9 -4.7 8.7	9.1 14.6 4.0	18.3 4.0 33.5	- .4 5.5 -5.6
Addenda: Personal consumption expenditures Private fixed investment Gross government investment	256.2 163.6 15.6	.9 2.2 –1.1	6.1 3.8 –.9	1.5 14.0 2.3	3.4 -6.4 2.5	1.4 6.0 –30.9	10.3 10.3 –26.7	2.4 41.0 115.7	5.5 –14.2 102.7

NOTE.—See note to table 1 for an explanation of chained (1996) dollars. Truck output includes new trucks only; auto output includes new cars and used cars. Chained (1996) dollar levels for

motor vehicle output, auto and truck output, and residuals, which measure the extent of nonadditivity in each table, are in NIPA tables 1.4 and 8.9B.

cumulation increased to \$65.4 billion from \$38.0 billion, and contributed 1.2 percentage points to GDP growth. Exports increased 6.9 percent and contributed 0.7 percentage point. The increases in these components were partly offset by a 10.6percent increase in imports, which subtracted 1.4 percentage points from GDP growth.

Motor vehicles.--Real motor vehicle output increased 6.1 percent in the fourth quarter after increasing 26.2 percent in the third (table 3).² The slowdown was more than accounted for by truck output, which decreased after increasing substantially; auto output accelerated.

2. For more information on motor-vehicle developments, see "Motor Vehicles, 1999" in this issue.

Fourth-Quarter 1999 Advance GDP Estimate: Source Data and Assumptions

The "advance" GDP estimate for the fourth quarter is based on preliminary and incomplete source data; as more and better data become available. the estimate will be revised. The advance estimate is based on the following major source data. (The number of months for which data were available is shown in parentheses.)

Personal consumption expenditures: Sales of retail stores (3) and unit auto and truck sales (3);

Nonresidential fixed investment: Unit auto and truck sales (3), construction put in place (2), manufacturers' shipments of machinery and equipment other than aircraft (2), shipments of civilian aircraft (2), and exports and imports of machinery and equipment (2);

Residential investment: Construction put in place (2) and single-family housing starts (3);

Change in private inventories: Manufacturing and trade inventories (2) and unit auto and truck inventories (3):

Net exports of goods and services: Exports and imports of goods and services (2);

Government consumption expenditures and gross investment: Federal outlays (3), State and local construction put in place (2), and State and local employment (3);

GDP prices: Consumer price index (3), producer price index (3), U.S. import and export price indexes (3), and values and quantities of petroleum imports (2).

BEA made assumptions for source data that were not available. Table A shows the assumptions for key series; a more comprehensive listing of assumptions is available from stat-usa/Internet, a service of the U.S. Department of Commerce, or from the BEA Web site <www.bea.doc.gov>.

[Billions of dollars, seasonally adjusted at annual rates]

			199	99		
	July	August	September	October	November	December 1
Fixed investment:						
Nonresidential structures: Buildings, utilities, and farm: Value of new nonresidential construction put in place Equipment and software:	183.3	181.0	180.9	178.1	183.9	183.4
Manufacturers' shipments of complete civilian aircraft Manufacturers' shipments of nondefense capital goods other than aircraft Residential structures:	37.9 585.3	56.2 575.0	29.7 568.7	46.8 579.9	38.9 573.5	48.3 571.2
Value of new residential construction put in place: 1-unit structures 2-or-more-unit structures	211.3 27.6	210.7 27.9	211.0 28.1	212.7 27.0	215.0 28.9	220.1 28.1
Change in private inventories, nonfarm: Change in inventories for manufacturing and trade (except nonmerchant wholesalers) for industries other than motor vehicles and equipment in trade	49.9	35.4	57.3	56.5	84.7	73.6
Net exports: ² Exports of goods: U.S. exports of goods, balance-of-payments basis Excluding nonmonetary gold	670.7 668.9	709.7 704.9	707.2 695.5	707.1 702.3	714.5 702.4	723.6 713.8
Imports of goods: U.S. imports of goods, balance-of-payments basis Excluding nonmonetary gold Net exports of goods (exports less imports) Excluding nonmonetary gold	1,047.7 1,045.0 –377.1 –376.1	1,071.2 1,063.3 -361.6 -358.4	1,069.7 1,058.2 –362.5 –362.7	1,088.9 1,082.5 –381.8 –380.2	1,103.8 1,091.8 –389.3 –389.3	
Government consumption expenditures and gross investment: State and local: Structures:						
Value of new construction put in place	141.9	143.3	144.6	142.8	152.4	146.2

Assumed.

Normonetary gold is included in balance-of-payments-basis exports and imports but is not used directly in the estimation of NIPA exports and imports.

Final sales of motor vehicles to domestic purchasers decreased 0.4 percent after increasing 18.3 percent, as a step-up in consumer purchases was more than offset by a downturn in purchases by businesses (private fixed investment). Truck sales decreased after a sharp increase; auto sales increased a little more than in the third quarter.

Factors frequently considered in analyses of consumer spending were favorable in the fourth quarter. The growth of real disposable personal income picked up to 4.6 percent from 2.9 percent, and the unemployment rate decreased to 4.1 percent from 4.2 percent. The Index of Consumer Sentiment (a measure of consumer attitudes and expectations prepared by the University of Michigan's Survey Research Center) remained at a high level.

Factors specific to motor vehicle purchases were mixed. Interest rates on new-car loans increased, but manufacturers continued to offer attractive sales-incentive programs.

Imports of motor vehicles decreased slightly after a substantial increase, and exports increased substantially after decreasing.

Motor vehicle inventory investment increased less than in the third quarter. The inventory-sales ratio for new domestic autos, which is calculated from units data, increased to 2.3 at the end of the fourth quarter from 2.1 at the end of the third; the traditional industry target is 2.4.

Prices

The price index for gross domestic purchases, which measures the prices paid for goods and services purchased by U.S. residents, increased 2.3 percent in the fourth quarter after increasing 1.7 percent in the third (table 4). Prices of gross domestic purchases less food and energy increased 2.0 percent after increasing 1.2 percent (chart 2). The step-ups were accounted for by prices of PCE and of private nonresidential fixed investment.

PCE prices increased 2.5 percent after increasing 1.8 percent. Prices of PCE other than food and energy increased 2.1 percent after increasing 1.2 percent; prices of clothing and shoes turned up, and prices of brokerage services, of housing, and of household operation other than electricity and gas accelerated. Food prices increased about the same as in the third quarter; step-ups in meat and dairy prices were offset by downturns in prices of poultry and of fruits and vegetables. Prices of energy goods and services increased 10.6 percent after increasing 14.2 percent, reflecting decelerations in the prices of gasoline and oil and of natural gas. Prices of private nonresidential fixed investment increased 0.1 percent after decreasing 1.3 percent. Prices of equipment and software decreased 1.0 percent after decreasing 2.7 percent; software prices stepped up, and auto prices decreased much less than in the third quarter. Prices of structures increased 3.9 percent after increasing 3.4 percent.

CHART 2

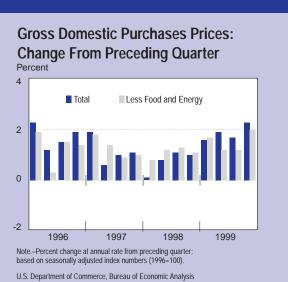


Table 4.—Price Indexes

[Percent change at annual rates; quarterly estimates based on seasonally adjusted index numbers (1996=100)]

	1000	1999		19	99	
	-2.3 -5.3 .7 .8 .9 1.7 -7.5 1.3 .1 .3 .1 .3 .4 .2.6 1.5 1.1 .8 .1.6 1.8	1999	I	II	III	IV
Gross domestic product	1.2	1.4	2.0	1.3	1.1	2.0
Less: Exports of goods and services Plus: Imports of goods and services		4 .3	5 -3.0	.7 5.2	1.3 6.2	2.4 4.2
Equals: Gross domestic purchases	.7	1.5	1.6	1.9	1.7	2.3
Less: Change in private inventories						
Equals: Final sales to domestic purchasers	.8	1.5	1.7	2.0	1.8	2.3
Personal consumption expenditures Food Energy goods and services ¹	1.7	1.6 2.0 3.7	1.4 2.5 –2.5	2.2 1.2 26.9	1.8 2.1 14.2	2.5 2.2 10.6
Other personal consumption expenditures	1.3	1.4	1.4	1.3	1.2	2.1
Private nonresidential fixed investment Structures Equipment and software	3.1	-1.3 2.7 -2.5	9 1.3 -1.6	-1.4 2.2 -2.5	-1.3 3.4 -2.7	.1 3.9 –1.0
Private residential investment	2.6	4.0	4.0	3.6	4.1	3.5
Government consumption expenditures and gross investment Federal	1.1 .8 1.6	2.7 3.0 2.7 3.6 2.5	3.8 8.6 7.6 10.4 1.4	2.9 .9 1.0 .7 4.0	3.3 1.8 1.8 1.8 4.2	3.0 2.2 2.0 2.6 3.4
Addendum: Gross domestic purchases less food and energy	1.0	1.4	1.7	1.2	1.2	2.0

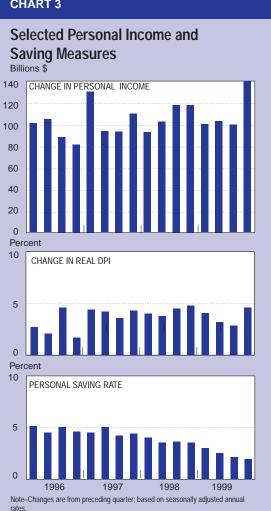
1. Consists of gasoline, fuel oil, and other energy goods and of electricity and gas.

NOTE.—Percent changes in major aggregates are in NIPA table 8.1. Index number levels are in tables 7.1, 7.2, and 7.4.

Prices of government consumption expenditures and gross investment increased 3.0 percent after increasing 3.3 percent. A slowdown in prices paid by State and local governments more than offset a step-up in prices paid by the Federal Government. Prices paid by State and local governments increased 3.4 percent after increasing 4.2 percent. Prices paid by the Federal Government increased 2.2 percent after increasing 1.8 percent.

The GDP price index, which measures the prices paid for goods and services produced in the United States, increased 2.0 percent after increasing 1.1 percent. The GDP price index, unlike the price index for gross domestic purchases, includes the prices of exports and excludes the prices of imports. Export prices increased 2.4 percent after increasing 1.3 percent; prices accelerated for automotive vehicles, engines, and parts, for civilian aircraft, engines, and parts, and for durable





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

Personal income

Current-dollar disposable personal income (DPI) increased 7.2 percent in the fourth guarter af-

Table 5.—Persona	I Income	and Its	Disposition
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[Billions of dollars; quarterly estimates seasonally adjusted at annual rates]

	Le	vel		Change	from pr	eceding	period	
	1999	1999	1998	1999		19	99	
	1999	IV	1998	1999	Ι	Ш	III	IV
Wage and salary disbursements Private industries Goods-producing industries Manufacturing Distributive industries Service industries Government	4,472.7 3,746.3 1,082.6 779.9 1,005.5 1,658.1 726.4	4,577.2 3,839.0 1,102.2 791.4 1,024.8 1,711.9 738.2	297.1 268.8 63.2 38.7 65.5 140.1 28.4	286.7 253.1 43.9 22.4 60.9 148.2 33.6	74.2 61.2 6.3 1.4 16.4 38.6 13.0	61.1 55.6 12.2 7.8 11.3 31.9 5.5	76.8 67.8 15.1 11.6 15.8 37.0 9.0	67.8 59.9 12.0 5.0 11.4 36.4 7.9
Other labor income	535.8	543.8	14.8	20.1	5.9	5.0	5.5	5.3
Proprietors' income with IVA and CCAdj Farm Nonfarm	658.0 31.3 626.7	682.7 37.5 645.2	27.5 -4.4 31.9	51.9 6.2 45.7	2.8 -8.6 11.5	15.4 1.6 13.7	-1.3 -13.1 11.8	28.7 16.5 12.2
Rental income of persons with CCAdj Personal dividend income Personal interest income	146.1 364.3 930.6	148.2 373.1 955.6	7.2 14.9 42.9	8.7 16.0 32.8	1.6 4.2 1.0	.2 5.1 13.1	-9.8 5.8 18.3	9.2 6.1 16.8
Transfer payments to persons	1,018.2	1,030.2	21.2	34.6	16.8	5.8	7.7	8.9
Less: Personal contributions for social insurance	334.5	340.2	17.8	18.6	6.9	3.4	4.4	3.5
Personal income	7,791.2	7,970.6	407.8	432.3	99.4	102.4	98.8	139.2
Less: Personal tax and nontax payments	1,152.0	1,183.2	104.3	79.4	11.8	14.6	21.0	22.8
Equals: Disposable personal income	6,639.2	6,787.4	303.4	353.0	87.6	87.8	77.8	116.4
Less: Personal outlays	6,480.9	6,656.6	344.9	424.3	120.0	114.9	106.3	125.1
Equals: Personal saving	158.3	130.8	-41.4	-71.4	-32.4	-27.1	-28.5	-8.7
Addenda: Special factors in personal income:								
In wages and salaries: Manufacturing bonus payments Due to Hurricane Floyd Federal Government and Postal Service pay adjustments		2.5 0 6.2			0 0 6.2	0 0 0	0 .3 0	2.5 3 0
In farm proprietors' income: Subsidies Due to Hurricane Floyd		17.0 0			3.1 0	4.9 0	-7.9 6	16.8 .6
In nonfarm proprietors' income: Due to Hurricane Floyd		0			0	0	4	.4
In rental income of persons with CCAdj: Subsidies Due to Hurricane Floyd		3.7 2			.4 0	1.4 0	-1.8 -4.7	3.7 4.5
In transfer payments to persons: Social security retroactive payments Cost-of-living adjustments in Federal		1.2			-1.2	0	0	1.2
transfer programs Earned Income Tax Credit and Child Tax		6.6			6.3	0	0	.3
Credit payments In personal contributions for social insurance: Tax rate, base, and law change Supplementary medical insurance premiums		3.4 3.0 .8			3.4 3.0 .8	0 0 0	0 0 0	0 0 0
In personal tax and nontax payments: Tax law changes Minnesota's tax rebate		-5.7 0			-5.7 0	0 0	0 -5.2	0 5.2

NOTE.-Most dollar levels are in NIPA table 2.1.

IVA Inventory valuation adjustment CCAdj Capital consumption adjustment

industrial supplies and materials. Import prices increased 4.2 percent after increasing 6.2 percent; prices slowed substantially for nonpetroleum industrial supplies and materials and for petroleum and products.

ter increasing 4.8 percent in the third. The personal saving rate (saving as a percentage of current-dollar DPI) decreased to 1.9 percent from 2.1 percent, as personal outlays increased more than DPI; the decrease in the saving rate was the smallest in several quarters (chart 3).

Personal income increased \$139.2 billion after increasing \$98.8 billion (table 5). The step-up was primarily accounted for by upturns in farm proprietors' income and in rental income of persons; wage and salary disbursements increased less than in the third quarter, and other components of personal income increased about the same amount in both quarters.

Farm proprietors' income increased \$16.5 billion after decreasing \$13.1 billion. The upturn primarily reflected the pattern of farm subsidy payments, which increased \$16.8 billion after decreasing \$7.9 billion.

Rental income of persons increased \$9.2 billion after decreasing \$9.8 billion. The upturn was largely accounted for by a rebound from \$4.7 billion of uninsured losses in the third quarter that had resulted from Hurricane Floyd.

Wage and salary disbursements increased \$67.8 billion after increasing \$76.8 billion. Disbursements slowed most in the goods-producing and the distributive industries. In private wages and salaries, the slowdown mainly reflected a down-turn in average weekly hours and a slowdown in average hourly earnings.

The Year 1999

In 1999, the U.S. economy experienced another year of above-average growth in production and income and below-average inflation. Real GDP

Updated Schedule for Publication of Revised Estimates

In October 1999, BEA released revised estimates of the national income and product accounts (NIPA'S) for 1959–99 that incorporated the latest comprehensive NIPA revision. Below is an approximate schedule for publication in the SURVEY OF CURRENT BUSINESS of additional NIPA estimates and of other estimates that will incorporate the results of this revision.

April 2000: Revised NIPA estimates, 1929–58

April 2000: Fixed assets and consumer durable goods (fixed reproducible tangible wealth), 1925–98

May 2000: Gross product by industry, 1987-98

June 2000: State personal income, 1969–99

July 2000: Local area personal income, 1969-98

Fall 2000: Gross state product, 1977-98

In addition, these estimates will be posted on BEA's Web site at <www.bea.doc.gov> as soon as they are available.

and real DPI both increased 4.0 percent, a little less than in 1998 but above their average growth rates for the current expansion; for the expansion, which began in the second quarter of 1991, the average annual growth rates are 3.6 percent for real GDP and 3.0 percent for real DPI.³ The price index for gross domestic purchases increased 1.5 percent in 1999, up from 0.7 percent in 1998 but less than the 1.8-percent average rate of increase for the expansion as a whole.

PCE increased 5.3 percent in 1999 and contributed 3.5 percentage points to the growth of real GDP; almost half of the PCE increase was in services. Nonresidential fixed investment increased 8.3 percent and contributed 1.0 percentage points to real GDP growth; equipment and software more than accounted for the increase. Government spending increased 3.7 percent and contributed 0.6 percentage point; most of the increase was accounted for by State and local government. The contributions of these components were partly offset by imports, which increased 11.8 percent and subtracted 1.5 percentage points from GDP growth.

The growth in real DPI reflected a larger increase in current-dollar DPI than in PCE prices. The increase in current-dollar DPI was largely accounted for by wage and salary disbursements, which increased \$286.7 billion (or 6.8 percent); proprietors' income, transfer payments to persons, and personal interest income also contributed. Personal tax and nontax payments increased \$79.4 billion. The personal saving rate decreased to 2.4 percent from 3.7 percent.

The increase in the price index for gross domestic purchases mainly reflected increases in prices of PCE and of government consumption expenditures and gross investment that were partly offset by a decrease in prices of nonresidential fixed investment. About half of the step-up in gross domestic purchases prices was attributable to an acceleration in food prices and an upturn in energy prices; the price index for gross domestic purchases excluding food and energy increased 1.4 percent after increasing 1.0 percent.

^{3.} The 1999 increases are calculated from *annual levels* for 1998 and 1999. From fourth-quarter 1998 to fourth-quarter 1999, real GDP increased 4.2 percent, and real DPI increased 3.8 percent.

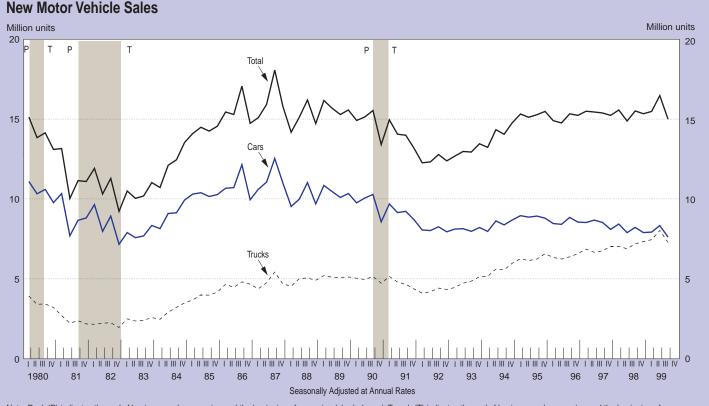
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Motor Vehicles, 1999

By Ralph W. Morris

SALES of new motor vehicles in the United States totaled 17.4 million units in 1999 (chart 1 and table 1).¹ This level of sales was the highest on record; the previous high was 16.3 million units in 1986. Sales increased 9.1 percent nearly 1.5 million units—in 1999 after increasing 3.0 percent in 1998. The sharp acceleraton was accounted for by sales of both cars and trucks. The strength in motor vehicle sales in 1999 reflected developments in a number of factorsthose related to general economic conditions and those that were industry specific. Real gross domestic product (GDP) increased 4.0 percent in 1999; this rate was above the 3.6-percent average annual growth rate for real GDP over the current expansion, which began in the second quarter of 1991. Many of the measures that are usually considered in analyses of consumer spending strengthened in 1999. The unemployment rate decreased for the seventh consecutive year, moving down from 4.5 percent in 1998 to 4.2 percent—the lowest rate in nearly 30 years.

CHART 1



Note—Peak (P) indicates the end of business cycle expansion and the beginning of recession (shaded area). Trough (T) indicates the end of business cycle recession and the beginning of expansion. Business cycle peaks and troughs designated by the National Bureau of Economic Research, Inc. Data: American Automobile Manufacturers Association, Inc. and *Ward's Automotive Reports*, seasonally adjusted by BEA.

^{1.} Sales of motor vehicles are sales of new cars and trucks. The data on unit sales, inventories, and production in this article are mainly from *Ward's Automotive Reports* and the American Automobile Manufacturers Association, Inc., and the data on prices are mainly from the Bureau of Economic Analysis (BEA). These data underlie the estimates of motor vehicle output in the national income and product accounts. The quarterly data for domestic and imported cars and light trucks are seasonally adjusted by BEA using seasonal factors from the Federal Reserve Board.

Real disposable personal income (DPI) increased 4.0 percent in 1999; this rate was above the 3.0percent average growth rate for real DPI over the current expansion. The Index of Consumer Sentiment (a measure of consumer attitudes and expectations prepared by the University of Michigan's Survey Research Center) increased to its highest level in 40 years. In addition, consumer spending may have been stimulated in recent years by the considerable additions in household wealth that have resulted from rising equity prices and from gains in real estate values.

Several factors specific to the motor vehicle industry also helped to boost sales. First, manufacturers offered sales-incentive programs to consumers throughout the year. These incentives included rebates, below-market-rate financing, and discount packages on options on selected models. Second, the consumer price index (CPI) for new cars decreased 1.2 percent in 1999 after decreasing 0.9 percent in 1998, and the CPI for new trucks increased only 0.9 percent after decreasing 0.4 percent.² These price changes reflected both the extensive sales-incentive programs and ongoing efforts by manufacturers to hold down production costs. Third, finance terms on new-vehicle loans remained favor-

able in 1999. Interest rates on new-car loans made by commercial banks averaged 8.4 percent, down from 8.8 percent in 1998, and rates on new-car loans made by motor vehicle finance companies averaged 6.7 percent, up from 6.3 percent (chart 2). (The rates at motor vehicle finance companies may partly reflect manufacturers' sales-incentive programs.) In addition, the average length to maturity of new-car loans made by the finance companies increased to 52.7 months from 52.1 months. (Longer term loans tend to increase sales to marginal buyers because monthly payments are reduced.)

The combined sales of cars and light trucks increased to 16.8 million units in 1999; sales were 12.5 million units in 1991, the year the current expansion began (chart 3).3 Sales increased 8.6 percent in 1999 after increasing 2.5 percent in 1998; sales of both cars and light trucks contributed to the 1999 increase. The combined sales of domestic cars and light domestic trucks increased 6.5 percent after increasing 2.2 percent.⁴ The combined sales of imported cars and light imported trucks increased 22.6 percent after increasing 4.5 percent; their share of total car and

^{4.} Sales of domestic vehicles consist of the sales in the United States of vehicles manufactured in North America-that is, in Canada, the United States, and Mexico. Sales of imported vehicles consist of vehicles manufactured outside North America and sold in the United States.

									Sea	asonally a	djusted at	annual rate	es
	1992	1993	1994	1995	1996	1997	1998	1999	1998		199	99	
									IV	Ι	П	Ш	IV
						Tho	usands of	units					
New motor vehicle sales	13,118	14,199	15,413	15,118	15,456	15,498	15,963	17,414	16,549	16,877	17,365	17,816	17,570
New-car sales Domestic Import	8,214 6,277 1,938	8,518 6,734 1,784	8,990 7,255 1,735	8,636 7,129 1,507	8,527 7,254 1,273	8,273 6,906 1,366	8,142 6,764 1,378	8,697 6,982 1,715	8,293 6,885 1,408	8,401 6,889 1,512	8,773 7,078 1,695	8,813 7,102 1,711	8,793 6,835 1,957
New-truck sales Light Domestic Import Other	4,903 4,629 4,233 396 275	5,681 5,346 4,981 365 336	6,422 6,034 5,638 396 388	6,481 6,053 5,663 391 428	6,929 6,519 6,088 431 411	7,226 6,797 6,226 571 429	7,821 7,297 6,651 646 524	8,717 8,072 7,310 763 645	8,256 7,663 6,941 721 593	8,476 7,847 7,100 747 629	8,592 7,970 7,246 724 622	9,003 8,348 7,608 740 655	8,777 8,099 7,254 846 678
Domestic-car production	5,666	5,979	6,614	6,350	6,080	5,927	5,547	5,641	5,813	5,599	5,451	5,854	5,658
Domestic-car inventories ¹ Domestic-car inventory-sales ratio ²									1,288 2.25	1,303 2.27	1,214 2.06	1,251 2.11	1,291 2.27
	Dollars												
Average expenditure per new car ³ Domestic Import	16,336 15,644 18,593	16,871 15,976 20,261	17,903 16,930 21,989	17,959 16,864 23,202	18,777 17,468 26,205	19,551 17,838 28,193	20,849 18,579 31,986	21,022 18,725 30,350	21,257 18,885 32,849	20,720 18,609 30,339	20,898 18,648 30,291	21,049 18,855 30,154	21,420 18,787 30,617

Table 1.—Selected Motor Vehicle Indicators

1. End of guarter, not at annual rate

End of quarter, not at annual rate.
 Ratio of end-of-quarter inventories to average monthly sales for the quarter.
 BEA estimate, using average base price and adjustments for options, transportation charges, taxes, discounts, and rebates for each model, weighted by that model's share of sales; not at annual rate.

Source: American Automobile Manufacturers Association, Inc., and Ward's Automotive Reports; data are seasonally adjusted by BEA

^{2.} The Bureau of Labor Statistics (BLS) calculates the CPI. Effective with the release of the January 1999 data, the CPI for new cars and for new trucks is no longer adjusted for changes in vehicles that are made in response to air pollution mandates. For an explanation of this change in treatment and the implications for the CPI, see "The Treatment of Mandated Pollution Control Measures in the CPI" on the BLS Internet site at <www.bls.gov/cpiheoo.htm> or contact the BLS.

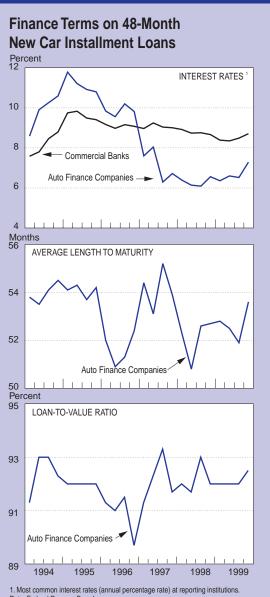
^{3.} Light trucks have a gross vehicle weight of up to 10,000 pounds; these trucks include light conventional pickups, compact pickups, sport-utility vehicles, and passenger vans.

light-truck sales increased to 14.8 percent from 13.1 percent.

New Cars

Sales of new cars increased 6.8 percent to 8.7 million units in 1999 after decreasing 1.6 percent in 1998. Sales of domestic cars and of imported cars both contributed to the turnaround. Sales of domestic cars increased 3.1 percent to 7.0 million units; sales decreased in each of the preceding 2 years. Sales of imported cars increased 24.7 percent after increasing 0.8 percent; sales of cars imported from Germany and from the Republic

CHART 2



Data: Federal Reserve Board.

of Korea increased strongly. In 1999, sales of cars imported from Japan increased; the increase interrupted a decade-long trend of decreases.

Sales of small cars remained at 2.0 million units, and their share of total car sales decreased to 23.2 percent from 24.7 percent (chart 4). Sales of middle-sized cars increased to 4.6 million, and their market share increased to 52.7 percent from 51.1 percent. Sales of large cars remained at 0.7 million, and their market share decreased to 7.6 percent from 8.2 percent. Sales of luxury cars

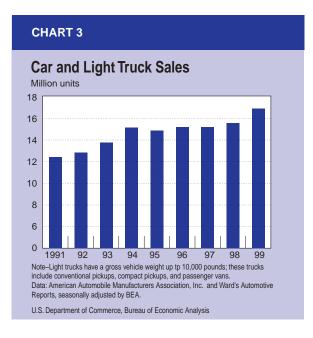
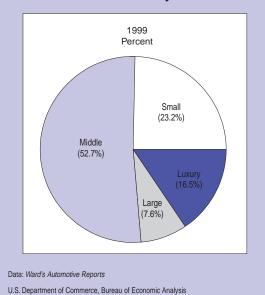


CHART 4

Share of New Car Sales by Size Class



increased to 1.4 million, and their market share increased to 16.5 percent from 16.0 percent.

The average expenditure per new car increased 0.8 percent to \$21,022 in 1999.⁵ The increase partly reflected the shift in the market toward imported cars, which have a higher average expenditure than domestic cars. Even so, the average expenditure per new car for imported cars decreased 5.1 percent to \$30,350 in 1999; the decrease was partly attributable to a shift in the composition of imported-car sales from luxury cars to small cars and middle-sized cars. For domestic cars, the average expenditure per new car increased 0.8 percent to \$18,725; the modest increase partly reflected increased sales of models equipped with extra features such as keyless remote entry, compact disk players, and side air bags.

Domestic-car production—that is, cars made in the United States—increased to 5.6 million units in 1999 after 4 consecutive years of decline.

Domestic-car inventories were 1.3 million units at the end of 1999, the same as at the end of 1998. The inventory-sales ratio was 2.3 at the end of 1999; the traditional industry target is 2.4.

Data Availability

BEA prepares seasonally adjusted estimates of auto and truck unit sales, of auto unit production and inventory change, and of average expenditure per new car. These estimates are available online by subscribing to stat-usa/Internet, a service of the U.S. Department of Commerce; for more information, visit stat-usa's Web site at <www.stat-usa.gov> or call 1-800-stat-usa or 202-482-1986.

These estimates are also available monthly in printout or on diskette by monthly subscription from BEA, as follows:

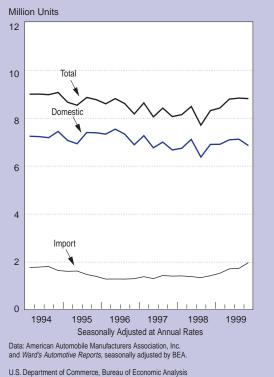
• "Auto Output Printout Subscription"—product number NLS-0167, price \$108.00; or

• As part of the "NIPA Monthly Update Diskette Subscription"—product number NDS-0171, price \$204.00.

To order, call the BEA Order Desk at 1–800–704–0415 (from outside the United States, call 202–606–9666).

CHART 5

Retail Sales of New Cars



By quarter, new-car sales increased in the first, second, and third quarters of 1999 and decreased in the fourth (chart 5).

New Trucks

Sales of new trucks increased 11.4 percent to a record 8.7 million units in 1999 after increasing 8.2 percent in 1998. Sales of light domestic trucks, light imported trucks, and "other" trucks all increased.⁶

Sales of light trucks—that is, light domestic trucks and light imported trucks—increased 10.6 percent after increasing 7.4 percent. The 1999 increase was mostly accounted for by sport-utility vehicles, but sales of pickups and vans also contributed. In recent years, the composition of truck sales has shifted toward "upscale" models, which offer more power, luxury, and options than basic models.

Sales of light domestic trucks increased 9.9 percent to 7.3 million units after increasing 6.8 percent to 6.7 million units.

Sales of imported light trucks increased 18.1 percent to 0.8 million units, and their share of

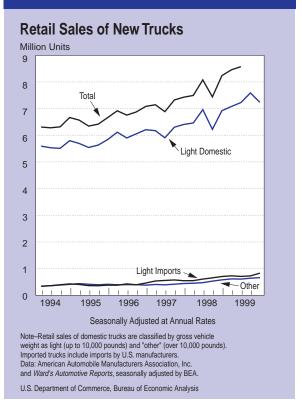
^{5.} BEA derives the average expenditure per new car by using data mainly from the Automotive Invoice Service and BLS; the measure consists of the average base price and adjustments for options, transportation charges, taxes, discounts, and rebates for each model, weighted by that model's share of sales. Movements in the average expenditure differ from movements in the new-car component of the CPI for at least two reasons: First, the average expenditure, unlike the CPI, reflects changes in the mix of models and options sold and includes cars sold to businesses and to governments, as well as cars sold to consumers; and second, because the CPI, unlike the average expenditure, is adjusted to remove the influence of quality change on prices.

^{6. &}quot;Other" trucks have a gross vehicle weight of over 10,000 pounds; these trucks range from medium-duty general delivery trucks to heavy-duty diesel tractor trailers. Nearly all of these trucks are purchased by businesses.

total light-truck sales increased to 9.5 percent. The increase in sales of imported light trucks was largely accounted for by sport-utility vehicles, mainly those vehicles imported from Japan and Korea. In recent years, sales of these vehicles may have been boosted by the introduction of several new models into the small-vehicle segment of the U.S. market. In addition, sales of "upscale" imported sport-utility vehicles increased considerably. In contrast, sales of imported pickup trucks have virtually ceased, as foreign manufacturers have shifted production from overseas plants to plants in North America.

Sales of "other" trucks increased 20.0 percent to 0.6 million units after increasing 22.1 percent. The domestic share of "other" truck sales was 95.1 percent. Annual sales of "other" trucks have more than doubled since the current economic expansion began in 1991. Demand for heavy trucks has been high in recent years, partly because of the growth in spending on durable goods; these trucks are used extensively to transport goods—such as computers, machine tools, motor vehicles, and appliances—and parts for these goods. In addition, the increase in the use of "just-in-time" assembly practices has required manufacturers to ship parts more frequently.

CHART 6



By quarter, new-truck sales increased in the first, second, and third quarters of 1999 and decreased in the fourth (chart 6).

February 2000

Comparison of BEA Estimates of Personal Income and IRS Estimates of Adjusted Gross Income

- New Estimates for 1997
- Revised Estimates for 1959–96

By Thae S. Park

T^{HIS} ARTICLE presents a comparison of the Bureau of Economic Analysis (BEA) measure of personal income and the Internal Revenue Service (IRS) measure of adjusted gross income (AGI) of individuals by type of income. The article explains the major definitional and statistical differences between the BEA and the IRS measures, describes the various uses of the two measures, and presents a partial reconciliation of the two measures that is prepared by converting BEA's measure of personal income by type of income to the same definitional basis as the IRS measure. It also discusses the sources of the "AGI gap"—the unexplained difference remaining between the BEA estimate of AGI and the IRS AGI, the trends in the AGI gap for 1959–97, and the sources of the revision to the AGI gap for 1959–96.¹

BEA's measure of personal income and the IRS measure of AGI are two widely used measures of household income. In general, personal income, which is prepared as an integral part of the national income and product accounts (NIPA's), is the more comprehensive measure. Personal income is a measure of the current incomes earned by households and by nonprofit institutions serving individuals, and thus, it is often used in assessing trends in consumer spending, saving, and investment. It includes income that is generally taxed, such as wages and salaries, income from rent, self-employment earnings, dividends, and interest; income that is partly taxed, such as social security benefit payments; and several types of income that are not taxed, such as tax-exempt interest and nontaxable transfer payments, including medicare, medicaid, and welfare benefit payments. Personal income includes income whether or not it is properly reported to IRS. In order to provide a comprehensive measure of personal saving, personal income also includes other types of income, such as employer contributions to private and government employee retirement plans, the investment income of these plans, and imputed income related to home ownership. Personal income excludes net gains from sale of assets, pension benefit payments, and personal contributions for social insurance.

AGI, on the other hand, is an income concept defined by tax law, so AGI consists only of taxable sources of income net of specific adjustments as reported on IRS Form 1040. Therefore, it excludes many of the types of income that are included in the BEA measure.

Although the two series are based on different concepts and serve different purposes, they are often used in conjunction with one another. In particular, personal income, which is available much sooner than AGI, is frequently used as an extrapolator for AGI (this article provides information that enables users to adjust the BEA measure to bring it closer in definition to AGI). In addition, the AGI gap is used as a rough indicator of the noncompliance by individuals with the Federal tax code.

The new and revised estimates presented in this article reflect the incorporation of the results of the comprehensive revision of the NIPA's that was released in October 1999, of updated estimates of AGI from the *Statistics of Income Bulletin*, and of improved estimates of the items used to partially

^{1.} Annual and quarterly estimates of BEA personal income are published monthly in table 2.1 of the national income and product accounts (NIPA'S) in the section "BEA Current and Historical Data" of the SURVEY OF CUR-RENT BUSINESS (monthly estimates are shown in table B.1). Estimates of IRS AGI are published annually in *Statistics of Income—Individual Income Tax Returns*. The estimates of the relationship between total personal income and total AGI are presented annually in NIPA table 8.28, most recently for 1995–97 in this issue. All the estimates are available on the BEA Web site at <www.bea.doc.gov> and on the sTAT-USA Web site at <www.stat-usa.gov>. The reconciliation by type of income for 1959–97 is available on request; for information, write to the Government Division (BE–57), Bureau of Economic Analysis, U.S. Department of Commerce, Washington, Dc 20230. Estimates for 1947–58 will be available in April of this year.

reconcile the two measures.² As explained in the section "Sources of the Revision to the AGI Gap," most of the revisions to personal income reflected the incorporation of definitional changes that did not affect the AGI gap.³

BEA Estimates of AGI

The preparation of BEA estimates of AGI, "BEAderived AGI," begins with the NIPA estimates of personal income. Personal income consists of the current income received by persons from all sources—that is, from participation in current production and from both government and business transfer payments.⁴ It is calculated as the sum of wage and salary disbursements, other labor income, proprietors' income with inventory valuation and capital consumption adjustments, rental income of persons with capital consumption adjustment, personal dividend income, personal interest income, and transfer payments to persons, less personal contributions for social insurance.

The IRS measure of AGI is defined as the sum of all the items of "total income" less a set of specific adjustments to total income that are authorized by legislation. Total income includes all income that is received in the form of money, property, and services and that is not expressly exempt from taxation; it excludes, for example, interest on tax-exempt State and local government bonds, voluntary contributions to thrift savings plans, and nontaxable social security benefit payments. The specific adjustments to total income include subtractions for contributions to individual retirement accounts and Keogh plans, for alimony paid, for moving expenses, and for several items related to self-employment income.

Tables 1 and 2 show the reconciliation between personal income and AGI, by type of income, for 1996–97. Personal income and AGI each include items that the other omits by definition. The reconciliation items that convert personal income to AGI are shown in two groups: First, those items that are included in personal income but not in AGI, and second, items included in AGI but not in personal income. A third group of reconciliation items, "intercomponent reallocations," reallocates certain income components to make the BEA and IRS estimates of AGI comparable by type of income. The specific items included in each of these groups are discussed in the appendix to this article.

The AGI Gap

The estimates of the BEA-derived AGI differ significantly from the IRS estimates of AGI. The "AGI gap" is the difference between the total BEAderived AGI (line 22) and total IRS AGI (line 23), and the AGI gap for each type of income (line 29) is the difference between the BEA-derived AGI for that type of income (line 22) and the reallocated IRS AGI for that type of income (line 28). The percent distribution of the AGI gap by type of income is shown in line 30, and the relative AGI gap for each type of income, which is the AGI gap for that type of income (line 29) as a percentage of the BEA-derived AGI for that type of income (line 22), is shown in line 31.

The AGI gap results from several sources. First, there are errors in the source data used to estimate the personal income components.⁵ Second, there are errors in the IRS measure of total AGI and its components because the estimates are based on a probability sample. Third, there are errors in reconciliation items because (1) reliable data are unavailable to estimate some known items, such as income earned by individuals who are not required to file income tax returns, (2) some of the source data used to estimate known items contain errors, and (3) some of the differences between the definition of personal income and AGI are unknown. Fourth, the estimates of BEA-derived AGI include both explicit and implicit adjustments for tax-return misreporting-that is, noncompliance. Explicit adjustments are made for the effects of tax-return misreporting on the source data used to prepare the estimates of wage and salary disbursements, nonfarm proprietors' income, royalty income, and personal interest income (line 32).⁶ Implicit

^{2.} For additional details of the 1999 comprehensive revision, see Eugene P. Seskin, "Improved Estimates of the National Income and Product Accounts for 1959–98: Results of the Comprehensive Revision," SURVEY 79 (December 1999): 15–43. For AGI data, see Internal Revenue Service, *Statistics of Income Bulletin* (Washington, Dc: U.S. Government Printing Office, Spring 1999).

^{3.} For additional details about the effects of the definitional changes on personal income and its disposition, see table 15 in Seskin, "Improved Estimates," 17.

^{4. &}quot;Persons" in the NIPA's consists of individuals, nonprofit institutions that primarily serve individuals, private and government employee retirement plans, and private trust funds.

^{5.} AGI data are used only for the estimates of nonfarm proprietors' income and royalty payments in rental income of persons. For these components of personal income, the AGI gap does not result from errors in the source data, because the same errors are in the personal income components. The principal source data used to prepare other components of personal income are not based on AGI data. For additional detail, see "Updated Summary NIPA Methodologies," SURVEY 78 (September 1998): 14–35 and the text on the CD-ROM *State Personal Income*, 1929–97; this information is also available on BEA's Web site. For changes in methodologies introduced in the 1999 comprehensive revision, see Seskin, "Improved Estimates," 37–39.

^{6.} The major source data for these adjustments are the 1988 Taxpayer Compliance Measurement Program and Census Bureau "exact-match" files for 1990. For additional information about the calculation of these adjustments, see Robert P. Parker, "Improved Adjustments for Misreporting of Tax

adjustments are also embedded in the source data used for some components of personal income because the source data are from the payers of the income. The IRS estimates of AGI are based on unaudited tax returns that are not adjusted for misreporting. (However, the sample returns are edited for consistent statistical definitions and for incorrect or missing entries in order to make them consistent with other entries on the returns and with accompanying schedules.)

BEA believes that the explicit and implicit adjustments for misreporting account for a major part of the AGI gap. In 1997, the explicit adjustments accounted for \$311.5 billion of the \$630.3 billion gap. Thus, the AGI gap can be considered a rough indicator of noncompliance with the Federal tax code, and the relative AGI gap—the AGI gap as a percentage of the BEA-derived AGI—can be considered a rough indicator of the noncompliance rate in the reporting of income included in AGI.⁷

The AGI Gap by Type of Income for 1959–97

Table 3 shows the estimates of the AGI gap for total income and for each type of income for 1959–97, and table 4 shows the relative AGI gap

Table 1.-Comparison of Personal Income with AGI, by Type of Income, 1996

[Billions of dollars]

	[Billions of dollars]												
Line		Personal	Wage and salary dis-		tors' in- vith IVA CCAdj	Rental income of per- sons	Personal dividend	Personal interest	Taxable pen- sions	Taxable unem- ploy- ment	Taxable social security	Other personal in-	Income not in- cluded in
		lincome	burse- ments	Farm	Non- farm	with CCAdj	income	income	and an- nuities	com- pensa- tion	bene- fits 1	come ²	personal income
1	Personal income	6,547.4	3,626.5	34.3	510.5	129.7	297.4	810.6	³ 2.9	22.6	60.4	1,052.5	0
2	$\textit{Less:}$ Portion of personal income not included in adjusted gross income \dots	2,373.8	86.8	9.0	-1.6	93.0	186.1	627.5	0	0	0	1,330.3	42.6
3 4 5 6 7	Nontaxable transfer payments Other labor income except fees Imputed income in personal income ⁴ Investment income of life insurance carriers and pension plans ⁵ Investment income received by nonprofit institutions or retained by	842.3 487.5 264.3 366.7	0 0 10.2 0	0 0 .4 0	0 0 6.2 0	0 0 70.5 1.2	0 0 45.5	0 0 177.0 320.0	0 0 0	0 0 0 0	0 0 0 0	842.3 487.5 0 0	0 0 0
8	fiduciaries	59.9	0	0	.3	5.5	20.8	32.8	0	0	0	.6	0
9	regulations, net	79.9	0	8.5	-8.1	15.9	16.4	47.1	0	0	0	0	0
5	income	273.2	76.6	0	0	0	103.5	50.5	0	0	0	0	⁶ 42.6
10	Plus: Portion of adjusted gross income not included in personal income	978.0	16.0	0	2.8	2.8	0	0	311.7	0	0	279.8	365.0
11 12 13 14 15	Personal contributions for social insurance	280.4 249.5 311.6 89.3 47.1	0 0 0 16.0	0 0 0 0	0 0 0 2.8	0 0 0 2.8	0 0 0 0	0 0 0 0	0 0 311.6 0 0	0 0 0 0	0 0 0 0	280.4 0 0 6	0 249.5 0 89.3 26.1
16	Plus: Intercomponent reallocation	0	9.1	0	6	0	38.4	-38.4	-6.6	0	0	-2.0	0
17 18 19 20 21	Fees in other labor income	0 0 0 0	2.5 0 0 0 6.6	0 0 0 0	0 6 0 0	0 0 0 0	0 0 38.4 0	0 0 -38.4 0	0 0 0 -6.6	0 0 0 0	0 0 0 0	-2.5 .6 0 0	0 0 0 0
22	Equals: BEA-derived adjusted gross income	5,151.6	3,564.8	25.3	514.3	39.5	149.7	144.8	308.0	22.6	60.4	0	322.3
23	Adjusted gross income of IRS (as reported)	4,536.0	3,376.9	-7.1	176.9	20.6	104.3	165.7	238.8	19.3	53.2	65.2	322.3
24	Plus: Intercomponent reallocation	0	0	.3	59.3	5.6	0	0	0	0	0	-65.2	0
25 26 27	Estate or trust income Partnership income Other reallocations	0 0 0	0 0 0	0 .3 0	2.1 57.2 0	5.6 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	-7.7 -57.5 0	0 0 0
28	Adjusted gross income of IRS (reallocated)	4,536.0	3,376.9	-6.8	236.2	26.1	104.3	165.7	238.8	19.3	53.2	0	322.3
29	Adjusted gross income gap	615.6	188.0	32.1	278.1	13.4	45.4	-20.9	69.2	3.2	7.2	0	0
30 31	Percent distribution of AGI gap Relative AGI gap ⁹	100.0 12.0	30.5 5.3	5.2 126.8	45.2 54.1	2.2 33.8	7.4 30.3	-3.4 -14.4	11.2 22.5	.5 14.3	1.2 12.0		
32	Addendum: Misreporting adjustments included in personal income	299.1	83.5		224.4	1.2		-10.0					

See the footnotes at the end of table 2.

Return Information Used To Estimate the National Income and Product Accounts, 1977," SURVEY 64 (June 1984): 17–25; "The Comprehensive Revision of the U.S. National Income and Product Accounts: A Review of Revisions and Major Statistical Changes," SURVEY 71 (December 1991): 39–40; and "Improved Estimates of the National Income and Product Accounts for 1959–95: Results of the Comprehensive Revision," SURVEY 76 (January/February 1996): 24–25.

^{7.} The income items that are excluded from personal income—such as net gains from the sale of assets, income from small business corporations, and alimony—are not adjusted for misreporting; thus, misreporting of these items may also contribute to the AGI gap.

for total income and for each type of income for 1959-97. Over this period, the relative AGI gap for total income averaged about 11 percent: It declined from 10 percent in 1959 to a low of about 9 percent in the late 1960's, increased to a high of 13¹/₂ percent in 1984, and then moved irregularly downward to about 11 percent in 1997.

The relative AGI gap for wage and salary disbursements is the smallest among the types of income, primarily because income tax withholding at the source is required for wage and salary disbursements. The relative AGI gap for wage and salary disbursements averaged about 3 percent over the period; it declined from 3 percent

in 1959 to a low of 1 percent in 1982 and then increased to about 5 percent in 1997.

The trends in the relative AGI gaps for nonwage incomes partly offset each other (see the addenda in table 4). For nonwage incomes subject to the requirements for filing information returns, the trend in the combined relative AGI gap is generally downward.⁸ The combined relative AGI gap

^{8.} Personal dividend income and personal interest income are the primary examples of nonwage incomes subject to the requirements for filing information returns. A combined AGI gap for personal dividend and personal interest income is also shown in tables 3 and 4 because of the difficulty in recent years of accurately estimating separate gaps for these incomes. The estimation difficulty is largely related to the types of income received by individuals from mutual funds and from private noninsured pension plans. The taxable portion of interest received by individuals from mutual funds is

Table 2.—Comparison of	of Personal Income	with AGI, by	Type of	Income, 1997
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[Billions of dollars]

		•		•									
Line		Personal	Wage and salary	Proprie come v and (vith IVA	Rental income of	Personal	Personal	Taxable pen- sions	Taxable unem- ploy- ment	Taxable social security	Other personal	Income not in- cluded
		income	income dis- burse- ments		Non- farm	persons with CCAdj	income	income	and an- nuities	com- pensa- tion	bene- fits ¹	in- come ²	in personal income
1	Personal income	6,951.1	3,888.9	29.5	549.1	130.2	333.4	854.9	³ 2.9	20.4	68.2	1,073.6	0
2 3 4 5 6	Less: Portion of personal income not included in adjusted gross income Nontaxable transfer payments Other labor income except fees Imputed income in personal income ⁴ Investment income of life insurance carriers and pension plans ⁵	2,498.4 870.1 498.2 293.0 394.9	92.4 0 10.6 0	5.3 0 .4 0	5.4 0 6.7 0	94.6 0 72.0 1.2	207.6 0 0 51.7	678.6 0 203.3 342.0	0 0 0 0	0 0 0 0	0 0 0 0	1,368.8 870.1 498.2 0 0	45.6 0 0 0
7	Investment income received by nonprofit institutions or retained by fiduciaries	60.0	0	0	.3	5.4	21.9	31.8	0	0	0	.6	0
8	Differences in accounting treatment between NIPA's and tax regulations, net	87.4	0	4.9	-1.7	16.0	17.2	50.9	0	0	0	0	0
9	Other personal income exempt or excluded from adjusted gross income	294.8	81.9	0	0	0	116.8	50.5	0	0	0	0	⁶ 45.6
10	Plus: Portion of adjusted gross income not included in personal income	1,151.2	17.3	0	3.0	2.9	0	0	341.1	0	0	297.3	489.7
11 12 13 14 15	Personal contributions for social insurance	298.1 338.2 341.0 100.7 73.2	0 0 0 17.3	0 0 0 0	0 0 0 3.0	0 0 0 2.9	0 0 0 0	0 0 0 0	0 0 341.0 0 0	0 0 0 0	0 0 0 0	298.1 0 0 7	0 338.2 0 100.7 50.8
16	Plus: Intercomponent reallocation	0	9.8	0	6	0	42.2	-42.2	-7.1	0	0	-2.1	0
17 18 19 20 21	Fees in other labor income	0 0 0 0	2.7 0 0 7.1	0 0 0 0	0 6 0 0	0 0 0 0	0 0 42.2 0	0 0 -42.2 0	0 0 0 -7.1	0 0 0 0	0 0 0 0	-2.7 .6 0 0	0 0 0 0 0
22	Equals: BEA-derived adjusted gross income	5,604.0	3,823.5	24.1	546.2	38.4	168.0	134.1	336.9	20.4	68.2	0	444.1
23	Adjusted gross income of IRS (as reported)	4,973.6	3,636.5	-6.3	181.8	22.7	118.3	163.2	264.3	17.2	62.5	69.3	444.1
24	Plus: Intercomponent reallocation	0	0	.5	63.3	5.5	0	0	0	0	0	-69.3	0
25 26 27	Estate or trust income Partnership income Other reallocations	0 0 0	0 0 0	0 .5 0	2.1 61.2 0	5.5 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	-7.6 -61.7 0	0 0 0
28	Adjusted gross income of IRS (reallocated)	4,973.6	3,636.5	-5.8	245.1	28.2	118.3	163.2	264.3	17.2	62.5	0	444.1
29	Adjusted gross income gap	630.3	186.9	29.9	301.2	10.2	49.7	-29.1	72.6	3.3	5.7	0	0
30 31	Percent distribution of AGI gap Relative AGI gap ⁹	100.0 11.2	29.7 4.9	4.7 123.9	47.8 55.1	1.6 26.6	7.9 29.6	-4.6 -21.7	11.5 21.5	.5 15.9	.9 8.3		
32	Addendum: Misreporting adjustments included in personal income	311.5	89.9		231.8	1.1		-11.3					
4 T/	avable social security benefits also include the social security equivalent benefit portion of tior 1 r	منادمه اسممدانه		Clatuton	المحمد معالمه والم		in adjunterna	te ("abovo t	اممام ممتأ مط	untingal') fr			n to orrivo

1. Taxable social security benefits also include the social security equivalent benefit portion of tier 1 railroad retire-

ment benefits. 2. Consists primarily of other labor income and the nontaxable transfer payments to persons, less personal con-

2. Consists of princing of other labor income and the nontactable range payments to persons less personal corre-tributions for social insurance. 3. Consists of tier 2 railroad retirement benefits that are taxed in the same manner as benefits paid under private

 Consists of the imputations included in personal income shown in NIPA table 8.21 (line 53), except for em Consists of the imputations included in personal income shown in AIPA table 8.21 (line 53), except for employer contributions for health and life insurance premiums (line 146). In this table, these premiums are included

Consists of imputed interest received by persons from life insurance carriers shown in NIPA table 8.20 (line 53) and investment income of private and government employee pension plans.

6. Statutory adjustments or specific adjustments ("above-the-line deductions") from gross income taken to arrive at AGI. AGI. 7. Consists of the taxable portion of private and government employee retirement plan benefit payments. 8. Consists of partnership income retained by fiduciaries. 9. Adjusted gross income gap (line 29) as a percentage of the BEA-derived AGI (line 22). AGI Adjusted gross income BEA Bureau of Economic Analysis CCA 45 Continue activustment

CCAdj Capital consumption adjustment IVA Inventory valuation adjustment IRS Internal Revenue Service

NIPA National income and product accounts

for nonwage incomes subject to the filing requirements declined from about 39 percent in 1959 to 14 percent in 1997.⁹

The combined relative AGI gap for incomes not subject to the filing requirements (the second addenda item in table 4) averaged about 50 percent over the period; it increased from about 32 percent in 1959 to the highest level of about 80 percent in 1984, decreased to about 48 percent in 1990, and then increased to about 56 percent in 1997.

Sources of the Revision to the AGI Gap

Table 5 shows the revisions to personal income, reconciliation items, BEA-derived AGI, and the AGI gap for 1959–96. The revisions to the AGI gap reflected the definitional and statistical changes made in the 1999 comprehensive NIPA revision.

In general, revisions to the AGI gap result from three sources: Revisions to personal income that carry through to the AGI gap, revisions to reconciliation items that are unrelated to the revisions to personal income or to AGI, and revisions to AGI that carry through to the AGI gap.

For 1996, the AGI gap was revised down \$54.0 billion (line 29), reflecting upward revisions of \$122.2 billion to personal income (line 1) and net revisions of \$176.2 billion to reconciliation items (lines 2 and 10). The revisions to personal income that resulted from definitional changes did not affect the AGI gap, because these changes also resulted in offsetting revisions to reconcili-

Table 3.—The BEA and IRS Measures of AGI and the AG	GI Gap by Type of Income, 1959–97
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[Billions of dollars]

				Wasa and	Proprietor	s' income			vidend and p		Tayahla	Tayahla	Tayahla
Year	BEA- derived AGI	IRS AGI	AGI gap	Wage and salary dis- burse- ments	Farm	Nonfarm	Rental income of persons	Total	Personal dividend income	Personal interest income	Taxable pensions and annuities	Taxable unemploy- ment com- pensation	Taxable social security benefits
1959 1960 1961 1962 1963 1964 1965 1966 1968	339.1 351.4 365.8 387.8 409.2 442.2 479.8 521.7 555.4 609.3	305.1 315.5 329.9 348.7 368.8 396.7 429.2 468.5 504.8 554.4	34.0 36.0 39.1 40.4 45.6 50.6 53.3 50.6 54.9	7.5 9.1 8.3 10.2 11.7 13.5 11.0	7.1 6.4 5.6 6.2 7.0 6.3 7.1 7.3 5.7 5.5	9.7 10.1 11.5 11.8 12.6 14.1 14.2 15.9 16.6 17.0	-0.1 0 .4 .7 .8 1.2 1.0 .9 .7	7.9 8.7 8.9 9.4 9.4 11.4 13.3 12.0 12.4 13.7	0.8 1.2 1.2 1.3 2.0 2.3 .5 .5 .9	7.1 7.6 7.7 8.2 8.1 9.5 11.0 11.5 11.9 12.9	1.7 1.9 2.1 2.2 2.4 2.8 3.2 3.5 4.0 4.3	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
1969 1970 1971 1973 1973 1974 1975 1976 1977 1978	663.3 699.3 744.8 825.5 926.1 1,005.4 1,048.0 1,169.1 1,297.6 1,469.6	603.5 631.7 673.6 746.0 827.1 905.5 947.8 1,053.9 1,158.5 1,302.4	59.7 67.6 71.2 79.5 99.0 99.8 100.2 115.2 139.1 167.1	12.4 13.1 13.3 10.8 16.4 8.8 13.6 13.2 19.3 24.7	7.7 9.3 8.3 10.9 16.7 17.8 12.6 11.7 9.9 13.0	18.7 20.5 23.7 28.8 32.2 38.1 42.2 53.6 61.3 73.5	.7 .9 .8 1.6 1.5 .4 .1 4 1.8 2.2	15.2 17.7 18.3 19.2 23.5 25.2 21.1 25.3 34.5 38.9	.7 1.0 1.4 2.0 3.4 2.7 1.0 3.8 6.2 7.3	14.5 16.7 16.9 17.2 20.1 22.5 20.0 21.5 28.3 31.6	5.0 6.1 7.1 8.2 8.6 9.5 10.7 11.8 12.3 14.9	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
1979 1980 1981 1982 1983 1984 1985 1986 1988	1,658.5 1,831.6 2,016.3 2,094.7 2,225.7 2,473.3 2,629.9 2,848.3 3,125.4 3,415.8	1,465.4 1,613.7 1,772.6 1,852.1 1,942.6 2,139.9 2,306.0 2,481.7 2,773.8 3,083.0	193.1 217.9 243.7 242.6 283.1 333.4 323.9 366.6 351.6 332.8	55.1	15.3 19.6 21.3 17.5 29.5 28.8 25.0 29.5 32.6 36.6	84.6 89.2 90.5 95.5 109.9 141.4 147.2 147.2 121.6 122.9	3.9 7.1 12.5 15.5 15.6 19.9 22.4 19.5 15.1 8.3	50.6 56.5 68.7 62.1 62.7 62.7 34.8 45.3 45.3 45.7 37.9	9.2 12.5 22.4 18.4 23.4 28.9 22.1 19.7 27.5 23.1	41.4 44.1 46.3 43.7 39.3 33.7 12.7 25.6 18.1 14.8	18.5 23.4 28.8 33.5 39.3 47.2 48.2 65.7 55.0 42.4	.4 .8 .9 2.0 1.3 1.4 1.2 2.6 1.9	0 0 0 4.6 3.2 3.1 2.8 2.8
1989 1990 1991 1992 1993 1994 1995 1996 1997	3,658.6 3,813.2 3,864.4 4,108.3 4,260.0 4,485.7 4,766.4 5,151.6 5,604.0	3,256.4 3,405.4 3,464.5 3,629.1 3,723.3 3,907.5 4,189.4 4,536.0 4,973.6	402.3 407.8 399.9 479.2 536.7 578.2 577.0 615.6 630.3	108.2 112.8 100.4 127.3 145.4 154.3 162.8 188.0 186.9	31.0 28.4 30.9 32.4 39.0 28.5 37.3 32.1 29.9	127.4 134.4 139.3 165.1 200.5 223.5 246.4 278.1 301.2	3.9 4.4 7.4 12.0 10.1 12.7 15.5 13.4 10.2	71.6 67.4 65.3 72.9 71.5 84.0 35.9 24.5 20.6	40.9 42.0 43.8 32.7 31.6 50.5 35.2 45.4 49.7	30.7 25.4 21.5 40.2 39.9 33.5 .7 –20.9 –29.1	54.8 54.3 49.8 56.6 56.7 63.4 67.7 69.2 72.6	2.4 2.8 3.6 8.3 7.3 3.9 2.6 3.2 3.3	3.0 3.0 3.2 4.5 6.1 8.0 8.8 7.2 5.7

AGI Adjusted gross income BEA Bureau of Economic Analysis IRS Internal Revenue Service

reallocated from personal interest income to personal dividend income (line 19); thus, the estimation difficulty affects both income gaps. In addition, the allocation of income received from private noninsured pension plans (part of line 6) between interest and dividends is based on incomplete data. Another estimation difficulty relates to possible misreporting by individuals of income from mutual funds on their tax returns. Although the IRS instructs individuals to report the income as dividends, some may have inadvertently reported it as interest.

^{9.} Beginning with 1984, taxes have been withheld on taxable pension benefit payments unless the recipient elects not to have the tax withheld and on interest and dividends if the recipient fails to furnish a correct taxpayer identification number or has interest or dividends that were underreported on past returns.

ation items.¹⁰ The \$54.0 billion revision to the AGI gap reflected downward revisions of \$14.7 billion to personal income as a result of statistical changes that were not offset by revisions to reconciliation items and upward revisions of \$39.2 billion to reconciliation items that were unrelated to the revisions to personal income. There was no revision to the IRS estimate of AGI (line 23).

Not all of the \$122.2 billion revision to personal income carried through to the AGI gap because these revisions resulted in \$136.9 billion of offsetting revisions to reconciliation items. Of the \$122.2 billion, \$114.2 billion was attributable to definitional changes that were entirely offset by revisions to reconciliation items.¹¹ The \$14.7 billion difference between the revisions to personal income and the offsetting revisions to reconciliation items reflected downward statistical revisions to some components of personal income that were carried through to reduce the AGI gap.¹²

The definitional change that resulted in the largest revision was the reclassification of government employee retirement plans, which added \$108.2 billion to personal income in 1996 and which resulted in several offsetting revisions to reconciliation items.¹³ As a result of the reclas-

13. Government employee retirement plans, which were previously classified as social insurance funds within the government sector, are treated similarly to private pension plans. For more detail, see Seskin, "Improved

Table 4.—The Relative AGI Gap by Type of Income, 1959–97

[Percent]

		Wage	Proprietor	s' income			dividend and terest incom			Taxable		Adde	enda	
Year	Total	and sal- ary dis- burse- ments	Farm	Nonfarm	Rental income of persons	Total	Personal Personal		Taxable pensions and an- nuities	unem- ployment com- pensation	unem- ployment com-	Taxable social security benefits	Incomes, except wages and sala- ries, subject to filing requirements ¹	Incomes not subject to filing requirements ²
1959 1960 1961 1962 1963 1964 1965 1966 1968	10.0 10.2 9.8 10.1 9.9 10.3 10.5 10.2 9.1 9.0	3.0 3.3 2.7 3.1 2.7 3.0 3.3 3.4 2.6 2.9	68.9 66.1 59.0 61.5 68.0 66.6 63.8 60.6 59.3 59.2	25.6 27.1 29.1 28.4 29.5 30.1 28.8 30.2 29.8 28.6	-2.2 1.0 10.1 9.3 17.0 19.0 25.8 21.6 19.8 15.9	36.5 37.4 36.3 34.5 31.2 34.1 35.5 30.7 29.9 30.0	7.6 10.8 10.7 10.3 9.9 14.1 15.1 3.4 3.2 5.5	61.8 60.0 57.5 53.3 46.8 48.3 49.4 46.6 44.5 43.4	53.3 54.1 53.5 48.5 47.4 47.2 47.0 44.0 44.2 41.8	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	38.6 39.6 38.7 36.5 33.6 36.1 37.2 32.9 32.4 32.2	32.4 32.7 33.0 33.1 35.4 35.1 34.5 34.9 33.2 31.6	
1969 1970 1971 1973 1973 1974 1975 1976 1977 1978	9.0 9.7 9.6 9.6 10.7 9.9 9.6 9.9 10.7 11.4	2.4 2.4 2.3 1.7 2.3 1.1 1.7 1.5 2.0 2.2	64.6 73.0 75.5 69.1 65.7 73.8 72.7 72.2 89.7 73.2	30.5 32.9 35.3 38.6 39.7 43.2 45.5 48.6 49.1 51.6	15.0 19.0 15.9 25.2 20.2 6.4 1.8 -6.8 21.8 22.9	30.1 31.9 31.2 30.2 31.6 29.5 24.4 25.8 29.7 29.9	4.5 6.2 8.4 10.6 15.3 11.5 4.6 13.6 18.7 19.5	42.5 43.1 40.5 38.5 36.3 31.5 30.7 34.1 34.0	42.1 43.5 43.2 42.8 39.5 36.2 33.9 32.4 29.6 31.3	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	32.4 34.2 33.8 33.2 33.4 31.0 26.9 27.5 29.7 30.3	34.9 38.5 39.5 42.7 44.3 47.3 47.1 48.7 50.6 52.3	
1979 1980 1981 1982 1983 1984 1985 1986 1988	11.6 11.9 12.1 11.6 12.7 13.5 12.3 12.9 11.2 9.7	1.6 1.6 1.4 1.0 1.4 1.5 2.1 2.6 3.4 3.3	83.9 106.8 156.2 228.1 146.4 198.6 202.5 135.4 102.0 101.0	54.7 57.4 62.5 64.8 64.5 68.0 66.2 64.7 51.9 45.2	37.0 52.5 69.6 81.1 123.7 134.2 190.6 139.4 83.4	32.0 28.7 27.8 22.9 23.7 21.8 12.8 16.5 16.2 12.6	21.6 24.3 32.7 26.1 32.5 37.3 28.6 24.2 29.2 23.0	35.9 30.2 26.0 21.8 20.4 16.1 6.5 13.2 9.7 7.4	33.1 35.1 35.7 35.8 36.0 37.0 33.6 37.9 30.6 23.4	30.7 27.0 27.3 21.8 27.1 17.8 17.6 15.0 17.2 13.9	0 0 0 36.7 25.0 22.6 18.1 16.4	32.3 30.2 29.8 26.1 27.3 26.6 20.1 24.5 24.5 21.6 16.5	56.5 61.9 70.4 73.8 75.0 79.7 77.4 75.6 61.1 52.7	
1989 1990 1991 1992 1993 1994 1995 1996 1997	11.0 10.7 10.3 11.7 12.6 12.9 12.1 12.0 11.2	4.2 4.2 3.6 4.3 4.8 4.8 4.8 5.3 4.9	96.2 96.2 105.0 103.7 107.7 132.2 125.5 126.8 123.9	44.3 43.9 44.6 46.1 50.4 51.6 53.2 54.1 55.1	51.2 39.7 47.9 48.5 37.4 38.7 41.6 33.8 26.6	19.2 18.0 18.5 23.3 25.3 28.7 12.6 8.3 6.8	33.4 34.4 36.2 29.5 28.4 38.0 27.1 30.3 29.6	12.2 10.1 9.3 19.9 23.3 21.0 .5 -14.4 -21.7	27.1 25.4 22.0 23.3 22.6 23.4 22.5 21.5	16.8 15.5 13.5 21.0 21.0 16.0 11.9 14.3 15.9	14.6 13.2 13.1 16.2 19.9 17.2 16.2 12.0 8.3	21.6 20.3 19.4 22.8 23.7 25.2 17.7 15.2 14.0	49.6 48.2 49.7 50.6 54.2 54.3 56.4 55.9 56.1	

is shown in line 31 of tables 1-2.

1. Consists of personal dividend income, personal interest income, taxable pensions, taxable unemployment compensation, and taxable social security benefits. These types of income have been subject to varying degrees of withholding since 1984.

AGI Adjusted gross income BEA Bureau of Economic Analysis 2. Consists of farm proprietors' income, nonfarm proprietors' income, and rental income of per-

NOTE .- The relative AGI gap is the AGI gap as a percentage of the BEA-derived AGI and

sons.

^{10.} Although the definitional changes per se did not result in revisions to the AGI gap, statistical changes unrelated to the definitional changes were carried through to the AGI gap. Statistical changes update the estimates to reflect the introduction of new and improved methodologies and the incorporation of newly available and revised source data.

^{11.} For additional details, see table 15 in Seskin, "Improved Estimates," 27.

^{12.} For example, rental income of persons for 1996 was revised down \$21.7 billion with \$3.9 billion offsetting revisions to reconciliation items. The difference (\$16.6 billion) was statistical revisions that were carried through to reduce the AGI gap. Nonoffsetting statistical revisions were also in other components of personal income.

sification, employer contributions, which were previously excluded from personal income, are added to personal income (line 1) and to other labor income (line 4); dividends and interest received by these plans are added to personal income and to investment income of pension plans (line 6); personal contributions to these plans are no longer included in personal contributions for social insurance (line 11)—a component deducted in the calculation of personal income-and thus are no longer deducted in the calculation of personal income; and benefit payments by these plans are no longer included in government transfer payments, thus reducing personal income but increasing taxable pensions (line 13) by the amount of benefit payments.

The \$39.2 billion upward revision to reconciliation items unrelated to the revisions to personal income included revisions to investment income of pension plans (part of line 6), investment income received by nonprofit institutions or retained by fiduciaries (line 7), part of other personal income exempt or excluded from AGI (line 9), and other types of income (line 15). The revisions unrelated to the revisions to personal income reflected the introduction of new and improved methodologies or the incorporation of newly available and revised source data for reconciliation items that are prepared separately from NIPA revisions only for reconciliation purposes.

Reconciliation items shown in lines 6, 7, and 9 are components of personal income, but they are derived in aggregate in the estimate of personal income. Similarly, reconciliation items shown in line 15 are components of AGI, but they are also derived in aggregate in the estimate of AGI. Separate estimates for these reconciliation items are prepared only for reconciliation purposes. Thus, revisions to the separately estimated reconciliation items resulting from the introduction of new and improved methodologies or the incorporation of newly available and revised source data are unrelated to the revisions to personal income or to AGI and so are carried through to the AGI gap

In general, the incorporation of the results of the 1999 comprehensive revision resulted in small downward revisions to the relative AGI gap for total income (line 31) for all years except for 1991– 93. However, the trend in the relative AGI gap for 1959–97 was largely unchanged.

Appendix

In this appendix, the reconciliation items shown in tables 1 and 2 are explained in detail. The first group of reconciliation items consists of the items that are included in personal income but not in AGI; the second group consists of the items that are included in AGI but not in personal income; and the third group consists of the intercomponent reallocation items that make the BEA and IRS estimates of AGI comparable by type of income.

Personal income items not included in AGI

The first group of reconciliation items (lines 3–9) consists of the portion of personal income that is not taxable and therefore is not included in AGI.

Most transfer payments to persons from governments and all transfer payments to persons from business (line 3) are nontaxable.¹⁴ The taxable portion of transfer payments to persons from governments consists primarily of unemployment compensation benefit payments and a portion of social security and railroad retirement benefit payments.¹⁵

Most of the NIPA category of "other labor income" (line 4) is nontaxable.¹⁶ The nontaxable components of other labor income are employer contributions to pension and profitsharing plans, private group health and life insurance plans, privately administered workers'

16. NIPA table 6.11C shows other labor income by industry group and by type.

Estimates," 26–29. Other definitional changes that resulted in revisions to personal income and to reconciliation items are the modification of the treatment of private noninsured pension plans; the redefinition of dividend payments by regulated investment companies (Rtc's) to exclude distributions that reflect capital gains income; the redefinition of the value of imputed services of Rtc's; and the reclassification of directors' fees. As mentioned in the text, these definitional changes did not affect the AGI gap, because the revisions to personal income from these changes were matched by offsetting revisions to reconciliation items.

The following reconciliation lines include revisions resulting from definitional changes: Nontaxable transfer payments (line 3), other labor income except fees (line 4), imputed income in personal income (line 5), investment income of pension plans (part of line 6), personal contributions for social insurance (line 11), gains, net of losses, from sale of property (line 12), and taxable pensions (line 13).

^{14.} NIPA table 3.12 shows government transfer payments to persons. Government transfer payments to persons include benefit payments from social insurance funds—such as old-age, survivors, and disability insurance (social security), hospital insurance, supplementary medical insurance, and unemployment insurance—and from certain other programs. NIPA table 8.16 shows business transfer payments to persons. Business transfer payments to persons consists primarily of liability payments for personal injury and of corporate gifts to nonprofit institutions.

^{15.} In the 1999 comprehensive revision, the treatment of government employee retirement plans was changed to make it more similar to the treatment of private pension plans. This definitional change resulted in a shift of the savings associated with government employee retirement plans from the government sector to the personal sector. Previously, government employee retirement plans were treated as social insurance funds within the government sector, and benefits paid by the plans were treated as government transfer payments to persons. For additional details, see Brent R. Moulton, Robert P. Parker, and Eugene Seskin, "A Preview of the 1999 Comprehensive Revision of the National Income and Product Accounts: Definitional and Classificational Changes," SURVEY OF CURRENT BUSINESS 79 (August 1999): 11–12.

SURVEY OF CURRENT BUSINESS

Table 5.—Sources of Revision to the AGI Gap for 1959–96

[Billions of dollars]

	[Bi	liions of	uoliarsj												
Line 1		1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
1	Personal income	-0.4	0.2	0.3	0.9	1.0	1.3	0.7	0.7	-0.4	-0.1	1.6	4.0	4.9	5.4
2	Less: Portion of personal income not included in adjusted gross income	2.9	3.4	3.6	4.2	4.6	5.5	5.6	6.2	6.4	7.2	10.2	12.1	13.4	15.6
3	Nontaxable transfer payments	9	-1.0	-1.1	-1.2		-1.4	-1.4	-1.8	-2.0	-2.0	-2.3	-2.6	-2.9	-3.2
4	Other labor income except fees Imputed income in personal income	3.0	3.4 1	3.6 –.2	3.9 .1	4.3	4.9 0	5.2 4	5.9 5	6.9 -1.4	7.6 –1.6	8.6 .4	9.9 .3	11.8 –.7	12.9 5
6	Investment income of life insurance carriers and pension plans	.9	1.0	1.1	1.3		1.7	1.9	2.2	2.6	2.8	3.1	4.0	4.7	5.6
7	Investment income received by nonprofit institutions or retained by	.1	.2	.2	.3	.3	.4	.5	.5	.5	.5	.5	.6	.6	.7
8	fiduciaries Differences in accounting treatment between NIPA's and tax regulations,				.0			.5						.0	
9	net Other personal income exempt or excluded from adjusted gross income	.1	0	0 0	1 0	1	1	1 0	1	2	2 0	1 0	1 0	1 0	.2 0
10	Plus: Portion of adjusted gross income not included in personal income	.5	.6	.8	.8	1.1	1.3	1.9	2.7	3.3	4.3	4.5	3.7	3.8	5.7
11	Personal contributions for social insurance	-2.0	-2.1	-2.3	-2.4	-2.5	-2.8	-3.0	-3.3	-3.8	-4.1	-4.9	-5.3	-5.9	-6.4
12	Gains, net of losses, from sale of property	.5	.5	.6	.6	.5	.6	1.0	1.4	1.8	2.5	2.6	1.1	.4	1.1
13 14	Taxable pensions Small business corporation income	1.8 0	2.1 0	2.3 0	2.5 0		3.3 0	3.7 0	4.3 0	5.0 0	5.6 0	6.4 0	7.6 0	9.0 0	10.6 0
15	Other types of income	.2	.1	.1	.1	.2	.2	.2	.2	.3	.3	.3	.3	.3	.4
22	Equals: BEA-derived adjusted gross income	-2.8	-2.6	-2.6	-2.5		-2.8	-3.0	-2.8	-3.5	-3.0	-4.1	-4.4	-4.7	-4.4
23	Adjusted gross income of IRS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Adjusted gross income (AGI) gap	-2.8	-2.6	-2.6	-2.5		-2.8	-3.0	-2.8	-3.5	-3.0	-4.1	-4.4	-4.7	-4.4
31	Relative AGI gap	7	7	6	6	5	6	6	5	6	4	6	6	6	5
Line 1		1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
1	Personal income	5.9	9.7	12.7	16.0	21.0	22.4	25.7	31.0	30.9	44.3	52.5	63.4	74.1	72.9
2	Less: Portion of personal income not included in adjusted gross income	18.0	21.7	27.9	33.6		45.2	52.0	61.5	71.4	84.9	100.2	118.7	140.5	151.4
3	Nontaxable transfer payments	-3.9	-4.2	-4.1	-4.1	-4.3	-4.8	-5.3	-6.0	-6.8	-7.8	-7.2	-9.9	-10.1	-10.4
4	Other labor income except fees	14.3	17.5	22.4 .5	26.4 .2	31.6	34.4 .8	39.5 1.6	46.9 .8	53.3 1.2	59.1 .3	63.2 .6	75.2 1.9	81.5 2.0	84.9 -4.8
6	Imputed income in personal income Investment income of life insurance carriers and pension plans	6.2	.6 7.2	.5 8.6	.2. 10.4	.5 11.7	.o 13.6	16.3	.0 19.9	23.8	.3 32.3	.0 41.1	50.9	63.2	74.6
7	Investment income received by nonprofit institutions or retained by fiduciaries	.6	.1	.1	0	0	0	3	1	3	0	2	6	5	5
8	Differences in accounting treatment between NIPA's and tax regulations,				-		-								
9	net Other personal income exempt or excluded from adjusted gross income	.4	.5 0	.4 0	.6 0		1.2	.2 0	1	2 .3	.6 .4	2.0 .8	1 1.4	2.5 2.0	5.2 2.4
10	Plus: Portion of adjusted gross income not included in personal income	6.4	8.0	11.4	14.3	-	19.3	22.9	30.0	35.0	36.0	38.6	40.1	44.5	47.9
11	Personal contributions for social insurance	-6.9	-7.4	-7.8	-8.6		-10.0	-10.8	-11.4	-12.4	-13.2	-13.6	-14.3	-15.4	-16.5
12	Gains, net of losses, from sale of property	.7	.2	.3	.5	.6	.8	1.3	2.7	3.5	0	0	0	0	0
13 14	Taxable pensions Small business corporation income	12.2	14.8 0	18.5 0	21.8 0		27.5 0	31.2 0	36.5 0	41.9 0	46.5 0	50.4 0	52.6 0	58.0 0	61.7 0
15	Other types of income	.4	.4	.5	.6		.9	1.2	2.2	2.0	2.6	1.8	1.9	2.0	2.7
22	Equals: BEA-derived adjusted gross income	-5.7	-4.0	-3.8	-3.3		-3.5	-3.5	5	-5.5	-4.7	-9.1	-15.2	-21.8	-30.6
23	Adjusted gross income of IRS	0	0	0	0		0	0	0	0	0	0	0	0	0
29	Adjusted gross income (AGI) gap	-5.7	-4.0	-3.8	-3.3		-3.5	-3.5	5	-5.5	-4.7	-9.1	-15.2	-21.8	-30.6
31	Relative AGI gap	5	4	3	3	2	2	2	0	2	2	4	5	7	9
Line 1				19	87	1988	1989	1990	1991	1992	199	93 19	994	1995	1996
1	Personal income			1	84.7	93.2	103.4	107.0	119.7	134.	.7 12	8.9 1	30.1	128.9	122.2
2	Less: Portion of personal income not included in adjusted gross income			11	70.0	167.1	174.5	184.7	195.3	208.	.7 21	0.5 2	33.8	252.4	281.0
3	Nontaxable transfer payments				-9.9	-9.3	-9.1	-10.8	-10.4				10.9	-11.3	-14.0
4 5	Other labor income except fees Imputed income in personal income				36.5 4.1	87.6 2.2	90.2 -2.2	92.2 6.3	95.6			0.5 1 3.8	05.4	98.2 2.4	106.0 4.3
6 7	Investment income of life insurance carriers and pension plans			8	33.6	79.3	82.9	89.1	93.0	101.	.0 10	5.1 1	14.5	131.1	136.7
8	Investment income received by nonprofit institutions or retained by fiduciaries Differences in accounting treatment between NIPA's and tax regulations, net				4 3.4	6 5.1	8 9.9	–.7 16.5	–.7 17.1			0 1.4	2.4 20.0	6.7 21.7	8.7 34.1
9	Other personal income exempt or excluded from adjusted gross income				2.6	2.9	3.5	4.6	4.8			2.2	1.6	3.5	5.3
10	Plus: Portion of adjusted gross income not included in personal income				54.2	59.0	63.3	69.4	75.9				00.9	101.4	104.8
11 12	Personal contributions for social insurance Gains, net of losses, from sale of property				16.8	-17.3	-19.2	-20.2 0	-20.8		.9 –2 0	2.5 -	23.4	-24.8	-25.9 0
13	Taxable pensions			(67.6	74.1	79.5	85.7	92.5					123.2	127.1
14 15	Small business corporation income				0 3.4	0 2.2	0 3.0	0 3.9	4.1)	0	0 3.5	0 2.9	0 2.9	0 3.7
22	Other types of income Equals: BEA-derived adjusted gross income					-14.9	- 7.9	3.9 8.3	4.1					- 22.2	- 54.0
22	Adjusted gross income of IRS				0	0	0	-0.5			0	0	0	-22.2	-34.0 0
29	Adjusted gross income (AGI) gap				-	-14.9	-7.9	-8.3	.3		-	-	-2.8	-22.2	-54.0
31	Relative AGI gap				9	4	2	2			.1	.1	1	4	9
	· ·								I	1					

NIPA's National income and product accounts

1. Line numbers in this table correspond to those in tables 1–2. AGI Adjusted gross income BEA Bureau of Economic Analysis IRS Internal Revenue Service

compensation plans, and supplemental unemployment benefit plans. Employer contributions are nontaxable, but some benefit payments such as pension benefit payments and supplemental unemployment benefit payments—are taxable; they are in lines 13 and 15, respectively. Taxable components of other labor income include judicial fees to jurors and witnesses, compensation of prison inmates, and marriage fees paid to justices of the peace.¹⁷

Imputed income in personal income (line 5) is certain incomes imputed to persons according to NIPA definitions.¹⁸ Personal income wage and salary disbursements include three categories of wages and salaries in kind, the largest of which is the value of food furnished to military personnel and to other employees. Farm proprietors' income includes the imputed net rental income of owner-occupants of farm dwellings; nonfarm proprietors' income includes the imputed income of persons who participate in the construction of their own housing (the margins on owner-built housing). Rental income includes the imputed net rental income of owner-occupants of nonfarm dwellings. Net interest includes imputed income for services furnished to persons without payment by financial intermediaries except life insurance carriers.

Life insurance carriers and pension plans are not defined as persons in the NIPA's, but their investment income is included in personal income in the year it is accrued (line 6). Investment income of life insurance carriers attributed to persons is included in personal interest income.¹⁹ Investment income of pension plans—rents, dividends, and interest—is recorded as being received directly by persons in the corresponding components of personal income.²⁰

Both nonprofit institutions and fiduciaries are defined as persons in the NIPA's, and their investment incomes are included, but not separately identified, in nonfarm proprietors' income, rental income of persons, personal interest income, and personal dividend income (line 7). Only the portion of the income of fiduciaries that is distributed to beneficiaries is taxable to individuals; the portion retained by fiduciaries is taxable to the fiduciaries and is not reported on individual income tax returns. Thus, investment income of fiduciaries included in line 7 represents the portion of fiduciaries' investment income that is retained by the fiduciaries.

The differences between NIPA accounting and income tax accounting for incomes included in both measures (line 8) consist mainly of differences in the valuation of inventories and depreciation and of differences in the methods of accounting for interest on bonds and for the earnings of individual retirement accounts and Keogh plans.

The inventory valuation adjustment for nonfarm proprietors' income is the difference between the cost of inventory withdrawals valued at their acquisition (historical) cost and the cost of inventory withdrawals valued at their replacement cost (the concept underlying the NIPA's). This difference is an estimate of inventory profits, but with the sign reversed. These profits are excluded from personal income but are included in AGI.

The NIPA measure of depreciation (consumption of fixed capital) is based on consistent accounting and is valued at current replacement cost, whereas the IRS measure of depreciation is based on varying service lives and depreciation formulas and is valued at historical cost.²¹ The adjustment in line 8 consists of the differences for proprietors' income and rental income of persons except for depreciation on owner-occupied dwellings. (The entire amount of the rental income on owner-occupied dwellings, which is a NIPA imputation, is included in line 5.)

Interest on U.S. savings bonds, State and local government bonds, and corporate bonds is included in personal income on an accrual basis but is mostly reported on a cash basis in AGI. Similarly, earnings of IRA's and Keogh plans, excluding capital gains, are included in personal income on an accrual basis but are included as benefit payments in AGI.

Other personal income exempt or excluded from AGI (line 9) consists mainly of voluntary contributions by employees to thrift savings

^{17.} In the 1999 comprehensive revision, corporate directors' fees paid to "outside directors," which were previously in other labor income, were reclassified to nonfarm proprietors' income. Outside directors are directors who are not employees of the company on whose board they serve. Directors' fees paid to employees who serve on their company's board of directors are classified as wages and salaries.

^{18.} Employer-paid health and life insurance premiums, which are treated as an imputation in the NIPA's, are excluded from line 5; these premiums are included in line 4. NIPA table 8.21 (line 53) shows the imputations that are included in personal income.

^{19.} NIPA table 8.20 (line 53) shows imputed interest attributed to persons from life insurance carriers.

^{20.} For additional details, see Moulton, Parker, and Seskin, "Definitional and Classificational Changes," 12–13.

^{21.} The NIPA methodology for depreciation reflects empirical evidence on prices of used equipment and structures in resale markets, which has shown that depreciation for most types of assets approximates a geometric pattern. See Robert P. Parker and Jack E. Triplett, "Preview of the Comprehensive Revision of the National Income and Product Accounts: Recognition of Government Investment and Incorporation of a New Methodology for Calculating Depreciation," SURVEY 75 (September 1995): 39–41, and Barbara M. Fraumeni, "The Measurement of Depreciation in the U.S. National Income and Product Accounts," SURVEY 77 (July 1997): 7–23.

plans, tax-exempt interest received by individuals, tax-exempt military pay and allowances, the small business corporation dividend adjustment, and statutory adjustments to AGI.

Employee contributions to thrift savings plans, primarily 401(k) plans, are included in personal income as wage and salary disbursements but are excluded from AGI.

Tax-exempt interest received by individuals, primarily on State and local government bonds, is included in personal income but is excluded from AGI.

Certain types of pay and cash allowances to members of the armed forces, such as allowances to defray a portion of the cost of subsistence or to assist in obtaining civilian housing as a substitute for government quarters, are included in personal income but are excluded from AGI.

The small business corporation (S corporation) dividend adjustment is the difference between S corporation distributions that are included in personal income as personal dividend income and S corporation distributions that are considered as dividends in AGI. In the NIPA's, these distributions to individuals are, in their entirety, treated as personal dividend income for all time periods. In AGI, they have been treated at different times as dividends, partnership income, or small business corporation income.²²

Statutory adjustments are specific adjustments to total income that are allowed as deductions in the calculation of AGI. For 1997, statutory adjustments consist of contributions to Keogh and self-employed simplified employee pension plans and to savings incentive match plans for employees, certain contributions to IRA's, onehalf of self-employment tax, a portion of selfemployed health insurance premiums, forfeited interest and penalties incurred by persons who prematurely withdrew funds from time savings accounts, alimony payments, medical savings account contributions, certain moving expenses, foreign housing exclusion, repayments of supplemental unemployment compensation, certain expenses of qualified performing artists, and the amount of jury duty pay reported on Form 1040 that was repaid to employers.

AGI items not included in personal income

The second group of reconciliation items (lines 11–15) consists of the portion of AGI that is excluded from personal income.

Personal contributions for social insurance (line 11), which is subtracted in the calculation of personal income, is included in AGI.

Net gain from sale of property (line 12) includes net gain from sale of property held for personal use or investment (capital assets) and of property of a business nature (business assets).

Taxable pension benefit payments from pension plans (line 13), which are in AGI, are excluded from personal income because of the NIPA treatment of pension plans.

Small business corporation income (line 14) in AGI is the amount of distributions from small business corporations that is taxable to individuals as ordinary income. As mentioned before, the amount taxable to individuals as dividends is in the IRS measure of dividends. In the NIPA's, small business corporation income is part of corporate profits, and the distributions to individuals are treated, in their entirety, as personal dividend income.

Other types of income (line 15) consists of income of U.S. citizens living abroad for more than a year, supplemental unemployment benefit payments, and "other AGI items" excluded from personal income. Personal income excludes income of U.S. citizens living abroad for more than a year because they are considered nonresidents of the United States for NIPA purposes, whereas AGI includes their income.²³ U.S. citizens are generally taxed on their worldwide income regardless of the geographic sources of their income and regardless of how long they have been living abroad. AGI from abroad mainly consists of wages, but a small amount is nonfarm proprietors' income.

Supplemental unemployment benefit payments from company-financed funds are reported as wages in AGI.

Other AGI items excluded from personal income include withdrawals from individual retirement accounts and Keogh plans, alimony

^{22.} For many of the years prior to 1983, IRS instructed taxpayers to report actual distributions to individuals as dividends on Schedule B (Form 1040) and to report the retained earnings as part of supplemental income on Schedule E (Form 1040), which was tabulated as "small business corporation income" in AGI. Beginning in 1983, individuals were instructed to report only the distributions from pre–1983 accumulated earnings and profits as dividends on Schedule B (Form 1040) and to report other distributions as supplemental income on Schedule E (Form 1040).

^{23.} In the NIPA'S, U.S. citizens who reside outside the United States for less than 1 year are considered U.S. residents, but those who reside outside the United States for 1 year or more are, with certain exceptions such as diplomats and members of the armed forces, considered nonresidents. Similarly, aliens who reside in the United States for less than 1 year are considered nonresidents in the NIPA'S. Personal income excludes income of NIPA nonresidents, but a reconciliation is not needed because AGI also excludes their income. AGI is based on a sample of individual income tax returns that is drawn from filers of forms 1040, 1040E, and 1040PC, including electronic returns; the sample excludes filers of forms 1040NR and 1042, which are used by NIPA nonresident aliens to report their income.

received, State income tax refunds, net operating loss, gambling earnings, prizes, awards, and sweepstakes winnings.

Intercomponent reallocation

The third group of reconciliation items consists of "intercomponent reallocations." The types of income used for reconciliation purposes in tables 1 and 2 represent the types of income that are common for both personal income and AGI. However, certain components of personal income and of AGI do not fit into this income classification or are classified differently. These income components are reallocated, when possible, to make the BEA and IRS estimates of AGI comparable by type of income. The reallocations affecting personal income are shown in lines 17-21, and those affecting AGI are shown in lines 25-27. The reallocated personal income and AGI by type of income are shown in lines 22 and 28, respectively.

The fees components of other labor income (line 17) are reallocated from other labor income to wage and salary disbursements because they are largely reported as wages.²⁴

Partnership income retained by fiduciaries (line 18) is reallocated to farm and nonfarm proprietors' incomes. Partnership income retained by fiduciaries is part of "income retained by fiduciaries," which is prepared specially for this reconciliation (line 7). Partnership income requires a reallocation because this type of income is not a type of income used for reconciliation purposes.

Interest received by, but not related to business operations of, nonfinancial proprietors and partnerships (line 19) is reallocated from personal interest income to nonfarm proprietors' income for years prior to 1987. This interest, which was tabulated in AGI as part of the income of proprietors and partnerships prior to 1987, is treated in the NIPA's as personal interest income in all time periods.

Taxable interest received by individuals from regulated investment companies (mutual funds) is reallocated (line 20) from personal interest income to personal dividend income because IRS requires that it be reported as dividends. Only the portion that is taxable to individuals is reallocated; interest paid by mutual funds to pension plans, IRA and Keogh plans, and holders of State and local government securities is tax-exempt. Because of difficulties encountered in allocating total interest paid by regulated investment companies to these different categories, this estimate of the amount reallocated from interest to dividends must be regarded as an approximation; the separate estimates of BEA-derived AGI for interest and dividends are therefore less reliable than those for the combination of the two.²⁵

Taxable disability income payments received prior to reaching minimum retirement age (line 21) are reallocated from taxable pension benefit payments to wage and salary disbursements because these payments are reported as wages on tax returns but are treated as pension benefit payments in personal income.

The AGI components that require a reallocation are estate or trust income (line 25), partnership income (line 26), and other reallocations (line 27). Estate or trust income is not a type of income that is used for reconciliation purposes; this income is reallocated to farm proprietors' income, nonfarm proprietors' income, and rental income of persons. Partnership income is reallocated to farm and nonfarm proprietors' incomes because this income is not a type of income that is used for reconciliation purposes.

Other reallocations (line 27) includes several reallocations that are not shown separately and are not applicable in recent years. For certain AGI components, the AGI classification has changed over the years, and the earlier classification must be adjusted to conform with the present AGI classification and with types of income used for reconciliation purposes. IRS business or profession net profit prior to 1963 is reallocated between farm and nonfarm proprietors' income because IRS did not tabulate farm proprietors' income separately. For 1958-65, the dividends distributed by small business corporations are reallocated from partnership income to personal dividend income; these dividends were tabulated by IRS as partnership income because the two types of business organizations were treated alike under tax laws. For 1957-65, Form 1040A wages that were not subject to withholding were tabulated by IRS as other income; this amount is reallocated to wages. For 1964-65, estate or trust income was tabulated as part of other income in AGI; this amount is reallocated to farm proprietors' income, nonfarm proprietors' income, and rental income of persons. For 1961, wage earners who had \$200 or less of dividends and interest could report the combined amount as a single figure; this amount is reallocated to personal interest income and personal dividend income.

^{24.} See the previous discussion of other labor income (line 4) in the " ${}^{\rm ``BEA}$ Estimate of ${}_{\rm AGI}{}^{\rm ''}$ section.

^{25.} Several statistical problems cause the separate estimates of the AGI gap for interest and dividends to be less reliable than the estimates for the combination of the two. See footnote 8.

Comprehensive NIPA Revision: Newly Available Tables

The national income and product account (NIPA) tables 3.13 and 8.28 are presented below; these tables were not available for inclusion with most of the full set of NIPA tables that were published as part of the comprehensive NIPA revision in the December 1999 SURVEY OF CURRENT BUSINESS. Tables 3.18–3.20, 5.16, and 9.1-9.6 are scheduled to be published in the April SURVEY. Tables 3.15-3.17, which present estimates of government current expenditures and gross investment by function, will be published in the SURVEY later this year along with an article that discusses the improved presentation of these estimates.

	Line	1995	1996	1997	1998
Subsidies less current surplus of government enterprises.	1	22.2	22.6	19.0	20.8
Federal	2	32.4	35.1	30.4	32.1
Subsidies	3 4 5 6 7 8 9 10 11 12 13	32.9 7.3 23.6 .3 0 1.8 .6 -2.0 1.3 1.6 4	33.4 7.3 24.5 .2 0 1.4 -1.7 -3.9 2.0 2.0 -1.8	31.9 7.5 22.9 .1 0 1.3 1.5 -3.7 2.2 2.4 .7	35.1 12.2 21.9 .1 0 .9 3.0 -2.8 2.8 2.7 .4
State and local	14	-10.2	-12.5	-11.4	-11.3
Subsidies Less: Current surplus of government enterprises Gas and electricity Toll facilities Liquor stores Air and water terminals Housing and urban renewal Public transit Other 3	15 16 17 18 19 20 21 22 23 24	.3 10.5 4.2 6.6 1.7 .6 1.8 -2.7 -13.0 11.2	.3 12.8 5.0 7.1 1.8 .6 2.0 -2.3 -13.4 12.0	.4 11.8 5.4 7.4 1.9 .7 2.2 -4.9 -14.1 13.2	.5 11.7 5.8 7.7 1.9 .7 2.3 -6.0 -14.7 13.9

Table 3.13.—Subsidies I	Less (Current	Surplus	of	Government	Enterpr	ises
		[Billions of	f dollars]				

Table 8.28.—Comparison of Personal Income in the National Income and
Product Accounts (NIPA's) with Adjusted Gross Income as Published
by the Internal Revenue Service (IRS)

[Billions of dollars]

	Line	1995	1996	1997	1998
Personal income, NIPA's	1	6,200.9	6,547.4	6,951.1	7,358.9
Less: Portion of personal income not included in adjusted gross income.	2	2,275.3	2,373.8	2,498.4	
Nontaxable transfer payments	3	806.0	842.3	870.1	
Other labor income except fees	4	494.6	487.5	498.2	
Imputed income in personal income 1	5	242.7	264.3	293.0	
Investment income of life insurance carriers and pension plans.	6	358.8	366.7	394.9	
Investment income received by nonprofit institutions or retained by fiduciaries.	7	59.8	59.9	60.0	
Differences in accounting treatment between NIPA's and tax regulations, net.	8	72.9	79.9	87.4	
Other personal income exempt or excluded from adjusted gross income.	9	240.6	273.2	294.8	
Plus: Portion of adjusted gross income not included in personal income.	10	840.7	978.0	1,151.2	
Personal contributions for social insurance	11	268.8	280.4	298.1	315.9
Gains, net of losses, from sales of property	12	167.4		338.2	
Taxable pensions	13	292.2	311.6		
Small business corporation income	14	79.2	89.3	100.7	
Other types of income	15	33.2	47.1	73.2	
Equals: BEA-derived adjusted gross income	16	4,766.4	5,151.6	5,604.0	
Adjusted gross income, IRS	17	4,189.4	4,536.0	4,973.6	
Adjusted gross income (AGI) gap $^{\rm 2}$	18	577.0	615.6	630.3	
AGI gap (line 18) as a percentage of BEA- derived AGI (line 16).	19	12.1	12.0	11.2	
AGI of IRS (line 17) as a percentage of BEA- derived AGI (line 16).	20	87.9	88.0	88.8	

1. Consists of the imputations included in personal income shown in table 8.21 except for employer contributions for health and life insurance (line 146). In table 8.28, these premiums are included in line 4.
2. Consists of income earned by low-income individuals who are not required to file income tax returns, of unreported income that is included in the NIPA measure, and of gross errors and omissions in lines 2 through 15. Also includes the net effect of errors in the IRS adjusted gross income (line 17) and NIPA personal income (line 1) measures. Such errors can arise from the sample used by IRS to estimate line 17 and from the source data used by BEA to estimate line 1.

Consists largely of subsidies to railroads and mass transit systems.
 Consists largely of the Bonneville Power Administration, other electric power agencies, and insurance agencies other than those insuring deposits in financial institutions.
 Consists of lotteries, off-track betting, local parking, and miscellaneous activities.

Accounting for Subsoil Mineral Resources

LAST SUMMER, A blue-ribbon panel of the National Academy of Sciences' National Research Council completed a congressionally mandated review of the work that the Bureau of Economic Analysis (BEA) had published on integrated economic and environmental accounts. The panel's final report commended BEA for its initial work in producing a set of sound and objective prototype accounts. The November 1999 issue of the SURVEY OF CURRENT BUSINESS contained an article by William D. Nordhaus, the Chair of the Panel, that presented an overview of the major issues and findings and a reprint of chapter 5, "Overall Appraisal of Environmental Accounting in the United States," from the final report. As part of its promise to inform users of the results of this evaluation, BEA is reprinting additional chapters from the panel's report; below is a reprint of chapter 3, which reviews BEA's development of a set of subsoil mineral accounts.

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INTRODUCTION

S^{UBSOIL} minerals—particularly petroleum, natural gas, and coal—have played a key role in the American economy over the last century. They are important industries in themselves, but they also are crucial inputs into every sector of the economy, from the family automobile to military jets. In recent years, the energy sector has been an important contributor to many environmental problems, and the use of fossil fuels is high on the list of concerns about greenhouse warming.

The National Income and Product Accounts (NIPA) currently contain estimates of the production of mineral products and their flows through the economy. But the values of and changes in the stocks of subsoil assets are currently omitted from the NIPA. The current treatment of these resources leads to major anomalies and inaccuracies in the accounts. For example, both exploration and research and development generate new subsoil mineral assets just as investment creates new produced capital assets. Similarly, the extraction of mineral deposits results in the depletion of subsoil assets just as use and time cause produced capital assets to depreciate. The NIPA include the accumulation and depreciation of capital assets, but they do not consider the generation and depletion of subsoil assets.

The omission is troubling. Mineral resources, like labor, capital, and intermediate goods, are basic inputs in the production of many goods and services. The production of mineral resources is no different from the production of consumer goods and capital goods. Therefore, economic accounts that fail to include mineral assets may seriously misrepresent trends in national income and wealth over time.

Omission of minerals is just one of the issues addressed in the construction of environmental accounts. Still, extending the NIPA to include minerals is a natural starting point for the project of environmental accounting. These assets which include notably petroleum, natural gas, coal, and nonfuel minerals—are already part of the market economy and have important links to environmental policy. Indeed, production from these assets is already included in the nation's gross domestic product (GDP). Mining is a significant segment of the nation's output; gross output originating in mining totaled \$90 billion, or 1.3 percent of GDP, in 1994. This figure masks the importance of production of subsoil minerals in certain respects, however, for they are intimately linked to many serious environmental problems. Much air pollution and the preponderance of emissions of greenhouse gases are derived directly or indirectly from the combustion of fossil fuels—a linkage that is explored further in the next chapter. Moreover, while the value of mineral assets may be a small fraction of the nation's total assets, subsoil assets account for a large proportion of the assets of certain regions of the country.

Current treatment of subsoil assets in the U.S. national economic accounts has three major limitations. First, there is no entry for additions to the stock of subsoil assets in the production or asset accounts. This omission is anomalous because businesses expend significant amounts of resources on discovering or proving reserves for future use. Second, there is no entry for the using up of the stock of subsoil assets in the production or asset accounts. When the stock of a valuable resource declines over time through intensive exploitation, this trend should be recognized in the economic accounts: if it is becoming increasingly expensive to extract the subsoil minerals necessary for economic production, the nation's sustainable production will be lowered. Third, there is no entry for the contribution of subsoil assets to current production in the production accounts. The contribution of subsoil assets is currently recorded as a return to other assets, primarily as a return to capital.

There is a well-developed literature in economics and accounting with regard to the appropriate treatment of mineral resources. The major difficulty for the national accounts has been the lack of adequate data on the quantities and transaction prices of mineral resources. Unlike new capital goods such as houses or computers, additions to mineral reserves are not generally reflected in market transactions, but are determined from internal and often proprietary data on mineral resources. Moreover, there are insufficient data on the transactions of mineral resources, and because these resources are quite heterogenous, extrapolating from existing transactions to the universe of reserves or resources is questionable.

Notwithstanding the difficulties that arise in constructing mineral accounts, the Bureau of Economic Analysis (BEA) decided this was the best place to begin development of its Integrated Environmental and Economic Satellite Accounts (IEESA). BEA in the United States and comparable agencies in other countries have in recent years developed satellite accounts that explicitly identify mineral assets, along with the changes in these assets over assets, along with the changes in these assets over time. This chapter analyzes general issues involved in minerals accounting and assesses the approach taken by BEA (as described in Bureau of Economic Analysis [1994b]). The first section provides an overview of the nature of subsoil mineral resources and describes the basic techniques for valuing subsoil assets. The second section describes BEA's approach to valuation, including the five different methods it uses to value subsoil mineral assets. The third section highlights the specific strengths and weaknesses of BEA's approach, while the fourth considers other possible approaches. The chapter ends with conclusions and recommendations regarding future efforts to incorporate subsoil mineral assets into the national economic accounts.

GENERAL ISSUES IN ACCOUNTING FOR MINERAL RESOURCES

Basics of Minerals Economics

A mineral resource is "a concentration of naturally occurring solid, liquid, or gaseous material, in or on the earth's crust, in such form and amount that economic extraction of a commodity from the concentration is currently or potentially feasible" (Craig et al., 1998:20). The size and nature of many mineral resources are well known, whereas others are undiscovered and totally unknown. Figure 3-1 shows a spectrum of resources that differ in their degree of certainty, commonly described as measured, indicated, inferred, hypothetical, and speculative. Another important dimension is the economic feasibility or cost of extracting and using the resources. Some resources are currently profitable to exploit; others may be economical in the future, but currently are not. Along this dimension, mineral resources are conventionally described as economic (profitable today), marginally economic, subeconomic, and other.

Resources that are both currently profitable to exploit (economic) and known with considerable certainty (measured or indicated) are called reserves (or ores when referring to metal deposits). This means reserves are always resources, though not all resources are reserves.¹

Over time, reserves may increase. Exploration may result in the discovery of previously unknown deposits or demonstrate that a known deposit is larger than formerly indicated. Research and development may produce new techniques that allow previously known but uneconomic resources to be profitably extracted. A rise in a mineral commodity's price may also increase reserves by making previously unprofitable resources economic.

The exploration required to convert resources into reserves entails a cost. As a result, companies have an incentive to invest in the generation of new reserves only up to the point at which reserves are adequate for current production plans. For many mineral commodities, therefore, reserves as a multiple of current extraction tend to remain fairly stable over time.

^{1.} Two additional categories of mineral endowment are worth noting since they are commonly encountered. The reserve base encompasses the categories of reserves and marginal reserves, as well as part of the category of demonstrated subeconomic resources shown in Figure $_{3-1}$. While reserves and the reserve base are typically a small subset of resources, resources in turn are a small subset of the resource base. The resource base, not illustrated in Figure $_{3-1}$, encompasses all of a mineral commodity found in the earth's crust.

While by definition all reserves can be exploited profitably, the costs of extraction, processing, and marketing, even for reserves of the same mineral commodity, may vary greatly as a result of the reserves' heterogenous nature. Deposit depth, presence of valuable byproducts or costly impurities, mineralogical characteristics, and access to markets and infrastructure (such as deepwater ports) are some of the more important factors that give rise to cost differences among reserves.

Figure 3-2 reflects the heterogenous nature of mineral resources by separating the reserves and other known resources for a particular mineral commodity according to their exploitation costs.² The lowest-cost reserves are in class A; their quantity is indicated in the figure as 0A and their exploitation costs as $0C_1$. The next least costly reserves are found in class B, with a quantity of AB and a cost of $0C_2$. The most expensive reserves are found in class M. These reserves are

marginally profitable. The market price OP just covers the extraction cost of class M (OC_m) plus the opportunity cost (C_m P) of using these reserves now rather than saving them for future use. This opportunity cost, which economists refer to as *Hotelling rent* (or sometimes scarcity rent or user cost) is the present value of the additional profit that would be earned by exploiting these reserves at the most profitable time in the future rather than now.³

Known resources in Figure $_{3-2}$ with costs above those of class M, such as those in classes N, O, and P, are by convention not reserves. In this case, mineral producers, like other competitive firms, will have an incentive to produce up to the point where the current production costs of the next unit of output, inclusive of rents, just equals the market price. When Hotelling rents exist,

^{3.} Where the relevant market for a mineral commodity is global and transportation costs are negligible, Figure 3–2 reflects cost classes for reserves and other known resources throughout the world. Where a mineral commodity is sold in regional markets, a separate figure would be required for each regional market, and the cost classes shown in any particular figure are only for the reserves and other known resources in the regional market portrayed.

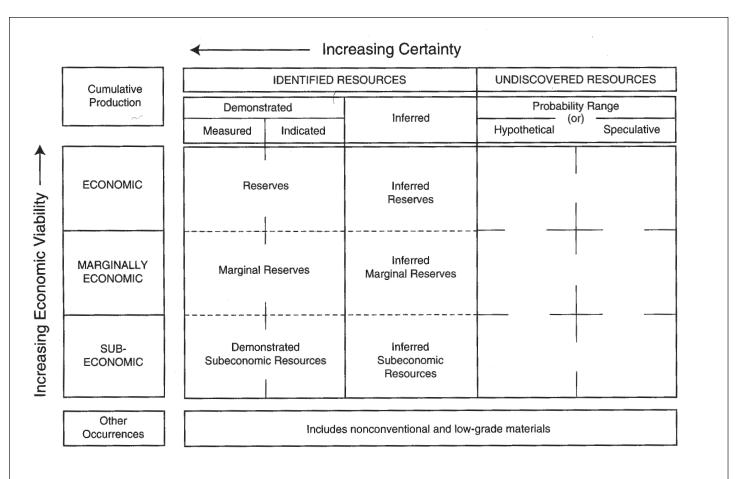


FIGURE 3-1 Classification of Mineral Resources. Source: Mineral Commodities Summaries, U.S. Geological Survey (1992:203)

^{2.} Similar comparative cost curves are used to illustrate the relative costs of mineral production for major producing countries or companies. See, for example, Bureau of Mines (1987) and Torries (1988, 1995).

they are the same for all classes of reserves for a particular mineral commodity market. Thus, the total Hotelling rent shown in Figure $_{3-2}$ is simply the Hotelling rent earned on marginal reserves ($C_m P$) times total reserves (OM).

Those reserves whose marginal extraction costs are below those of the marginal reserves in class M are called inframarginal reserves. As a result of their relatively low costs, they yield additional profits when they are exploited. Mineral economists refer to these additional profits as Ricardian rents. In Figure 3–2, the *Ricardian rents* per unit of output equal C₁C_m for reserves in class A, C₂C_m for reserves in class B, and so on.

Unless technical or other considerations intervene, mineral producers will generally exploit first those reserves that have relatively low production costs and thus high Ricardian rents (like classes A and B). This implies that the reserves currently being extracted have lower costs than the average of all reserves and that their Ricardian rents are likely to be above average.

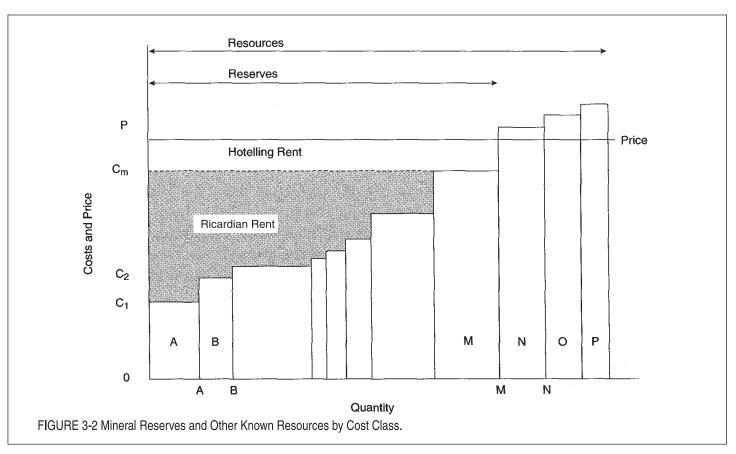
Since reserves by definition are known and profitable to exploit, they are assets in the sense that they have value in the marketplace. Although mineral resources other than those classified as reserves might have in-completely defined characteristics (in terms of costs and quantities) or be currently unprofitable to exploit, they still may command a positive price in the marketplace. Petroleum companies, for example, pay millions of dollars for offshore leases to explore for oil deposits that are not yet proved reserves. Mining companies pay for and retain subeconomic deposits. The option of developing such deposits in the future has a positive value because the price may rise, or some other developments may make the deposits economic.

Thus, a full accounting of subsoil assets should consider not only reserves, but also other mineral resources with positive market value. In the case of reserves, market value may reflect Hotelling rent, Ricardian rent, and option value.⁴ In the case of mineral resources other than reserves, a positive market value is due solely to their option value.

Key Definitions in Mineral Accounting

Changes in the value of the mineral stock come about through additions, depletions, and revaluations of reserves.

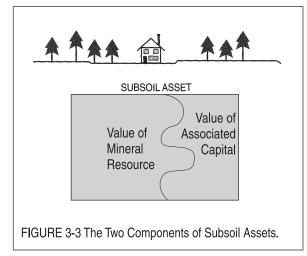
4. The total value of reserves is V = $\sum_i v_i R_i$, where v_i is the unit value of reserves in class i (i = A, B, ..., M), and R_i is the quantity of reserves of class i.



- *Additions* are the increases in the value of reserves over time due to reserve augmentations. They are calculated as the sum of the price of new reserves times the quantity of new reserves for each reserve class.
- *Depletions* are the decreases in the value of reserves over time due to extraction. They are similar to capital consumption (depreciation) and parallel the concept of additions.
- *Revaluations* are changes in the value of reserves due to price changes. They measure the residual change in the value of reserves after correcting for additions and depletions.

Techniques for Valuing Mineral Assets

As noted in the last section, the major challenge in extending the national accounts to include subsoil minerals is to broaden the treatment of mineral assets to include additions and depletions and to incorporate depletion in the production accounts. This task involves estimating the value of the subsoil assets. A specific subsoil asset consists of a quantity of a mineral resource and the invested capital associated with finding and developing that resource. Invested capital includes physical structures such as roads and shafts, as well as capitalized exploration and drilling ex-The total value of the subsoil assets penses. equals the sum of the value of the mineral and the value of the associated capital (see Figure 3-3). Currently, U.S. national economic accounts include the value of the associated capital, but exclude the value of the mineral resource. One of the goals of natural-resource accounting is to estimate the total value of subsoil assets and to



separate this estimate into the value of the mineral and the value of the associated capital. An additional goal is to track over time changes in the value of the stock that result from additions, depletions, and revaluations.

Three alternative methodologies are used in valuing mineral resources: (1) transaction prices, (2) replacement value, and (3) net present value. In developing its mineral accounts, BEA used one version of the first method and four versions of the third. This section explains the basic elements of each approach.

Transaction Prices

The most straightforward approach to valuing mineral resources relies on market transaction prices. This is the standard approach used across the national economic accounts for capital assets. When resources of petroleum, copper, gold, and other minerals are sold, the value of the transaction provides a basis for calculating the market value of the mineral component of the asset.

A close look at the transaction-prices approach reveals, however, a number of difficulties that need to be resolved. The major difficulty is that a market transaction usually encompasses a number of assets and liabilities, such as the associated capital (e.g., surface roads, shafts, and refining operations), taxes, royalty obligations, and environmental liabilities. Because the transaction usually includes not only the mineral resources, but also associated capital, the value of the capital must be subtracted to obtain the mineral value. In addition, the property is usually encumbered with royalty obligations to prior owners or to owners of the land. Many mineral properties also have associated environmental problems, such as contaminated soils and water, and they may even be involved in complicated legal disputes, such as connection to a Superfund site with joint and several liability. Some of these associated assets and liabilities (such as mining structures) are true social costs or assets, while others (such as royalty obligations) are factor payments.

Another difficulty with using transaction prices is the sporadic nature of the transactions. The infrequency of the transactions, coupled with the heterogeneity of the grade of the resource, makes it difficult to apply the transaction price for one grade or location of the resource to other grades in other locations.

Because of the complex assortment of assets and liabilities associated with transactions of mineral resources, the price must be adjusted to obtain the value of a resource. As noted above, the working capital and the associated capital must be subtracted from the transaction price, while any extrinsic environmental liabilities should be added, as should any factor payments, such as royalties or taxes, to obtain the value of the underlying resource.

Box 3–1 provides an example of how to adjust the transaction price to obtain the market value of a mineral resource for a hypothetical sale involving the purchase of 500,000 barrels of oil. In this example, the buyer pays \$2 million for a property containing 500,000 barrels of oil, and this is recorded as the transaction value. Attached to those reserves is a long-term debt of \$1.0 million; this liability must be added to the purchase price. If the acquired reserves also include associated working capital of \$0.2 million, this amount must be deducted from the purchase price. Correcting for these two items creates an effective purchase price or market value of the asset of \$2.8 million.

An additional issue arises because of payments such as future taxes and royalties. In acquiring the above property, the new owner must, for example, pay a 10 percent overriding royalty to the landowner. Such payments should be included in the value of the resource even though they do not accrue to the seller of the property. In the example shown in Box 3-1, future royalties and taxes are assumed to have a present value of \$0.6 million. These payments introduce a major new complication because taxes and royalties depend on future production. Not only are they uncertain, but they also cannot be easily estimated from market or transaction data. One approach is to adjust the transaction price by marking up the value of the transaction by a certain amount. Adelman and Watkins (1996:4), for example, suggest that 27 percent be added to the "effective purchase price" to account for transfers. After adjusting for royalties, this yields a social asset value for the above property of \$3.4 million. The final adjustment is for associated capital, which is assumed to have a value of \$0.8 million. After this amount is subtracted, the estimated social value of the underlying petroleum reserve is calculated to be \$2.6 million.

Replacement Value

A second approach uses the costs of replacing mineral assets to determine their value. Under this approach, it is assumed that firms have an incentive to undertake investments to find new resources up to the point where the additional cost of finding one more unit just equals the price

Box 3–1: Transaction Price Method ^a
Recorded Dollar Transaction (500,000 barrels)
Effective Purchase Price of Asset
Value of Assets
Value of Petroleum Reserve \$2.6 million
^a This methodology is not followed in the conventional accounts. For instance, in valuing the stock of cars, we do not subtract tax credits, nor do we add in future liabilities such as property taxes. Similarly, to the extent that royalties are regarded as a sharing of profits (like dividends), they should not affect the value of an asset; to the extent that royalties are actually a deferred part of the purchase price, they can be capitalized to increase the value of an asset.

Box 3-2: Definitions of Symbols and Basic Concepts in Minerals Accounting

For this discussion, assume that there is only one class of a mineral reserve, that extraction costs are constant, and that the unit value of the reserve rises at the social rate of discount. Variables are:

 R_{t} = total quantity of reserves of the mineral commodity at year end

- H_t = unit value of the reserves (say, petroleum reserves), which equals Hotelling rent under the above assumptions
- A_t = quantity of new reserves discovered during the year
- q_t = quantity of extraction or production during the year

 V_t = total value of the reserves at year end

In a given year, petroleum firms might discover new reserves totaling A_{t} . Then the additions are given by:

additions_t =
$$H_{t}A_{t}$$
 (3.1)

During that year, petroleum production, and therefore depletion of existing reserves, is measured by q_t . Depletion is, under the special assumptions listed above, quantity times the value of reserves:

$$depletions_{t} = H_{t}q_{t}$$
(3.2)

The total value of reserves at year end is:

value of reserves =
$$V_t = H_t R_t$$
 (3.3)

The change in the value from the end of year t - 1 to the end of year t is given by:

change in value of reserves =
$$V_t - V_{t-1} = H_t R_t - H_{t-1} R_{t-1}$$
 (3.4)

Revaluations are the change in the value corrected for the value of additions and depletions:

revaluation =
$$H_tR_t - H_{t-1}R_{t-1} - H_tA_t + H_tq_t$$
 (3.5)

at which firms can buy that unit-that is, up to the market value. Therefore, the additional or marginal cost of finding a mineral resource should be close to its market price. Associated with this approach, however, are many of the same issues discussed above under transaction prices. For example, a particular replacement cost is relevant only for valuing deposits of comparable quality and cannot be used to value resources of another grade. This point can be illustrated using Figure 3-2. Assume that exploration is resulting in the discovery of resources of class M. The market value of this class would be a function of the difference between OP and production cost ${\tt oc_M}\,.$ It would be profitable for firms to continue exploring for such deposits until the finding costs (that is, the replacement costs) just reached the value of this class of resource. However, the replacement cost of class M cannot be used to value other classes, such as class A, which have a lower extraction cost and therefore a higher value. Because of cost differences, using class M to value classes A through L would yield an underestimate of the value of these reserves.

Net Present Value

A third valuation technique, the net present value or NPV method, entails forecasting the stream of future net revenues a mineral resource would generate if exploited optimally, and then discounting this revenue stream using an appropriate cost of capital.⁵ Under certain conditions—such as no taxes—the sum of the discounted revenue values from each time period will equal the market value of the resource. For example, assume that a 100 million-ounce gold asset generates a stream of net revenues (after accounting for all extraction and processing costs) that, when discounted at a rate of 10 percent per year, has a present value of \$1.5 billion. According to this approach, the value of the asset is taken to be \$1.5 billion. If the value of the plant, equipment, and other invested capital ultimately associated with the asset is estimated to be \$500 million, the current value of the gold reserves is \$1 billion, and their unit value is \$10 per ounce. Again, as with the previous two methods, each class of resource should be separately valued, since the stream of revenues from a higher class of resource will be greater than that from a lower class.

A special case of the NPV approach, known as the Hotelling valuation principle (see Miller and Upton, 1985), avoids the difficulties of forecasting future net revenues and then discounting them back to the present. This approach makes the strong and generally unrealistic assumption that the unit value of a resource grows at exactly the same rate as the appropriate discount rate. In the above example, this would imply that the unit value of the gold resource would grow at the discount rate of 10 percent per year; that is, the unit value would be \$10 in the first year, \$11 in the next year, \$12.1 in the following year, and so forth. Under this assumption, the present value of the resource would easily be calculated as the current period's resource price multiplied by the current physical stock of the resource. Under a further set of assumptions, such as homogeneous resources and constant extraction costs, the current period resource price is simply the current net revenue (unit price less unit extraction cost).

For example, assume that in a given year the United States has 100 million ounces of homogeneous gold reserves, that the price of gold in that year is \$350 per ounce, and that the average extraction cost is \$335 per ounce. Under the Hotelling valuation principle, the price of the gold reserves would be \$15 per ounce, and the total value of the gold assets would be calculated as \$1.5 billion. Note that it would still be necessary to deduct the value of capital from the \$1.5 billion to obtain the value of the mineral reserve. Again, for this approach to be valid, the per unit price of gold reserves (\$15 in this example) would need to grow at the discount rate appropriate for these assets.

BEA'S VALUATION OF SUBSOIL MINERALS

This section presents a more detailed description of BEA's valuation methods (as set forth in Bureau of Economic Analysis, 1994b). In the absence of observable market prices for reserves, BEA estimates mineral reserve and flow values using five valuation methods. These calculations are performed for reserves of fuel minerals (petroleum, natural gas, and coal) and other minerals (uranium, iron ore, copper, lead, zinc, gold, silver, molybdenum, phosphate rock, sulfur, boron, diatomite, gypsum, and potash) for each year from 1958 through 1991 (oil and gas figures are calculated from 1947 to 1991). In addition, aggregate stock and flow values for five mineral categories (oil, gas, coal, metals, and other minerals) are en-

^{5.} The appropriate discount rate for energy and environmental resources is debatable. See Lind (1990, 1997) , Schelling (1995) , and Portney and Weyant (1999).

tered in the appropriate rows and columns of the IEESA Asset Account for 1987. This section first examines the five methods used by BEA in estimating mineral values, along with the data they require, and then describes BEA's findings. Box 3-2 provides definitions of the symbols used in minerals accounting.

BEA's Five Basic Valuation Methods

Current Rent Method I

Current rent methods I and II are NPV methods based on the Hotelling valuation principle. The attraction of the Hotelling valuation principle is the ease with which the calculation can be performed, avoiding the need to forecast mineral prices and to assume an explicit discount factor. In both methods, the value of the aggregate stock is calculated as the net price times the quantity of reserves, where the net price is as described below. Additions or depletions are similarly calculated as net price times the quantity of additions or depletions. One of the difficulties with this approach is that the Hotelling valuation principle tends to provide a systematic overvaluation of reserves. the reason for which is discussed in a later section.

Current rent methods I and II are quite similar in construction. They differ primarily in the method of adjusting for the value of associated capital. (The algebra of the different formulas is shown in the boxes in this section.) Current rent method I (see Box 3-3) uses the normal rate of return on capital to determine the return on associated capital in the mining industry that should be subtracted from revenues. It then calculates the "resource rent per unit of reserve" by taking the net profits from mining, subtracting the return and depreciation on the associated capital, and dividing that sum (called "resource rent" by BEA) by the quantity of resource extracted during the year. The method thus yields an estimate of the unit value of the reserves currently extracted.

To calculate the total value of the mineral reserve, the current resource rent per unit is multiplied by the total reserves, in the spirit of the Hotelling valuation principle. Additions and depletions are calculated as those quantities times the resource rent per unit. Revaluations are simply the residual of the change in the value of the stocks plus depletions minus additions. It has been observed that the value of the stock can be highly volatile; this volatility is due primarily to the revaluation effect.

Box 3-3: Formulas for Current Rent Method I

total mineral reserve value_t = V_t =

$$[p_t - a_t]R_t - rR_tK_t/q_t - R_tD_t/q_t =$$

$$[p_t - a_t - rK_t/q_t - D_t/q_t] \times R_t$$
additions_t = [p_t - a_t - rK_t/q_t - D_t/q_t] \times A_t
depletions_t = [p_t - a_t - rK_t/q_t - D_t/q_t] \times q_t
revaluations_t = V_t - V_{t-1} + depletions_t - additions_t

where

 $\begin{array}{l} V_t = \mbox{value of mineral reserves} \\ p_t = \mbox{price of commodity} \\ a_t = \mbox{average cost of current production} \\ R_t = \mbox{total quantity of reserves} \\ r = \mbox{average rate of return on capital} \\ K_t = \mbox{value of associated capital}, \mbox{valued at current replacement cost} \\ q_t = \mbox{total quantity extracted} \\ D_t = \mbox{depreciation of associated capital} \\ A_t = \mbox{quantity of discoveries of new reserves} \\ \mbox{additions}_t = \mbox{value of discoveries of new reserves} \\ \mbox{depletions}_t = \mbox{value of depletions} \\ \mbox{revaluations}_t = \mbox{change in value of reserves corrected for depletions and} \\ \mbox{additions} \\ \mbox{The revaluation term is not directly calculated; it will include any errors in} \end{array}$

The revaluation term is not directly calculated; it will include any errors in calculating additions, depletions, and opening and closing stock values.

Current Rent Method II

Current rent method II is virtually identical to current rent method I. The only difference is in the method of adjusting for associated capital. The value of the associated capital is subtracted from the total value of the mineral asset to obtain mineral-reserve values in current rent method II. Again employing the Hotelling valuation approach, the total value of the mineral asset (including the value of the associated capital) is calculated as the per unit net revenue times the total quantity of reserves. The total value of the mineral reserve is then calculated as the total value of the asset value minus the value of the associated capital. The unit resource value, which is used to price additions and depletions, is just this total reserve value divided by the total quantity of reserves. This approach is defined algebraically in Box 3-4.

As is discussed below, both current rent methods have major advantages in that they are easy to calculate on the basis of data BEA currently uses in its accounts (primarily profits and capital stock and consumption data). They both suffer from the serious disadvantage that they rely on Box 3-4: Formulas for Current Rent Method II total mineral reserve value_t = V_t = $[p_t - a_t - K_t/R_t]R_t$ additions_t = $[p_t - a_t - K_t/R_t] \times A_t$ depletions_t = $[p_t - a_t - K_t/R_t] \times q_t$ revaluations_t = $V_t - V_{t-1}$ + depletions_t - additions_t where variables are as defined in Box 3.3.

the Hotelling valuation principle, thereby tending to overvalue reserves.

Net Present Value Estimates

If the basic assumptions of the Hotelling valuation principle do not hold-and there is strong evidence that they do not, as discussed below-life becomes much more complicated for national accountants. One approach that is sound from an economic point of view is to value reserves by estimating the present discounted value of net revenues. To render the present value approach workable, BEA makes three simplifying assumptions. First, it assumes that the quantity of extractions from an addition to proved reserves is the same in each year of a field's life. The quantity of depletions in any year is assumed to result equally from all vintages (cohorts) still in the stock, i.e., all vintages whose current age is less than the assumed life. Second, the life for a new addition is assumed to be 16 years until 1972 and 12 years thereafter. Third, BEA assumes that the discount rate applied to future revenues is constant at a rate of either 3 percent per year or 10 percent per year above the rate of growth of the net revenues (where the latter equals the rate of growth of the price of the resource).⁶

These assumptions lead to a tractable set of calculations. The present discounted value of the mineral stock as calculated using this present value method is simply the stock and flow values calculated with current rent method II, multiplied by a "discount factor" of between 0.86 and 0.89 for the 3 percent discount rate and between 0.63 and 0.70 for the 10 per cent discount rate.⁷

The calculated values are, then, lower than the values derived using current rent method II, with the difference depending on the discount rate employed.

Additions and depletions are then calculated in a manner similar to that used with current rent method II. The average unit reserve value is calculated by dividing the total reserve value by the quantity of reserves, and then using this unit value to value additions and depletions. Additions would be calculated as 84 percent of the value of additions according to current rent method II if the discount rate is 3 percent per year, and 59 percent of the value of additions according to current rent method II if the discount rate is 10 percent. The calculated value of depletions would be 83 percent of the value of depletions under current rent method II at a 3 percent discount rate, and 60 percent at a 10 percent discount rate.

In summary, the present value method as implemented by BEA takes the values of additions, depletions, and stocks calculated according to current rent method II and multiplies them by discount factors of between 59 and 88 percent. The reason for the discount is straightforward. Under current rent method II, which relies on the Hotelling valuation principle, it is assumed that net revenues rise at the discount rate. Under the present value approach, net revenues are assumed to rise at rates that are 3 or 10 percent slower than the discount rate applicable to mineral assets. The higher percentage is the discrepancy between the rise in net revenues and the discount rate; the lower is the discount factor. The NPV approach is shown in Box 3-5.⁸

Replacement Cost

The fourth method of calculating the value of the mineral stock is used only for oil and gas reserves. Despite its name, this approach is similar to the NPV method, not to the replacement cost method described earlier. It adopts the approach of Adelman (1990), who calculates the present value of an oil field using special assumptions. It is assumed that the production from an oil or gas field declines exponentially over time. Under the assumption that the decline rate is constant and

^{6.} According to BEA, the rates were chosen to illustrate the effects of a broad range of approaches. The 3 percent per year discount rate has been used by some researchers to approximate the rate of time preference, while the 10 percent rate has been used by some researchers to approximate the long-term real rate of return to business investment.

^{7.} At the 3 percent discount rate, the 0.86 discount factor holds for the years 1958 through 1977, with the rate edging upward thereafter as a result of commingling of reserves that were developed prior to 1973 (which BEA assumes are extracted over 16 years) with those developed in 1973 or later (for

which a 12-year life is assumed). For the 10 percent discount rate, the 0.63 factor holds for the years 1958 through 1974. In 1987, the year for which BEA calculates a more complete set of satellite accounts, the rate is 0.88 for the 3 percent discount rate and 0.69 for the 10 percent discount rate.

^{8.} As with the calculation of mineral values, the factors shown in Box $_{3-5}$ vary depending on the year of the analysis. The factors reported are those for the $_{1987}$ calculation. The factors differ in the various formulas because of the differing treatment of the timing of depletions and additions from reserves.

that the net revenue rises at a fixed constant rate that is less than the discount rate, a barrel factor is calculated. This barrel factor is multiplied times net revenue to obtain the present value of the reserves. Adelman estimates that the barrel factor is usually around 0.5. BEA does not give the barrel factor used in its calculations, which should vary by deposit and depend on the rate at which future cash flows are discounted, but we estimate that it averages approximately 0.375.

The value of the asset—calculated with current rent method II using the Hotelling valuation principle—is then multiplied by the barrel factor. The justification is that this NPV approach, unlike the Hotelling approach, takes the physical specifics of oil and gas extraction into account and accordingly adjusts the unit value of reserves downward. As with the NPV approach discussed in the last section, this adjustment accounts for the overvaluation inherent in the Hotelling valuation principle.

Once the value has been adjusted downward, BEA must again subtract the value of capital associated with the asset. With this method, the value of capital associated with each unit of existing reserves is assumed to be the current-year expenditure on exploration and development for oil and gas, divided by the quantity of oil and gas extracted during the year. This approach is loosely based on Adelman's suggestion that the value of capital associated with a unit of production can be approximated by measuring the value of capital associated with finding new reserves. The replacement cost method is shown in Box 3-6.

Transaction Price Method

When oil and gas firms desire additional reserves, they can either buy them from other firms or find new ones through exploration and development. In the absence of risk, taxes, and other complications, the transaction price of purchasing new reserves should represent the market value of those reserves. For this reason, according to BEA, "if available, transaction prices are ideal for valuing reserves" (Bureau of Economic Analysis, 1994b:57).

In fact, transactions in reserves are few and far between outside of oil and gas, and even in oil and gas suffer from problems discussed above. To estimate transaction prices, BEA derived prices from publicly available data on the activities of large energy-producing firms for the period 1977 to 1991. The gross value of reserves was estimated by dividing expenditures for the purchase of the

Box 3-5: Formulas for Net Present Value Method

total mineral reserve value $_{t@3}$ percent discount rate = $0.88 [p_t - a_t] R_t - 0.88 K_t$ total mineral reserve value $_t@10$ percent discount rate = $0.69 [p_t - a_t] R_t - 0.69 K_t$

additions_t@ 3 percent discount rate = $0.84 [p_t - a_t - K_t/R_t] \times A_t$ additions_t@ 10 percent discount rate = $0.59 [p_t - a_t - K_t/R_t] \times A_t$

depletions_t@ 3 percent discount rate = $0.83 [p_t - a_t - K_t/R_t] \times q_t$ depletions_t@ 10 percent discount rate = $0.60 [p_t - a_t - K_t/R_t] \times q_t$

 $revaluations_t = v_t - v_{t-1} + depletions_t - additions_t$

where variables are as defined in Box 3-3.

Note: The numerical values in this box apply to 1987. As explained in the text, slightly different values will apply for different years.

Box 3-6: Formulas for Replacement Cost Method total mineral reserve value $t = V_t = \{0.375[p_t - a_t] - Z_t/q_t\}R_t$ additions $t = \{0.375[p_t - a_t] - Z_t/q_t\} \times A_t$ depletions $t = \{0.375[p_t - a_t] - Z_t/q_t\} \times q_t$ revaluations $t = V_t - V_{t-1}$ + depletionst - additionstwhere Z_t = value of exploration and development expenditures in year t, and other variables are as defined in Box 3-3.

Box 3-7: Formulas for Transaction Price Method total mineral reserve value_t = V_t = $(TV_t/TQ_t - K_t/R_t)R_t$ additions_t = $(TV_t/TQ_t - K_t/R_t) \times A_t$ depletions_t = $(TV_t/TQ_t - K_t/R_t) \times q_t$ revaluations_t = $V_t - V_{t-1}$ + depletions_t – additions_t where TV_t = value of reserve transactions, and TQ_t = total quantity of reserves transacted, and other variables

rights to the proved reserves by the quantity of purchased reserves. The result was then adjusted for associated capital using the same method as

are as defined in Box 3-3.

in current rent method II. The transaction price method is shown in Box $_{3-7}$.

Data Requirements

On the whole, the five valuation methods used by BEA are relatively parsimonious, and therefore the data requirements are not unduly burdensome. For quantity data, only reserves are considered, so the quantities of mineral stocks are easy to obtain. Most of the data required for valuation under the five methods either are already used by BEA in their construction of the NIPA or are publicly available or available at a modest cost from private sources. Constructing the accounts for subsoil minerals, therefore, required no independent data collection or survey by BEA. Nevertheless, there is no single consolidated source for the data needed, and considerable effort was expended by BEA staff in collecting the data.

Preliminary Results

The first set of estimates in the IEESA contains many important and useful conclusions. We highlight some of the key findings in this section.⁹

The calculations present a number of interesting findings for the overall economy. All five evaluation methods indicate that the value of the stock of oil and gas reserves in the United States exceeds the value for all other minerals combined. For all subsoil minerals, the calculated value of reserve additions has approximately equaled the value of depletions over the 1957–1991 period. Consequently, the value of reserves (in constant prices) has changed little during the reporting period. BEA finds that the value of the mineral component of a mineral asset is about 2 to 4 times the value of the associated capital, so the value of the mineral makes up 67 to 80 percent of the total value of any mineral asset.

The results are also helpful in understanding returns to capital of U.S. companies. Standard rate-of-return measures include profits on mineral assets in the numerator, but exclude the value of mineral reserves in the denominator. Gross rates of return for all private capital decline from 16 percent per year if mineral reserves are excluded to 14–15 percent if mineral reserves are included. BEA does not present net returns, however. Because net post-tax returns on nonfinancial corporate capital have averaged around 6 percent per year over the last three decades, our estimate of the profitability of American corporations would be significantly modified if the 1–2 percentage point decline in the gross return carried over to the net return.

In quantity terms, the physical stock of aggregate metal reserves has tended to decline over time, while the physical stock of coal reserves has increased. Quantities of oil, gas, and industrial minerals ("other minerals" in BEA's five broad categories) have remained stable. Revaluations have tended to be positive primarily because the prices of most subsoil minerals have risen over the period under investigation.

BEA estimates the value of the nation's stock of mineral reserves, after deduction of associated capital, to be between \$471 billion (current rent method I) and \$916 billion (current rent method II) for 1991; this figure amounts to between 3 and 7 percent of the value of produced assets (existing produced structures, equipment, and inventories). Current rent method II yields the highest stock and flow values for all mineral types. Current rent method I yields the lowest values for coal, metals, and other minerals, while the transaction price method yields the lowest value for oil, and the replacement cost method yields the lowest value for gas. (Recall that these last two methods are used only for oil and gas.) Given the algebra of the different valuation techniques, it is not surprising that the replacement cost method yields lower values than the current rent methods for gas since the replacement cost method is really current rent method II multiplied by 0.375.

One important question concerns the impact of including subsoil minerals in the overall national accounts. In 1987, the year for which BEA presents the IEESA asset accounts, the calculated value of reserve additions roughly offsets reserve depletions, so including mineral assets in the NIPA for that year would not substantially alter the estimate of the level of net domestic product (NDP). It would, however, increase the level of gDP by between \$17 and \$65 billion (0.4 to 1.4 percent of GDP), depending on the method used to value reserve additions. The only year in which the mineral accounts would have a substantial impact on the growth of real GDP or NDP is 1970, the year Alaskan reserves were added. Box 3-8 shows the calculations of real GDP (in 1987 prices) with and without mineral additions for that year. The large surge of oil reserves erases the recession of 1970 and leads to a downturn in growth in 1971. While this kind of volatility is unique in the period analyzed by BEA, it does indicate that in-

^{9.} These findings are presented in Bureau of Economic Analysis (1994b) and summarized in Table 4-1 in Chapter 4 of this report.

Box 3–8: Growth in Real Gross Domestic Product and Net Domestic Product With and Without Mineral Additions ^a							
	(1)	(2)					
	Conventional GDP	GDP with Mineral Additions					
1969	2.72	2.37					
1970	0.03	3.14					
1971	2.85	-0.08					
	(3)	(4)					
	Conventional NDP	NDP with Mineral					
		Additions and Depletions					
1969	2.53	2.13					
1970	-0.40	2.98					
1971	2.71	-0.48					

^a Percent per year.

Source: Conventional GDP and NDP in 1987 prices were calculated by BEA (*U.S. Congress Economic Report of the President, 1995*). GDP with mineral additions was calculated based on data in columns (1) and (3) and estimates of mineral additions and depletions from Bureau of Economic Analysis (1994b:60). Mineral additions and depletions in this calculation rely on current rent method I.

troducing minerals into the accounts might lead to large changes in measured output that would reflect primarily changes in mineral reserves.

EVALUATION OF BEA'S APPROACH

This section evaluates the methodology of BEA'S preliminary approach to accounting for subsoil minerals. We begin with the advantages of the approach and then review some issues and concerns.

Advantages

Feasibility

Phase I of BEA's plan for extending the national accounts to include supplemental mineral accounts is now complete. In accordance with the recommendations of the United Nations System of National Accounts (SNA), BEA limited the focus of Phase I to mineral reserves. This is probably the simplest of the natural-resource sectors to include because the output is completely contained in the current national accounts and involves primarily estimating and valuing reserve changes. The data, although obtained from various sources, are publicly available from the (former) Bureau of Mines, the U.S. Geological Survey, the U.S. Department of Energy, and the Bureau of the Census. Some minor adjustments of the data were needed in cases where the definition of reserves changed over time.

BEA began this work in 1992 and completed it in April 1994. Given the late start and limited resources of the U.S. natural-resource accounting effort, along with the sparsity of observable market prices with which to value mineral additions, depletions, and stocks, the progress made by BEA to date is remarkable. Furthermore, the task was completed by a group of eight BEA officials working part time on this assignment while continuing with their regular duties. The result is a partially completed satellite account that fits into the current definitions of the U.S. NIPA and can be readily prepared in a short amount of time. BEA's approach is therefore clearly feasible and relatively inexpensive.

Consistency with Other Valuation and Accounting Frameworks

BEA treats mineral additions in parallel with other forms of capital formation. In this respect, the U.S. accounts differ from the System of Integrated Environmental and Economic Accounting (SEEA), an alternative satellite accounting system proposed by the United Nations. In both accounting systems, depletions are treated as depreciations of the fixed capital stock. Under the SEEA, however, additions are not included as income and do not appear in the production accounts as capital formation.

In calculating GDP, the SEEA considers as capital formation only investments in "made capital" and not mineral finds, treating discoveries as an "off-book" entry. This approach avoids the volatility associated with mineral finds, which, if included in GDP, makes GDP a volatile series (see Box 3–8). BEA, on the other hand, treats mineral assets on the same basis as fixed capital. For example, according to BEA calculations, booking the exceptional Alaskan oil finds in 1970 augmented the existing stock of U.S. oil assets by nearly 50 percent, or almost \$100 billion in 1987 prices, despite exploration investments on these reserves that were only a fraction of this amount. Including the increase in mineral reserves in private investment would have increased gross investment by 26 percent in 1970 and would have increased net investment by 42 percent. As is seen in Box 3-8, the trend in real nonminerals GDP growth would have been seriously distorted, wiping out the 1970 recession and causing an apparent recession in 1971. Thus, while including mineral additions as capital formation treats made and natural capital augmentations in a parallel fashion, the aggregate GDP series may become more volatile and may

not accurately reflect movements in production and employment.

A second concern with treating mineral additions as capital formation is that the two do not necessarily have the same effect on the economy. In particular, when fixed capital is added to the capital stock, payments have been made to the factors of production involved in producing the capital. Mineral-stock additions, in contrast, reveal themselves as increases in land value, which are balance sheet adjustments rather than payments to factors of production. It is for this reason that the United Nations SEEA approach omits additions from net investment in the production accounts and introduces a reconciliation term in the asset accounts to capture additions.

Finally, it has been argued by some that mineral stocks are inventory and should be treated as such in the NIPA. BEA chooses to treat mineral stocks as fixed capital, suggesting that, just as with produced fixed capital, expenditures of materials and labor are needed to produce these mineral assets, which in turn yield a stream of output over an extended period of time. The treatment of mineral stocks then becomes consistent with the treatment of traditional capital in the NIPA. Of course, the concept of a satellite account allows individual policy researchers to take the information in these accounts and make their own adjustments to the NIPA. The BEA approach is just one potential way of treating natural capital formation and depletion.

In terms of valuation methodology, the BEA approach is consistent with current mineral asset valuation theory.

Utility

BEA presents an IEESA Asset Account and an IEESA Product Account that supplement the NIPA. Researchers, businesses, and policy makers can use the satellite accounts to adjust output and income measures as they see fit, focusing on any or all of the five valuation methods used by BEA. Moreover, BEA presents separate entries for five types of mineral assets, including three types of fuels, and an aggregate mineral category.

This level of detail makes the satellite accounts useful to policy makers who wish to focus on particular mineral issues. The data on the value of mineral stocks, additions, depletions, and revaluations (the residual) are given annually for the 1947–1991 period for oil and gas (the two most important mineral groupings in terms of total stock value) and from 1958 to 1991 for the other three mineral groupings. The constant (1987) dollar figures for the aggregate mineral stock show a price-weighted index of the stock, as well as of additions and depletions to the aggregate, and are useful for determining whether the aggregate price-weighted quantity of U.S. mineral reserves is changing over time. One of the important findings from the BEA data is that the index of the total constant-price stock of mineral assets has been approximately constant from 1957 to 1991. This implies that the nation has on average replaced reserve depletions with an equivalent quantity of reserve additions (or, more precisely, quantities of reserve additions and depletions of different minerals weighted by 1987 prices).

Issues and Concerns

BEA's approach to calculating mineral stock and flow values raises a number of issues related both to measurement problems and to conceptual concerns with the individual valuation techniques. Some of these issues are intrinsic to any accounting approach in which data on prices or quantities must be imputed or constructed, while other issues arise for particular methodologies. The major issues are reviewed here.

Heterogeneity of Reserves

major problem with most accounting А approaches is that they assume all reserves are homogeneous in terms of grade and costs. For example, under the Hotelling valuation principle, average extraction cost should be calculated as the average cost of extraction from all reserve classes. In practice, most techniques use the extraction cost of currently extracted reserves. The reality is that a nation's reserves are not all in one cost class. It has already been noted that reserves are likely to exist in a number of classes, ranging from high quality (low cost) to low quality (high cost). Resource accounting, such as that in the current IEESA, generally treats the entire national stock as one heterogeneous deposit whose value is calculated by multiplying the average unit value of that reserve by the quantity of the reserve.

An example will illustrate the issues raised by resource heterogeneity. Suppose that a nation owns 100 million ounces of subsoil gold reserves whose total value is \$1 billion, for an average unit value of \$10 per ounce. In a given year, the nation extracts 1 million ounces, with no additions, and the value of the remaining reserves with unchanging gold prices is \$989 million. Accordingly, the depletion is measured at \$11 million, with an average value of \$11 per ounce extracted. This pattern is typical of many extraction profiles in which the lowest-cost and highest-value resources are extracted first.

Note that the correct depletion charge is the value of the extracted ore times the quantity extracted, for a total of \$11 million. If we were instead to use the average value of the ore of \$10 per ounce to value depletion, we would be underestimating depletion at \$10 million rather than \$11 million. Moreover, if we used the value of the extracted reserve to value the remaining reserves of 99 million ounces, we would incorrectly value reserves at 99 x \$11 = \$1089 million, rather than the correct \$989 million. This example shows that with reserve heterogeneity, using the average reserve value to estimate depletion is likely to understate depletion, while using the value of the extracted resource to value remaining reserves is likely to overstate the value of reserves.

This example is useful because common practice in constructing national resource accounts, and one of BEA's approaches, uses the average value of the extracted resource to value the entire reserve stock. Nor can average costs from current production be used to calculate the net present value of additions. Because of the random quality of additions, it is not possible to determine whether additions will be undervalued or overvalued using these cost data. Heterogeneity of reserves poses problems for the transactions approach because transaction values need not reflect the average value of the total reserves, as those parcels of reserves sold in any one period may have a quality above or below the average. All these problems of heterogeneity are particularly severe for metals, because there is a clear tendency for ore grades to fall over time. The issue is less clear for petroleum because new findings may have lower cost than current production, but the general trend in petroleum has been for lower finding rates per unit drilling.

Putting the point differently, the difficulty in valuing the stocks and flows arises because the prices of reserves are not readily available. Although the commodities, such as gold and oil, trade frequently, the underlying assets tend to trade infrequently. There is no organized market for oil or gold properties, and there is such great heterogeneity in these assets that there is no standard for classifying them as there is for oil or gold (in terms of sulfur content, purity, and the like). When reserves are transacted, the prices are not generally publicly available, which means the reserve prices are generally not observable. A further difficulty is that the tendency is to observe the value of the total bundle of assets and liabilities (reserves, associated capital, environmental liabilities, royalty and tax obligations, and so on), so that even if the transaction price were observed, the price of the mineral reserve could not readily be determined. All these complications mean that the values of reserve stocks, additions, and depletions—which are essential for the construction of national accounts for subsoil assets by BEA and other statistical agencies—must be estimated using the relevant economic and financial theories of valuation.

In principle, the heterogeneity problem could be overcome by calculating reserve values for each reserve class and then aggregating across reserve classes. This approach is likely to be quite costly, and extraction data may not be available for all reserve classes, particularly those not yet being exploited. However, since these disaggregated calculations are not undertaken by BEA, its estimated values for the total reserve stock are likely to be too high for many of the minerals.

If in fact the lowest-cost and highest-value reserves are extracted first, the use of extraction costs from current depletion will provide a biased estimate of reserve values. All of the BEA valuation methods except the transaction cost method use an inappropriate measure of reserve values based on the cost of current extraction. Although BEA does not report total mineral asset and mineral resource values separately, the estimation bias in the asset value will flow through to the calculation of the mineral value that BEA does report in Table 1, rows 36 through 41 (Bureau of Economic Analysis, 1994a). The result will be an upward bias in the mineral-resource values calculated with current rent method II. Whether this bias carries through to the calculation of mineralresource values in the other calculation methods is unknown since, as discussed below, the deductions for capital may be too high or too low with the other approaches.

A similar problem arises in valuing reserve additions, since BEA assumes they have the same characteristics as current depletions. Consequently, if the quantity of additions equals the quantity of depletions, the value of additions will equal the value of depletions, even though the grade of reserves may be quite different for depletions and additions. BEA's approach is likely to overvalue additions. With the best deposits extracted first, additions are likely to be of less value than current depletions. This discrepancy will affect the IEESA production account since with a lower value for additions, the adjusted GDP and NDP figures will be lower. The discrepancy also introduces a downward bias into the revaluations of minerals because of the overstatement of additions.

Measures of Resource Quantities

Although most of the issues in minerals accounting involve valuation, issues involving the quantity of reserves or resources are also important in a few areas.

The first of these issues relates to the comprehensiveness of the resource base considered by BEA. In constructing product and asset accounts, one is concerned with valuing the stock of the nation's mineral resources and estimating changes in the value of the stock due to depletions, additions, and revaluations. These quantities are measured with considerable un-An important issue here (as it is certainty. throughout the federal statistical system) is developing measures of accuracy, both for satellite accounts and the main accounts. Mineral resources other than reserves are often unknown or not well established and thus are also quite difficult to measure with any accuracy. In all cases, even where quantities are known, their value is not easily calculated. For example, resource class N in Figure 3–2 has an average current extraction cost above price; thus, according to the Hotelling valuation principle, its value is zero. All resources other than reserves (classes N and above in Figure 3-2) are assigned zero value. For both practical and economic reasons, BEA considers only reserves in its IEESA. Hence, BEA's asset account includes a blank row for measures of stocks and of additions to and depletions from unproved subsoil assets. Yet these nonreserve resources are likely to have some positive market value because of their option value.

A related flaw in the BEA preliminary accounting framework is that current additions to reserves produce no compensating depletion of nonreserve resources. Yet every ton of reserves comes from nonreserve resources. If nonreserve resources have economic value (as they certainly do in the case of many oil and gas properties), the result will be an upward bias in the current estimates of net capital formation (additions minus depletions) in mineral resources. The failure to consider nonreserve resources means that additions to, as well as depletions from, different categories of nonreserve mineral assets are ignored. For example, adjacent drilling may lead to moving a resource from the speculative to the hypothetical category or from an inferred submarginal resource to a demonstrated subeconomic resource (see Figure 3–1). Proven reserve quantities sometimes change dramatically because previously uncertain nonreserve resources are found to be economic (e.g., Alaskan oil). Because the option values of different grades will differ, the overall bias in mineral capital formation could be in either direction. The basic problem again is valuing nonreserve resources. BEA intends ultimately to include unproved resources as a part of nonproduced environmental assets.

It is recognized that current estimates of mineral capital formation are incomplete and likely to be biased. BEA correctly notes that an operational methodology for valuing these nonreserve resources is not yet available. As with reserves, market prices based on resource transactions are not widely available, especially outside of oil and gas, and unit prices must be deduced using related economic series. Economists are currently involved in developing methods for valuing such resources. However, official natural-resource accounting procedures have without exception omitted nonreserve mineral assets. Fortunately, the omitted value may not be great.10

A final issue is that BEA values only a subset of U.S. mineral reserves. Omitted are several heavily mined industrial minerals such as sand and gravel, which may have small scarcity or Hotelling rents because of their superabundance but Ricardian rents because of their location. In production terms, BEA considers minerals that made up 77 percent of the value of mineral and energy production in the United States in 1970, a year in the middle of the available time series (Bureau of Mines, 1972). The BEA series is incomplete, but it values the most important mineral reserves, at least in terms of production value, in the United States.

Measurement of Associated Capital

Accounting for minerals poses serious issues of jointness of value of the mineral resource

^{10.} Kilburn (1990) suggests that the value of metalliferous ores in unexplored land is sCanadian 400 per 16.3 hectares. This equates to \$u\$ 7 per acre. Maintaining mineral claims in the United States requires an annual payment of \$5 per acre, which, at a discount rate of 10 percent per year, equates to a net present value of \$50 per acre. Hence, unexplored leased land with some indication of mineral potential would appear to have a market value of at least \$50 acre. If 100 percent of the 387,000,000-acre U.S. land mass is mineable in the future (an obvious overestimate), the current value of subsoil mineral resources other than reserves is on the order of \$19.4 billion at \$50 per acre. Even when allowance is made for energy resources and industrial minerals and offshore petroleum potential, the total present value of resources, other than reserves, is unlikely to exceed \$100 billion. BEA calculates a current reserve stock value of some \$700 billion.

and the associated capital. Because these are complementary factors, dividing the total value between capital and minerals is difficult and involves somewhat arbitrary accounting conventions. Similarly, when minerals are extracted, the value of the existing mineral asset diminishes. Some of the decreased value is depreciation of capital, while some is depletion of the mineral reserve. The total depreciation in asset value due to extraction must be apportioned between the two in resource accounting. With capital depreciation being determined by guidelines that apply to capital more generally, the residual loss in value is then applied to depletion (see Cairns, 1997). The only rules that apply are that total depletions over the life of the asset must sum to the value of the resource, and the total depreciation over the life of the asset must sum to the value of installed capital. Hence in an accounting framework that must separate depletion from depreciation on an annual basis, the depletion numbers are based arbitrarily on the depreciation schedule chosen, being less than the total decrease in the value of the asset, but greater than zero. One comforting factor, however, is that although the breakdown in value or change in value between the capital component and the minerals component is somewhat arbitrary, this affects only the composition of the depletion and depreciation values and not the total asset value.

Once the value of a mineral asset has been calculated, the value of associated capital must be deducted to produce the mineral-reserve value. Only current rent method II and the transaction price method deduct associated capital appropriately. Because the value of the asset is likely to be overestimated through use of the Hotelling valuation principle, current rent method II will nevertheless tend to overvalue the stock of mineral reserves. Setting aside issues of heterogeneity and assuming that appropriate corrections are made for associated assets and liabilities, the transaction price method is the only method that in principle can provide unbiased estimates of the mineral value.

Current rent method I deducts depreciation and the gross return for capital per unit of extraction from gross price (see Box $_{3-3}$). Since one does not know whether this subtraction is more or less than the subtraction under current rent method II, one cannot say whether the calculated value of mineral-resource value using current rent method I will be too high or too low, even given its upward bias in the calculation of the total asset value due to use of the Hotelling valuation principle. In the case of the metals category, however, current rent method I gives negative values for the stock of metal reserves in the 1980s, which are clearly biased downward. It appears, then, that with current rent method I, the upward bias in measurement of total asset value due to use of the Hotelling valuation principle is outweighed by an excessive deduction for associated capital.

As noted in the previous section, the NPV method deducts some fraction of the value of associated capital. Doing so would make sense only if the value of the associated capital were thought to be less than its replacement cost. On average, one would expect the value of the associated capital to equal its replacement cost. The deduction for capital cost under the replacement cost method (see Box 3–6) also will generally not reflect the value of associated capital.

BEA includes exploration and finding costs as part of associated capital and then deducts these costs as part of the capital costs when valuing mineral reserves. This practice raises the question of what BEA is actually trying to value. If, for example, a gold deposit before the installation of any development expenditures or physical capital can be sold for \$10 million dollars, some would suggest this is the value of the mineral reserves. BEA subtracts past exploration costs from this figure, and thus would value the mineral component of the property at less than \$10 million. The former approach values the asset as a "gift of nature," while BEA values it as the product of previous human endeavor and charges the stock account with the cost of moving the mineral from the resource to the reserve category.

Early models of mineral value suggested that depletion can be calculated as current net revenue less capital depreciation less a return to capital, and BEA follows this approach with current rent method I. Subsequent research, however, has shown that this approach overestimates depletion (Cairns, 1997; Davis, 1997). As a result, estimates of depletion with current rent method I are too high, perhaps by as much as half. The depletion calculations with each of the other methods. including current rent method II, do not conform to any known depletion formulations, and the level or direction of measurement bias cannot be determined. Nevertheless, the panel's review indicates that the depletion calculations with current rent method I represent an *upper bound* on depletion. Moreover, according to Cairns (1997) and Davis (1997), depletion can be appropriately calculated if one takes depletion as estimated by

current rent method I (that is, current net revenue less capital depreciation less a return to capital) and subtracts from this amount a return to the mineral resource.¹¹

Production Constraints and the Hotelling Assumptions

As noted earlier, current rent methods I and II calculate total asset values based on the Hotelling valuation principle, which assumes that producers face no production constraints and that the net price rises at the rate of interest. In general, producers do face production constraints, and net prices rise at less than the rate of interest. The Hotelling principle is used as a valuation tool because of its extreme simplicity; yet, as discussed above, it has been shown both theoretically and empirically to substantially overvalue mineral reserves. Cairns and Davis (1998a, 1998b) and Davis and Moore (1997, 1998) demonstrate that asset values calculated using the Hotelling principle tend to be up to twice the market values. Thus caution is necessary in using this approach to provide asset or mineral-resource values.

Because of the potential for overvaluation using the Hotelling valuation principle, BEA uses the NPV method to adjust the stock estimates from current rent method II downward. For purposes of the present discussion, BEA's approach is termed NPV variant I. As shown above in Box 3–5, this method takes the current rent method II stock values and adjusts them downward by 12 and 31 percent using the two assumed discount rates.

The replacement cost formula is based on a model that does not require the strict assumptions of the Hotelling valuation principle and implicitly takes into account the capital constraints on oil and gas production (see Cairns and Davis, 1998a). Therefore, given the appropriate value for average costs, the model is likely to yield an accurate estimate of asset values. There has been no empirical verification of Adelman's replacement cost rule for valuing the associated capital, however, so it is not possible to judge the accuracy of the BEA method for deducting the value of associated capital to obtain the value of a mineral resource. BEA might, however, consider an alternative approach (termed here replacement cost variant II) that would subtract the replacement cost of capital from the asset value as in current rent method II, rather than the value of exploration and development expenditures.

Royalty and Severance Fees

The transaction price approach has the potential to yield reasonable mineral-reserve values since it is based on observed market prices that in principle account for production constraints, market discount rates, actual reserve quality, and other factors that affect the value of mineral reserves. As noted elsewhere, however, the market value of an asset depends on the liabilities attached to the asset. In the case of minerals, production often incurs royalties, severance fees, and taxes payable to third parties as production proceeds. These and other liabilities attached to current and future production reduce the observed market value of the reserve and are deducted from the asset value by the purchaser during a reserve transaction. Thus, the observed transaction value does not represent the value of the reserves. but the value of a bundle of financial and real assets and liabilities, of which the reserves are one aspect (a point illustrated above in Box 3-2).

The treatment of these costs is not clear in BEA accounts. It appears that royalty and severance taxes are included in the unit costs used to calculate net rent in valuation methods other than the transaction method for oil and gas. This treatment is inconsistent with that under BEA's transaction price method, whereby no adjustment is made for the present value of taxes and royalties. In both cases, the pre-tax-and-royalty value of the resource will be underestimated by BEA's methods.

Revaluation

Revaluation effects are an additional element of natural-resource accounting and some other augmented accounts that are not present in the current U.S. NIPA. As discussed earlier, changes in the value of reserves are composed of additions, depletions, and revaluations (see equation 3.5 in Box 3-2).

For a simple gold-reserve case, revaluations enter the equation when reserve values adjust during the accounting period to reflect unexpected price changes. For example, suppose the average price of the existing gold-reserve stock is \$10 per ounce at the start of the year, then jumps to an average of \$20 per ounce on December 31. The revaluation equation becomes: revaluations (\$1 billion) = closing stock value (\$2.019 billion) - opening stock value (\$1 billion) – additions (\$30 million) + depletions (\$11 million). This example shows that revaluations are calculated as a residual—the change in the value of the stock

n. In mathematical terms, depletions_t = $[p_t - a_t - r_t K / q_t - D_t / q_t - rV_t / q_t] x q_t$, where the variables are as defined in Box 3-3.

through price changes that are not taken into account in the depletion and addition calculations. Given the volatile nature of mineral prices, the revaluation component is substantial, often larger than additions or depletions. Yet the revaluation term is not directly calculated; it will include any errors in calculating additions, depletions, and opening and closing stock values.

Mineral-stock revaluations caused by unexpected changes in unit prices for reserves are calculated by BEA as a residual, and therefore are also affected by the capital depreciation schedule chosen. In the BEA data, mineral-stock revaluations are usually greater than either reserve additions or depletions, implying that most mineral wealth creation or loss comes not from additions to or depletions of the mineral-reserve base, but from large mineral price changes. Several resource economists have suggested that these revaluations are important indicators of economic welfare and should be considered equivalent to investment (gross domestic capital formation).12 For example, a small nation could in principle sell its mineral assets to a foreign producer, and hence an upward revaluation of its assets would create wealth and higher sustainable consumption for the nation. BEA does not include revaluations in the gross domestic capital formation column of its IEESA Production Account and thereby ignores this aspect of sustainable national income.

Short-Run Volatility in Price

Where the value of a mineral asset is a function of the current extracted mineral price, as in current rent methods I and II, the NPV method, and the replacement cost method, short-run volatility in mineral commodity prices makes the value of the stock of mineral assets itself a volatile series. To the extent that price movements are temporary excursions from long-run levels, these changes in stock value will show up as revaluations. Current measures of national saving do not include revaluation effects, but future measures might do so. It should be noted that the revaluation effects in mineral assets pale in comparison with the revaluation effects from security markets.

In addition, the depletion calculations depend in part on current prices and will also be affected by price volatility. For example, consider an economy that is running down its mineral reserves at a constant rate, with no reserve additions. Depletion values will depend on current mineral prices. If nominal mineral prices increase sharply in a given year, the depletion charge will also rise sharply.

The dependence of additions and depletions on current mineral prices will affect the current value or nominal value of augmented GDP if minerals are included. Sharp changes in mineral prices could also lead to a significant change in the augmented-GDP deflator or chain-weighted price index. The volatility of prices would not lead to volatility in the constant-price or chainweighted indexes of real output under current concepts applied in the U.S. national accounts, but it would affect those measures of sustainable income that include elements of revaluation. These effects will necessitate considerable care in interpreting movements in GDP and its components if additions and depletions are to be added to the core GDP accounts.

BEA mitigates problems of price volatility by arbitrarily using annual prices averaged over 3 years. In addition, quantity additions and depletions are in most years nearly offsetting; thus, given BEA's approach of valuing additions at the same unit price as depletions, price fluctuations will have little impact on adjusted NDP figures. Price fluctuations do impact the stock revaluations column, but these data are not currently used in current accounting measures.

Scarcity and Long-Run Price Trends

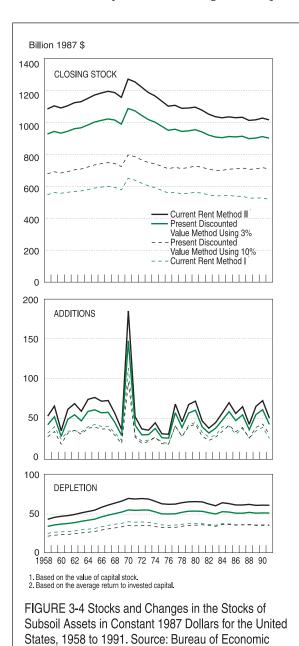
One possible use of a series showing the change in quantity and value of a nation's stock of minerals is for assessing trends in mineral scarcity. In quantity terms, increasing scarcity might be reflected in a declining constant-dollar stock of mineral resources or of some component of mineral resources. On this front, BEA is developing a constant-1987-price series for mineral stocks, shown in Figure 3–4, that is equivalent to a physical quantity series, aggregated across different mineral types on the basis of 1987 mineral prices. This graph shows that the stock of mineral assets as a whole has been roughly constant over the 1958–1991 period. This finding might be interpreted as indicating that additions have offset depletions and that concerns about the United States running out of oil and other minerals are unfounded. Figure 3–5 shows the value of stocks and changes in current prices (from Bureau of Economic Analysis, 1994b).

The constant-price stock has limited utility as an indicator of natural-resource scarcity, however. Depletion of a physical resource indicates nothing about scarcity if that commodity is

^{12.} The issue of inclusion of revaluation in income is considered in Chapter 2.

becoming worthless to society, since its disappearance will have no economic consequences. (In this respect, even chain-price indexes will not produce improved indicators.) Stock measures are particularly questionable indicators for commodities that are heavily involved in international trade, which includes all major mineral commodities. For example, many countries have seen the economic value of their domestic coal stocks decline, primarily because of the availability of low-cost coal on the world market, but this is not taken as an indicator of coal scarcity.

Relative price is usually a better index of economic scarcity, with increasing relative prices



Analysis (1994b:Chart2).

indicating that a unit of the particular asset is becoming more valuable to society, and hence more scarce, relative to other assets.¹³ Thus a mineral reserve's unit price is an indicator of its value to society. Increasing scarcity would be indicated by rising average reserve prices relative to other prices; for example, one might compare the relative prices of reserves and consumption goods and services or the ratio of reserve prices to the prices of other inputs, such as wage rates. These scarcity indices are not currently presented in satellite accounts. BEA does not report unit prices for reserves, and thus it is difficult to determine the implications of its findings for trends in mineral scarcity. If scarcity indicators are desired, deflated per unit prices for each type of mineral reserve should be presented.

Data Availability Issues

Although BEA's valuation methods require limited data, all may suffer from potentially significant measurement error. For example, while the replacement cost method of valuing oil and gas reserves is conceptually appropriate, it requires an estimate of the value of associated capital that cannot be measured directly and must be estimated through current exploration and development expenditures. There is no indication that this estimate, as proposed by BEA, has any empirical validity. The transaction price method is also conceptually correct, but one must make adjustments to the transactions, as listed in Box 3-2, to obtain the reserve value. The necessary data may not be available for each transaction, causing the method to lose its appeal. The current rent methods, once correctly formulated to take production constraints into account, will require average cost data that are not always observable in markets.

Other Issues

Whenever asset valuation requires discounting of future cash flows, as is the case in the valuation of mineral stocks, questions arise as to the appropriate discount rate. Finance theory offers some theoretical guidelines, but practical implementation is difficult. The popularity of the formula based on the Hotelling valuation principle derives in part from the fact that it does not require a discount rate, but this advantage comes at the cost of an implausible assumption about the increase in net mineral rents. In constructing present

^{13.} Measures of resource scarcity are reviewed in Fisher (1981: Ch. 4).

value estimates, it is difficult to justify the extremely low real discount rate of 3 percent per year used by BEA if the purpose of the estimates is to determine the market value of the reserves.

All NPV techniques, which include both current rent methods and the replacement cost method, omit asset value that is created by managerial flexibility (see Davis, 1996). With mineral assets, the ability to alter extraction as prices move up or down can create significant option value, especially for marginal deposits. Of the valuation techniques used by BEA, only the transaction approach includes these option values, since they will be included in the observed asset price.

BEA's results show clearly the potential margin for error among the various techniques, for they yield widely different estimates. In some cases, the net change in the value of reserves (additions minus depletions) even has a different sign under different valuation techniques. All of this suggests that correctly accounting for mineral stocks and flows in a set of satellite accounts will be just as intensive an accounting exercise as current accounting for the stocks and flows of produced capital in the NIPA.

OTHER APPROACHES AND METHODOLOGIES

Efforts in Other Countries

Mineral accounts are currently constructed by many countries. The current rent and discounted present value valuation approaches used by BEA to calculate resource stock and flow values are similar to those employed in other countries, with current rent method I being used most widely. The shortcomings of this approach were discussed earlier. Other countries assume that the current rent, after a return to capital is deducted, represents the current unit price of all reserves; they then calculate the present value by discounting the projected rent using an arbitrary discount rate. Again, as noted above, this is an unrealistic method of pricing reserve stocks or flows.

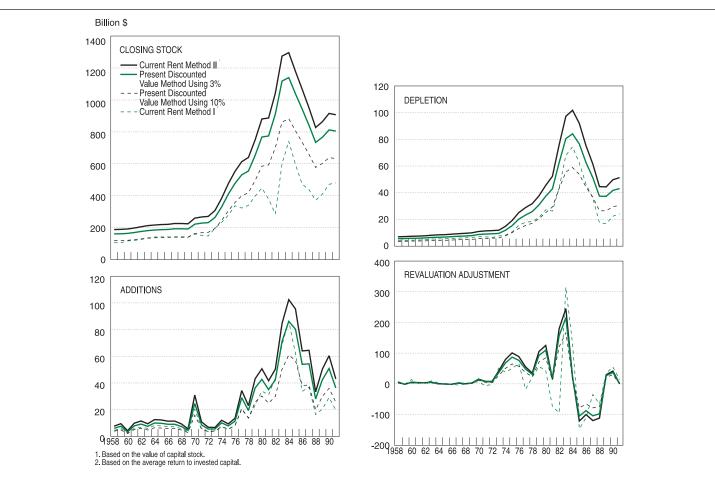


FIGURE 3-5 Stocks and Changes in the Stocks of Subsoil Assets in Current Dollars for the United States, 1958 to 1991. Source: Bureau of Economic Analysis (1994b:Chart 1).

Although BEA estimates only a set of monetary accounts, most other countries compute both physical and monetary accounts for reserves. In Europe the most important minerals are oil and gas under the North Sea. Indeed, the discovery of these resources and the economic-policy problems they created led Norway to pioneer the development of resource accounting in the 1970s. Most other minerals appear to have a market value barely in excess of production costs, and hence the valuations applied to subsoil assets result in a very small value for the stocks and depletion. In Canada and Australia, however, other minerals have a significant economic value.

Coverage

The types of minerals covered in studies for other countries are similar to those covered in the IEESA. Most countries tend toward a slightly broader definition of reserves: instead of the "proven" reserves included by BEA (those that are currently known to be commercially exploitable at today's prices and technology), other countries often include "probable" reserves (defined as those having a better than 50 percent chance of being commercially exploitable in the future). Canada and Norway distinguish between "developed" or "established" and undeveloped reserves. This distinction is useful for assessing options for the future schedule of extraction. The distinction is also necessary when applying current rent method II, under which the value of associated fixed capital is deducted from the value of the reserve, and which therefore applies properly only to those reserves for which all fixed capital needed to extract the reserves is already in place.

The minerals covered by studies for other countries include oil and gas, coal, and a selection of metal ores, depending on what appears important in a given country. Hence Canada includes about 8 basic metals, while Australia values nearly 30 minerals, including precious metals and gold. In Europe, however, most minerals other than North Sea oil and gas appear to have a very small value, and efforts have not focused on them.

Valuation

The valuation methods used by other countries are generally the same as those reviewed earlier. As in the BEA work, total resource values are a small fraction of national wealth. The starting point is physical data on the stock and annual use of the minerals. As noted early in this chapter, the simplest valuation techniques are current rent methods I and II, which derive a resource rent for the current period as the difference between the extraction costs and the wellhead or surface price of the mineral. Often this margin is relatively small and can be highly volatile when the selling price of the mineral fluctuates while extraction costs undergo little change. In some cases, such as coal extraction in many parts of Europe, the minemouth price of coal is consistently less than extraction costs, and extraction continues only because of subsidies. A negative asset value in this case may actually be realistic.

Most countries assume that the Hotelling hypothesis is inadequate and instead use the present discounted value of the expected future income stream from extracting mineral reserves. The future schedule of extraction is often assumed to be constant, or it may actually be determined by contracts with purchasers of the mineral. In the absence of other knowledge, prices are assumed to rise with expected future inflation. The discount rate used tends to be the historical average interest rate on government bonds (typically around 6 percent), which is taken to represent the opportunity cost of funds. Normal rates of return for industry generally, or the mining industry specifically, have also been tested. Because these returns include a risk premium, they are higher than government interest rates. An interesting and quite different valuation method adopted in The Netherlands is described in the next section.

Practice in Selected Countries

Australia. The Australian Bureau of Statistics publishes values of reserves and changes in reserves for nearly 30 minerals, including oil and gas, uranium, and gold. The valuation method used is essentially BEA's current rent method I. Even in resource-rich Australia, the reported value of subsoil assets is only one-tenth the value of the fixed capital in structures and equipment. The Australian Bureau of Statistics notes that economically exploitable reserves are only a very small proportion of the total resource. It also points out that its valuation techniques can give a misleading impression both of the value of reserves and of year-to-year changes in reserves because mineral prices fluctuate considerably.

Canada. Statistics Canada has estimated the value of reserves of oil, gas, coal, and eight metals using both current rent methods I and II, although its preferred valuation technique is the latter. Current rent method I sometimes produces negative values for mineral reserves.

Because Canada is concerned with regional depletion issues, it produces monetary and physical accounts for each province.

The Netherlands. Statistics Netherlands estimates the value of gas under the North Sea, the country's principal natural resource, by an unusual method. In all North Sea operations, governments (United Kingdom, Norway, The Netherlands) attempt to appropriate most of the resource rent through royalties and taxes. Instead of estimating the resource rent indirectly by the methods employed elsewhere, the Dutch estimate the resource rent directly from known government receipts. Tests by other countries have shown this method performs reasonably well for the North Sea fields, where governments take 80 percent or more of the resource rent.

Norway. The first work on resource valuation was done in Norway in the 1970s, when North Sea oil suddenly appeared as a major influence on the Norwegian economy. The Norwegians were pioneers in natural-resource accounting, beginning with oil, but later extending to other assets, such as forests. Their studies have had a considerable effect on subsequent work in other countries. The 1970s was, however, a period of massive changes in world oil prices that produced huge swings in the apparent value of this resource; as a result, many Norwegians concluded that their estimates had serious shortcomings. A number of Norwegian analysts concluded that physical data on resources were more useful. Norway recently resumed valuing natural resources to complete the balance sheets of national wealth for SNA national accounts.

Sweden. For its national accounts balance sheets, Statistics Sweden has calculated reserves and depletion of subsoil assets, in particular metal ores. The reserves covered are proven reserves, which are valued by BEA's current rent method I. Because prices of metals are volatile, the calculated resource rents occasionally turn negative, a problem reduced but not removed by adopting a moving average of prices. As a result of a fall in world copper prices, a proportion of the country's mineral stock has ceased to be economically exploitable and therefore may disappear from proven reserves.

United Kingdom. Estimates of the depletion of U.K. oil and gas in the North Sea were published in 1996 for several successively broader categories of resources—proven, probable, possible, and undiscovered but inferred from geological evidence. Several valuation techniques were tested, including current rent methods similar to those

of BEA and the present value of the future income stream. Significant differences were observed in the estimates derived with the various techniques.

Other countries. Valuation studies by developing nations including Brazil, China, and Zimbabwe have produced other important findings (see Smil and Yshi, 1998; Young and Seroa da Motta, 1995; and Crowards, 1996).

Alternative Methodologies

One quite different methodology has not been employed by BEA—that of relying on financial information for individual firms. At the level of the firm, the value of mineral reserves can be imputed from data on financial balance sheets. Figure 3–6 indicates the calculations required. This method calculates a nation's mineral wealth by aggregating the values of the domestic mineral resources held by all resident mineral firms. This is a laborious process that requires assessing the balance sheets of both listed and unlisted companies. It also provides only private reserve values, since the owners of the reserve implicitly deduct the value of any taxes, royalties, and other payments on the mineral assets when attaching a value to equity capital. Finally, as with any calculation of the value of the reserve stock, it is difficult to apportion changes in total values of the mineral reserves among additions, depletions, and revaluations.

A much simpler approach entails empirically based modifications to current rent method II. Cairns and Davis (1998a, 1998b) have found that multiplying the total asset value as calculated using current rent method II by a fixed fraction can eliminate the upward bias in total reserve value and produce estimates that are closely aligned with the observed market values of mineral assets. The fraction used, which lies between zero and one, varies by commodity. Cairns and Davis' work suggests a fraction of 0.7 for gold reserves. Work by Adelman suggests a fraction of 0.5 for oil and gas reserves. For other mineral reserves, the appropriate fractions have yet to be determined, but are likely in most instances to be around 0.6 according to Cairns and Davis (1998b). To estimate the value of the mineral reserves, the value of associated capital must still be deducted from the total asset value. This can be done in the same manner as in current rent method II. The mathematical formulation of this modified reserve valuation approach is shown in Box 3-9.

Additions are simply the value of new reserves, which can be calculated with the same formula used for valuing total reserves, except that exploration and development expenditures, rather than existing associated capital, are deducted. The formula for valuing additions is given in Box $_{3-9}$.

Depletion calculations have been studied by Cairns (1997) and Davis (1997), who suggest a modification to the BEA depletion calculations (see Box $_{3-9}$). Cairns and Davis take the depletion calculation of current rent method I and deduct an additional term that reflects a return

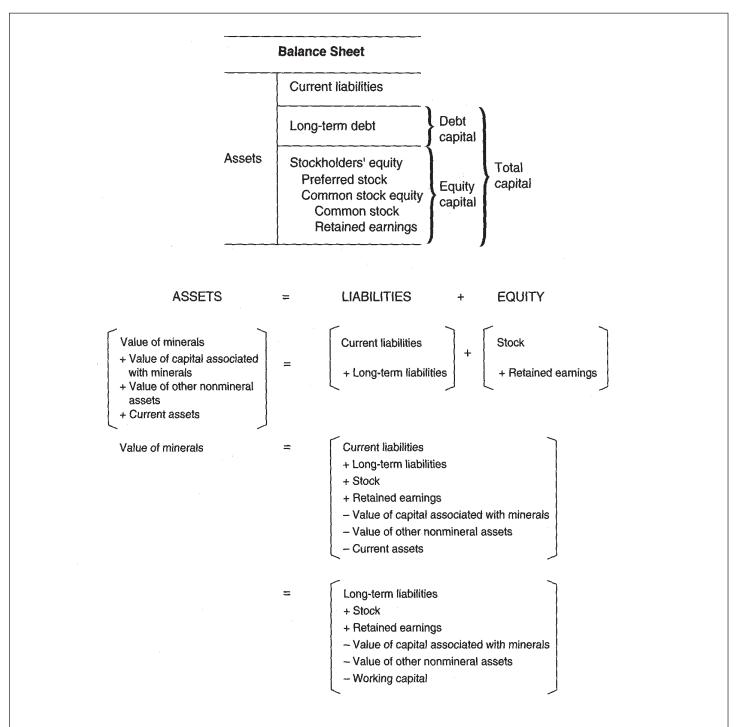


FIGURE 3-6 Imputing the Market Value of Mineral Resources from Balance Sheet Data,

to the mineral. This modification lowers the depletion calculation of current rent method I.

The discussion thus far has been aimed at estimating the value of the reserve stock and the value of depletions from and additions to that reserve stock. The discussion is guided by the notion that produced capital and natural capital are currently treated asymmetrically in national accounting and that this discrepancy should be corrected. There are yet other approaches that take a "sustainability" perspective. El Serafy (1989) has devised an alternative approach to adjusting NDP to account for mineral depletion. As currently measured, NDP is temporarily augmented during mineral extraction. El Serafy would convert the temporary revenue stream from mineral extraction into the equivalent infinite income stream, likening this latter stream to permanent income from the mineral asset. He thus advocates deducting an amount from the conventionally measured NDP during the extraction period to create an adjusted sustainable NDP.¹⁴ It may be noted that the production of satellite accounts is intended to address just this type of concern, since those who prefer El Serafy's concept of sustainability to other accounting conventions can make their own adjustments to national output using the information contained in satellite accounts.

CONCLUSIONS AND RECOMMENDATIONS ON ACCOUNTING FOR SUBSOIL MINERAL RESOURCES

Appraisal of BEA Efforts

3.1 BEA should be commended for its initial efforts to value mineral subsoil assets in the United States.

At very limited cost, BEA has produced useful and well-documented estimates of the value of mineral reserves. These efforts reflect a serious and professional attempt to value subsoil mineral assets and assess their contribution to the U.S. economy. The methods employed by BEA are widely accepted and used by other countries that are extending their national income accounts.

3.2 The panel recommends that work on developing and improving estimates of subsoil mineral accounts resume immediately.

As a result of the 1994 congressional mandate, BEA was forced to curtail its work on subsoil as-

Box 3-9: Modified Formulas for the Calculation of Reserve Stocks, Additions, and Depletions total mineral reserve value_t = V_t = $[p_t - a_t - K_t/R_t] \times R_t$ additions_t = $[p_t - a_t - Z_t/A_t] \times A_t$ depletions_t = $[p_t - a_t - rK_t/q_t - D_t/q_t - rV_t/q_t] \times q_t$ where is an empirically estimated adjustment coefficient with a value between zero and one, and all other variables are as defined in Boxes 3-3 and 3-6.

sets. Its estimates of subsoil mineral assets are objective, represent state-of-the-art methodology, and will be useful for policy makers and analysts in the private sector.

3.3 Because of the preliminary nature of the BEA estimates, as well as the potential volatility introduced by the inclusion of mineral accounts, the panel recommends that BEA continue to present subsoil mineral accounts in the form of satellite accounts for the near term.

Once the accounting procedures used for the mineral accounts have been sufficiently studied and found to be comparable in quality to those used for the rest of the accounts, it would be best to consider including the mineral accounts in the core GDP accounts. It is appropriate that assessments of changes in subsoil assets be presented on an annual basis, as BEA has done in its initial efforts.

3.4 The panel does not recommend that a single approach to mineral accounting be selected at this time.

No single valuation method has been shown to be free of problems. Thus BEA should continue to employ a variety of valuation methods, modifying them as warranted by new developments in the field.

3.5 The panel has identified a number of shortcomings in current valuation approaches, and it recommends that BEA consider modifying or eliminating some of its procedures in light of these findings.

The panel has identified problems involving appropriate adjustment of asset values for associated capital and other assets and liabilities, as well as potential overestimation of the value of assets, additions, and depletions by use of the Hotelling valuation technique. BEA should consider such findings in refining its techniques. Empirically based modifications to the Hotelling valuation

^{14.} The deduction proposed by El Serafy is $\mathbb{R} / (1 + r)^{n+1}$ where \mathbb{R} is the current depletion, r is an appropriate discount rate, and n is the number of years of mineral reserves remaining assuming a constant extraction path. See also Hartwick and Hageman (1993) and Bartelmus (1998).

technique along the lines suggested above should be examined.

3.6 The derivation of accurate and parsimonious valuation is an area of intensive current research, and BEA should follow new developments in this area.

The panel has identified a number of promising research efforts that may reduce the uncertainties among various approaches to valuing mineral resources. Most of the shortcomings of BEA's approaches identified in this chapter reflect data limitations and inherent problems that arise in estimating quantities and values that are not reflected in market transactions. Given the uncertainties involved, as well as the small share of total wealth represented by subsoil assets in the United States, a major commitment to data generation for these assets does not appear to be justified at this time. BEA should therefore emphasize valuation methods that rely on readily available data.

3.7 The most important open issues for further study are (1) the value of mineral resources that are not reserves, (2) the impact of ore-reserve heterogeneity on valuation calculations, (3) the distortions resulting from the constraints imposed on mineral production by associated capital and other factors, (4) the volatility in the value of mineral assets introduced by short-run price fluctuations, and (5) the differences between the market and social values of subsoil mineral assets.

One of BEA's most important contributions has been to stimulate discussion and research on resource-valuation methodologies. BEA's actual findings regarding the value of reserves—stocks, depletions, and additions—should be considered preliminary and tentative until there is a better understanding of the magnitude of the distortions introduced by the various techniques. It is recommended that close attention be paid to these five important open issues.

Implications for Measuring Sustainable Economic Growth

3.8 The initial estimates of the subsoil mineral accounts have important implications for understanding sustainable economic growth.

In one sense, the major results of the initial estimates are negative. Perhaps the most important finding is that subsoil assets constitute a relatively small portion of the total U.S. wealth and that mineral wealth has remained roughly constant over time. According to the IEESA results, the value of mineral resources is between 3 and 7 percent of the tangible capital stock of the country. If other assets, particularly human capital, were considered, mineral value would be an even smaller fraction of the country's wealth. This is an important and interesting result that was not well established before BEA developed its subsoil mineral accounts.

3.9 Alternative measures, along with measures of sustainability from a broader set of naturalresource and environmental assets, will be necessary to obtain useful measures of the impact of natural and environmental resources on long-term economic growth.

The mineral accounts as currently constructed are of limited value in determining the threat to sustainable economic growth posed by mineral depletion. The value of subsoil mineral assets in the United States could fall because much cheaper sources of supply are available abroad. Conversely, the value could rise because serious depletion problems are driving mineral prices up. The real prices of individual mineral commodities provide a more direct and appropriate measure of recent trends in resource scarcity than is offered by the total values of specific minerals in the mineral accounts.

3.10 The panel recommends that BEA maintain a significant effort in the area of accounting for domestic mineral assets.

While subsoil assets currently account for only a small share of total wealth in the United States and do not appear to pose a threat to sustainable economic growth at present, this situation could change in the future. A good system of accounts could address the widespread concern that the United States is depleting its mineral wealth and shortchanging future generations. By properly monitoring trends in resource values, volumes, and unit prices, the national accounts could identify the state of important natural resources, not only at the national level, but also at the regional and state levels. Better measures would also allow policy makers to determine whether additions to reserves and capital formation in other areas are offsetting depletion of valuable minerals. Development of reserve prices and unit values would help in assessing trends in resource scarcity. Comprehensive mineral accounts would provide the information needed for sound public policies addressing public concerns related to mineral resources.

3.11 Efforts to develop better mineral accounting procedures domestically and with other countries would have substantial economic benefit for the United States. Other countries and international organizations are continuing to develop accounts that include subsoil assets and other natural and environmental resources. The United States has historically played a leading role in developing sound accounting techniques, exploring different methodologies, and introducing new approaches. A significant investment in this area would help improve such accounts in the broader world economy. Unfortunately, the United States has lagged behind other countries in developing environmental and natural-resource accounts, particularly since the 1994 congressional mandate suspending those efforts.

3.12 To the extent that the United States depends heavily on imports of fuels and minerals from other countries, it would benefit from better mineral accounts abroad because the reliability and cost of imports can be forecast more accurately when data from other countries are accurate and well designed.

International development of sound naturalresource accounts would be particularly useful for those sectors in which international trade is important. Indeed, as has been learned from cataclysmic events in financial markets such as the Mexican peso crisis of 1994–1995 or the financial crises of East Asian countries in 1997–1998, the United States suffers when foreign accounting standards are poor and is a direct beneficiary of better accounting and reporting abroad. Better international mineral accounts would help the nation understand the extent of resources abroad and the likelihood of major increases in prices of oil and other minerals such as those of the 1970s. Improved accounts both at home and abroad would help government and the private sector better predict and cope with the important transitions in energy and materials use that are likely to occur in the decades ahead.

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State Personal Income, Third Quarter 1999

By Duke Tran

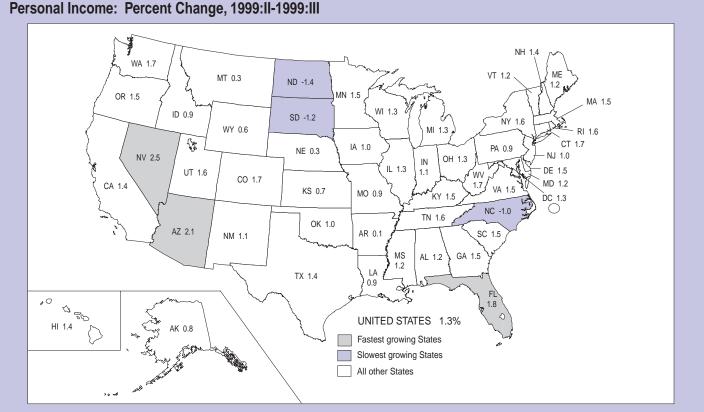
The quarterly estimates of State personal income are prepared by the Regional Economic Measurement Division. I N THE third quarter of 1999, U.S. personal income increased \$97.2 billion, or 1.3 percent (table A).¹ The following are highlights of personal income developments in the third quarter:

- The 1.3-percent growth rate was about the same as the growth rate in the first and second quarters.
- Forty-four States had growth rates greater than the 0.5-percent increase in prices paid by U.S. consumers.

- Nevada, Arizona, and Florida had the fastest growth (chart 1).
- North Dakota, South Dakota, and North Carolina had the slowest growth.

In the third quarter, U.S. personal income was reduced by uninsured losses to residential and business property as a result of Hurricane Floyd, which made landfall in North Carolina in mid-September; these losses, which mainly affected rental income of persons and proprietors' income, amounted to approximately \$5.5 billion (at an annual rate). Because other effects of the hurricane are embedded in the source data and cannot easily be separated, BEA does not

CHART 1



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

^{1.} In this article, dollar changes are expressed at seasonally adjusted annual rates, and percent changes are expressed at quarterly rates.

Table A.—Personal Income by Component, by State and Region, 1999:II-1999:III

[Seasonally adjusted]

		Percent	change 1				on to perce		[Dollar chang	e (millions)	3
	Personal income	Net earn- ings ²	Divi- dends, interest, and rent	Transfer payments	Percent change in personal income ¹		ersonal inco centage poi Divi- dends, interest, and rent		Personal income	Net earn- ings ²	Divi- dends, interest, and rent	Transfer payments
United States	1.3	1.5	1.0	0.8	1.3	1.0	0.2	0.1	97,249	75,814	12,333	9,102
New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	1.5 1.7 1.2 1.5 1.4 1.6 1.2	1.7 1.9 1.5 1.6 1.5 2.0 1.2	1.4 1.2 1.1 1.5 1.3 1.1 1.7	.8 .8 .7 .7 .6 .8 .8	1.5 1.7 1.2 1.5 1.4 1.6 1.2	1.2 1.3 .9 1.1 1.1 1.3 .8	.2 .2 .3 .2 .2 .3	.1 .1 .1 .1 .1 .2 .1	6,810 2,142 373 3,169 502 443 182	5,256 1,722 278 2,398 394 347 118	1,058 288 53 542 80 48 47	496 132 42 229 28 46 18
Mideast Delaware District of Columbia Maryland New Jersey New York Pennsylvania	1.3 1.5 1.3 1.2 1.0 1.6 .9	1.6 1.7 1.6 1.2 1.5 2.0 1.0	.7 1.3 1.2 1.2 6 1.2 .8	.7 .8 .3 .7 .6 .8 .7	1.3 1.5 1.3 1.2 1.0 1.6 .9	1.0 1.2 1.0 .9 1.0 1.3 .7	.1 .2 .2 .2 1 .2 .1	.1 .1 .1 .1 .1 .1	18,302 350 259 1,864 2,959 9,724 3,145	14,843 269 207 1,399 3,030 7,686 2,252	1,703 55 38 305 -303 1,172 437	1,755 26 14 160 232 866 456
Great Lakes Illinois Indiana Michigan Ohio Wisconsin	1.3 1.3 1.1 1.3 1.3 1.3	1.4 1.4 1.1 1.5 1.4 1.4	1.4 1.4 1.6 1.5 1.2 1.6	.7 .8 .7 .5 .7 .7	1.3 1.3 1.1 1.3 1.3 1.3	1.0 1.0 .7 1.0 1.0 1.0	.2 .2 .2 .2 .2 .3	.1 .1 .1 .1 .1	15,647 4,924 1,597 3,524 3,766 1,834	11,588 3,637 1,112 2,661 2,842 1,337	2,794 881 345 653 561 354	1,264 407 142 210 364 143
Plains lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	.9 1.0 .7 1.5 .9 .3 -1.4 -1.2	.7 1.1 .4 1.7 .7 1 -2.7 -2.2	1.3 .9 2.0 1.1 1.5 1.4 1.1 1.0	.8 .9 .7 .8 .9 .7 1.0 .7	.9 1.0 .7 1.5 .9 .3 -1.4 -1.2	.5 .7 .3 1.2 .5 -1 -1.8 -1.5	.2 .3 .3 .2 .3 .2 .2 .2	.1 .1 .1 .1 .1 .2 .1	4,202 724 513 2,079 1,189 116 -214 -206	2,490 512 205 1,699 630 -33 -266 -257	1,109 116 239 235 359 103 27 30	602 97 69 143 200 46 25 21
Southeast Alabama Arkansas Florida Georgia Kentucky Louisiana Mississippi North Carolina South Carolina Tennessee Virginia West Virginia	1.2 1.2 1.5 1.5 1.5 9 1.2 -1.0 1.5 1.6 1.5 1.5 1.5	1.5 4 2.2 1.6 1.7 .8 1.3 .4 1.6 1.8 2.3	.3 1.8 1.4 2.00 1.7 1.4 1.7 -10.6 1.8 1.8 1.8 1.0 1.2	. 8 .9 .8 .8 .9 .8 .9 .8 .7 .8 .1.1 .9 .8 .8 .6	1.2 1.2 1.5 1.5 1.5 9 1.2 -1.0 1.5 1.6 1.5 1.5 1.5	1.0 .7 3 1.3 1.1 1.1 .5 .8 .3 1.1 1.3 1.3 1.3 1.4	0 2 2 3 3 2 2 2 2 -1.5 3 2 2 2 2 2 2	. 1 2 2 1 1 2 2 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 2 2 1 2	19,354 1,131 68 7,131 3,098 1,307 844 660 -1,996 1,301 2,200 2,996 615	16,180 722 -155 5,256 2,285 951 520 453 573 937 1,686 2,453 499	723 232 134 1,275 565 216 189 110 -2,914 217 324 315 60	2,452 177 88 599 249 141 136 97 344 146 191 228 56
Southwest Arizona Arizona New Mexico Oklahoma Texas	1.4 2.1 1.1 1.0 1.4	1.5 2.3 1.1 1.1 1.4	1.7 2.3 1.4 1.4 1.6	.9 .9 .7 .9	1.4 2.1 1.1 1.0 1.4	1.1 1.6 .7 .7 1.1	.2 .4 .2 .2	.1 .1 .2 .1 .1	10,730 2,384 408 755 7,182	8,009 1,789 260 500 5,462	1,746 425 80 151 1,089	975 171 67 105 633
Rocky Mountain Colorado Idaho Montana Utah Wyoming	1.4 1.7 .9 .3 1.6 .6	1.4 1.8 .7 –.2 1.6 .1	1.9 1.9 1.8 1.5 2.1 1.9	.9 1.0 .9 .8 .8	1.4 1.7 .9 .3 1.6 .6	1.0 1.3 .5 1 1.2 .1	.3 .3 .3 .3 .3 .3	.1 .1 .2 .1	3,231 2,112 257 60 737 66	1,586 138 -25 565	678 379 80 53 121 46	282 147 38 32 51 14
Far West Alaska California Hawaii Nevada Oregon Washington	1.4 .8 1.4 1.4 2.5 1.5 1.7	1.7 .8 1.6 1.7 2.7 1.6 2.0	1.2 1.2 .9 .9 2.8 1.8 1.6	.7 .4 .7 .8 1.1 .9 .5	1.4 .8 1.4 1.4 2.5 1.5 1.5	1.2 .5 1.1 1.1 1.9 1.1 1.4	.2 .2 .2 .2 .5 .3 .3	.1 .1 .1 .1 .1 .2 .1	18,972 122 12,982 462 1,279 1,298 2,829	85 10,571 364 973 901	2,521 25 1,511 50 236 267 435	1,275 13 899 47 70 130 114

Percent changes are expressed at quarterly rates.
 Net earnings is earnings by place of work—the sum of wage and salary disbursements (payrolls), other labor income, and proprietors' income—lass personal contributions for social insurance plus an adjustment to convert earnings by place of work to a place-of-residence basis.

3. Dollar changes are expressed at annual rates.

NOTE: Estimates may not add to totals because of rounding.

attempt to quantify their impact. Excluding these uninsured losses, U.S. personal income would have increased \$102.8 billion, or 1.4 percent.

By type of income, most of the increase in U.S. personal income was accounted for by net earnings, which increased 1.5 percent, the same as in the second quarter.² Dividends, interest, and rent increased 1.0 percent after increasing 1.3 percent, and transfer payments increased 0.8 percent after increasing 0.6 percent.

U.S. earnings by place of work grew 1.5 percent, the same rate as in the second quarter. Earnings grew in all major industries except farms; earnings in services and in wholesale trade grew the fastest.

Earnings growth accelerated in manufacturing, in transportation and public utilities, in wholesale trade, in services, and in government; in mining, it rebounded after a decline. In contrast, earnings decelerated in construction, in retail trade, and in finance, insurance, and real estate.

By region, personal income growth decelerated in the Rocky Mountain, Plains, New England, and Southwest regions, mainly reflecting slower growth in net earnings. Personal income growth accelerated in the Mideast, Southeast, Great Lakes, and Far West regions, mainly reflecting stronger growth in net earnings and transfer payments.

Table 1 at the end of this article presents the quarterly estimates of personal income for each State and region, beginning with the first quarter of 1997. Table 2 presents the quarterly estimates of personal income by major source and of earnings by industry, beginning with the first quarter of 1998.

Growth rates by State

In the third quarter, the growth rates in personal income in 44 States and the District of Columbia exceeded the 0.5-percent increase in the prices paid by U.S. consumers (as measured by the price index for personal consumption expenditures).

Fastest growing States.—The three States with the fastest growth in personal income were Nevada (2.5 percent), Arizona (2.1 percent), and Florida (1.8 percent).

Upcoming Revision to State Personal Income

The quarterly estimates of State personal income presented in this article have not yet incorporated the revised levels of personal income from the recently released comprehensive revision of the national income and product accounts (NIPA's). The revisions to personal income mainly reflect the reclassification of government employee retirement plans; as a result of this reclassification, personal income was raised by (1) the amount of employer contributions to these plans, which are added to other labor income, (2) by the amount of dividends and interest received by these plans, which are added to personal dividend income and to personal interest income, and (3) by the amount of personal contributions for social insurance, which are deducted in the calculation of personal income.¹ The reclassification also reduced personal income by the amount of benefits paid by these plans, which are no longer included in government transfer payments to persons. The net effect of the reclassification raised personal income for all years.

Revised State estimates that incorporate the comprehensive revision to the NIPA estimates will be released on May 17, 2000.

For State estimates for the first three quarters of 1999, the quarterly movements in the component NIPA series are used as extrapolators to derive national control totals. The extrapolators incorporate the definitional and statistical improvements in the NIPA's, but the national control totals in the State series have not yet incorporated these improvements. For example, the revised quarterly national estimates of other labor income, which now includes employer contributions to Federal Government and State and local government pension plans, are used to extrapolate the national control total for the State estimates of other labor income, which does not yet include this definitional change to personal income. Of the statistical revisions that were incorporated into the NIPA estimates of personal income, the revision to wage and salary disbursements for 1998 has already been incorporated into the State estimates.²

^{2.} Net earnings is calculated as earnings by place of work less personal contributions for social insurance plus an adjustment that converts these earnings to a place-of-residence basis. Earnings by place of work is the sum of wage and salary disbursements (payrolls), other labor income, and proprietors' income.

Net earnings is used to analyze changes in the composition of personal income; earnings by place of work is used to analyze changes in the industrial structure of earnings. Net earnings by industry is not available, because the source data used to adjust earnings to a place-of-residence basis are not available by industry and because personal contributions for social insurance are not estimated by industry. For the definitions of the components of earnings, see U.S. Department of Commerce, Bureau of Economic Analysis, *State Personal Income*, 1929–97 (Washington, DC: U.S. Government Printing Office, 1999), or go to BEA's Web site at <www.bea.doc.gov/bea/mp.htm>, and look under "Regional programs" for "State Personal Income, 1929–97."

^{1.} See Eugene P. Seskin, "Improved Estimates of the National Income and Product Accounts for 1959–98: Results of the Comprehensive Revision," SURVEY OF CURRENT BUSINESS 79 (December 1999): 26–29.

^{2.} See Duke Tran, "State Personal Income, First Quarter 1999," SURVEY 79 (August 1999): 61–62.

These States accounted for 7.6 percent of U.S. personal income, but they accounted for 11.1 percent of the \$97.2 billion increase in U.S. personal income (see table B). In the second quarter, these three States accounted for the same share of U.S. personal income, but they accounted for 12.1 percent of the growth.

In Nevada, earnings in services, in retail trade, and in construction contributed substantially to the growth in earnings in the third quarter (tables C and D). The growth in earnings in services was the fastest rate in the Nation, reflecting strong growth in tourism-related industries. In Arizona, earnings in services, in finance, insurance, and real estate, in manufacturing, and in government contributed substantially to the earnings growth. In Florida, earnings in services contributed the most to the earnings growth. The growth in services was the largest since the first quarter of 1998, reflecting strength in health services, amusement and recreation, engineering and accounting, and business services.

Slowest growing States.—Personal income declined in three States: North Carolina (-1.0 percent), South Dakota (-1.2 percent), and North Dakota (-1.4 percent). These three States accounted for 2.9 percent of U.S. personal income.

In North Carolina, personal income was reduced by the uninsured losses to residential and business property as a result of Hurricane Floyd; the losses, which reduced rental income of persons and net earnings, amounted to approximately \$4.3 billion (at an annual rate).³ Excluding these uninsured losses, personal

3. Four other States were also affected by uninsured losses to residential and business property as a result of the hurricane: New Jersey (\$832 million),

income in North Carolina would have increased \$2.3 billion, or 1.2 percent. By industry, declines in earnings in farms and in retail trade reflected losses resulting from damage caused by Hurricane Floyd. A decline in construction earnings also contributed to the slow growth in earnings.

In North Dakota and South Dakota, declines in farm earnings were the major contributors to the declines in earnings, reflecting a reduction in farm subsidy payments from unusually high levels in the second quarter. Since the passage of the 1999 Omnibus Spending Act in the fall of 1998, quarterly payments have fluctuated because of the variable pattern of payments. Excluding these payments, personal income would have increased \$190 million, or 1.3 percent, in North Dakota, and \$50 million, or 0.3 percent, in South Dakota. These fluctuations are expected to continue in the fourth quarter, as an additional \$8.7 billion in farm subsidy payments were authorized by the Agriculture, Rural Development, Food and Drug Administration and Related Agencies Appropriation Act, which was passed in the fall of 1999. In North Dakota, declines in earnings in transportation and public utilities and in government also contributed to the earnings decline. In South Dakota, declines in construction, in finance, insurance, and real estate, in manufacturing, and in wholesale trade also contributed to the earnings decline.

Tables C, D, 1, and 2 follow.

Pennsylvania (\$260 million), Virginia (\$114 million), and South Carolina (\$20 million). Excluding these losses, the growth rates would have been 1.3 percent in New Jersey, 1.0 percent in Pennsylvania, 1.6 percent in Virginia, and 1.5 percent in South Carolina.

Table B.—Personal Income for Selected Sta	tes and United States
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		Persona	l income: P previous	ercent chan	ge from	Percen	t change fro	om 1999:II-	1999:III	Perce	nt of
Rank ¹		19		19		Personal	Net	Divi- dends,	Transfer	U.S. personal	Growth in U.S.
		Ш	IV	Ι	Ш	income	earnings	interest, and rent	payments	income, 1999:III	personal income, 1999:III
	Fastest growing States:										
1 2 3	Nevada Arizona Florida	2.0 2.0 1.6	2.8 2.2 1.3	2.1 4 .4	1.3 3.6 1.8	2.5 2.1 1.8	2.7 2.3 2.2	2.8 2.3 1.4	1.1 .9 .8	.7 1.5 5.4	1.3 2.5 7.3
	United States	1.3	1.5	1.3	1.3	1.3	1.5	1.0	0.8	100	100
	Slowest growing States:										
48 49 50	North Carolina South Dakota North Dakota	1.3 .4 .6	1.3 5.2 4.4	1.6 2 .4	1.0 3.1 3.4	-1.0 -1.2 -1.4	.4 -2.2 -2.7	-10.6 1.0 1.1	1.1 .7 1.0	2.5 .2 .2	-2.1 2 2

1. Rankings are sorted based on the percent change in 1999:III

NOTE: Percent changes are expressed at quarterly rates.

Table C.—Earnings by Place of Work: Percent Change by Industry Group, 1999:II-1999:III

[Seasonally adjusted at quarterly rates]

		Privat	e goods-pro	oducing indu	ustries		Private	services-pi	roducing inc	Justries		
	Percent change in earnings by place of work ¹	Total ²	Farms	Construc- tion	Manufac- turing	Total	Transpor- tation and pub- lic utilities	Whole- sale trade	Retail trade	Finance, insur- ance, and real estate	Services	Govern- ment
United States	1.5	0.4	-22.2	0.5	1.4	2.0	1.4	2.0	1.3	1.9	2.4	1.2
New England	1.7 1.9 1.6 1.6 1.6 2.0 1.2	1.2 1.2 1.2 1.0 1.7 1.8 .6	9.4 6.2 9.9 7.1 10.9 16.7 14.6	7 7 -1.9 0 -1.7 1.2 -6.5	1.9 1.7 2.8 1.4 2.8 2.2 4.1	1.9 2.1 1.8 1.9 1.8 2.0 1.7	1.5 1.5 1.2 1.5 2.2 .1 .4	1.9 1.7 1.3 2.1 1.4 1.5 3.1	1.6 1.2 1.1 1.7 2.0 1.7 1.6	1.8 1.8 .5 1.7 1.8 2.1 2.6	2.7 2.6 2.0 1.7 2.5	2.0 1.4 1.0 0 2.2
Mideast Delaware District of Columbia Maryland New Jersey New York Pennsylvania	1.5 1.7 1.4 1.1 1.4 2.0 1.0	.7 1.3 6 .1 .4 1.9 3	-8.1 -11.4 -12.9 1.9 -9.1 -7.3	0 .4 7 .2 0 1.3 -1.7	1.0 1.9 -1.1 .5 .4 2.2 .1	1.9 2.1 2.2 2.0 1.9 2.0 1.6	1.1 .7 -1.0 2.3 1.2 1.1 .7	1.8 1.5 3.6 1.6 1.7 1.9 1.8	1.5 2.0 2.8 1.3 1.9 1.7 1.0	1.9 2.6 1.7 1.5 1.7 1.9 2.0	2.5 2.3 2.3	1.2 .4 6 .3 1.8
Great Lakes	1.4 1.4 1.0 1.5 1.4 1.4	.9 1.2 .5 .9 .9	-30.4 -34.9 -29.5 -72.6 -23.3 3.8	3 2 -1.1 1 .8 -1.7	1.7 2.5 1.6 1.7 1.4	1.7 1.4 1.4 2.1 1.7 1.8	1.0 .8 1.0 1.2 1.2 1.2	2.0 1.5 1.5 3.0 2.1 2.2	.9 1.0 .8 1.0 .9 .8	1.8 1.5 1.6 1.8 2.0 2.4	1.6 2.4	1.8 1.2 .9
Plains lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	.8 1.1 .5 1.7 .7 0 -2.4 -2.0	-1.0 4 -1.7 1.8 6 -5.1 -10.0 -8.1	-23.2 -13.5 -19.6 -23.1 -67.0 -25.3 -27.8 -24.1	.7 1.8 1.2 1 1.4 1.1 3 -3.5	1.5 1.6 .1 3.9 .1 8 2.2 6	1.6 2.0 1.6 2.0 1.3 1.7 .8 .4	.2	2.1 2.7 2.5 2.9 1.0 3.0 .8 -1.7	1.3 .9 1.6 1.7 1.2 1.2 .9 1.1	1.6 2.3 1.3 1.7 2.0 1.3 -2.2	2.3	1.5 .5 .3 .4 2.1 5
Southeast Alabama Arkansas Florida Georgia Kentucky Louisiana Mississippi North Carolina South Carolina Tennessee Virginia West Virginia	1.5 1.1 3 2.2 1.6 1.6 .8 1.3 .5 1.6 .8 1.3 1.3 .5 1.6 .8 1.9 2.4	1 .6 -4.9 1.2 -1.3 1.7 -1.2 .5 -2.3 .5 2.1 1.1 3.1	-26.9 -24.1 -44.4 -4.7 -29.7 -1.5 -54.5 -16.6 -46.3 -26.3 -18.7 -19.1 -58.8	.3 .8 .9 1.1 8 4 9 -1.3 -1.2 .8 2.8 .6 .1	1.5 2.2 .3 1.8 .6 2.4 1.8 2.8 .3 1.3 2.1 2.1 1.8 5.7	2.2 1.5 2.1 2.7 2.7 1.8 1.8 1.6 1.1 2.0 2.3 2.1	2.0 1.2 1.3 2.2 2.7 1.5 1.5 1.9 1.3 1.6 2.8 1.5	2.1 1.3 1.9 2.0 3.2 1.4 1.9 6 2.0 3.0 3.0 1.9 1.7 1.2	1.1 1.2 1.6 1.9 1.7 1.4 1.1 2 -1.7 1.4 1.8 6. .7	2.1 2.2 2.1 2.3 2.5 2.2 1.9 1.8 1.2 2.0 1.8 2.2 2.0 1.8 1.2 2.0 1.8 2.3 1.9	2.4 1.8 2.2 2.0 2.8	.7 1.5 .7 1.4 1.1 1.1 1.8 3.8 2.4 .8 1.2
Southwest Arizona New Mexico Oklahoma Texas	1.5 2.3 1.1 1.1 1.5	1 1.3 5 2 3	-38.4 -7.4 -12.3 -49.8 -44.4	1.0 1.7 .8 0 1.0	1.7 2.5 .7 2.8 1.4	2.3 2.6 2.0 1.6 2.3	1.6 1.4 .9 1.4 1.7	2.1 2.9 2.4 1.9 2.0	1.4 1.7 1.3 .9 1.4	2.5 2.9 2.0 2.3 2.5	2.8 3.1 2.5 1.8 2.8	2.3 .3 1.2
Rocky Mountain Colorado Idaho Montana Utah Wyoming	1.4 1.8 .7 1 1.6 .1	4 .1 .9 -5.5 1 -2.8	-15.6 -12.4 -6.4 -44.4 9 -33.3	1.1 1.8 4 8 1.3 -1.7	.4 .1 3.3 4.1 –1.3 –2.1	2.1 2.5 .6 1.8 2.2 .8	.5	1.9 2.0 2.2 1.7 1.7 4	1.7 2.1 .5 1.5 1.8 .7	1.8 1.4 1.1 1.7 3.4 -1.7	3.7 .1 2.6 2.5	1.1 .7 .2 2.1
Far West	1.7 .8 1.6 1.7 2.7 1.5 2.0	.9 6 .7 2 .7 .9 1.9	-8.5 -8.3 -10.6 -4.8 -1.2 0 -2.3	1.7 -3.1 2.3 -2.2 2.4 -2.4 1.7	1.2 5.8 .9 4.0 –1.6 2.1 2.2	2.1 2.1 1.4 3.6 1.7 2.2	2.4	2.1 1.9 2.3 1.1 3.5 .6 1.8	1.5 .5 1.5 1.2 2.9 1.0 1.6	1.7 2.2 1.7 1.2 2.6 1.7 1.8	1.9 2.3 1.6 3.9 2.2	6 .9 3.4 .8 2.1

Earnings by place of work is the sum of wage and salary disbursements (payrolls), other labor income, and proprietors' income.
 Also includes mining and agricultural services, forestry, and fishing.

Table D.—Earnings by Place of Work: Contribution to Percent Change by Industry Group,1999:III-1999:III

[Seasonally adjusted]

						Per	centage poi	nts				
	Percent						Private	services-pi	oducing ind	lustries		
	change in earnings by place of work ¹	Privat	e goods-pro	Construc-	Manufac-	Total	Transpor- tation and pub- lic utilities	Whole- sale trade	Retail trade	Finance, insur- ance, and real	Services	Govern- ment
United States	1.5	0.1	-0.2	tion 0	turing 0.2	1.2	0.1	0.1	0.1	estate 0.2	0.7	0.2
New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	1.7 1.9 1.6 1.6 2.0 1.2	.3 .3 .3 .2 .5 .4 .2	0 0 1 0 0 0 2	0 0 1 0 1 .1 5	.3 .3 .5 .2 .6 .4 .8	1.3 1.4 1.0 1.3 1.1 1.2 .9	.1 .1 .1 .1 .1 .1 0 0	.1 .1 .1 .1 .1 .1 .1	.1 .1 .2 .2 .2	.2 .3 0 .2 .1 .2 .2	.7 .8 .7 .7 .5 .8 .4	.1 .2 .1 0 .3 .1
Mideast Delaware District of Columbia Maryland New Jersey New York Pennsylvania	1.5 1.7 1.4 1.1 1.4 2.0 1.0	.1 .4 0 .1 .3 1	0 1 0 0 0 0	0 0 0 0 0 0 1	.1 .5 0 .1 .3 0	1.3 1.2 1.3 1.2 1.3 1.4 .9	.1 0 .1 .1 .1 0	.1 0 .1 .2 .1 .1	.1 .2 .1 .1 .1 .1	.3 .4 .1 .2 .4 .2	.7 .5 1.1 .8 .7 .7	.1 .2 1 0 .2 .1
Great Lakes Illinois Indiana Michigan Ohio Wisconsin	1.4 1.4 1.0 1.5 1.4 1.4	.3 .3 .2 .3 .3 .3	1 2 2 2 2 1 0	0 0 1 0 0 1	.4 .5 .5 .5 .4 .4	.9 .9 .7 1.0 .9 1.0	.1 .1 .1 .1 .1	.1 .1 .2 .1	.1 .1 .1 .1 .1	.1 .2 .1 .1 .1 .2	.5 .5 .4 .5 .5	
Plains	.8 1.1 .5 1.7 .7 0 -2.4 -2.0	3 1 5 .5 2 -1.4 -2.8 -2.5	6 6 3 3 -1.3 -3.0 -2.2	0 .1 .1 .1 .1 .1 0 2	.3 0 .8 0 1 .2 1	. 9 1.1 .9 1.2 .8 1.0 .4 .2	0 .1 0 0 0 0 1 0	.1 .2 .2 .1 .2 .1 .2 .1	.1 .1 .2 .1 .1 .1 .1	.1 .2 .1 .2 .1 .2 .1 .2 .1	.5 .5 .4 .6 .5 .5 .3 .4	1. 2 1. 0 .1 .3 .3 .3
Southeast Alabama Arkansas Florida Georgia Kentucky Louisiana Mississippi North Carolina South Carolina Tennessee Virginia West Virginia	1.5 1.1 3 2.2 1.6 1.6 .8 1.3 .5 1.6 1.8 1.3 .5 1.6 1.8 1.9 2.4	0 .2 -1.6 .2 3 .5 3 .2 7 .2 .6 .2 .2 .9	3 4 -1.8 0 4 0 5 4 7 2 1 0	0 .1 .1 .1 1 0 1 1 .1 .2 0 0	2 5 1 1 5 2 6 1 3 4 2 9	1.3 .8 1.1 1.9 1.7 .9 1.0 .8 .6 1.0 1.1 1.4 1.4	1 1 1 1 1 1 1 1 1 1 1 1 1 1	.1 .1 .1 .1 .3 .1 .1 .1 .1 .1 .1	.1 .1 .2 .2 .2 .1 0 -2 .2 .2 .2 .1 .1	2 1 1 2 2 2 1 1 1 1 1 1 1 2 2 1	.7 .4 .6 1.2 .8 .5 .6 .6 .6 .4 .5 .9 .8	.2 .1 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2
Southwest Arizona New Mexico Oklahoma Texas	1.5 2.3 1.1 1.1 1.5	0 .3 1 0 1	4 1 2 6 5	. 1 .1 .1 0 .1	.2 .3 0 .4 .2	1.4 1.6 1.1 .9 1.4	.1 .1 .1 .2	.1 .2 .1 .1	.1 .2 .1 .1	.2 .3 .1 .1 .2	.8 .9 .7 .5 .8	.2 .3 .1 .2 .2
Rocky Mountain Colorado Idaho Montana Utah Wyoming	1.4 1.8 .7 1 1.6 .1	1 0 .3 -1.2 0 9	2 1 3 -1.5 0 5	.1 .1 0 1 .1 2	0 0 .5 .3 2 1	1.3 1.6 .3 1.1 1.3 .4	0 .1 0 0 0 0	.1 .1 .1 .1 .1	.2 .1 .2 .2 .2	.1 .1 .1 .3 1	.8 1.1 0 .7 .7 .4	.2 .1 .1 .1 .2 .2
Far West Alaska California Hawaii Nevada Oregon Washington	1.7 .8 1.6 1.7 2.7 1.5 2.0	.2 1 .2 0 .1 .2 .5	1 0 1 0 0 0	.1 2 .1 1 .3 2 .1	.2 .2 .1 .1 1 .4 .4	1.3 1.1 1.3 .9 2.5 1.0 1.3	.1 .4 .1 .1 .2 .1 .1	.1 .1 .1 0 .2 0 .1	.1 0 .1 .3 .1 .2	.1 .1 .2 .1 .2 .1 .1	.8 .4 .5 1.6 .6 .8	.1 2 .1 .9 .1 .3 .2

Earnings by place of work is the sum of wage and salary disbursements (payrolls), other labor income, and proprietors' income. Percent changes are expressed at quarterly rates.
 Also includes mining and agricultural services, forestry, and fishing.

NOTE.-Estimates may not add to totals because of rounding.

Table 1.—Personal Income by State and Region

[Millions of dollars, seasonally adjusted at annual rates]

			, 564501141	ly adjusted			100			1000		Dereent	
Area name		19	197			19	198 I			1999		Percent	1999:II-
	I	II	III	IV	Ι	II	III	IV	1r	<i>r</i>	<i>p</i>	1999:II	1999:11
United States	6,650,207	6,726,629	6,807,506	6,898,259	7,016,041	7,108,060	7,199,440	7,309,162	7,406,673	7,504,566	7,601,815	1.3	1.3
New England Connecticut	399,830	403,744	408,242	415,615	419,963	426,088	433,011	440,347	443,257	450,901	457,711	1.7	1.5
	115,126	116,357	117,455	119,755	121,057	122,052	123,950	126,664	127,236	129,428	131,570	1.7	1.7
	26,877	27,112	27,267	27,715	27,865	28,406	28,936	29,271	29,236	30,017	30,390	2.7	1.2
	187,831	189,367	191,863	194,969	197,207	200,905	204,031	206,866	209,219	212,737	215,906	1.7	1.5
	31,755	32,233	32,759	33,436	33,646	34,124	34,937	35,796	35,587	36,190	36,692	1.7	1.4
	24,886	25,223	25,372	25,877	26,152	26,370	26,762	27,172	27,335	27,564	28,007	.8	1.6
	13,354	13,452	13,524	13,864	14,037	14,230	14,394	14,578	14,644	14,965	15,147	2.2	1.2
Mideast	1,287,567	1,293,436	1,309,439	1,325,328	1,345,232	1,364,051	1,380,603	1,389,923	1,420,878	1,435,616	1,453,918	1.0	1.3
Delaware	20,631	20,639	21,094	21,422	21,892	22,118	22,225	22,796	23,078	23,191	23,541	.5	1.5
District of Columbia	18,760	18,805	19,028	19,085	19,191	19,408	19,687	19,817	20,235	20,450	20,709	1.1	1.3
Maryland	143,770	145,016	146,589	148,983	150,778	153,116	155,299	157,464	159,802	161,725	163,589	1.2	1.2
New Jersey	257,066	258,617	261,795	265,466	270,299	273,177	278,572	280,078	288,406	291,133	294,092	.9	1.0
New York	543,350	543,675	551,780	556,901	565,642	575,201	581,019	581,208	598,865	603,200	612,924	.7	1.6
Pennsylvania	303,989	306,686	309,153	313,471	317,430	321,031	323,801	328,561	330,493	335,917	339,062	1.6	.9
Great Lakes	1,089,113	1,102,312	1,112,380	1,126,771	1,143,432	1,155,114	1,163,136	1,185,908	1,192,794	1,207,693	1,223,340	1.2	1.3
Illinois	325,749	330,416	333,657	338,040	342,467	346,668	350,023	356,961	361,142	366,399	371,323	1.5	1.3
Indiana	133,919	135,408	136,348	138,619	140,635	142,285	143,902	146,627	147,355	148,532	150,129	.8	1.1
Michigan	240,467	243,025	245,370	247,430	253,117	254,683	253,375	258,980	259,761	262,359	265,883	1.0	1.3
Ohio	266,151	269,084	271,385	275,181	278,627	280,966	283,518	288,569	290,063	293,306	297,072	1.1	1.3
Wisconsin	122,827	124,378	125,620	127,501	128,587	130,512	132,318	134,771	134,472	137,098	138,932	2.0	1.3
Plains lowa Iowa Kansas Kansas Minnesota Missouri Nebraska Notrh Dakota South Dakota	438,635	444,771	449,351	454,161	460,014	466,078	470,605	482,185	484,446	492,615	496,817	1.7	.9
	64,874	65,808	66,185	67,105	67,104	67,830	68,745	71,199	70,660	71,542	72,266	1.2	1.0
	61,007	62,081	62,782	63,581	64,435	65,385	65,973	67,625	67,566	68,751	69,264	1.8	.7
	120,365	122,372	123,869	125,434	128,013	129,951	130,696	134,286	135,399	137,966	140,045	1.9	1.5
	126,067	127,093	128,381	129,637	130,680	132,228	133,834	135,080	136,906	138,775	139,964	1.4	.9
	38,487	39,037	39,412	39,604	40,140	40,820	41,349	42,538	42,435	43,082	43,198	1.5	.3
	12,646	12,838	12,986	13,072	13,623	13,680	13,758	14,358	14,419	14,906	14,692	3.4	-1.4
	15,190	15,541	15,736	15,729	16,019	16,185	16,250	17,099	17,062	17,594	17,388	3.1	-1.2
Southeast Alabama Arkansas Florida Georgia Kentucky Louisiana Mississippi North Carolina South Carolina Tennessee Virginia	1,458,318 88,240 48,531 357,463 175,822 79,087 87,638 48,597 169,449 76,523 120,173 173,146 33,649	1,472,319 88,927 49,268 361,282 177,615 80,058 88,570 49,213 171,121 77,139 120,999 174,227 33,900	1,488,852 89,599 49,629 366,450 179,751 80,819 89,247 49,609 172,593 78,010 122,280 176,798 34,066	1,509,533 90,626 50,338 370,723 182,310 81,777 90,811 50,330 175,453 79,071 124,284 179,473 34,337	1,535,161 91,987 50,874 377,760 186,808 83,283 91,958 51,250 178,542 79,995 125,583 182,445 34,676	1,557,124 92,976 51,403 383,881 189,851 84,440 93,334 51,828 180,852 81,170 127,546 184,931 34,911	1,580,149 94,041 51,790 389,957 193,919 85,430 93,822 52,680 183,188 82,960 129,172 187,900 35,290	1,601,518 95,265 52,984 395,019 196,882 86,183 94,605 53,374 185,561 84,033 130,676 191,467 35,469	1,620,186 95,780 53,182 396,747 201,289 87,280 94,707 53,518 188,551 84,595 132,161 196,815 35,562	1,638,193 97,014 53,759 403,978 203,893 88,019 95,555 54,094 190,432 86,002 133,735 195,755 35,955	1,657,547 98,145 53,827 411,109 206,991 89,326 96,399 54,754 188,436 87,303 135,935 198,751 36,570	1.1 1.3 1.1 1.8 1.3 .8 .9 1.1 1.0 1.7 1.2 5 1.1	1.2 1.2 1.8 1.5 .9 1.2 -1.0 1.5 1.6 1.5 1.7
Southwest	643,609	655,242	666,522	676,461	692,740	702,120	713,181	723,371	731,553	743,460	754,190	1.6	1.4
	97,748	99,234	100,914	102,744	104,765	106,967	109,091	111,522	111,051	115,051	117,435	3.6	2.1
	32,780	33,202	33,404	33,689	34,239	34,543	34,800	35,431	35,190	36,063	36,471	2.5	1.1
	66,453	67,024	67,623	68,676	69,562	70,257	70,847	71,211	71,909	72,927	73,682	1.4	1.0
	446,628	455,782	464,580	471,352	484,174	490,352	498,443	505,206	513,403	519,419	526,601	1.2	1.4
Rocky Mountain	194,734	198,098	201,433	204,128	209,209	211,736	214,437	219,191	222,178	227,417	230,648	2.4	1.4
	101,986	104,199	106,206	108,182	111,925	113,255	114,793	117,823	119,334	122,654	124,766	2.8	1.7
	24,167	24,524	24,894	25,017	25,426	25,622	26,076	26,480	27,054	27,403	27,660	1.3	.9
	17,007	17,182	17,349	17,565	17,547	17,786	17,728	18,246	18,476	18,964	19,024	2.6	.3
	40,836	41,410	42,087	42,393	43,288	44,070	44,561	45,269	45,727	46,729	47,466	2.2	1.6
	10,737	10,783	10,897	10,972	11,023	11,004	11,278	11,372	11,587	11,666	11,732	.7	.6
Far West Alaska Alaska California Hawaii Hawaii Nevada Oregon Washington	1,138,401	1,156,706	1,171,286	1,186,262	1,210,289	1,225,749	1,244,320	1,266,721	1,291,380	1,308,673	1,327,645	1.3	1.4
	14,984	15,237	15,275	15,393	15,805	15,749	15,762	15,978	16,154	16,114	16,236	2	.8
	828,154	842,113	853,136	863,952	881,119	892,504	906,175	923,802	941,435	956,059	969,041	1.6	1.4
	30,224	30,437	30,727	30,669	31,022	31,192	31,316	31,543	31,649	32,061	32,523	1.3	1.4
	43,671	44,255	44,662	45,450	46,344	47,203	48,135	49,497	50,522	51,156	52,435	1.3	2.5
	76,340	77,063	78,110	78,803	80,391	81,101	81,532	82,215	84,336	85,366	86,664	1.2	1.5
	145,028	147,601	149,376	151,995	155,609	157,999	161,400	163,686	167,285	167,917	170,746	.4	1.7

^p Preliminary.
^r Revised.
1. Percent changes are expressed at quarterly rates.

NOTE.-The personal income level shown for the United States is derived as the sum of the State estimates. It differs from the estimate of personal income in the national income and product accounts (NIPA's) because of

differences in coverage, in the methodologies used to prepare the estimates, and in the timing of the availability of source data. In particular, it differs from the NIPA estimate because, by definition, it omits the earnings of Federal civilian and military personnel stationed abroad and of U.S. residents employed abroad temporarily by private U.S. firms.

Table 2.—Personal Income by Major Source [Millions of dollars, seasonally

												Ľ	VIIIIOIIS U	i uullais,	seasonally
				ι	Inited State	s					I	New Engla	nd		
Line	Item		19	98			1999			19	98			1999	
		I	Ш	III	IV	<i>r</i>	r	<i>p</i>	Ι	Ш	III	IV	r	r	<i>P</i>
	Income by Place of Residence														
1 2	Personal income (lines 4-11) Nonfarm personal income	7,016,041 6,976,702	7,108,060 7,067,229	7,199,440 7,159,779	7,309,162 7,255,600	7,406,673 7,360,198	7,504,566 7,456,022	7,601,815 7,564,061	419,963 419,308	426,088 425,407	433,011 432,302	440,347 439,633	443,257 442,572	450,901 450,195	457,711 457.072
3	Farm income (line 17)	39,340	40,830	39,661	53,562	46,475	48,544	37,754	655	423,407	432,302	439,033	442,572 684	430,195	457,072 639
	Derivation of Personal Income														
4	Earnings by place of work (lines 12-16 or 17-34) Less: Personal contributions for social insurance ²	5,044,626 340,434	5,124,942 344,592	5,203,985 349,001	5,305,736 353,611	5,385,643 361,224	5,464,766 364,994	5,545,558 369,773	295,240 19,164	300,574 19,444	306,835 19,797	313,825 20,180	315,016 20,312	321,746 20,674	327,188 20,951
6	Plus: Adjustment for residence 3	-4,045	-4,117	-4,200	-4,285	-4,353	-4,430	-4,629	5,472	5,665	5,713	5,595	5,998	5,968	6,060
7 8	Equals: Net earnings by place of residence Plus: Dividends, interest, and rent ⁴	4,700,147	4,776,233 1,186,108	4,850,784	4,947,839 1,203,134	5,020,066 1,208,900	5,095,342 1,224,662	5,171,156 1,236,995	281,548 74,891	286,795 75,479	292,750 76,103	299,239 76,602	300,702 77,008	307,040 78.040	312,296 79.098
9	Plus: Transfer payments	1,138,923	1,145,719	1,152,883	1,158,189	1,177,707	1,184,562	1,193,664	63,524	63,814	64,158	64,505	65,547	65,821	66,317
10 11	State unemployment insurance benefits Transfers excluding State unemployment insurance benefits	19,195	19,183	19,139	19,119	19,692 1.158.015	19,497 1.165.065	19,396 1.174.268	1,366 62,158	1,315 62.500	1,296 62.862	1,377 63,129	1,464 64,082	1,384 64.437	1,417 64,900
	0 1 7	1,113,720	1,120,000	1,135,744	1,133,070	1,130,013	1,100,000	1,174,200	02,130	02,500	02,002	05,125	04,002	0-1,-57	04,300
	Earnings by Place of Work														
12	Components of earnings: Wage and salary disbursements	4.081.731	4,151,065	4.222.301	4,296,929	4.368.594	4.429.754	4,506,529	240.504	245.193	250,695	256,642	257,168	262,693	267.299
13	Other labor income	402,519	405,438	408,118	410,754	415,375	419,366	423,684	23,546	23,758	24,054	24,358	24,317	24,680	24,944
14 15	Proprietors' income ⁵ Farm proprietors' income	560,376 23,561	568,439 24,418	573,566 22,615	598,053 35,886	601,674 28,329	615,646 29,768	615,345 18,298	31,190 298	31,622 309	32,087 322	32,825 314	33,531 274	34,373 282	34,945 201
16	Nonfarm proprietors' income	536,815	544,021	550,951	562,167	573,345	585,878	597,047	30,892	31,314	31,764	32,511	33,257	34,091	34,744
	Earnings by Industry														
17	Farm earnings	39,340	40,830	39,661	53,562	46,475	48,544	37,754	655	680	708	714	684	705	639
18 19	Nonfarm earnings Private earnings	5,005,287	5,084,111 4,343,932	5,164,324 4,416,112	5,252,174 4,496,663	5,339,168 4,571,333	5,416,222 4,642,463	5,507,804 4,724,779	294,585 260,220	299,893 265,035	306,126 270,812	313,111 277,080	314,332 278,177	321,040 284,310	326,548 289,337
20	Agricultural services, forestry, fishing, and other 6	31,985	32,985	33,852	35,637	36,658	36,699	37,360	1,682	1,735	1,756	1,866	1,936	1,977	2,013
21 22	Mining Construction	44,573 293.067	44,105 299,944	44,406 307,194	44,064 315,162	42,048 323,217	41,319 329.021	41,926 330,658	249 15.076	256 15,363	263 15,665	254 16,229	286 16,795	260 17.323	262 17.204
23	Manufacturing	895,982	898,345	900,079	904,535	906,209	915,265	928,522	55,268	55,615	56,409	57,014	56,650	56,678	57,738
24	Durable goods	556,606	557,180	557,021	561,077	561,164	567,663	577,849	37,510 17,758	37,782	38,279	38,912	38,245 18,405	38,114 18,565	38,972
25 26	Nondurable goods Transportation and public utilities	339,377 346,566	341,166 349,614	343,058 353,910	343,458 361,497	345,046 364,249	347,603 365,975	350,674 371,158	17,758	17,832 16,403	18,130 16.602	18,103 17,115	18,405	18,565	18,765 17,203
27	Wholesale trade	321,321	327,348	332,762	339,683	345,780	350,300	357,408	19,201	19,561	19,774	20,497	20,368	20,852	21,242
28 29	Retail trade Finance, insurance, and real estate	456,152 439.683	464,756 452,999	472,156 462,922	479,740 477.006	489,339 488,213	497,488 498,991	503,982 508,540	25,903 31,215	26,525 31,635	27,143 32,615	27,813 33,972	27,911 35,374	28,875 35,176	29,328 35,792
30	Services	1,443,535	1,473,836	1,508,832	1,539,341	1,575,621	1,607,405	1,645,223	95,180	97,941	100,584	102,321	102,282	106,210	108,555
31	Government and government enterprises	732,423	740,180	748,212	755,510	767,835	773,759	783,026	34,365	34,858	35,315	36,030	36,155	36,730	37,211
32 33	Federal, civilian Military	135,501 48.081	136,084 47,517	136,892 47,482	138,114 47.064	143,701 48,120	143,034 47,718	142,458 47,966	5,494 1.207	5,543 1,195	5,609 1,188	5,691 1,179	5,869 1,194	5,843 1,188	5,860 1,207
34	State and local	548,841	556,578	563,837	570,333	576,014	583,006	592,601	27,664	28,120	28,518	29,160	29,092	29,699	30,143
				New	. I lonen ohiro										

				Ne	w Hampshi	re						Rhode Islar	ıd		
Line	Item		19	98			1999			199	98			1999	
		Ι	Ш	Ш	IV	r	$ ^{r}$	<i>P</i>	I	Ш		IV	r	<i>r</i>	<i>P</i>
	Income by Place of Residence														
1 2 3	Personal income (lines 4-11) Nonfarm personal income Farm income (line 17)	33,646 33,594 52	34,124 34,071 52	34,937 34,885 53	35,796 35,742 54	35,587 35,536 50	36,190 36,136 55	36,692 36,643 49	26,152 26,114 38	26,370 26,331 39	26,762 26,724 39	27,172 27,134 37	27,335 27,303 32	27,564 27,534 30	28,007 27,982 25
	Derivation of Personal Income														
4 5 7 8 9 10 11	Earnings by place of work (lines 12-16 or 17-34) Less: Personal contributions for social insurance ²	22,154 1,552 2,762 23,364 6,017 4,264 31 4,233	22,497 1,572 2,850 23,775 6,062 4,287 32 4,255	23,268 1,621 2,870 24,517 6,110 4,311 33 4,277	24,109 1,676 2,884 25,318 6,149 4,329 35 4,294	23,706 1,653 2,969 25,023 6,181 4,382 28 4,355	24,166 1,680 3,037 25,523 6,260 4,407 30 4,377	24,541 1,701 3,077 25,917 6,340 4,435 28 4,407	16,725 1,308 1,039 16,456 4,348 5,348 149 5,199	16,872 1,315 1,078 16,635 4,371 5,364 139 5,225	17,229 1,339 1,090 16,980 4,396 5,386 133 5,253	17,583 1,361 1,115 17,338 4,421 5,413 140 5,273	17,631 1,370 1,137 17,399 4,440 5,496 149 5,346	17,763 1,374 1,178 17,567 4,489 5,509 135 5,374	18,118 1,398 1,193 17,914 4,537 5,555 146 5,409
	Earnings by Place of Work														
12 13 14 15 16	Components of earnings: Wage and salary disbursements	17,750 1,825 2,579 25 2,554	18,055 1,840 2,602 24 2,578	18,707 1,895 2,666 23 2,643	19,418 1,936 2,755 24 2,732	19,061 1,888 2,758 19 2,739	19,443 1,917 2,806 22 2,783	19,773 1,938 2,830 15 2,815	13,900 1,271 1,554 27 1,527	14,035 1,270 1,567 27 1,539	14,355 1,289 1,585 27 1,558	14,654 1,301 1,628 25 1,603	14,680 1,299 1,651 20 1,632	14,782 1,293 1,688 17 1,670	15,097 1,311 1,710 11 1,699
	Earnings by Industry														
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 33 34	Farm earnings	52 22,102 19,695 5,006 5,006 3,583 1,335 5,503 1,579 2,580 1,548 2,580 1,548 2,407 383 42 1,981	52 22,444 19,985 131 20 5,079 3,671 1,408 1,333 1,582 2,618 1,582 2,618 1,582 2,618 6,285 2,459 388 42 2,029	53 23,215 20,793 19 1,483 5,379 3,948 1,431 1,618 2,681 1,618 2,681 1,618 2,681 1,618 2,681 1,618 2,423 380 42 2,001	54 24,055 21,536 1,621 5,213 3,818 1,394 1,446 1,763 2,850 1,829 6,643 2,520 396 42 2,082	50 23,656 21,136 157 23 1,538 5,050 3,738 1,362 1,363 1,720 2,764 1,800 6,721 2,520 3,988 43 2,080	55 24,111 21,531 22 1,551 5,067 3,747 1,320 1,440 1,824 2,854 1,806 6,814 2,580 42 2,137	49 24,493 21,913 1,525 5,209 3,857 1,352 1,471 1,849 2,911 1,849 2,911 1,849 2,911 1,849 2,911 1,849 2,911 1,849 2,911	38 16,687 13,990 10 838 3,154 2,093 1,061 823 1,546 1,307 5,344 2,697 5,344 2,697 5,344 2,697 5,1546 1,307 5,344	39 16,833 14,145 10 830 3,103 2,029 1,074 871 874 848 1,570 1,350 5,448 2,688 5,448 2,688 2,688 2,200 1,947	39 17,190 14,535 117 10 850 3,152 2,084 1,064 856 1,606 856 1,606 5,628 2,656 5,31 219 1,906	37 17,546 14,790 123 3,102 2,053 1,049 907 914 1,621 1,557 5,624 2,755 5,38 220 1,996	32 17,599 14,748 123 3,244 2,298 946 868 868 901 1,648 1,383 5,614 2,850 5559 223 2,068	30 17,733 14,886 131 10 1,012 2,986 1,034 878 878 925 1,715 1,465 5,765 2,846 5,5765 2,846 5,5765 2,846 2,073	25 18,094 15,185 133 10 1,024 3,053 2,039 1,014 879 939 1,745 1,496 5,907 2,908 551 243 2,115

See footnotes at end of table.

and Earnings by Industry, 1998:I-1999:III adjusted at annual rates]

			s	assachusett	M						Maine							Connecticut			
Line		1999			98	19			1999			98	19			1999			98	19	
_	<i>p</i>	$\ r$	r	IV	Ш	Ш	I	<i>p</i>	r	r	IV	Ш	Ш	I	<i>p</i>	11 "	r	IV	Ш	Ш	I
17 2	215,906 215,737 169	212,737 212,555 182	209,219 209,055 164	206,866 206,697 169	204,031 203,856 175	200,905 200,740 164	197,207 197,055 152	30,390 30,290 100	30,017 29,906 111	29,236 29,139 97	29,271 29,168 104	28,936 28,847 89	28,406 28,319 87	27,865 27,779 85	131,570 131,402 167	129,428 129,250 178	127,236 127,068 168	126,664 126,491 173	123,950 123,769 181	122,052 121,885 168	121,057 120,899 158
19 5 15 6 16 7 28 8 12 9 10	161,711 9,939 –3,895 147,876 36,728 31,302 782 30,520	159,139 9,819 -3,841 145,478 36,186 31,073 756 30,317	156,005 9,661 -3,744 142,600 35,667 30,951 790 30,162	154,047 9,502 -3,657 140,888 35,473 30,504 760 29,744	151,465 9,380 -3,621 138,464 35,236 30,331 704 29,627	148,625 9,230 -3,578 135,816 34,918 30,171 702 29,469	145,047 9,032 -3,437 132,578 34,618 30,011 692 29,319	20,569 1,442 270 19,398 4,965 6,027 77 5,950	20,253 1,422 289 19,120 4,912 5,985 81 5,903	19,498 1,375 289 18,412 4,859 5,965 98 5,868	19,664 1,383 296 18,577 4,836 5,859 87 5,771	19,390 1,370 283 18,303 4,805 5,828 84 5,744	18,900 1,337 273 17,836 4,774 5,797 90 5,707	18,381 1,305 269 17,345 4,744 5,775 103 5,673	91,659 5,753 5,319 91,226 23,648 16,696 340 16,356	89,963 5,669 5,210 89,504 23,360 16,564 339 16,225	88,014 5,565 5,246 87,694 23,067 16,475 350 16,125	88,280 5,574 4,848 87,554 22,945 16,165 310 15,855	85,491 5,410 4,995 85,076 22,797 16,077 298 15,779	83,815 5,321 4,956 83,451 22,618 15,984 307 15,677	83,237 5,307 4,754 82,684 22,450 15,923 343 15,580
7 13 6 14 6 15	133,238 12,147 16,326 50 16,275	131,082 12,033 16,024 67 15,957	128,508 11,880 15,617 53 15,564	127,011 11,784 15,252 60 15,192	124,834 11,705 14,926 71 14,855	122,314 11,587 14,724 64 14,660	119,130 11,401 14,517 55 14,462	16,476 1,613 2,480 6 2,474	16,190 1,595 2,468 20 2,448	15,591 1,542 2,364 9 2,355	15,761 1,567 2,335 18 2,317	15,545 1,565 2,280 6 2,273	15,107 1,537 2,256 7 2,249	14,678 1,507 2,196 9 2,188	74,286 7,082 10,292 48 10,244	72,908 6,998 10,057 62 9,995	71,312 6,889 9,813 56 9,757	71,780 6,948 9,552 64 9,488	69,355 6,780 9,357 76 9,281	67,920 6,710 9,185 66 9,119	67,425 6,734 9,077 60 9,016
12 188 20 19 19 19 167 22 19 177 22 24 182 24 23 192 24 23 192 24 23 192 24 23 192 24 23 192 24 23 192 24 23 192 24 33 193 26 29 194 30 19 191 31 17 193 33 17 193 33 13	165 161,542 144,042 878 8,257 25,714 17,162 8,552 8,453 11,212 14,045 17,286 58,114 17,499 2,833 335 14,327	182 158,957 141,632 863 8,455 8,425 8,445 8,425 8,445 8,324 10,983 13,804 16,989 56,974 17,325 2,833 337 14,155	164 155,841 138,637 90 7,954 25,428 16,857 8,570 8,570 8,257 10,716 13,286 17,295 54,789 17,204 2,847 3,400 14,017	169 153,878 137,262 807 25,539 17,436 8,104 8,414 10,562 13,120 16,128 55,053 16,616 2,768 338 13,510	175 151,290 134,675 761 8,25,194 16,968 8,226 8,144 10,361 12,740 16,002 54,084 16,615 2,730 343 13,542	164 148,460 132,093 758 85 7,204 25,007 17,054 7,953 8,041 10,114 12,524 15,554 15,554 16,368 2,704 340 13,323	152 144,895 128,853 731 81 7,032 24,715 16,781 7,934 7,945 9,967 12,161 15,251 50,970 16,042 2,673 341 13,028	100 20,469 17,261 3,496 3,496 1,752 1,744 1,162 1,744 1,162 1,744 1,457 5,834 3,208 678 2,13 2,317	111 20,142 16,980 235 6 1,525 3,400 1,689 1,711 1,148 1,094 2,436 1,450 5,686 3,163 3,163 3,163 2,14 2,268	97 19,400 16,244 233 6 1,356 3,342 1,644 1,699 1,050 2,342 1,316 5,456 678 210 2,268	$\begin{array}{c} 104\\ 19,560\\ 16,467\\ 218\\ 6\\ 3,455\\ 1,666\\ 1,789\\ 1,156\\ 1,789\\ 5,497\\ 3,093\\ 5,497\\ 3,093\\ 654\\ 206\\ 2,234\end{array}$	89 19,301 16,168 206 6 6 1,325 3,469 1,703 1,766 1,130 1,766 1,130 1,766 1,130 1,765 1,130 1,24 2,348 1,300 5,361 3,133 643 206 2,285	87 18.813 15,783 203 5 1,304 3,419 1,717 1,702 1,121 999 2,272 1,252 5,208 3,030 627 202 2,201	85 18,296 15,332 194 6 1,185 3,321 1,601 1,720 1,147 964 2,210 1,258 5,064 2,964 625 204 2,136	167 91,492 82,015 529 113 4,172 18,083 12,532 5,552 4,679 5,604 7,059 13,094 28,682 9,477 1,117 333 8,028	178 89,786 80,495 519 114 4,202 17,773 12,267 5,506 4,610 5,512 6,976 12,860 27,930 9,291 1,106 331 7,854	168 87,846 78,932 526 131 4,234 17,577 12,229 5,349 4,415 5,491 6,814 13,025 26,718 8,913 1,118 337 7,458	173 88,107 78,598 496 108 4,052 17,725 12,496 5,229 4,618 5,691 6,795 12,523 26,590 9,509 1,074 334 8,101	181 85,310 76,271 4,009 17,177 12,071 5,106 4,456 5,422 6,725 11,694 26,199 9,039 1,067 3,37 7,634	168 83,648 74,778 458 17,016 11,845 5,171 4,470 5,532 6,514 11,354 25,415 8,870 1,052 3,49 7,468	158 83,079 74,242 450 11,062 11,062 11,963 5,099 4,590 5,396 6,402 11,323 24,959 8,837 1,050 3,599 7,428
				Delaware							Mideast							Vermont			
Η		4000	1		1000				1000				100			1000					<u> </u>

			Vermont			I	ĺ			Mideast							Delaware				
	19	98		[1999		[19	98			1999			19	98			1999		Line
I	Ш	Ш	IV	<i>r</i>	<i>r</i>	<i>p</i>	I	II	Ш	IV	<i>r</i>	$ ^{r}$	<i>p</i>	Ι	Ш	Ш	IV	r	r	<i>P</i>	
14,037 13,867 170	14,230 14,060 170	14,394 14,222 172	14,578 14,400 177	14,644 14,471 173	14,965 14,814 151	15,147 15,018 129	1,345,232 1,343,276 1,956	1,364,051 1,362,007 2,045	1,380,603 1,378,536 2,067	1,389,923 1,387,707 2,215	1,420,878 1,418,744 2,134	1,435,616 1,433,467 2,148	1,453,918 1,451,944 1,974	21,892 21,759 133	22,118 21,973 145	22,225 22,085 140	22,796 22,651 145	23,078 22,940 138	23,191 23,067 123	23,541 23,432 109	1 2 3
9,696 660 85 9,121 2,713 2,203 48 2,154	9,864 669 86 9,282 2,736 2,213 45 2,167	9,991 678 96 9,409 2,760 2,225 43 2,181	10,142 685 108 9,565 2,778 2,235 44 2,191	10,162 688 101 9,575 2,792 2,277 49 2,228	10,462 709 95 9,848 2,833 2,283 42 2,241	10,588 718 95 9,966 2,880 2,301 43 2,259	958,200 63,886 -12,712 881,602 233,115 230,515 4,587 225,929	975,642 64,840 -13,001 897,801 234,521 234,521 231,729 4,478 227,251	990,550 65,659 -13,266 911,626 236,024 232,954 4,303 228,651	997,263 65,823 -12,939 918,501 237,307 234,115 4,430 229,685	1,026,484 68,190 -13,594 944,700 238,361 237,817 4,452 233,365	1,038,145 68,670 -13,884 955,591 241,004 239,021 4,287 234,734	1,054,007 69,467 -14,106 970,434 242,707 240,776 4,255 236,521	17,327 1,083 -1,251 14,993 3,927 2,972 64 2,908	17,524 1,092 -1,261 15,171 3,955 2,993 65 2,928	17,550 1,090 -1,237 15,224 3,985 3,016 67 2,949	18,233 1,133 -1,336 15,763 4,011 3,021 57 2,964	18,475 1,153 -1,349 15,973 4,034 3,071 51 3,020	18,470 1,144 -1,313 16,013 4,086 3,092 51 3,041	18,788 1,160 -1,346 16,282 4,141 3,118 51 3,068	4 5 6 7 8 9 10 11
7,621 808 1,267 121 1,146	7,762 814 1,288 120 1,169	7,899 820 1,273 119 1,153	8,018 821 1,303 123 1,180	8,016 819 1,328 117 1,211	8,289 843 1,330 93 1,237	8,429 852 1,307 70 1,237	780,626 74,525 103,049 801 102,248	796,067 75,311 104,264 843 103,421	809,607 75,753 105,191 819 104,372	814,925 75,432 106,906 922 105,984	840,492 77,317 108,676 809 107,867	849,279 77,851 111,015 779 110,236	862,791 78,503 112,712 558 112,155	13,739 1,489 2,099 104 1,995	13,913 1,495 2,116 115 2,001	13,943 1,469 2,138 109 2,029	14,561 1,525 2,147 112 2,034	14,745 1,538 2,192 105 2,087	14,687 1,526 2,257 89 2,168	14,955 1,543 2,290 74 2,215	12 13 14 15 16
170 9,526 8,107 67 2,010 1,489 520 4,717 1,005 528 2,717 1,419 248 41 1,129	170 9,694 8,251 70 24 758 1,992 1,465 567 486 1,028 547 2,780 1,443 252 40 1,151	172 9,820 8,371 70 2,039 1,502 537 588 493 1,043 555 2,866 1,449 258 2,866 1,449 258 40 1,151	177 9,964 8,427 73 1,981 1,443 574 576 2,914 1,537 260 40 1,237	173 9,989 8,479 25 754 2,009 1,480 529 564 491 1,058 555 2,948 1,510 269 41 1,200	151 10,312 8,786 78 244 780 2,096 1,547 549 558 515 1,089 605 3,040 1,526 273 411 1,212	129 10,459 8,921 79 2,182 1,631 551 1,106 621 3,086 1,538 274 41 1,223	1,956 956,244 812,267 4,148 2,304 44,037 137,228 68,755 68,453 68,755 72,450 129,565 72,450 301,545 143,976 35,376 4,243 104,357	2,045 973,597 828,270 4,215 2,303 44,595 69,203 69,203 69,215 73,607 133,747 308,375 145,327 35,366 4,202 105,739	2,067 988,484 840,754 4,270 2,402 45,593 138,110 68,404 69,706 63,348 60,978 74,678 135,579 147,729 35,541 4,225 107,963	2,215 995,048 847,398 4,450 2,369 46,078 137,680 64,078 469,376 64,656 64,656 61,651 176,154 134,155 320,325 147,649 35,751 4,199 107,700	2,134 1,024,350 873,125 4,722 2,393 47,776 138,871 68,600 70,270 63,361 77,152 146,170 329,281 151,225 37,220 4,300 109,706	2,148 1,035,997 883,862 4,639 2,301 49,284 140,262 69,178 71,085 64,198 63,753 78,701 147,004 333,721 152,134 37,049 4,261 110,824	1,974 1,052,033 898,519 4,715 2,347 49,289 141,676 68,916 71,760 64,802 64,902 79,885 341,028 153,514 36,891 4,270 112,353	133 17,194 15,151 1,215 4,571 1,021 3,550 783 644 1,396 2,439 4,022 2,044 252 2,044 252 2,044 252 162 1,630	145 17,379 15,313 75 9 1,192 4,672 1,031 3,641 1,417 2,427 4,100 2,066 252 159 1,655	140 17,411 15,297 80 9 1,244 4,368 993 3,376 675 1,456 2,404 4,285 2,114 252 2,114 252 2,159 1,702	145 18,088 15,983 9 1,187 4,556 1,079 3,477 816 694 1,511 2,767 4,361 2,105 248 159 1,699	138 18,337 16,167 83 9 1,257 4,549 1,138 3,412 2,889 4,341 2,170 2,655 1,743	123 18,347 16,200 85 9 1,408 4,658 1,083 3,575 803 717 1,565 2,521 4,435 2,521 4,435 2,521 4,435 2,521 4,435 2,521 4,435 2,521 4,435 2,521 4,435 2,521 4,435 2,521 4,435 2,521 4,435 2,521 4,435 2,521 4,435 2,521 4,521 4,521 2,521 4,521	109 18,679 16,506 87 9 1,413 4,745 1,080 3,664 809 728 1,597 4,533 2,173 2,587 4,533 2,173 2,700 165 1,738	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

Table 2.—Personal Income by Major Source [Millions of dollars, seasonally

														or donaro,	
				Distr	ict of Colun	nbia						Maryland			
Line	Item		19	98			1999			199	98			1999	
		I	II	III	IV	r	r	<i>P</i>	Ι	Ш	Ш	IV	r	r	<i>P</i>
	Income by Place of Residence														
1 2 3	Personal income (lines 4-11) Nonfarm personal income Farm income (line 17)	19,191 19,191 0	19,408 19,408 0	19,687 19,687 0	19,817 19,817 0	20,235 20,235 0	20,450 20,450 0	20,709 20,709 0	150,778 150,432 346	153,116 152,738 378	155,299 154,927 372	157,464 157,061 403	159,802 159,433 369	161,725 161,375 350	163,589 163,284 305
	Derivation of Personal Income														
4 5 6 7 8 9 10 11	Earnings by place of work (lines 12-16 or 17-34) Less: Personal contributions for social insurance ²	36,297 2,338 -21,962 11,997 3,140 4,053 64 3,990	36,801 2,362 -22,248 12,191 3,151 4,066 60 4,006	37,744 2,416 -22,885 12,443 3,163 4,081 58 4,023	37,674 2,400 -22,733 12,541 3,181 4,094 58 4,036	39,075 2,505 -23,670 12,900 3,197 4,138 55 4,082	39,493 2,521 -23,917 13,054 3,235 4,161 62 4,099	40,045 2,546 -24,239 13,261 3,273 4,175 53 4,122	94,809 6,449 14,779 103,138 25,527 22,112 331 21,782	96,743 6,559 14,979 105,163 25,706 22,246 334 21,912	98,314 6,646 15,381 107,049 25,897 22,352 303 22,050	100,287 6,754 15,429 108,962 26,063 22,439 287 22,152	101,528 6,875 16,161 110,815 26,198 22,789 274 22,515	103,204 6,962 16,055 112,296 26,511 22,918 268 22,650	104,388 7,017 16,324 113,695 26,816 23,078 253 22,826
	Earnings by Place of Work														
12 13 14 15 16	Components of earnings: Wage and salary disbursements	31,299 2,659 2,339 0 2,339	31,765 2,674 2,362 0 2,362	32,632 2,722 2,391 0 2,391	32,560 2,686 2,427 0 2,427	33,814 2,790 2,472 0 2,472	34,158 2,808 2,527 0 2,527	34,634 2,825 2,586 0 2,586	79,058 7,130 8,621 230 8,390	80,770 7,228 8,745 258 8,487	82,198 7,277 8,839 246 8,592	83,903 7,345 9,038 273 8,765	84,989 7,410 9,129 236 8,894	86,382 7,509 9,313 213 9,101	87,418 7,545 9,425 163 9,262
	Earnings by Industry														
17 18 19 20 21 22 23 23 25 26 27 28 29 30 31 32 33 34	Farm earnings	0 36,297 21,956 16 432 1,000 125 876 1,348 332 907 2,125 15,504 14,339 11,766 744 1,829	0 36,801 22,319 303 17 433 1,080 195 885 1,179 339 908 2,307 15,752 14,482 11,808 738 738 1,937	0 37,744 23,175 288 15 434 1,117 165 951 1,164 298 901 2,414 16,544 14,569 11,880 740 1,948	0 37,674 23,015 284 15 1,012 176 836 1,217 339 936 2,353 16,421 14,659 11,931 728 2,000	0 39,075 24,007 334 16 418 1,131 192 939 1,422 436 921 2,343 16,986 15,068 12,471 751 1,846	0 39,493 24,347 327 18 412 1,132 227 905 1,454 415 928 2,545 17,119 15,145 12,388 761 1,996	0 40,045 24,840 331 18 409 1,120 198 922 1,440 430 954 2,553 15,206 12,396 759 2,051	346 94,463 74,660 542 92 6,520 8,714 4,743 3,971 5,515 5,357 8,940 7,464 31,516 19,803 8,199 1,375 10,228	378 96,365 76,230 90 6,590 8,751 4,778 3,974 5,560 5,440 9,087 8,245 3,974 5,440 9,087 8,245 3,1915 20,134 8,251 10,528	372 97,942 77,177 578 96 6,786 8,653 4,651 4,002 5,610 9,139 8,123 32,660 20,765 8,303 1,360 1,102	403 99,884 597 99 7,057 8,852 4,673 4,179 5,663 9,474 8,483 33,771 20,256 8,399 1,351 10,506	369 101,160 79,581 8,842 4,695 4,147 5,579 9,353 8,299 34,035 21,579 8,760 1,398 11,421	350 102,854 82,002 630 92 7,335 8,953 4,725 4,228 5,883 9,413 8,916 35,096 20,852 8,713 1,370 10,769	305 104,083 83,356 641 93 7,352 8,997 4,752 4,245 5,813 5,978 9,540 9,052 35,893 20,727 8,599 1,358 10,770

				(Great Lakes							Illinois			
Line	Item		19	98			1999			19	98			1999	
		I	Ш	=	IV	r	r	<i>p</i>	I	Ш	III	IV	<i>r</i>	r	<i>p</i>
	Income by Place of Residence														
1 2 3	Personal income (lines 4-11) Nonfarm personal income Farm income (line 17)	1,143,432 1,140,526 2,906	1,155,114 1,152,040 3,074	1,163,136 1,160,049 3,086	1,185,908 1,180,039 5,869	1,192,794 1,188,474 4,320	1,207,693 1,203,550 4,142	1,223,340 1,220,458 2,882	342,467 341,818 649	346,668 346,029 638	350,023 349,304 718	356,961 354,965 1,996	361,142 359,774 1,368	366,399 365,161 1,238	371,323 370,518 806
	Derivation of Personal Income														
4 5 7 8 9 10	Earnings by place of work (lines 12-16 or 17-34) Less: Personal contributions for social insurance ²	831,904 55,805 3,233 779,332 188,330 175,770 3,380 172,391	841,687 56,252 3,321 788,757 189,789 176,568 3,269 173,299	846,671 56,382 3,410 793,699 191,331 178,106 3,845 174,261	869,488 57,548 3,346 815,286 192,475 178,147 3,175 174,972	873,208 58,140 3,448 818,515 193,362 180,917 3,414 177,502	885,424 58,756 3,531 830,200 195,876 181,617 3,173 178,444	897,629 59,433 3,592 841,788 198,670 182,881 3,208 179,673	251,504 16,312 -916 234,276 60,502 47,689 1,126 46,563	255,161 16,492 -921 237,748 60,983 47,937 1,103 46,834	257,870 16,593 -892 240,385 61,490 48,148 1,027 47,121	264,597 16,889 -980 246,728 61,865 48,368 1,034 47,334	267,979 17,221 -1,005 249,754 62,158 49,231 1,142 48,088	272,453 17,450 -1,024 253,980 62,977 49,442 1,073 48,369	276,318 17,648 -1,054 257,617 63,858 49,849 1,113 48,736
	Earnings by Place of Work														
12 13 14 15 16	Components of earnings: Wage and salary disbursements	689,597 71,726 70,581 994 69,587	698,363 71,832 71,492 1,085 70,407	702,969 71,497 72,205 1,020 71,184	720,674 72,595 76,219 3,727 72,492	724,524 72,662 76,022 2,136 73,886	734,906 73,279 77,239 1,901 75,338	746,452 73,942 77,235 580 76,656	205,528 20,701 25,275 309 24,966	208,756 20,803 25,602 285 25,316	210,955 20,791 26,125 351 25,773	215,652 21,019 27,926 1,615 26,311	218,811 21,242 27,926 980 26,946	222,523 21,489 28,441 838 27,603	225,982 21,681 28,655 393 28,262
	Earnings by Industry														
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	Farm earnings Nonfarm earnings Private earnings Agricultural services, forestry, fishing, and other ⁶ Mining Construction Manufacturing Durable goods Nondurable goods Transportation and public utilities Wholesale trade Retail trade Finance, insurance, and real estate Services Government and government enterprises Federal, civilian Military State and local	2,906 828,998 726,123 3,881 2,593 48,166 221,256 153,953 67,303 50,461 55,012 72,072 61,309 211,362 102,875 11,463 2,530 85,912	3,074 838,612 4,063 2,523 49,057 219,653 152,619 67,035 51,088 55,964 62,413 215,537 104,311 14,512 2,492 87,307	3,086 843,584 739,202 4,056 2,655 249,874 216,952 149,750 67,202 51,901 56,443 74,143 63,383 219,796 104,382 14,630 2,522 87,230	5,869 863,619 758,530 4,450 2,616 50,828 222,356 153,966 68,391 53,465 58,066 67,5435 67,640 223,675 105,088 14,817 2,501 87,771	4,320 868,888 762,011 4,456 2,520 52,157 222,666 154,333 68,333 52,079 58,347 76,358 67,160 226,268 106,877 15,433 2,504 88,940	4,142 881,282 773,203 2,457 52,739 224,150 155,676 68,473 51,868 59,276 51,868 68,193 232,356 108,079 15,389 2,449 90,241	$\begin{array}{c} 2,882\\ 894,747\\ 785,182\\ 4,563\\ 2,488\\ 52,593\\ 228,031\\ 158,729\\ 69,302\\ 52,398\\ 60,479\\ 78,393\\ 69,414\\ 236,823\\ 109,566\\ 15,293\\ 2,609\\ 91,664 \end{array}$	649 250,856 220,647 1,195 709 13,656 49,709 30,285 19,424 18,341 18,214 20,150 25,819 72,853 30,209 4,668 1,251 24,289	638 254,523 223,825 1,242 686 13,924 49,565 30,194 19,371 18,600 18,452 20,854 25,928 74,573 30,698 4,648 1,229 24,821	718 257,152 226,128 1,238 774 14,622 48,608 29,292 19,316 18,975 18,531 20,747 25,881 76,754 31,024 4,679 1,269 25,075	1,996 262,601 231,613 1,404 732 14,781 48,906 29,268 19,638 19,486 19,005 78,271 30,988 4,713 1,256 25,018	1,368 266,610 234,797 1,352 690 15,418 49,319 29,902 19,417 19,038 19,422 21,614 29,218 78,726 31,814 4,900 1,232 25,681	$\begin{array}{c} 1,238\\271,215\\239,053\\690\\15,401\\50,505\\30,784\\19,721\\18,965\\19,776\\28,589\\81,966\\32,162\\4,898\\1,189\\26,075\end{array}$	806 275,512 242,777 1,419 712 15,369 51,750 31,593 20,157 19,117 20,069 21,979 29,031 83,330 32,735 4,833 1,349 26,553

See footnotes at end of table.

and Earnings by Industry, 1998:I-1999:III-Continued adjusted at annual rates]

		I	New Jersey	/						New York						F	Pennsylvani	а			
	19	98			1999			19	98			1999			19	98			1999		Line
I	Ш	=	IV	Γ	r	<i>p</i>	-	Ш	Ш	IV	<i>r</i>	$ ^r$	<i>P</i>	Ι	=	Ш	IV	<i>r</i>	<i>r</i>	<i>p</i>	
270,299 270,108 191	273,177 272,979 197	278,572 278,369 203	280,078 279,868 210	288,406 288,193 212	291,133 290,918 215	294,092 293,873 219	565,642 565,119 524	575,201 574,662 539	581,019 580,459 560	581,208 580,563 645	598,865 598,260 604	603,200 602,544 657	612,924 612,328 597	317,430 316,668 762	321,031 320,246 785	323,801 323,009 792	328,561 327,748 813	330,493 329,682 811	335,917 335,113 803	339,062 338,318 744	1 2 3
180,065 12,503 16,724 184,287 50,072 35,940 1,143 34,797	181,941 12,585 17,366 186,722 50,373 36,081 1,082 34,999	187,487 12,946 17,144 191,686 50,694 36,193 980 35,213	188,632 12,970 17,034 192,696 50,971 36,411 1,040 35,371	196,178 13,591 17,629 200,216 51,194 36,996 1,063 35,932	198,190 13,667 17,672 202,195 51,729 37,209 1,068 36,141	200,975 13,803 18,053 205,225 51,426 37,441 1,027 36,414	413,014 26,539 -22,623 363,852 96,042 105,748 1,599 104,150	422,859 27,104 -23,481 372,274 96,610 106,317 1,518 104,799	427,616 27,333 -23,454 376,829 97,214 106,976 1,490 105,486	426,075 27,068 -23,089 375,918 97,709 107,581 1,587 105,994	444,203 28,473 -24,404 391,326 98,110 109,429 1,630 107,799	446,840 28,484 -24,338 394,018 99,188 109,994 1,523 108,471	455,590 28,946 -24,940 401,704 100,360 110,860 1,512 109,348	216,687 14,973 1,621 203,334 54,406 59,690 1,386 58,303	219,773 15,138 1,644 206,280 54,726 60,025 1,418 58,608	221,839 15,229 1,784 208,395 55,071 60,336 1,405 58,930	226,362 15,499 1,756 212,620 55,372 60,569 1,400 59,169	227,024 15,593 2,039 213,471 55,628 61,394 1,378 60,016	231,948 15,891 1,958 218,015 56,255 61,647 1,316 60,332	234,220 15,994 2,042 220,267 56,692 62,103 1,359 60,744	4 5 7 8 9 10 11
148,699 14,131 17,235 47 17,188	150,371 14,156 17,414 47 17,367	155,356 14,501 17,629 47 17,582	156,325 14,417 17,890 48 17,841	163,010 14,920 18,248 47 18,201	164,511 15,010 18,668 44 18,624	166,843 15,107 19,025 42 18,984	334,122 30,395 48,498 106 48,392	342,821 30,930 49,109 105 49,004	347,218 30,936 49,462 109 49,353	345,358 30,455 50,262 177 50,085	361,509 31,691 51,003 125 50,878	362,955 31,698 52,188 161 52,027	370,366 32,126 53,099 84 53,015	173,709 18,720 24,258 314 23,944	176,427 18,828 24,518 319 24,200	178,259 18,848 24,732 308 24,425	182,217 19,004 25,142 311 24,831	182,426 18,967 25,631 296 25,335	186,586 19,301 26,061 272 25,789	188,576 19,356 26,288 195 26,093	12 13 14 15 16
191 179,874 154,997 806 263 8,109 27,762 10,030 17,732 15,345 16,178 14,139 17,014 55,382 24,877 3,300 521 21,056	197 181,744 156,644 8,116 27,754 9,786 15,645 16,433 14,221 16,703 56,706 25,100 3,308 515 21,277	203 187,284 161,904 806 265 8,333 28,614 10,155 18,459 15,892 16,926 14,427 18,144 58,496 25,380 3,324 528 21,528	210 188,423 163,025 843 271 18,203 15,945 17,262 14,484 18,894 58,885 25,397 3,339 524 21,534	212 195,966 169,798 919 28,299 28,830 10,292 18,538 15,648 15,207 19,943 62,272 26,168 3,480 530 22,158	215 197,975 171,767 864 262 8,921 29,465 18,990 15,573 18,080 15,573 18,080 15,573 18,080 15,373 20,000 63,252 26,207 3,453 533 22,221	219 200,756 174,474 879 2699 8,922 29,592 10,438 19,154 15,753 16,627 20,340 64,698 26,283 3,437 534 22,312	524 412,491 335,966 15,458 50,259 26,465 23,794 24,326 23,759 27,214 83,435 129,801 56,524 6,584 913 49,027	539 422,320 365,401 1,391 337 15,689 50,997 27,086 23,912 25,207 24,178 27,834 86,529 133,238 56,919 6,579 916 49,424	560 427,056 368,857 1,418 331 50,147 26,172 23,975 24,712 24,684 28,504 87,071 136,039 58,199 6,622 917 50,659	645 425,430 367,632 1,487 330 16,093 50,236 26,444 23,792 25,164 23,792 25,164 23,792 26,948 83,195 137,641 57,798 6,649 920 50,229	604 443,598 384,188 1,565 50,330 26,097 24,234 24,718 25,094 29,369 94,577 141,413 59,410 6,901 929 51,580	657 446,184 386,061 1,525 334 17,202 50,307 26,219 24,088 25,172 25,276 30,031 94,097 142,116 60,123 6,898 910 52,314	597 454,994 333,795 1,549 338 17,424 51,428 26,935 24,492 25,453 30,547 95,917 145,384 61,199 6,870 932 53,397	762 215,924 189,534 1,054 1,588 12,304 44,922 26,392 18,530 14,888 12,496 19,855 17,108 65,321 26,390 5,274 529 20,587	785 218,988 192,362 1,592 12,576 45,113 26,289 18,824 14,998 12,662 20,142 20,142 17,530 66,663 26,626 5,189 5,19 20,918	792 221,047 194,344 1,099 1,686 12,845 45,210 26,268 18,943 15,194 12,864 20,251 17,621 67,574 26,703 5,160 5,200 21,023	813 225,549 198,115 1,645 13,066 44,821 25,933 18,888 15,851 13,066 20,800 18,463 69,247 27,434 5,184 5,17 21,733	811 226,214 199,384 1,664 43,674 45,187 26,186 19,001 15,258 13,304 20,759 18,118 70,233 26,829 5,342 5,30 20,958	803 231,145 203,485 1,586 14,005 45,747 26,448 19,298 15,513 13,374 21,422 18,927 71,703 27,660 5,331 5,24 21,805	744 233,475 205,547 1,620 13,770 45,794 26,513 19,282 15,614 13,619 21,630 19,304 72,967 27,928 5,320 5,320 5,211 22,086	17 18 20 21 22 23 24 25 26 27 28 29 30 31 32 33 33 34
			Indiana							Michigan							Ohio				
	19	98			1999			19	98			1999			19	98			1999		Line

L				Inuiana							wichigan							UIIU				
		19	98			1999			19	98			1999			19	98			1999		Line
Γ	Ι	=	≡	IV	1^r	$ ^{r}$	<i>p</i>	I	11	Ш	IV	r	$\ r$	$ _{p}$	Ι	11	Ш	IV	r	$\parallel r$	<i>p</i>	
	140,635 140,065 570	142,285 141,678 607	143,902 143,280 622	146,627 145,424 1,203	147,355 146,463 892	148,532 147,628 904	150,129 149,492 637	253,117 252,867 250	254,683 254,399 284	253,375 253,037 338	258,980 258,387 593	259,761 259,367 394	262,359 261,918 441	265,883 265,762 121	278,627 277,596 1,031	280,966 279,878 1,088	283,518 282,548 970	288,569 287,187 1,383	290,063 288,900 1,163	293,306 292,196 1,110	297,072 296,221 851	1 2 3
	103,002 7,012 2,783 98,772 21,228 20,635 244 20,391	104,404 7,084 2,822 100,142 21,399 20,744 253 20,491	105,709 7,154 2,857 101,413 21,579 20,910 313 20,597	108,394 7,277 2,898 104,015 21,699 20,912 237 20,675	108,751 7,355 2,953 104,348 21,793 21,214 258 20,956	109,496 7,379 3,025 105,142 22,089 21,300 240 21,061	110,615 7,447 3,085 106,254 22,434 21,442 245 21,197	184,171 12,383 817 172,606 41,203 39,308 911 38,396	185,299 12,412 839 173,727 41,528 39,428 838 38,590	182,724 12,186 889 171,427 41,872 40,077 1,281 38,796	188,697 12,531 884 177,050 42,124 39,807 859 38,948	188,748 12,607 899 177,040 42,303 40,418 929 39,489	190,781 12,691 910 179,000 42,854 40,505 815 39,691	193,618 12,861 904 181,661 43,507 40,715 762 39,954	201,852 14,138 -1,653 186,062 43,608 48,958 632 48,326	203,735 14,213 -1,660 187,862 43,907 49,197 622 48,575	205,681 14,309 -1,686 189,686 44,226 49,606 767 48,839	210,811 14,595 -1,756 194,460 44,484 49,626 591 49,035	211,482 14,719 -1,752 195,011 44,690 50,362 633 49,729	214,101 14,858 -1,764 197,479 45,219 50,608 620 49,987	217,134 15,033 -1,779 200,321 45,780 50,972 647 50,325	4 5 7 8 9 10 11
	84,483 9,227 9,292 344 8,948	85,744 9,259 9,400 371 9,029	86,963 9,293 9,453 377 9,076	88,853 9,395 10,147 949 9,197	89,362 9,433 9,956 633 9,323	89,979 9,409 10,108 637 9,472	91,177 9,475 9,964 362 9,602	155,653 17,123 11,395 -246 11,641	156,742 17,030 11,527 -231 11,758	154,557 16,593 11,574 -197 11,771	159,632 17,030 12,036 38 11,998	159,812 16,987 11,949 –171 12,120	161,463 17,048 12,271 –138 12,408	164,301 17,230 12,087 -472 12,559	167,732 16,419 17,701 750 16,952	169,411 16,399 17,925 796 17,130	171,290 16,409 17,982 666 17,317	175,480 16,632 18,699 1,067 17,631	176,101 16,603 18,778 841 17,937	178,417 16,740 18,944 778 18,166	181,267 16,898 18,968 509 18,459	12 13 14 15 16
	570 102,431 90,348 455 425 7,037 32,718 32,718 5,850 9,515 6,027 22,168 12,084 1,742 225 10,117	607 103,797 91,493 91,493 470 406 7,143 32,632 23,320 9,312 6,185 5,964 9,615 6,196 6,196 22,841 12,304 1,755 222 10,327	622 105,087 92,622 476 428 7,107 32,720 23,265 9,454 6,322 6,060 9,782 6,409 23,319 12,465 1,771 1,221 10,472	1,203 107,191 94,753 505 423 7,171 33,387 23,504 9,884 6,600 6,227 9,938 6,782 23,720 12,439 1,829 220 10,389	892 107,858 95,002 520 408 7,179 34,177 23,534 10,644 6,313 6,200 9,983 6,200 23,641 12,857 1,938 224 10,694	904 108,592 95,663 387 7,233 33,384 23,792 9,592 6,294 6,340 10,313 6,658 24,526 12,929 1,953 223 10,753	637 109,978 96,890 405 7,150 33,914 24,065 9,849 6,355 6,435 10,397 6,767 24,927 13,088 1,952 224 10,912	250 183,922 160,962 815 468 10,160 58,900 47,156 11,750 9,167 11,753 15,226 9,948 44,521 22,960 2,661 250 20,049	284 185,015 161,994 463 447 10,356 58,032 46,205 11,827 9,222 12,124 15,746 10,245 44,959 23,021 2,703 249 20,069	338 182,386 159,597 159,597 44,372 11,623 9,297 11,881 15,638 44,783 22,788 2,736 2,788 2,736 2,48 19,804	593 188,104 165,590 931 431 10,607 58,927 47,205 11,722 9,656 12,354 15,912 10,968 45,805 22,514 2,757 249 19,508	394 188,354 165,663 10,545 59,280 47,783 11,497 9,418 12,370 16,141 10,250 46,306 22,691 2,854 19,582	441 190,340 167,512 945 407 11,194 59,006 47,253 11,753 9,211 12,508 16,362 10,788 47,091 22,828 2,834 2,834 2,823 2,945 2,947	121 193,497 170,456 380 11,186 59,981 11,804 9,320 12,884 11,804 9,320 12,884 48,232 20,084 48,232 23,041 2,821 2,821 2,821 2,821 2,821 2,821	$\begin{array}{c} 1,031\\ 200,821\\ 174,962\\ 852\\ 11,360\\ 54,099\\ 37,068\\ 17,031\\ 11,478\\ 13,499\\ 18,952\\ 13,298\\ 50,510\\ 25,859\\ 4,097\\ 609\\ 21,152\end{array}$	$\begin{array}{c} 1,088\\ 202,646\\ 176,533\\ 947\\ 841\\ 11,520\\ 53,580\\ 36,719\\ 16,861\\ 11,529\\ 13,646\\ 19,230\\ 13,688\\ 51,552\\ 26,114\\ 4,130\\ 598\\ 21,385\end{array}$	970 204,711 178,932 954 851 11,764 53,532 36,560 16,972 11,751 13,975 19,446 14,063 52,594 25,779 4,152 593 21,034	$\begin{array}{c} 1,383\\209,428\\183,015\\1,032\\880\\12,024\\54,501\\37,377\\17,124\\12,084\\14,438\\19,917\\14,847\\53,292\\26,413\\4,193\\588\\21,632\end{array}$	1,163 210,319 183,234 1,053 863 12,324 54,226 37,149 17,078 14,337 19,748 14,386 54,545 27,085 4,355 2602 22,128	1,110 212,992 1,001 837 12,134 54,648 37,268 17,380 11,713 14,501 20,281 15,144 55,144 27,589 4,348 596 22,645	851 188,281 1,018 851 12,227 55,409 37,969 17,440 11,853 14,804 20,460 15,452 56,205 28,002 4,334 594 23,074	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

SURVEY OF CURRENT BUSINESS

Table 2.—Personal Income by Major Source [Millions of dollars, seasonally

														,	
					Wisconsin							Plains			
Line	Item		19	98			1999			199	98			1999	
		Ι	11	=	IV	r	r	<i>p</i>	Ι	Ш	Ш	IV	r	<i>r</i>	<i>P</i>
	Income by Place of Residence														
1 2	Personal income (lines 4-11) Nonfarm personal income	128,587 128,180	130,512 130,055	132,318 131,880	134,771 134.076	134,472 133,970	137,098 136,648	138,932 138,465	460,014 453.825	466,078 459,760	470,605 464,449	482,185 470.093	484,446 475,118	492,615 482,947	496,817 489,394
3	Farm income (line 17)	407	457	437	695	502	450	467	6,190	6,318	6,156	12,092	9,328	9,668	7,423
	Derivation of Personal Income														
4 5	Earnings by place of work (lines 12-16 or 17-34) Less: Personal contributions for social insurance ²	91,375 5,960	93,088 6,050	94,686 6,140	96,989 6,256	96,248 6,239	98,593 6,378	99,944 6,444	337,043 24,116	342,607 24,432	346,425 24,643	357,527 24,926	358,737 25,311	366,097 25,744	368,918 26,010
6	Plus: Adjustment for residence ³ Equals: Net earnings by place of residence	2,202 87.616	2,241 89,278	2,243 90,789	2,300 93.032	2,353 92,362	2,384 94,599	2,436 95,936	-4,125 308,801	-4,209 313,966	-4,269 317,512	-4,302 328,299	-4,365 329,062	-4,455 335,899	-4,518 338,389
8	Plus: Dividends, interest, and rent ⁴	21,790	21,972	22,164	22,304	22,418	22,738	23,092	80,080	80,625	81,204	81,658	82,011	83,008	84,117
9 10	Plus: Transfer payments State unemployment insurance benefits	19,181 466	19,262 453	19,365 457	19,434 454	19,692 453	19,761 425	19,904 443	71,133 1.014	71,487 978	71,888 967	72,228 1.001	73,374 1.062	73,709 993	74,311 1.068
11	Transfers excluding State unemployment insurance benefits	18,715	18,809	18,907	18,980	19,239	19,336	19,462	70,119	70,509	70,922	71,227	72,312	72,715	73,242
	Earnings by Place of Work														
12	Components of earnings: Wage and salary disbursements	76,201	77,710	79,204	81.057	80.438	82,524	83,724	272,397	277,255	280,854	285,292	288,355	294,318	298.609
13	Other labor income	8,256	8,340	8,412	8,520	8,397	8,593	8,659	27,992	28,249	28,295	28,415	28,598	29,056	29,270
14 15	Proprietors' income ⁵ Farm proprietors' income	6,918 -162	7,038 -135	7,070	7,412 57	7,413 -146	7,476 -213	7,561 -213	36,654 4,510	37,103 4.571	37,276 4,341	43,820 10,209	41,784 7.398	42,724 7.674	41,039 5.360
16	Nonfarm proprietors' income	7,080	7,174	7,247	7,354	7,560	7,689	7,773	32,144	32,533	32,935	33,611	34,386	35,050	35,679
	Earnings by Industry														
17 18	Farm earnings Nonfarm earnings	407 90.968	457 92,631	437 94,249	695 96,294	502 95,746	450 98.143	467 99,477	6,190 330,853	6,318 336,289	6,156 340,269	12,092 345,435	9,328 349,409	9,668 356,429	7,423 361,495
19	Private earnings	79,204	80,456	81,923	83,559	83,315	85,573	86,778	283,293	288,428	292,006	296,350	300,032	306,260	310,955
20 21	Agricultural services, forestry, fishing, and other ⁶ Mining	511 139	541 143	545 147	578 150	597 138	608 136	619 139	2,105 1.662	2,214 1.659	2,241 1.676	2,356 1.634	2,469 1,511	2,495 1,494	2,540 1.501
22	Construction	5,954	6,114	6,236	6,245	6,691	6,778	6,662	21,327	21,668	22,177	22,719	23,704	24,081	24,261
23	Manufacturing	25,824	25,844	26,096	26,635	25,664	26,607	26,978	65,114	65,753	65,830	65,208	65,452	66,439	67,444
24 25	Durable goods Nondurable goods	16,104 9,720	16,180 9.663	16,259 9,837	16,612 10.023	15,965 9,699	16,579 10.028	16,926 10.052	38,999 26,114	39,301 26,452	39,140 26,690	38,860 26,348	38,579 26,873	39,248 27,192	40,015 27,429
26	Transportation and public utilities	5,321	5,551	5,557	5,640	5,557	5,685	5,752	25,275	25,617	25,389	26,160	26,642	26,557	26,627
27	Wholesale trade	5,696	5,778	5,996	6,041	6,018	6,151	6,286	24,560	24,978	25,241	25,627	25,815	26,258	26,806
28 29	Retail trade Finance, insurance, and real estate	8,230 6,217	8,518 6,354	8,536 6,462	8,694 6,988	8,872 6,726	8,964 7.014	9,034 7,179	31,840 25,313	32,398 26,567	33,140 26,820	33,464 28,160	34,585 27,539	34,796 29,359	35,263 29,837
29 30	Services	21,311	21.613	22,347	22,588	23,050	23.629	24,129	25,313	20,007	89.491	91.022	27,539 92,314	29,359	29,837
31	Government and government enterprises	11,764	12,175	12,326	12,735	12,431	12,570	12,699	47,560	47,861	48,263	49,085	49,378	50,169	50,540
32	Federal, civilian	1,264	1,278	1,291	1,325	1,386	1,356	1,353	7,639	7,712	7,805	7,877	8,164	8,170	8,156
33 34	Military State and local	194 10.306	193 10.705	191 10.844	188 11.223	192 10.854	190 11.024	191 11.156	2,453 37,468	2,410 37,739	2,407 38.051	2,374 38.834	2,422 38,791	2,408 39,591	2,410 39,973
34		10,300	10,705	10,044	11,223	10,004	11,024	11,100	37,400	51,139	30,00 I	30,034	30,191	39,991	39,913

	State and local	10,306	10,705	10,844	11,223	10,854	11,024	11,156	37,468	37,739	38,051	38,834	38,791	39,591	39,973
					Missouri							Nebraska			
Line	Item		199	98			1999			199	98			1999	
		I	Ш	Ш	IV	<i>r</i>	r	<i>P</i>	I	П	Ш	IV	<i>r</i>	r	<i>p</i>
	Income by Place of Residence														
1 2 3	Personal income (lines 4-11) Nonfarm personal income Farm income (line 17)	130,680 130,525 155	132,228 132,087 141	133,834 133,604 231	135,080 134,394 686	136,906 136,500 406	138,775 138,345 430	139,964 139,822 142	40,140 38,714 1,426	40,820 39,365 1,455	41,349 39,882 1,467	42,538 40,093 2,445	42,435 40,600 1,835	43,082 41,364 1,718	43,198 41,915 1,283
5	Derivation of Personal Income	155	141	201	000	400	400	142	1,420	1,400	1,407	2,775	1,000	1,710	1,200
4 5 7 8 9 10	Earnings by place of work (lines 12-16 or 17-34) Less: Personal contributions for social insurance ² Plus: Adjustment for residence ³ Equals: Net earnings by place of residence Plus: Dividends, interest, and rent ⁴ Plus: Transfer payments State unemployment insurance benefits Transfers excluding State unemployment insurance benefits	94,711 6,541 -3,703 84,468 23,610 22,602 264 22,338	96,059 6,613 -3,750 85,696 23,777 22,755 286 22,469	97,506 6,686 -3,825 86,995 23,953 22,886 278 22,608	98,486 6,692 -3,786 88,009 24,077 22,994 284 22,710	100,175 6,861 -3,937 89,376 24,176 23,354 279 23,075	101,750 6,947 -3,978 90,825 24,476 23,474 263 23,210	102,439 6,986 -3,997 91,455 24,835 23,674 287 23,387	29,701 2,132 -589 26,980 7,199 5,961 42 5,919	30,370 2,173 -608 27,589 7,232 5,999 46 5,953	30,869 2,201 -622 28,047 7,266 6,036 46 5,990	31,991 2,202 -616 29,172 7,304 6,061 43 6,018	31,813 2,242 -630 28,941 7,335 6,159 44 6,115	32,392 2,288 -647 29,457 7,425 6,200 49 6,151	32,385 2,309 -652 29,424 7,528 6,246 48 6,198
	Earnings by Place of Work														
12 13 14 15 16	Components of earnings: Wage and salary disbursements	77,987 8,218 8,506 –51 8,557	79,211 8,275 8,573 -74 8,646	80,441 8,314 8,751 8 8,744	80,863 8,257 9,366 454 8,912	82,503 8,421 9,252 169 9,083	83,838 8,488 9,424 187 9,238	84,658 8,503 9,278 -109 9,387	23,042 2,331 4,328 1,139 3,189	23,599 2,370 4,402 1,156 3,246	24,007 2,389 4,474 1,157 3,317	24,127 2,371 5,492 2,123 3,368	24,443 2,384 4,986 1,504 3,483	25,028 2,440 4,923 1,373 3,551	25,369 2,454 4,562 923 3,639
	Earnings by Industry														
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 33 33 33	Farm earnings	155 94,556 81,710 481 264 6,160 18,406 10,536 8,969 7,113 25,751 12,846 2,620 617 9,610	141 95,917 82,915 508 276 6,279 18,534 10,562 7,972 8,080 6,702 9,118 7,435 25,983 13,002 2,658 6,05 9,738	231 97,276 84,090 517 283 6,458 18,486 10,435 8,051 8,093 6,764 9,226 5,19 13,186 2,698 6,08 9,880	686 97.801 84,592 544 279 6.705 18,067 10,283 7.785 8,279 6,856 9,269 9,269 9,268 9,268 9,268 9,268 9,268 9,268 9,268 9,268 9,268 9,268 9,268 9,268 9,268 9,268 9,268 13,279 6,275 10,20	406 99,769 86,101 566 6,970 18,471 10,270 8,201 8,750 6,882 9,464 7,890 26,842 13,668 2,838 617 10,213	430 101,320 87,586 568 285 7,111 18,565 10,510 8,055 7,025 9,712 8,450 27,615 13,734 2,842 628 10,264	142 102,297 88,509 579 274 18,581 10,465 8,115 8,260 7,093 9,833 8,591 28,088 13,788 2,792 635 10,362	1,426 28,275 33,550 312 66 1,837 4,222 2,140 2,082 2,710 1,981 2,724 2,161 7,536 4,725 694 3,646	1,455 28,916 24,113 324 66 1,889 4,338 2,180 2,158 2,749 2,005 2,764 2,244 7,734 4,803 694 3,781	1,467 29,467 331 72 1,992 4,370 2,178 2,192 2,792 2,016 2,791 2,335 7,959 4,746 713 3,73 3,660	2,445 29,546 24,742 340 72 1,894 4,328 2,166 2,769 2,077 2,817 2,817 2,371 8,074 4,804 4,804 779 361 3,723	1,835 29,978 25,152 2,052 2,052 2,052 2,052 2,028 2,028 2,028 2,0763 2,081 2,901 2,901 2,904 8,356 4,827 728 366 3,732	1,718 30,674 25,763 365 67 2,020 2,020 4,422 2,151 2,271 2,271 2,271 2,273 2,922 2,544 8,449 4,911 724 360 3,827	1,283 31,102 26,088 2,043 4,387 2,147 2,240 2,842 2,203 2,958 8,619 5,014 5,014 5,014 3,930

See footnotes at end of table.

and Earnings by Industry, 1998:I-1999:III-Continued

adjusted at annual rates]

			lowa							Kansas							Minnesota				
	199	98			1999			19	98			1999			19	98			1999		Line
I	Ш	Ш	IV	$ ^r$	$\ r$	<i>p</i>	I	Ш	Ш	IV	r	$ ^r$	$ ^{p}$	I	Ш	Ш	IV	Γ^{r}	\parallel^r	$ ^{p}$	
67,104 65,331 1,773	67,830 66,012 1,818	68,745 67,064 1,681	71,199 67,986 3,213	70,660 68,151 2,509	71,542 69,148 2,393	72,266 70,195 2,071	64,435 63,430 1,005	65,385 64,327 1,057	65,973 64,912 1,060	67,625 65,695 1,930	67,566 66,037 1,529	68,751 67,223 1,527	69,264 68,037 1,227	128,013 127,436 577	129,951 129,368 583	130,696 130,149 547	134,286 132,707 1,580	135,399 134,279 1,120	137,966 136,735 1,231	140,045 139,098 947	1 2 3
47,798 3,491 371 44,678 11,980 10,446 163 10,283	48,435 3,523 381 45,293 12,042 10,496 161 10,335	49,306 3,589 374 46,091 12,108 10,546 156 10,391	51,689 3,639 374 48,423 12,176 10,600 168 10,431	50,914 3,649 406 47,671 12,229 10,760 183 10,577	51,666 3,703 417 48,379 12,350 10,812 181 10,631	52,245 3,758 404 48,891 12,466 10,909 207 10,702	45,401 3,268 1,266 43,400 11,526 9,509 137 9,372	46,246 3,316 1,273 44,203 11,633 9,549 130 9,420	46,660 3,336 1,309 44,633 11,745 9,595 125 9,470	48,294 3,381 1,272 46,185 11,810 9,630 123 9,508	47,949 3,393 1,376 45,931 11,861 9,774 133 9,641	48,953 3,458 1,370 46,865 12,051 9,835 144 9,690	49,176 3,482 1,376 47,070 12,290 9,904 149 9,755	98,120 7,091 -953 90,076 20,598 17,339 364 16,975	100,012 7,206 -988 91,818 20,741 17,392 322 17,070	100,514 7,221 -980 92,312 20,893 17,491 321 17,170	104,086 7,381 -1,020 95,684 21,021 17,582 337 17,244	104,953 7,509 -1,046 96,399 21,120 17,880 372 17,508	107,396 7,651 -1,066 98,679 21,361 17,927 321 17,606	109,264 7,780 -1,105 100,378 21,596 18,070 336 17,734	4 5 6 7 8 9 10 11
37,568 3,945 6,285 1,482 4,803	38,089 3,967 6,379 1,515 4,864	38,968 4,016 6,322 1,367 4,956	39,684 4,046 7,959 2,887 5,071	39,597 4,013 7,305 2,175 5,129	40,332 4,072 7,262 2,049 5,213	41,096 4,122 7,027 1,716 5,310	36,025 3,819 5,557 734 4,823	36,726 3,860 5,660 776 4,885	37,107 3,855 5,698 768 4,931	37,772 3,883 6,639 1,627 5,012	37,729 3,865 6,355 1,216 5,139	38,587 3,943 6,424 1,201 5,222	39,015 3,956 6,204 888 5,317	81,863 8,101 8,156 174 7,982	83,574 8,199 8,239 164 8,075	84,114 8,145 8,255 111 8,143	86,356 8,267 9,463 1,128 8,335	87,417 8,318 9,218 660 8,558	89,398 8,474 9,524 761 8,762	91,286 8,602 9,376 466 8,910	12 13 14 15 16
1,773 46,025 38,992 384 94 2,998 10,413 6,518 3,895 2,999 3,327 4,492 3,549 10,735 7,033 837 7,033 837 133 6,062	1,818 46,617 39,563 399 93 3,057 10,475 6,490 3,984 3,070 3,384 3,728 10,837 7,054 840 0,831 7,054	1,681 47,625 93 3,249 10,629 6,611 4,018 3,040 3,540 4,653 3,838 11,091 7,091 8455 131 6,115	3,213 48,475 41,147 422 98 3,362 10,604 6,520 4,084 3,127 3,442 4,803 4,062 11,227 7,328 8655 130 6,333	2,509 48,405 41,163 442 90 3,306 10,388 6,437 3,952 3,207 3,474 4,809 3,867 11,579 7,243 888 888 133 6,222	2,393 49,273 41,983 442 87 3,323 10,598 6,504 4,094 4,094 4,094 4,094 4,094 4,094 4,094 11,855 7,290 888 8132 6,270	2,071 50,174 42,776 450 91 3,384 10,772 6,623 4,149 3,278 3,610 4,889 4,178 12,125 7,398 895 7,398 895 5,132 6,370	1,005 44,397 293 463 2,812 8,637 5,583 3,054 3,590 3,420 4,511 2,720 10,750 7,202 1,170 673 5,360	1,057 45,189 37,892 305 441 2,869 8,812 5,737 3,075 3,569 3,452 4,597 2,810 11,038 7,296 1,184 661 5,452	$\begin{array}{c} 1,060\\ 45,600\\ 38,255\\ 313\\ 445\\ 2,901\\ 8,782\\ 5,711\\ 3,071\\ 3,533\\ 3,449\\ 4,637\\ 2,849\\ 11,347\\ 7,345\\ 1,185\\ 669\\ 5,490\end{array}$	1,930 46,364 38,969 330 426 2,901 8,879 5,782 3,097 3,664 3,562 4,696 3,008 11,503 7,394 1,169 667 5,558	1,529 46,420 38,879 3,091 8,639 5,521 3,118 3,822 3,507 4,744 2,901 11,429 7,541 1,212 684 5,645	1,527 47,426 39,824 3,091 3,091 3,106 3,985 3,516 4,840 3,093 11,731 7,602 1,218 668 5,717	$\begin{array}{c} 1,227\\ 47,949\\ 40,311\\ 350\\ 404\\ 3,128\\ 8,839\\ 5,753\\ 3,086\\ 3,998\\ 3,604\\ 4,916\\ 3,133\\ 11,940\\ 7,638\\ 1,227\\ 659\\ 5,752\\ \end{array}$	577 97,543 85,371 425 466 6,061 20,948 12,493 8,454 6,349 7,757 8,898 8,489 25,979 12,171 1,528 10,449	583 99,429 87,346 458 483 6,130 21,092 12,599 8,493 6,570 7,946 9,016 26,571 12,083 1,545 193 10,345	547 99,967 87,620 461 493 6,132 21,051 12,464 8,584 6,340 7,915 9,569 8,621 27,039 12,346 1,561 1,521	1,580 102,506 89,793 488 487 48,443 6,708 8,123 9,617 9,443 27,746 12,713 1,582 192 10,939	1,120 103,834 91,413 505 429 6,731 21,250 12,592 8,658 6,496 8,279 10,311 9,086 28,326 12,421 1,640 19,4 10,586	1,231 106,165 93,254 414 6,949 21,416 12,601 8,815 6,638 8,431 10,114 9,585 29,184 12,911 1,637 193 11,080	947 108,317 95,364 533 410 6,939 22,253 13,248 9,005 6,649 8,673 10,281 9,751 29,877 12,953 1,648 9,755 11,110	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
			rth Dakota						0	Dakota						•	uthoast				

		N	North Dakota	.a			i		S	South Dakot	.a						Southeast				
	199	98	I		1999			199	98			1999			19	198			1999		Line
I	II	III	IV	r	<i>r</i>	<i>p</i>		Ш	III	IV	<i>r</i>	r	<i>p</i>	I	11	Ш	IV	r	<i>r</i>	<i>p</i>	
13,623 13,143 480	13,680 13,199 481	13,758 13,303 455	14,358 13,365 994	14,419 13,553 866	14,906 13,727 1,179	14,692 13,840 851	16,019 15,246 773	16,185 15,402 783	16,250 15,534 715	17,099 15,855 1,244	17,062 15,998 1,064	17,594 16,405 1,189	17,388 16,486 902	1,535,161 1,522,398 12,763	1,557,124 1,543,871 13,253	1,580,149 1,567,644 12,504	1,601,518 1,586,990 14,527	1,620,186 1,607,155 13,031		1,657,547 1,648,231 9,316	1 2 3
9,805 756 -309 8,739 2,338 2,546 29 2,517	9,840 756 -306 8,778 2,353 2,548 19 2,530	9,887 759 -310 8,818 2,370 2,570 26 2,544	10,450 756 -305 9,389 2,384 2,585 31 2,554	10,483 773 -310 9,401 2,393 2,393 2,626 36 2,590	10,963 783 -315 9,865 2,417 2,624 21 2,603	10,696 784 -313 9,599 2,444 2,649 28 2,621	11,507 838 -209 10,460 2,829 2,730 14 2,716	11,645 846 -211 10,589 2,849 2,747 15 2,732	11,682 851 -215 10,616 2,870 2,764 15 2,749	12,532 874 -221 11,436 2,886 2,776 14 2,762	12,450 883 -223 11,343 2,897 2,822 15 2,807	12,977 914 -235 11,828 2,928 2,838 14 2,824	12,713 910 -232 11,571 2,958 2,859 13 2,846	1,065,987 73,369 5,914 998,532 257,854 278,775 2,958 275,816	1,084,872 74,370 5,960 1,016,461 259,966 280,696 3,031 277,665	1,104,846 75,592 6,126 1,035,379 262,199 282,570 2,948 279,622	1,124,118 76,478 5,989 1,053,629 263,776 284,112 3,044 281,068	1,137,658 77,876 6,176 1,065,958 265,046 289,181 2,972 286,210	78,444 6,471 1,078,240 268,781 291,171 3,048	1,167,551 79,607 6,476 1,094,420 269,504 293,623 3,003 290,621	4 5 6 7 8 9 10 11
7,630 694 1,481 367 1,113	7,664 691 1,485 363 1,122	7,731 692 1,464 333 1,131	7,737 687 2,027 867 1,159	7,866 693 1,924 735 1,189	8,001 702 2,260 1,043 1,216	8,045 701 1,949 710 1,239	8,282 884 2,341 665 1,676	8,393 887 2,365 670 1,695	8,486 885 2,312 598 1,714	8,752 904 2,876 1,123 1,754	8,800 904 2,745 939 1,806	9,134 936 2,907 1,059 1,848	9,140 930 2,644 766 1,878	873,733 87,543 104,712 9,867 94,845	889,904 88,395 106,572 10,241 96,332	908,504 89,416 106,925 9,376 97,550	923,355 89,815 110,949 11,283 99,666	935,896 90,427 111,335 9,733 101,602	91,065 113,202 9,375	964,000 92,206 111,345 5,866 105,479	12 13 14 15 16
480 9,325 7,503 708 818 818 818 818 813 998 540 2,504 1,822 350 311 1,161	481 9,359 7,532 77 200 695 818 509 309 832 823 1,005 554 2,528 1,827 352 302 1,173	455 9,433 7,603 74 200 693 823 508 315 833 829 1,003 580 2,567 1,830 357 292 1,180	994 9,457 7,657 79 191 718 820 508 312 850 988 312 850 988 590 2,591 1,800 359 2,591 1,159	184 747 815 513 303 809 842 1,027 579 2,677 1,852 378 283	1,179 9,784 7,934 87 175 537 316 813 853 537 316 813 813 859 1,034 617 2,730 1,850 3766 282 282 1,192	851 9,845 8,003 88 178 872 556 316 805 806 1,043 625 2,762 1,841 380 283 1,179	773 10,734 8,973 137 1,669 1,216 454 770 707 1,247 742 2,841 1,760 441 140 1,180	783 10,862 9,067 143 99 749 1,684 1,223 1,257 781 2,883 1,257 781 2,883 1,795 440 40 139 1,217	715 10,967 9,248 150 90 753 1,639 1,234 455 759 728 1,254 852 2,970 1,720 446 440 1,133	1,244 11,288 9,451 153 80 764 1,241 462 764 738 1,274 914 914 3,060 1,837 4566 140 1,240	1,064 11,385 9,560 161 700 1,688 1,218 470 7960 7960 7960 1,328 853 3,106 1,826 4800 1433 1,202	1,189 11,787 9,916 164 766 822 1,752 1,227 797 771 1,330 986 3,217 1,872 486 3,217 1,872 486 145 1,241	902 11,811 9,903 167 793 1,741 1,222 519 758 1,344 964 3,265 1,908 4,911 1,45 1,271	12,763 1,053,224 880,347 7,044 9,633 67,450 179,629 96,223 83,406 67,428 108,162 74,288 289,852 172,877 33,291 19,154 120,432	13,253 1,071,619 897,011 7,374 9,304 69,763 180,459 96,402 84,057 78,198 68,761 110,156 68,761 110,156 77,113 295,883 174,608 33,509 18,932 122,167	12,504 1,092,342 914,529 7,602 9,498 70,972 182,565 97,760 84,806 79,054 4111,883 77,052 84,806 70,054 111,883 78,671 1303,354 117,812 33,673 18,955 125,184	14,527 1,109,591 929,731 7,736 9,262 72,776 181,579 97,809 83,771 81,841 310,471 179,860 34,030 4,745 127,085	13,031 1,124,627 943,650 8,025 8,717 73,468 180,386 97,203 83,183 82,546 73,074 116,692 81,066 319,677 180,977 35,296 19,315 126,365	8,057 8,169 74,684 181,509 98,037 83,472 82,505 74,395 117,847 84,779 323,756 181,768 35,059 19,109	9,316 1,158,235 973,743 8,244 74,883 184,232 100,300 83,932 84,173 119,110 86,549 332,266 184,492 334,973 34,973 19,139 130,380	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

Table 2.—Personal Income by Major Source [Millions of dollars, seasonally

												L,		uuliais, a	seasonally
					Alabama							Arkansas			
Line	Item		199	98			1999			19	98			1999	
		I	Ш	Ш	IV	<i>r</i>	<i>r</i>	<i>p</i>	I	П	Ш	IV	r	r	<i>p</i>
	Income by Place of Residence														
1 2 3	Personal income (lines 4-11) Nonfarm personal income Farm income (line 17)	91,987 90,858 1,128	92,976 91,773 1,202	94,041 92,836 1,205	95,265 94,005 1,260	95,780 94,660 1,120	97,014 95,942 1,072	98,145 97,332 814	50,874 49,511 1,363	51,403 49,924 1,479	51,790 50,445 1,345	52,984 51,019 1,966	53,182 51,708 1,474	53,759 52,249 1,510	53,827 52,988 839
	Derivation of Personal Income														
4 5 7 8 9 10	Earnings by place of work (lines 12-16 or 17-34) Less: Personal contributions for social insurance ² Plus: Adjustment for residence ³ Equals: Net earnings by place of residence Plus: Dividends, interest, and rent ⁴ Plus: Transfer payments State unemployment insurance benefits Transfers excluding State unemployment insurance benefits	64,423 4,700 721 60,443 12,615 18,928 211 18,717	65,171 4,731 745 61,184 12,729 19,062 221 18,841	66,015 4,780 774 62,010 12,849 19,182 209 18,973	67,105 4,839 787 63,053 12,926 19,285 215 19,070	67,247 4,877 817 63,187 12,986 19,607 191 19,416	68,193 4,934 827 64,086 13,183 19,745 201 19,544	68,948 4,988 849 64,808 13,415 19,922 210 19,712	35,711 2,472 -318 32,920 7,247 10,707 190 10,517	36,105 2,482 -308 33,315 7,315 10,772 190 10,582	36,353 2,504 -308 33,542 7,387 10,862 210 10,651	37,500 2,534 -313 34,654 7,432 10,899 196 10,702	37,566 2,584 -328 34,654 7,466 11,062 178 10,884	37,973 2,601 -327 35,045 7,582 11,133 181 10,952	37,850 2,631 -330 34,890 7,716 11,221 181 11,040
	Earnings by Place of Work														
12 13 14 15 16	Components of earnings: Wage and salary disbursements	52,308 5,395 6,721 990 5,731	52,896 5,406 6,868 1,058 5,810	53,673 5,433 6,910 1,055 5,855	54,577 5,469 7,059 1,105 5,954	54,735 5,446 7,067 962 6,105	55,576 5,507 7,110 910 6,200	56,419 5,563 6,965 648 6,317	27,846 2,945 4,920 1,131 3,789	28,090 2,948 5,068 1,238 3,830	28,454 2,962 4,937 1,094 3,843	28,925 2,976 5,599 1,706 3,893	29,348 2,990 5,227 1,210 4,017	29,658 3,014 5,301 1,241 4,061	30,121 3,038 4,692 563 4,129
	Earnings by Industry														
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	Farm earnings	1,128 63,295 52,044 370 645 4,095 13,769 7,823 5,945 4,218 3,773 6,209 3,774 15,231 11,250 2,566 847 7,837	$\begin{array}{c} 1,202\\ 63,968\\ 52,527\\ 379\\ 639\\ 4,207\\ 7,758\\ 6,070\\ 4,171\\ 3,793\\ 6,284\\ 3,877\\ 15,350\\ 11,441\\ 2,581\\ 835\\ 8,026\end{array}$	$\begin{array}{c} 1,205\\ 64,811\\ 53,133\\ 86\\ 643\\ 4,216\\ 13,957\\ 7,829\\ 6,128\\ 4,226\\ 3,853\\ 6,392\\ 3,821\\ 15,638\\ 11,677\\ 2,597\\ 835\\ 8,243\\ \end{array}$	$\begin{array}{c} 1,260\\ 65,845\\ 53,765\\ 406\\ 631\\ 4,250\\ 13,922\\ 7,869\\ 6,053\\ 3,896\\ 6,432\\ 4,138\\ 15,733\\ 12,080\\ 2,615\\ 829\\ 8,635\end{array}$	$\begin{array}{c} 1,120\\ 66,127\\ 54,095\\ 425\\ 625\\ 4,466\\ 13,724\\ 7,798\\ 5,926\\ 4,188\\ 3,965\\ 6,635\\ 4,063\\ 16,003\\ 12,033\\ 2,673\\ 836\\ 8,523\end{array}$	$\begin{array}{c} 1,072\\ 67,121\\ 54,997\\ 416\\ 588\\ 4,410\\ 13,889\\ 7,921\\ 5,968\\ 4,249\\ 4,010\\ 6,677\\ 4,300\\ 16,458\\ 12,124\\ 2,648\\ 820\\ 8,656\end{array}$	814 68,134 55,923 427 609 4,446 609 4,449 4,497 8,200 5,997 4,301 4,061 6,754 4,395 16,734 12,211 2,601 797 8,812	1,363 34,348 29,150 280 8,056 4,499 3,557 2,985 1,874 4,170 1,801 7,658 5,198 8,79 298 4,021	1,479 34,626 29,278 2822 181 2,178 8,093 4,533 3,560 2,973 1,889 4,138 1,805 7,739 5,348 886 295 4,166	$\begin{array}{c} 1,345\\35,008\\29,599\\278\\184\\2,152\\8,192\\4,562\\3,630\\3,018\\1,908\\4,064\\1,828\\7,975\\5,410\\906\\289\\4,214\end{array}$	1,966 35,535 29,915 285 177 2,139 8,183 4,575 3,608 3,038 1,947 4,205 1,899 8,042 5,620 964 288 4,368	1,474 36,092 30,595 313 174 2,337 8,095 4,497 3,598 3,098 1,925 4,663 1,851 8,137 5,497 948 290 4,259	1,510 36,463 30,844 316 170 2,295 8,285 3,716 2,991 1,991 1,991 4,476 1,979 8,340 5,619 955 287 4,377	839 31,002 323 172 2,315 8,310 4,612 3,698 4,548 2,020 8,560 5,704 963 292 4,449
												·····			

					Louisiana							Mississipp	i		
Line	Item		19	98			1999			199	98			1999	
		I	Ш	Ш	IV	r	$ ^{r}$	<i>p</i>	I	Ш	=	IV	r	<i>r</i>	$ _{P}$
	Income by Place of Residence														
1 2 3	Personal income (lines 4-11) Nonfarm personal income Farm income (line 17)	91,958 91,692 266	93,334 93,047 288	93,822 93,532 290	94,605 93,959 646	94,707 94,231 475	95,555 94,898 657	96,399 96,101 299	51,250 50,513 737	51,828 51,070 759	52,680 51,878 802	53,374 52,289 1,085	53,518 52,620 899	54,094 53,180 914	54,754 53,992 762
	Derivation of Personal Income														
4 5 7 8 9 10 11	Earnings by place of work (lines 12-16 or 17-34) Less: Personal contributions for social insurance ²	64,105 4,246 -181 59,677 13,056 19,225 116 19,109	65,323 4,311 -192 60,821 13,163 19,350 126 19,224	65,540 4,309 -177 61,053 13,277 19,492 146 19,346	66,122 4,305 -167 61,650 13,360 19,595 159 19,435	65,848 4,312 -156 61,379 13,421 19,907 152 19,755	66,372 4,316 -151 61,905 13,596 20,054 179 19,875	66,935 4,360 -150 62,425 13,785 20,190 160 20,030	34,859 2,695 1,152 33,316 6,237 11,697 111 11,586	35,287 2,717 1,182 33,752 6,294 11,782 117 11,665	36,044 2,767 1,187 34,464 6,353 11,863 11,863 114 11,749	36,635 2,779 1,195 35,052 6,392 11,931 120 11,811	36,546 2,797 1,211 34,960 6,419 12,138 106 12,032	36,954 2,821 1,225 35,357 6,513 12,224 110 12,114	37,426 2,861 1,245 35,810 6,623 12,321 100 12,221
	Earnings by Place of Work														
12 13 14 15 16	Components of earnings: Wage and salary disbursements	51,803 5,433 6,869 107 6,761	52,837 5,496 6,990 123 6,868	53,046 5,466 7,029 119 6,910	53,223 5,427 7,471 468 7,003	53,059 5,365 7,424 294 7,130	53,297 5,374 7,702 473 7,229	54,065 5,415 7,455 110 7,345	27,914 2,931 4,013 561 3,452	28,269 2,944 4,074 577 3,497	28,910 2,986 4,148 613 3,535	29,166 2,974 4,496 889 3,606	29,217 2,965 4,364 699 3,665	29,573 2,984 4,396 710 3,686	30,119 3,022 4,286 553 3,733
	Earnings by Industry														
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	Farm earnings	266 63,839 53,108 327 3,635 5,091 8,875 3,786 5,089 4,952 3,649 4,952 3,649 4,962 3,649 4,962 3,279 17,238 10,731 1,585 778 8,367	288 65,036 54,227 3,441 5,428 8,940 3,829 5,111 5,058 3,719 6,125 3,532 17,644 10,809 1,594 757 8,458	290 65,250 54,286 335 3,401 5,285 8,894 3,797 5,109 3,756 6,149 3,688 17,669 10,964 1,669 10,964 1,669 778 8,577	646 65,476 54,284 3,262 5,230 8,863 3,789 5,074 5,213 3,805 6,170 3,644 17,756 11,192 1,620 774 8,798	475 65,373 54,314 416 3,009 5,349 8,731 3,686 5,045 5,083 3,782 6,362 3,404 18,180 11,058 1,658 807 8,563	657 65,715 54,595 386 2,784 5,260 8,937 3,718 5,219 4,962 3,762 6,380 3,812 18,312 18,312 11,120 1,672 792 8,655	299 66,636 55,397 394 2,809 5,211 9,094 3,770 5,324 5,020 3,834 6,453 3,883 18,699 11,240 1,665 795 8,782	737 34,122 27,542 24,742 332 2,258 7,571 4,770 2,802 2,275 1,706 3,587 1,570 8,003 6,580 1,128 8,003 6,580 1,128 692 4,760	759 34,528 27,906 2,335 7,570 4,768 2,802 2,336 1,755 3,618 1,657 6,622 1,135 8,057 6,622 1,139 6,612 4,798	802 35,242 28,505 2,397 7,826 4,989 2,837 2,329 1,758 3,682 1,667 8,260 6,737 1,141 693 4,903	1,085 35,550 28,815 24,69 7,737 4,906 2,832 2,331 1,773 3,725 1,718 8,488 6,735 1,156 690 4,890	899 35,648 28,718 2,481 7,761 4,955 2,806 2,265 1,753 3,914 1,623 8,311 6,930 1,198 704 5,028	914 36,040 29,184 286 2,379 7,755 4,913 2,843 2,323 1,784 3,917 1,707 8,668 6,936 1,195 706 5,035	762 36,665 29,606 291 301 2,347 7,955 5,082 2,892 2,359 1,795 3,925 1,737 8,876 7,059 1,199 725 5,135

See footnotes at end of table.

and Earnings by Industry, 1998:I-1999:III-Continued adjusted at annual rates]

			Florida							Georgia							Kentucky				
	19	98			1999			19	98			1999			19	98			1999		Line
I	П	Ш	IV	r	<i>r</i>	<i>P</i>	I	Ш	Ш	IV	<i>r</i>	$ ^{r}$	<i>P</i>	Ι	Ш	Ш	IV	r	<i>r</i>	<i>P</i>	
377,760 375,530 2,230	383,881 381,580 2,300	389,957 387,724 2,234	395,019 392,733 2,286	396,747 394,411 2,336	403,978 401,868 2,110	411,109 409,099 2,010	186,808 184,694 2,114	189,851 187,669 2,182	193,919 191,816 2,103	196,882 194,602 2,280	201,289 199,352 1,937	203,893 201,879 2,013	206,991 205,577 1,415	83,283 81,869 1,413	84,440 82,871 1,569	85,430 84,078 1,352	86,183 84,713 1,470	87,280 85,855 1,425	88,019 86,906 1,114	89,326 88,229 1,097	1 2 3
232,476 15,714 631 217,393 88,857 71,510 656 70,854	237,790 16,018 633 222,405 89,444 72,032 691 71,341	243,098 16,344 635 227,388 90,070 72,499 642 71,857	247,496 16,577 641 231,560 90,564 72,896 658 72,238	247,436 16,632 677 231,481 90,979 74,287 695 73,592	253,428 16,998 671 237,101 92,086 74,792 696 74,096	259,005 17,322 674 242,357 93,361 75,391 638 74,754	142,309 9,333 -324 132,652 27,277 26,880 264 26,616	145,050 9,476 -334 135,240 27,555 27,056 255 26,801	148,901 9,707 -364 138,831 27,847 27,240 244 26,997	151,666 9,835 -375 141,456 28,031 27,395 254 27,142	155,848 10,191 -452 145,205 28,181 27,903 246 27,657	157,835 10,274 -447 147,113 28,665 28,115 28,115 266 27,849	160,298 10,439 -461 149,398 29,230 28,364 264 28,099	58,828 4,219 -494 54,116 12,129 17,038 222 16,816	59,824 4,266 -509 55,049 12,231 17,160 239 16,921	60,707 4,335 -537 55,834 12,338 17,257 224 17,033	61,281 4,350 495 56,436 12,408 17,340 225 17,115	62,187 4,445 -551 57,192 12,461 17,628 220 17,407	62,662 4,486 -551 57,626 12,640 17,753 237 17,516	63,694 4,547 -570 58,577 12,856 17,894 235 17,658	4 5 6 7 8 9 10 11
192,039 19,205 21,232 1,286 19,946	196,663 19,512 21,616 1,318 20,297	201,545 19,799 21,754 1,214 20,540	205,315 19,966 22,215 1,229 20,985	204,980 19,864 22,592 1,259 21,333	210,255 20,274 22,899 1,007 21,892	215,147 20,608 23,249 878 22,372	116,405 11,471 14,434 1,873 12,561	118,735 11,612 14,703 1,931 12,772	122,151 11,851 14,899 1,842 13,057	124,315 11,918 15,433 2,010 13,423	128,180 12,232 15,436 1,661 13,775	129,694 12,304 15,837 1,731 14,105	132,315 12,464 15,519 1,126 14,393	47,536 5,087 6,205 1,219 4,986	48,295 5,122 6,407 1,367 5,040	49,293 5,190 6,223 1,142 5,081	49,679 5,160 6,442 1,252 5,190	50,507 5,210 6,470 1,204 5,266	51,161 5,243 6,258 889 5,369	52,072 5,308 6,314 868 5,446	12 13 14 15 16
2,230 230,245 195,532 2,260 383 14,179 20,562 13,189 7,373 15,220 15,419 26,638 22,231 78,640 34,714 5,546 3,085 26,082	2,300 235,490 200,317 2,395 3833 14,732 20,653 13,037 7,616 15,654 15,744 22,992 80,519 35,173 5,604 3,023 26,546	2,234 240,864 205,006 2,557 399 14,905 20,735 20,735 13,038 7,697 15,926 16,335 27,970 23,394 82,785 35,858 5,654 2,965 27,239	2,286 245,210 208,697 2,486 394 15,277 20,818 13,146 7,672 28,112 24,043 84,686 36,515 28,112 24,043 84,686 36,515 5,723 2,883 2,7906	2,336 245,100 209,851 2,468 351 15,145 20,532 12,898 7,635 16,741 16,947 28,430 23,631 85,606 35,249 5,961 2,898 26,390	2,110 251,318 215,063 2,495 352 15,652 20,753 13,029 7,725 16,457 17,296 28,977 24,881 88,200 36,254 5,922 2,824 27,508	2,010 256,994 220,478 2,534 368 15,822 21,118 13,141 7,976 16,826 17,644 29,526 25,444 91,197 36,516 5,889 2,749 27,878	2,114 140,195 119,473 788 396 8,214 22,668 10,456 12,212 13,606 12,629 13,173 10,615 37,384 20,722 4,258 2,308 14,157	2,182 142,688 121,982 818 386 8,432 23,058 10,668 12,390 13,892 12,855 13,440 11,032 38,070 20,886 4,224 2,274 14,319	2,103 146,798 125,595 836 401 8,882 23,873 10,935 12,938 14,268 13,573 31,245 39,441 21,203 4,282 2,274 14,646	2,280 149,386 127,973 874 400 9,325 23,535 10,934 12,601 14,492 13,474 13,983 11,976 39,915 21,413 4,319 2,242 14,851	1,937 153,911 132,194 910 400 9,663 24,028 10,803 13,226 14,270 11,750 42,117 21,717 4,487 2,300 14,930	2,013 155,821 134,246 917 401 9,772 23,781 10,869 12,912 14,767 12,183 43,011 21,575 4,510 2,243 14,823	$\begin{array}{c} 1,415\\ 158,883\\ 137,014\\ 9,691\\ 23,933\\ 11,183\\ 12,750\\ 15,569\\ 14,714\\ 15,018\\ 12,493\\ 44,244\\ 21,868\\ 4,515\\ 2,250\\ 15,103\\ \end{array}$	$\begin{array}{c} 1,413\\ 57,415\\ 48,127\\ 401\\ 1,354\\ 3,540\\ 12,891\\ 8,000\\ 4,891\\ 4,460\\ 3,197\\ 6,018\\ 2,903\\ 13,364\\ 9,288\\ 1,542\\ 1,134\\ 6,612\end{array}$	1,569 58,255 48,841 420 1,315 3,596 12,916 12,916 12,916 4,924 4,620 3,282 6,123 2,996 13,574 9,414 1,550 1,127 6,737	$\begin{array}{c} 1,352\\ 59,355\\ 49,747\\ 424\\ 1,378\\ 3,620\\ 13,098\\ 8,182\\ 4,916\\ 4,855\\ 3,356\\ 6,241\\ 3,050\\ 13,726\\ 9,608\\ 1,570\\ 1,136\\ 6,902 \end{array}$	$\begin{array}{c} 1,470\\ 59,811\\ 50,231\\ 461\\ 1,368\\ 3,751\\ 13,154\\ 8,181\\ 4,973\\ 3,408\\ 6,282\\ 3,213\\ 13,956\\ 9,580\\ 1,601\\ 1,137\\ 6,841 \end{array}$	$\begin{array}{c} 1,425\\ 60,762\\ 50,918\\ 458\\ 1,259\\ 3,742\\ 13,190\\ 8,238\\ 4,952\\ 4,771\\ 3,469\\ 6,490\\ 3,053\\ 14,486\\ 9,844\\ 1,596\\ 1,180\\ 7,068\end{array}$	$\begin{array}{c} 1,114\\ 61,548\\ 51,713\\ 487\\ 1,187\\ 3,866\\ 13,199\\ 8,223\\ 4,976\\ 4,725\\ 3,612\\ 6,612\\ 6,612\\ 6,612\\ 1,564\\ 1,564\\ 1,147\\ 7,124 \end{array}$	1,097 62,597 52,655 495 1,232 3,851 13,515 8,421 5,094 4,795 3,663 6,729 3,321 15,054 9,941 1,612 1,150 7,179	17 18 19 20 21 22 23 24 25 26 27 28 20 30 31 32 33 33

		N	lorth Carolin	ia					Sc	outh Carolin	ia						Tennessee				
	199	98			1999			19	98			1999			19	98			1999		Line
Ι	Ш	Ш	IV	<i>r</i>	<i>r</i>	<i>P</i>	I	Ш	Ш	IV	r	<i>r</i>	<i>P</i>	I	Ш	Ш	IV	<i>r</i>	<i>r</i>	<i>p</i>	
178,542 175,844 2,698	180,852 178,177 2,674	183,188 180,811 2,377	185,561 183,146 2,415	188,551 186,192 2,359	190,432 188,244 2,188	188,436 187,262 1,174	79,995 79,629 366	81,170 80,821 349	82,960 82,616 344	84,033 83,618 415	84,595 84,218 376	86,002 85,555 448	87,303 86,972 330	125,583 125,487 97	127,546 127,450 96	129,172 129,075 97	130,676 130,376 300	132,161 131,925 236	133,735 133,462 273	135,935 135,713 222	1 2 3
133,266 9,496 -959 122,811 26,163 29,568 398 29,170	135,197 9,597 -972 124,627 26,438 29,786 395 29,391	137,162 9,732 -974 126,456 26,728 30,004 379 29,625	139,259 9,836 -978 128,445 26,914 30,202 404 29,798	141,785 10,080 -1,004 130,701 27,066 30,784 373 30,411	143,025 10,136 -1,028 131,862 27,545 31,026 386 30,640	143,701 10,242 -1,024 132,435 24,631 31,370 433 30,938	56,570 4,192 945 53,323 11,408 15,264 164 15,100	57,574 4,253 960 54,282 11,514 15,374 170 15,204	59,259 4,367 960 55,851 11,627 15,482 167 15,315	60,188 4,415 971 56,743 11,705 15,585 188 15,397	60,376 4,453 1,029 56,952 11,766 15,876 188 15,688	61,551 4,517 1,028 58,061 11,953 15,988 192 15,796	62,548 4,584 1,035 58,998 12,170 16,134 197 15,937	93,447 6,103 -1,100 86,244 16,796 22,544 320 22,223	95,233 6,200 -1,145 87,888 16,960 22,699 328 22,370	96,601 6,268 -1,153 89,181 17,132 22,859 332 22,526	97,931 6,310 -1,158 90,464 17,241 22,971 330 22,641	98,997 6,409 -1,130 91,457 17,329 23,375 325 23,050	100,224 6,452 -1,181 92,590 17,612 23,532 330 23,202	102,025 6,541 -1,209 94,276 17,936 23,723 322 23,401	4 5 6 7 8 9 10 11
108,720 10,724 13,822 2,329 11,493	110,379 10,786 14,031 2,291 11,740	112,422 10,870 13,871 1,979 11,892	114,122 10,909 14,227 2,002 12,225	116,383 11,043 14,359 1,941 12,418	117,448 11,103 14,474 1,762 12,711	119,175 11,187 13,339 740 12,599	47,376 4,772 4,422 259 4,163	48,280 4,817 4,477 238 4,240	49,801 4,911 4,548 229 4,319	50,569 4,923 4,696 295 4,400	50,746 4,919 4,711 255 4,457	51,666 4,997 4,888 323 4,565	52,650 5,061 4,837 202 4,635	75,025 7,760 10,662 –36 10,699	76,573 7,847 10,812 -42 10,855	77,738 7,901 10,962 -46 11,008	78,605 7,895 11,432 151 11,281	79,456 7,940 11,601 85 11,516	80,278 7,988 11,958 120 11,838	81,712 8,085 12,228 65 12,163	12 13 14 15 16
2,698 130,569 109,568 794 2099 8,850 31,634 15,864 15,864 15,8770 8,194 8,123 12,724 8,858 30,182 21,001 2,578 3,078 15,344	2.674 132,522 111,435 830 197 9,349 31,516 15,872 15,644 8.270 13,037 9,267 30,671 21,087 2,589 3,043 15,454	2,377 134,785 113,077 846 222 9,473 31,632 16,087 15,545 8,340 8,344 13,162 9,335 31,724 21,708 2,595 3,053 16,060	2,415 136,844 114,865 9,912 31,286 15,957 15,329 8,621 8,481 13,313 9,846 32,295 21,979 2,603 3,026 16,350	2,359 139,426 117,284 9,778 31,602 16,214 15,388 8,371 8,649 13,854 10,266 33,582 22,142 2,723 3,119 16,299	2,188 140,837 118,796 9,950 31,625 16,419 15,206 8,839 13,819 10,572 34,337 22,041 2,687 3,082 16,272	1,174 142,527 119,657 951 211 9,828 31,720 16,580 15,140 8,684 9,012 13,587 10,704 34,961 22,869 2,656 3,101 17,112	366 56,204 46,087 354 7,877 3,156 2,894 6,328 3,125 12,495 10,117 1,299 1,149 7,679	349 57,226 46,926 387 80 4,177 13,709 5,871 7,838 3,020 6,397 3,249 10,300 1,311 1,156 7,832	344 58,915 48,311 398 84 4,433 13,898 5,956 5,956 7,942 3,160 3,121 6,493 3,410 13,313 10,605 1,316 1,223 8,065	415 59,773 49,173 86 4,490 13,817 6,008 7,810 3,244 3,177 6,678 3,561 13,705 10,600 1,335 1,225 8,040	376 60,000 49,049 404 83 4,380 13,124 5,989 7,135 3,866 3,233 6,894 3,405 13,655 10,951 1,405 1,324 8,221	448 61,103 50,084 411 83 4,518 13,229 6,071 7,158 4,137 3,313 6,885 3,582 13,925 11,020 1,404 1,351 8,264	330 62,218 50,929 419 87 4,553 13,402 6,184 7,217 4,190 3,413 6,979 3,654 14,232 11,288 1,397 1,327 8,565	97 93,351 81,503 319 5,894 19,833 11,504 8,330 7,171 6,224 10,021 5,936 25,644 11,848 2,376 25,644 11,848 2,376 2,55 9,216	96 95,137 83,179 476 285 6,051 20,074 11,551 8,523 6,371 10,223 6,371 10,223 6,341 26,103 11,957 2,402 2,64 9,291	97 96,504 84,441 481 290 6,143 20,302 11,764 8,535 6,344 10,440 6,438 26,448 12,063 2,395 281 9,387	300 97,631 85,486 509 314 6,319 20,095 11,785 8,310 7,685 6,475 10,424 6,654 27,012 12,145 2,434 282 9,429	236 98,761 85,976 517 283 6,272 19,955 11,921 8,034 7,733 6,689 10,798 6,489 10,798 6,489 10,798 6,420 27,242 12,786 2,548 302 9,935	273 99,951 87,564 526 271 12,116 6,619 10,915 6,929 27,809 12,387 2,506 304 9,578	222 101.803 89,313 537 282 6,696 20,629 12,514 8,115 7,850 6,798 11,109 7,053 28,360 12,490 2,507 29,688	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

Table 2.—Personal Income by Major Source [Millions of dollars, seasonally

				Virginia							West Virgini	а		
Item		19	98			1999			199	98			1999	
	I	Ш	Ш	IV	<i>r</i>	r	P	I	Ш	Ш	IV	r	r	<i>p</i>
Income by Place of Residence														
Nonfarm personal income	182,445 182,099 346	184,931 184,585 346	187,900 187,552 347	191,467 191,072 395	196,815 196,433 382	195,755 195,325 430	198,751 198,403 348	34,676 34,670 7	34,911 34,903	35,290 35,282	35,469 35,458	35,562 35,549	35,955 35,939	36,570 36,564 7
Derivation of Personal Income	040	040	041	000	002	400	040	, i	Ű	Ű		10		,
Less: Personal contributions for social insurance ²	128,127 8,576 5,569 125,120 31,057 26,268 166 26,101	130,302 8,693 5,607 127,216 31,280 26,435 163 26,271	132,834 8,834 5,783 129,783 31,517 26,600 149 26,452	136,542 9,054 5,536 133,023 31,704 26,739 155 26,585	141,542 9,454 5,660 137,748 31,854 27,213 155 27,058	139,358 9,245 6,025 136,139 32,236 27,380 146 27,234	141,941 9,392 6,043 138,592 32,551 27,608 144 27,464	21,867 1,622 272 20,517 5,012 9,147 139 9,008	22,015 1,626 293 20,682 5,042 9,188 135 9,053	22,331 1,646 300 20,985 5,073 9,232 132 9,100	22,394 1,643 344 21,095 5,100 9,275 140 9,134	22,281 1,641 404 21,044 5,119 9,400 141 9,259	22,638 1,662 379 21,355 5,171 9,429 123 9,305	23,180 1,698 372 21,854 5,231 9,485 119 9,366
Earnings by Place of Work Components of earnings: Wage and salary disbursements Other labor income Proprietors' income Farm proprietors' income Nonfarm proprietors' income	108,899 9,964 9,264 167 9,097	110,889 10,047 9,365 160 9,205	113,182 10,177 9,475 154 9,321	116,514 10,347 9,681 195 9,486	121,058 10,629 9,854 179 9,675	118,809 10,433 10,117 223 9,893	121,196 10,571 10,174 138 10,036	17,862 1,857 2,147 -19 2,166	17,998 1,857 2,160 -19 2,179	18,290 1,871 2,170 -19 2,189	18,344 1,851 2,199 -18 2,217	18,228 1,823 2,230 -16 2,246	18,531 1,843 2,264 -13 2,277	19,010 1,883 2,287 -24 2,311
Earnings by Industry Farm earnings Nonfarm earnings Private earnings Agricultural services, forestry, fishing, and other ° Mining Construction Manufacturing Durable goods Nondurable goods Nondurable goods Nondurable goods Retail trade Finance, insurance, and real estate Services Government and government enterprises Federal, civilian Military State and local	346 127,781 100,453 682 643 7,813 16,738 8,861 6,894 11,059 9,323 38,440 27,329 8,591 5,430 13,308	346 129,956 102,528 644 7,893 16,664 8,018 9,018 9,018 9,424 39,815 27,428 8,609 5,370 13,449	347 132,486 104,712 7300 667 8,111 16,696 8,691 8,005 9,411 7,103 11,496 9,855 40,642 27,774 8,637 5,331 13,806	395 136,147 736 665 8,269 16,705 8,737 7,968 9,754 7,337 11,652 10,190 43,040 27,800 8,674 5,274 13,852	382 141,159 112,751 772 651 8,516 8,429 7,924 9,636 7,588 12,137 10,580 46,518 28,408 9,041 5,455 13,912	430 138,928 110,422 796 605 8,725 16,387 8,320 8,067 9,580 7,744 12,010 10,570 43,914 28,506 8,982 5,454 14,070	348 141,592 112,732 614 8,780 16,680 8,6615 8,064 9,851 7,874 12,172 10,811 45,138 28,860 8,959 5,559 14,342	7 21,860 17,759 88 1,451 1,403 3,349 1,821 1,522 1,085 2,173 874 5,574 4,101 952 99 3,050	8 22,007 17,863 82 1,425 1,384 3,439 1,876 1,562 1,704 1,085 2,199 942 5,603 4,144 955 97 3,092	9 22,322 18,117 1,489 1,355 3,462 1,929 1,533 1,732 1,098 2,223 941 5,733 4,205 968 97 3,140	11 22,383 18,180 89 1,416 1,345 3,464 1,922 1,541 1,748 1,084 2,232 960 5,842 4,203 984 996 3,123	13 22,268 17,905 1,342 1,337 3,289 1,775 1,514 1,693 1,122 2,246 948 5,839 4,363 1,026 98 3,238	17 22,622 18,272 91 1,240 1,3463 1,869 1,594 1,673 1,124 2,295 1,016 6,030 4,350 1,015 97 3,237	7 23,174 18,729 93 1,242 1,342 1,665 1,698 1,138 2,310 1,035 6,210 4,445 1,012 99 3,334
	Personal income (lines 4-11)	Personal income (lines 4-11) 182,445 Nonfarm personal income 182,099 Farm income (line 17) 346 Derivation of Personal Income Earnings by place of work (lines 12-16 or 17-34) 128,127 Less: Personal contributions for social insurance 2 8,576 Plus: Adjustment for residence 3 5,569 Pus: Jack earnings by place of residence 125,120 Plus: Transfer payments 26,268 State unemployment insurance benefits 166 Transfers excluding State unemployment insurance benefits 168,899 Other labor income 9,964 Proprietors' income 5 9,264 Proprietors' income 5 9,097 Earnings by Industry 346 Private earnings 100,453 Agricultural services, forestry, fishing, and other 6 643 Construction 7,813 Manufacturing 16,738 Durable goods 8,033 Transportation and public utilities 8,081 Wholesale trade 6,894 Private earnings 9,644 Services 8,033 Transportation and publi	Personal income (lines 4-11) 182,445 184,931 Nonfarm personal income 182,099 184,585 Farm income (line 17) 346 346 Derivation of Personal Income 346 346 Earnings by place of work (lines 12-16 or 17-34) 128,127 130,302 Less: Personal contributions for social insurance ² 5,569 5,607 Pus: Adjustment for residence ³ 5,569 127,216 Pus: Dividends, interest, and rent ⁴ 31,057 31,280 Plus: Transfer payments 26,028 166 Transfer payments 26,021 126,271 Earnings by Place of Work 26,011 26,271 Components of earnings: 9,964 10,047 Wage and salary disbursements 108,899 110,889 Other labor income ⁵ 9,264 9,365 Farm proprietors' income 167 160 Nonfarm earnings 100,453 100,453 Proprietors' income 100,453 102,528 Agricultural services, forestry, fishing, and other ⁶ 642 644	Personal income (lines 4-11) 182,445 184,931 187,900 Nonfarm personal income 182,099 184,585 187,552 Farm income (line 17) 346 346 347 Derivation of Personal Income Earnings by place of work (lines 12-16 or 17-34) 128,127 130,302 132,834 Less: Personal contributions for social insurance 2 8,576 8,693 8,834 Plus: Adjustment for residence 3 128,127 130,302 132,834 Less: Personal contributions for social insurance 2 8,576 8,693 8,834 Plus: Dividends, interest, and rent 4 212,512 127,216 129,783 Plus: Transfer payments 166 163 149 Transfers excluding State unemployment insurance benefits 166 163 149 Transfers excluding State unemployment 108,899 110,889 113,182 Other labor income 9,964 10,047 10,177 Proprietors' income 167 160 154 Nonfarm proprietors' income 127,718 129,956 132,486	Personal income (lines 4-11) 182,445 184,931 187,900 191,467 Nonfarm personal income 182,099 184,585 187,552 191,072 Farm income (line 17) 346 346 347 395 Derivation of Personal Income 182,099 184,585 187,552 191,072 Earnings by place of work (lines 12-16 or 17-34) 128,127 130,302 132,834 136,542 Less: Personal contributions for social insurance ² 5,569 5,607 5,783 5,536 Plus: Adjustment for residence * 125,120 127,216 129,783 133,023 Plus: Transfer payments 26,6435 26,600 26,739 State unemployment insurance benefits 26,101 26,271 26,452 26,585 Wage and salary disbursements 199,964 10,047 10,177 10,347 Proprietors' income * 9,964 10,047 10,177 10,347 Proprietors' income * 9,964 10,047 10,177 10,345 Proprietors' income * 9,964 10,047 <	Personal income (lines 4-11) 182,445 184,931 187,900 191,467 196,433 Farm income (line 17) 346 346 347 395 382 Derivation of Personal Income 128,127 130,302 132,834 136,542 141,542 Less: Personal contributions for social insurance 2 8,576 8,693 8,834 9,054 9,454 Pus: Adjustment for residence 3 5,569 5,569 5,660 26,778 133,023 137,748 138,254 Plus: Transfer payments 216,210 127,216 129,7178 133,023 137,748 138,254 Plus: Transfer payments 26,610 163 149 155 155 Transfer payments 26,610 26,717 26,452 26,555 27,058 Wage and salary disbursements 108,899 110,889 113,182 116,514 121,058 Other labor income 9,964 9,464 346 347 395 382 Proprietors' income 9,964 10,047 10,177 10,	Personal income (lines 4-11) 182,445 184,931 187,900 191,467 196,815 195,755 Farm income (line 17) 346 346 346 347 395 382 430 Derivation of Personal Income Earnings by place of work (lines 12-16 or 17-34) 128,127 130,302 132,834 136,542 141,542 139,358 Less: Personal contributions for social insurance 2 8,576 8,693 8,834 9,054 9,445 9,434 9,435 136,733 17,743 14,843 31,057 31,200 31,517	Personal income (lines 4-11) 182,445 184,931 187,900 191,467 196,815 195,755 198,751 Nonfarm personal income 182,039 184,585 187,562 191,072 196,433 195,325 198,403 Parmings by place of work (lines 12-16 or 17-34) 128,127 130,302 132,834 136,542 141,542 139,358 141,941 Less: Fersonal contributions for social insurance 2 5,569 5,607 5,783 5,536 5,660 6,602 6,043 136,542 141,542 139,358 141,941 Less: Fersonal contributions for social insurance 2 5,569 5,607 5,783 5,536 5,660 6,602 6,033 133,023 137,748 136,542 141,941 Less: Viet dense interest and rent 4 26,268 26,453 226,585 27,058 27,234 27,608 State unemployment insurance benefits 26,101 26,271 26,452 26,585 27,058 10,471 10,431 10,571 Proprietors income 5	Personal income (lines 4-11) 182,445 184,931 187,900 191,467 196,815 195,755 198,751 34,676 Parm income (line 17) 346 346 347 385 382 380 348 7 Derivation of Personal Income 182,893 185,552 193,072 196,433 195,755 198,751 34,676 Less: Personal contributions for social insurance 2 85,76 8,633 8,634 9,654 9,444 9,425 1,622 Less: Personal contributions for social insurance 2 5,569 5,607 5,783 5,536 5,660 6,025 6,043 22,551 5,112 Plus: Nidement for residence 3 125,120 127,216 129,781 133,023 137,744 136,532 138,592 20,517 5,112 Plus: Nidement insurance benefits 125,120 127,216 129,781 133,023 137,744 136,432 127,603 9,147 136,322 138,522 146,41 138 144 138 144 138 144 138	Personal income (lines 4-11)	Personal income (lines 4-11) 182,445 184,391 187,900 191,467 196,815 195,755 198,751 34,676 34,911 35,280 Parm income (line 17) 346 346 346 346 346 346 346 346 346 346 34,675 34,676 34,911 35,282 198,325 198,403 34,676 34,911 35,282 198,325 198,403 34,676 34,911 35,282 198,325 198,403 34,676 34,911 35,282 198,403 34,676 34,901 35,282 198,403 34,676 34,901 35,282 198,325 198,403 34,676 34,901 35,282 198,325 198,403 34,676 34,901 35,282 148,454 141,542 193,326 146,214 141,914 21,867 26,231 162,215 162,215 162,215 162,215 162,115 162,115 162,115 162,115 162,115 162,115 162,115 162,115 162,115 162,115 162,115 162,115	Personal income (lines 4-11) 182.445 184.935 187.900 191.477 198.815 195.725 198.751 34.676 34.911 35.230 35.469 Nonfarm personal income 122.089 184.555 187.552 198.751 34.676 34.911 35.230 35.469 Perminance (line 17) 132.634 136.542 141.542 139.358 141.941 21.867 22.015 22.331 22.394 Less Personal income 125.127 130.302 132.783 133.023 137.748 136.542 1.646 1.643 Puis: Adjustment for residence 3 5.568 5.660 5.600 5.602 5.602 5.017 2.0382 21.085 Puis: Transfer parments 31.067 31.280 31.517 31.747 31.748 133.522 0.208 2.145 5.012 5.012 5.012 5.012 5.012 5.012 5.012 5.012 5.012 5.012 5.012 5.012 5.012 5.012 5.012 5.012 5.012 5.012 <td< td=""><td>Personal income (lines 4-11) 122.445 184.495 187.552 198.755 19</td><td>Derestanti icome (illies 4-11) 112,445 184,951 134,676 34,676 34,976 34,975 34,676 34,975 34,676 34,975 34,675 34,775 35,755 55,7</td></td<>	Personal income (lines 4-11) 122.445 184.495 187.552 198.755 19	Derestanti icome (illies 4-11) 112,445 184,951 134,676 34,676 34,976 34,975 34,676 34,975 34,676 34,975 34,675 34,775 35,755 55,7

					Oklahoma							Texas			
Line	Item		199	98			1999			199	98			1999	
		I	Ш	Ш	IV	r	$ ^{r}$	<i>P</i>	Ι	Ш	Ш	IV	<i>r</i>	<i>r</i>	<i>P</i>
	Income by Place of Residence														
1 2 3	Personal income (lines 4-11) Nonfarm personal income Farm income (line 17)	69,562 69,347 215	70,257 70,003 255	70,847 70,581 266	71,211 70,651 560	71,909 71,486 423	72,927 72,321 606	73,682 73,379 304	484,174 481,771 2,403	490,352 487,885 2,467	498,443 496,116 2,327	505,206 501,723 3,483	513,403 510,417 2,987	519,419 515,115 4,303	526,601 524,210 2,391
	Derivation of Personal Income														
4 5 7 8 9 10	Earnings by place of work (lines 12-16 or 17-34) Less: Personal contributions for social insurance ²	47,853 3,387 779 45,244 10,447 13,870 101 13,770	48,394 3,410 786 45,771 10,527 13,959 105 13,855	48,807 3,425 800 46,182 10,610 14,055 111 13,945	49,000 3,398 815 46,418 10,667 14,127 16 14,011	49,438 3,455 832 46,816 10,706 14,386 139 14,248	50,255 3,487 840 47,608 10,835 14,483 14,483 147 14,336	50,789 3,534 852 48,108 10,986 14,588 138 14,451	373,624 23,534 -1,175 348,914 65,732 69,528 880 68,647	378,921 23,774 -1,190 353,957 66,285 70,110 961 69,148	386,409 24,197 -1,232 360,981 66,869 70,593 914 69,679	392,438 24,388 -1,246 366,804 67,280 71,122 1,052 70,071	399,428 24,989 -1,276 373,163 67,601 72,640 1,176 71,464	403,961 25,045 -1,280 377,636 68,558 73,224 1,242 71,982	409,836 25,427 -1,311 383,098 69,647 73,857 1,198 72,659
	Earnings by Place of Work														
12 13 14 15 16	Components of earnings: Wage and salary disbursements	37,452 4,046 6,355 61 6,294	37,873 4,052 6,469 94 6,375	38,206 4,043 6,557 99 6,458	38,071 3,997 6,932 388 6,545	38,517 4,011 6,910 247 6,663	39,019 4,047 7,189 426 6,763	39,706 4,098 6,984 119 6,866	285,918 27,364 60,342 1,626 58,716	290,164 27,462 61,295 1,659 59,635	296,613 27,873 61,924 1,488 60,436	300,274 27,847 64,317 2,613 61,703	306,159 28,263 65,006 2,100 62,906	307,956 28,250 67,756 3,394 64,361	313,942 28,593 67,301 1,458 65,843
	Earnings by Industry														
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 33 34	Farm earnings Nonfarm earnings Private earnings Agricultural services, forestry, fishing, and other ° Mining Construction Manufacturing Durable goods Nondurable goods Nondurable goods Nondurable goods Retail trade Finance, insurance, and real estate Services Government and government enterprises Federal, civilian Military State and local	215 47,638 38,879 2255 2,297 5,155 2,736 4,046 2,453 4,798 2,551 12,190 8,758 1,999 956 5,804	255 48,140 39,287 2,257 2,257 2,484 5,148 2,750 3,394 2,531 4,849 2,623 12,386 8,853 2,019 943 5,891	266 48,541 39,672 2655 2,289 2,547 7,821 5,107 2,714 4,014 2,566 4,883 2,632 12,656 8,869 2,024 942 5,903	560 48,440 39,631 2,528 2,512 7,868 5,123 2,745 4,143 2,523 4,877 2,686 12,520 8,809 2,046 928 5,835	423 49,015 39,807 2,173 2,616 7,715 5,129 2,586 3,996 2,616 5,046 2,570 12,781 9,208 2,126 9,45 6,137	606 49,649 2922 2,163 2,641 7,817 5,164 2,653 3,989 2,637 5,072 2,783 13,025 9,229 2,126 9,229 2,126 6,168	304 50,485 41,147 2,225 2,640 8,032 2,710 4,044 2,686 5,118 2,848 13,257 9,338 2,153 917 6,268	$\begin{array}{c} 2,403\\ 371,221\\ 321,122\\ 2,104\\ 16,504\\ 23,492\\ 61,408\\ 34,978\\ 26,430\\ 34,352\\ 25,388\\ 33,358\\ 26,593\\ 97,924\\ 50,099\\ 8,392\\ 4,148\\ 37,559\end{array}$	$\begin{array}{c} 2,467\\ 376,454\\ 325,769\\ 2,192\\ 16,644\\ 24,394\\ 61,042\\ 34,672\\ 26,370\\ 34,191\\ 26,276\\ 33,996\\ 700,129\\ 50,685\\ 8,470\\ 4,104\\ 38,111\end{array}$	2,327 384,083 332,952 2,179 16,407 24,620 63,262 37,061 26,202 35,157 27,130 34,317 27,800 102,079 51,131 8,534 4,079 38,518	3,483 388,954 337,560 2,264 16,471 25,386 62,243 36,247 25,996 35,567 27,449 35,5010 28,903 104,268 51,394 8,730 4,058 38,606	$\begin{array}{c} 2,987\\ 396,441\\ 343,211\\ 15,666\\ 25,827\\ 61,406\\ 35,276\\ 35,276\\ 35,276\\ 35,278\\ 29,112\\ 35,897\\ 28,636\\ 106,668\\ 53,230\\ 9,064\\ 4,166\\ 40,000\\ \end{array}$	4,303 399,658 347,499 2,462 15,910 26,248 61,706 61,706 61,706 61,706 44,882 26,823 36,814 28,704 36,874 29,708 109,374 52,159 9,041 4,112 39,007	$\begin{array}{c} 2,391\\ 407,445\\ 354,636\\ 2,508\\ 16,280\\ 26,511\\ 62,599\\ 35,381\\ 27,217\\ 37,428\\ 39,286\\ 37,088\\ 30,447\\ 112,490\\ 52,809\\ 8,972\\ 4,160\\ 39,677\end{array}$

See footnotes at end of table.

and Earnings by Industry, 1998:I-1999:III-Continued adjusted at annual rates]

\neg				lew Mexico	Ν						Arizona								Southwest	Southwest	Southwest
Line		1999			98	19			1999			98	19			1999				98	1998
-	<i>p</i>	$\ r\ $	r	IV	Ш	Ш	Ι	<i>P</i>	$ ^{r}$	r	IV	III	П	I	<i>p</i>	$\ r\ $	<i>r</i>	IV	III	11	Γ
23 2	36,47 36,123 348	36,063 35,667 397	35,190 34,798 392	35,431 35,038 393	34,800 34,441 358	34,543 34,184 359	34,239 33,856 383	117,435 116,760 675	115,051 114,322 729	111,051 110,311 741	111,522 110,796 726	109,091 108,496 595	106,967 106,255 712	104,765 104,135 630	754,190 750,472 3,718	743,460 737,425 6,035	731,553 727,011 4,543	723,371 718,208 5,162	713,181 709,635 3,546	702,120 698,327 3,793	0 9 1
21 5 10 6 83 7 98 8 90 9 84 10	25,39: 1,92 23,58: 5,598 7,290 8 7,200	25,120 1,903 106 23,323 5,518 7,223 85 7,138	24,311 1,845 108 22,574 5,444 7,172 86 7,086	24,755 1,874 99 22,980 5,416 7,034 89 6,945	24,170 1,836 97 22,431 5,380 6,989 83 6,905	24,007 1,828 92 22,270 5,334 6,939 87 6,852	23,798 1,817 88 22,069 5,290 6,880 79 6,801	85,474 5,965 308 79,817 18,983 18,635 175 18,460	83,578 5,851 301 78,028 18,558 18,464 168 18,297	79,759 5,591 321 74,490 18,225 18,337 165 18,172	80,751 5,651 292 75,392 18,128 18,002 166 17,836	78,424 5,515 280 73,188 18,014 17,889 147 17,742	76,442 5,379 281 71,344 17,818 17,805 191 17,614	74,479 5,261 282 69,500 17,633 17,632 139 17,494	571,492 36,846 -40 534,605 105,215 114,370 1,594 112,776	562,914 36,286 -33 526,596 103,469 113,395 1,642 111,753	552,937 35,880 -14 517,043 101,975 112,535 1,566 110,969	546,945 35,312 -39 511,594 101,492 110,285 1,422 108,863	537,809 34,973 -54 502,782 100,873 109,526 1,255 108,271	527,763 34,390 -31 493,343 99,964 108,813 1,344 107,469	
52 13 75 14 38 15	20,760 1,952 2,675 138 2,538	20,487 1,940 2,692 197 2,496	19,791 1,879 2,641 202 2,439	20,203 1,931 2,621 209 2,412	19,702 1,903 2,565 182 2,383	19,533 1,908 2,566 189 2,376	19,327 1,908 2,563 219 2,344	70,523 6,360 8,591 321 8,270	68,891 6,259 8,428 391 8,037	65,593 5,963 8,204 419 7,785	66,629 6,135 7,987 416 7,571	64,743 5,997 7,683 296 7,387	62,864 5,890 7,688 424 7,264	61,208 5,791 7,480 354 7,126	444,938 41,003 85,551 2,035 83,516	436,352 40,496 86,065 4,408 81,657	430,060 40,116 82,761 2,968 79,794	425,177 39,910 81,858 3,626 78,231	419,264 39,816 78,729 2,065 76,664	410,433 39,312 78,018 2,367 75,651	;))
46 18 27 19 93 20 37 21 38 22 45 23 31 24 14 25 78 26 84 27 01 28 19 29 33 30 18 31 27 32 58 33	344 25,044 18;27 73; 1,73; 1,84 1,33 51; 1,08 2,90; 1,41; 7,45; 6,211 1,42; 4,33;	397 24,723 18,522 1,833 1,725 1,833 1,336 497 1,465 1,059 2,863 1,391 7,254 6,201 1,427 458 4,316	392 23,919 17,954 206 727 1,648 1,769 1,265 504 1,438 1,048 2,809 1,285 7,026 5,965 5,965 1,437 463 4,065	393 24,363 18,232 185 791 1,683 1,829 1,314 515 1,489 1,046 2,792 1,328 7,088 6,130 1,375 463 4,292	358 23,812 23,812 17,990 174 784 1,714 1,859 1,311 548 1,443 1,035 2,763 1,274 6,945 5,821 1,364 477 3,979	359 23,647 17,774 1,753 1,906 1,346 560 1,411 1,009 2,732 1,245 6,738 5,873 1,346 487 4,040	383 23,415 17,546 1,955 1,412 543 1,955 1,412 543 1,433 997 2,692 1,196 6,565 5,869 1,350 498 4,021	675 84,799 72,799 840 511 6,619 11,307 9,295 2,012 4,816 5,516 9,147 8,207 25,837 12,000 2,138 783 9,079	729 82,849 71,122 824 6,510 11,027 9,037 1,990 4,749 5,359 8,994 7,978 25,070 11,727 2,144 786 8,797	741 79,019 67,959 6100 6,309 10,277 8,322 1,955 1,955 4,499 5,240 24,201 11,060 24,201 11,060 2,126 787 8,148	726 80,025 68,299 771 683 6,100 11,307 9,267 2,040 4,697 5,146 8,586 8,586 8,586 2,045 7,602 23,407 11,726 2,045 7,71 8,910	595 77,828 66,576 774 714 5,968 10,686 8,700 1,986 4,487 5,120 8,539 7,118 23,170 11,252 2,041 775 8,436	712 75,730 64,678 729 679 5,764 10,645 8,681 1,964 4,450 4,962 8,228 6,857 22,363 11,052 2,010 780 8,263	630 73,849 62,966 683 666 5,548 10,561 8,600 1,962 4,416 4,804 8,080 6,626 21,581 10,883 1,968 7,93 8,121	3,718 567,774 487,408 487,408 487,408 3,838 19,753 37,508 83,783 51,329 32,455 47,765 38,571 54,253 42,920 159,016 80,366 14,691 6,318 59,357	6,035 556,879 477,563 3,766 19,427 37,124 82,383 50,420 31,963 31,963 47,017 37,760 53,502 41,860 154,723 79,316 14,738 6,291 58,288	4,543 548,394 468,931 3,710 9,176 36,400 81,167 49,991 31,175 39,852 150,677 79,463 14,753 6,361 58,350	5,162 541,782 463,723 3,495 20,173 35,680 83,248 51,952 31,296 45,897 36,164 51,265 40,519 147,283 78,060 14,196 6,220 57,643	3,546 534,263 457,190 3,393 20,194 34,849 52,180 31,449 45,101 35,851 50,501 38,823 144,849 77,074 13,964 6,273 56,837	3,793 523,971 447,507 3,362 20,386 34,395 81,491 49,847 31,644 44,045 34,777 49,805 37,631 141,616 76,464 13,845 6,315 56,304	
\top				Idaho							Colorado						ain	ky Mount	Ro		
Line		1999			98	19			1999			98	19			1999			98	19	
	<i>P</i>	r	r	IV	Ш	Ш	Ι	<i>P</i>	$\ r\ $	r	IV	III	П	I	<i>p</i>	r	<i>r</i>	IV	Ш	11	

			,																		
	19	98			1999			19	98			1999			19	98					Line
I	Ш	=	IV	r	$ ^{r}$	<i>p</i>	Ι	II	=	IV	<i>r</i>	$\ r$	<i>P</i>	Ι	Ш	=	IV	r	$\parallel r$	<i>p</i>	
209,209 207,537 1,672	211,736 210,133 1,604	214,437 212,717 1,721	219,191 216,793 2,398	222,178 219,938 2,240	227,417 224,856 2,561	230,648 228,486 2,162	111,925 111,088 837	113,255 112,378 877	114,793 113,920 873	117,823 116,796 1,027	119,334 118,367 967	122,654 121,676 978	124,766 123,909 857	25,426 24,843 584	25,622 25,013 608	26,076 25,459 617	26,480 25,701 780	27,054 26,312 742	27,403 26,581 822	27,660 26,890 769	1 2 3
155,786 10,542 251 145,496 34,287 29,427 446 28,981	157,884 10,649 261 147,496 34,625 29,615 439 29,176	160,135 10,750 269 149,655 34,982 29,800 418 29,382	164,705 10,973 271 154,004 35,207 29,980 445 29,535	167,192 11,200 281 156,272 35,391 30,515 438 30,077	171,923 11,460 274 160,737 35,966 30,714 436 30,279	174,323 11,599 284 163,007 36,644 30,996 454 30,542	84,639 5,497 29 79,170 18,701 14,054 153 13,901	85,727 5,540 31 80,218 18,892 14,145 146 13,998	87,033 5,601 33 81,465 19,093 14,235 134 14,101	90,032 5,768 25 84,288 19,217 14,318 141 14,177	91,278 5,878 25 85,425 19,321 14,588 141 14,447	94,375 6,067 17 88,325 19,644 14,685 138 14,548	96,055 6,159 15 89,911 20,023 14,832 153 14,679	18,125 1,312 267 17,080 4,233 4,113 118 3,995	18,244 1,315 276 17,205 4,276 4,141 117 4,024	18,652 1,342 280 17,589 4,321 4,166 111 4,055	18,996 1,348 285 17,934 4,350 4,197 119 4,078	19,518 1,399 293 18,411 4,374 4,269 110 4,159	19,776 1,405 293 18,664 4,444 4,296 107 4,189	19,912 1,412 302 18,802 4,524 4,334 106 4,228	4 5 7 8 9 10 11
124,268 11,902 19,616 660 18,956	126,100 11,984 19,800 551 19,249	127,888 12,024 20,223 627 19,596	131,194 12,199 21,312 1,264 20,047	133,195 12,345 21,652 1,062 20,590	136,865 12,618 22,440 1,324 21,116	139,131 12,719 22,472 862 21,611	67,917 6,317 10,405 530 9,876	68,760 6,348 10,620 557 10,062	69,820 6,382 10,832 540 10,291	72,222 6,546 11,264 683 10,581	73,230 6,615 11,433 609 10,824	75,862 6,816 11,697 603 11,095	77,331 6,884 11,840 462 11,378	13,720 1,354 3,050 224 2,827	13,814 1,349 3,082 234 2,848	14,159 1,370 3,124 229 2,895	14,285 1,366 3,346 376 2,969	14,750 1,409 3,359 323 3,036	14,862 1,408 3,505 382 3,123	15,004 1,415 3,493 306 3,187	12 13 14 15 16
$\begin{array}{c} 1,672\\ 154,114\\ 129,821\\ 1,099\\ 3,675\\ 12,421\\ 19,400\\ 13,350\\ 6,0550\\ 13,637\\ 8,957\\ 15,767\\ 15,767\\ 11,243\\ 43,622\\ 24,293\\ 5,360\\ 1,825\\ 17,108\\ \end{array}$	$\begin{array}{c} 1,604\\ 156,280\\ 131,582\\ 1,130\\ 3,645\\ 12,668\\ 19,562\\ 13,451\\ 6,111\\ 13,666\\ 9,067\\ 16,061\\ 11,964\\ 43,818\\ 24,698\\ 5,410\\ 1,804\\ 17,484\end{array}$	$\begin{array}{c} 1,721\\ 158,415\\ 133,586\\ 1,172\\ 3,666\\ 13,076\\ 19,634\\ 13,526\\ 6,109\\ 13,614\\ 9,256\\ 16,388\\ 12,197\\ 44,577\\ 24,835\\ 5,424\\ 1,803\\ 17,608 \end{array}$	2,398 162,307 137,244 1,219 3,590 13,324 13,324 13,430 6,334 14,224 9,417 16,661 12,903 46,143 25,063 5,429 1,783 17,851	2,240 164,952 139,363 1,281 13,865 19,832 13,654 6,177 14,813 9,501 17,094 12,636 46,884 25,589 5,676 1,829 18,084	2,561 169,362 1,274 3,505 14,121 20,077 13,752 6,325 15,015 9,834 17,373 13,168 48,940 26,056 5,657 1,819 18,580	2,162 172,161 145,771 1,301 3,489 14,270 20,158 13,777 6,380 15,092 10,017 17,669 13,400 50,375 26,390 5,647 1,851 18,892	837 83,802 71,813 551 1,537 6,427 9,862 6,801 3,061 8,179 5,074 7,926 6,794 25,463 11,989 2,632 1,098 8,258	877 84,850 72,699 568 1,538 6,641 9,848 6,763 3,085 8,226 5,117 8,099 7,287 25,374 12,152 2,660 1,085 8,407	873 86,161 73,888 584 1,517 6,980 10,025 6,974 3,051 8,119 5,218 8,326 7,367 25,752 12,273 2,680 1,079 8,514	1,027 89,005 76,727 621 1,528 7,310 10,167 6,957 3,211 8,740 5,360 8,361 7,907 26,734 12,278 2,667 1,065 8,546	967 90,311 77,727 672 1,468 7,433 10,058 6,929 3,129 9,233 5,319 8,730 7,767 27,047 12,585 2,784 1,096 8,705	978 93,397 80,582 656 1,525 7,538 10,303 7,063 3,241 9,389 5,614 8,825 8,121 28,550 12,814 2,758 1,086 8,970	857 95,198 82,248 671 1,503 7,677 10,312 7,093 3,219 9,453 5,726 9,063 8,2237 29,601 12,950 2,735 1,112 9,104	584 17,542 14,609 249 186 1,578 3,226 2,260 9966 1,967 996 4,210 2,933 554 187 2,192	608 17,636 14,678 252 183 1,543 3,179 2,193 986 1,272 1,023 1,991 952 4,283 2,959 545 545 184 2,230	617 18,034 15,028 268 1,571 3,294 2,296 9,98 1,276 1,050 2,031 980 4,380 3,006 543 184 2,279	780 18,217 15,217 1,602 3,261 2,255 1,006 1,299 1,073 2,046 1,027 4,457 2,999 545 5 182 2,272	742 18,775 15,636 268 1,71 1,633 3,465 2,467 998 1,309 1,085 2,138 1,046 4,521 3,139 583 1,87 2,370	822 18,954 15,794 267 166 1,703 3,318 2,315 1,002 1,334 1,137 2,130 1,036 4,703 3,160 577 188 2,395	769 19,143 15,962 271 1,696 3,426 2,382 1,044 1,338 1,162 2,141 1,047 4,708 3,181 574 4,88 2,419	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

Table 2.—Personal Income by Major Source

[Millions of dollars, seasonally

															,
					Montana							Utah			
Line	Item		19	98			1999			199	98			1999	
		Ι	Ш	Ш	IV	r	r	<i>p</i>	Ι	Ш	Ш	IV	r	r	<i>p</i>
	Income by Place of Residence														
1 2	Personal income (lines 4-11) Nonfarm personal income	17,547 17,490	17,786 17,788	17,728 17,731	18,246 17,916	18,476 18,253	18,964 18,547	19,024 18,793	43,288 43.063	44,070 43,840	44,561 44,329	45,269 45,029	45,727 45,490	46,729 46,497	47,466 47,235
3	Farm income (line 17)	56	-2	-3	330	224	417	232	225	230	233	240	237	232	230
	Derivation of Personal Income														
4 5	Earnings by place of work (lines 12-16 or 17-34) Less: Personal contributions for social insurance ²	11,499 958	11,721 982	11,604 968	12,096 979	12,278 1,005	12,724 1,022	12,710 1,033	34,068 2,249	34,788 2,288	35,189 2,306	35,857 2,343	36,212 2,373	37,120 2,425	37,711 2,453
6	Plus: Adjustment for residence ³ Equals: Net earnings by place of residence	-28 10,512	-30 10,709	-28 10,609	-29 11,088	-29 11,244	-30 11,672	-31 11,647	3 31,822	2 32,502	4 32,887	7 33,521	9 33,848	7 34,702	9 35,267
8	Plus: Dividends, interest, and rent ⁴	3,423	3,447	3,471	3,490	3,503	3,545	3,598	5,596	5,659	5,724	5,763	5,794	5,897	6,018
9 10	Plus: Transfer payments State unemployment insurance benefits	3,611 64	3,630 62	3,648 58	3,668 62	3,729 64	3,748 61	3,780 65	5,870 83	5,910 86	5,950 87	5,985 94	6,085 92	6,130 99	6,181 101
11	Transfers excluding State unemployment insurance benefits	3,547	3,568	3,590	3,607	3,665	3,687	3,715	5,787	5,824	5,863	5,891	5,993	6,031	6,080
	Earnings by Place of Work														
12	Components of earnings: Wage and salary disbursements	8,849	9,108	9,018	9,162	9,365	9,558	9,697	27,865	28,485	28,826	29,424	29,645	30,409	30,886
13 14	Other labor income Proprietors' income 5	912 1,738	935 1,678	910 1,676	913 2,021	931 1,982	947 2,220	954 2,059	2,764 3,439	2,800 3,504	2,804 3,559	2,820 3,613	2,832 3,734	2,891 3,819	2,912 3,912
15	Farm proprietors' income	-102	-166	-174	152	39	224 1.996	28	120	121	119	122	115	103	95
16	Nonfarm proprietors' income	1,840	1,844	1,850	1,869	1,943	1,990	2,031	3,319	3,383	3,439	3,491	3,619	3,716	3,817
47	Earnings by Industry	50	2	2	220	224	447	222	225	220	222	240	207	222	220
17 18	Farm earnings Nonfarm earnings	56 11,442	-2 11,722	-3 11,607	330 11,766	224 12,055	417 12,307	232 12,479	225 33,843	230 34,558	233 34,957	240 35,618	237 35,974	232 36,888	230 37,480
19 20	Private earnings Agricultural services, forestry, fishing, and other ⁶	9,200 107	9,445 109	9,306 109	9,469 115	9,677 119	9,902 122	10,068 125	28,386 135	28,931 141	29,421 150	29,836 148	30,251 150	30,970 159	31,439 163
21	Mining	289	281 987	303	274	277	270	270	463	453	445	432	405	424	436 3.099
22 23	Construction Manufacturing	1,025 902	1,108	958 887	916 921	1,026 919	1,078 925	1,069 963	2,747 4,993	2,835 5,009	2,919 5,003	2,842 4,974	3,044 4,965	3,060 5,099	5,034
24 25	Durable goods Nondurable goods	580 322	781 327	568 319	593 328	596 323	582 344	589 374	3,541 1,452	3,544 1,465	3,515 1,488	3,454 1,520	3,491 1,474	3,618 1,482	3,545 1,490
25	Transportation and public utilities	947	942	927	938	953	976	971	2,556	2,554	2,624	2,575	2,660	2,642	2,655
27	Wholesale trade	622	625	633	627	651	654	665	1,993	2,027	2,078	2,092	2,168	2,153	2,189
28 29	Retail trade Finance, insurance, and real estate	1,456 663	1,478 679	1,487 692	1,529 737	1,560 706	1,560 752	1,583 765	3,651 2,526	3,718 2,694	3,757 2,794	3,900 2,855	3,837 2,764	3,983 2,896	4,054 2,994
29 30	Services	3,189	3.236	3,309	3,412	3,467	3,564	3,656	2,526	2,694	2,794 9,652	2,855	10,258	2,896	2,994
31	Government and government enterprises	2,243	2,278	2,301	2,297	2,378	2,405	2,411	5,457	5,627	5,536	5,782	5,723	5,918	6,041
32	Federal, civilian	543	550	553	556	590	582	575	1,332	1,352	1,340	1,354	1,402	1,419	1,441
33 34	Military State and local	153 1.547	151 1.577	153 1.595	154 1.587	157 1.631	155 1.668	156 1.680	253 3.873	251 4.025	252 3.944	249 4.180	254 4.066	254 4.245	256 4.344
		.,011	.,	.,000	.,001	.,	.,000	.,000	0,0.0	.,020	0,0.4	.,	.,000	.,0	.,

		California								Нажаіі							
Line	Item		19	98			1999			199	98			1999			
		Ι	=	Ш	IV	r	$\ r$	<i>P</i>	I	Ш	Ш	IV	r	<i>r</i>	$ _{p}$		
	Income by Place of Residence																
1 2 3	Personal income (lines 4-11) Nonfarm personal income Farm income (line 17)	881,119 873,610 7,509	892,504 884,591 7,913	906,175 898,495 7,680	923,802 915,688 8,114	941,435 933,663 7,771	956,059 948,009 8,050	969,041 961,846 7,195	31,022 30,860 162	31,192 31,024 168	31,316 31,142 174	31,543 31,362 181	31,649 31,473 176	32,061 31,893 168	32,523 32,363 160		
	Derivation of Personal Income																
4 5 7 8 9 10 11	Earnings by place of work (lines 12-16 or 17-34) Less: Personal contributions for social insurance ²	640,045 42,828 -609 596,608 153,740 130,770 2,607 128,163	649,888 43,324 -623 605,941 155,024 131,539 2,655 128,883	662,420 44,066 -651 617,703 156,373 132,099 2,453 129,646	679,237 45,028 -682 633,528 157,549 132,725 2,516 130,209	695,374 46,411 -721 648,242 158,372 134,821 2,608 132,213	708,025 47,083 -754 660,188 160,247 135,624 2,665 132,959	719,262 47,713 -790 670,759 161,758 136,523 2,591 133,932	22,048 1,428 0 20,620 5,095 5,307 146 5,161	22,136 1,427 0 20,709 5,137 5,346 148 5,199	22,187 1,425 0 20,763 5,180 5,373 135 5,239	22,348 1,429 0 20,920 5,218 5,406 137 5,268	22,335 1,432 0 20,903 5,243 5,503 129 5,373	22,671 1,448 0 21,224 5,302 5,535 122 5,413	23,056 1,467 0 21,588 5,352 5,582 119 5,464		
	Earnings by Place of Work																
12 13 14 15 16	Components of earnings: Wage and salary disbursements	502,367 48,245 89,433 3,580 85,853	510,540 48,570 90,778 3,827 86,952	521,548 49,089 91,783 3,437 88,346	535,271 49,804 94,162 3,714 90,449	549,007 51,037 95,330 3,217 92,112	558,969 51,756 97,300 3,289 94,010	568,792 52,298 98,173 2,212 95,961	17,656 1,702 2,689 6 2,683	17,724 1,699 2,713 6 2,707	17,776 1,691 2,721 6 2,715	17,903 1,685 2,761 6 2,755	17,862 1,674 2,799 7 2,792	18,120 1,693 2,859 7 2,851	18,438 1,711 2,906 8 2,898		
	Earnings by Industry																
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	Farm earnings Nonfarm earnings Private earnings Agricultural services, forestry, fishing, and other ⁶ Mining Construction Manufacturing Durable goods Nondurable goods Nondurable goods Retail trade Finance, insurance, and real estate Services Government and government enterprises Federal, civilian Military State and local	7,509 632,536 6,676 2,087 33,458 103,043 72,878 30,166 40,389 39,683 53,933 205,461 90,811 12,726 5,757 72,328	$\begin{array}{c} 7,913\\ 641,975\\ 550,270\\ 6,717\\ 1,990\\ 34,256\\ 103,618\\ 73,236\\ 40,273\\ 57,803\\ 55,684\\ 209,553\\ 91,705\\ 12,664\\ 5,687\\ 73,355\end{array}$	7,680 654,739 562,449 7,142 2,005 36,462 102,926 72,472 30,454 40,974 40,974 40,947 57,781 214,840 92,290 12,682 73,969	$\begin{array}{c} 8,114\\ 671,124\\ 577,673\\ 2,095\\ 38,638\\ 104,311\\ 73,165\\ 31,147\\ 41,102\\ 42,246\\ 60,269\\ 93,649\\ 12,716\\ 93,649\\ 12,75,342\\ \end{array}$	7,771 687,603 591,407 7,589 2,092 39,528 107,880 75,930 31,955 42,427 60,887 61,364 226,465 96,196 13,343 5,667 77,186	8,050 699,975 602,698 7,481 1,841 40,245 109,700 78,152 31,547 44,414 43,190 61,991 61,911 231,926 97,277 13,201 5,716 78,359	7,195 712,068 613,093 7,603 1,915 41,151 110,682 79,154 45,164 44,198 62,941 62,941 62,941 62,941 62,941 98,129 13,025 5,677 79,427	162 21,886 16,230 146 17 1,381 1810 197 613 1,840 814 2,662 1,770 6,791 5,656 1,364 1,583 2,709	168 21,968 16,345 150 17 1,393 813 198 615 1,823 821 2,651 1,818 6,859 5,623 1,378 1,547 2,698	174 22,013 16,405 145 1,364 803 192 611 1,852 826 2,648 1,854 6,896 5,608 1,388 1,537 2,683	181 22,167 16,574 153 16 1,352 7955 193 602 1,847 811 2,656 1,871 7,072 5,593 1,400 1,530 2,663	176 22,160 16,380 147 15 1,313 810 193 617 1,837 821 2,679 1,844 6,913 5,780 1,445 1,549 2,785	168 22,504 16,761 158 1,55 1,353 827 827 836 2,723 1,909 7,142 5,743 1,446 1,521 2,776	$\begin{array}{c} 160\\ 22,896\\ 16,960\\ 159\\ 16\\ 1,323\\ 860\\ 207\\ 652\\ 1,815\\ 845\\ 2,757\\ 1,932\\ 7,254\\ 5,936\\ 1,457\\ 1,538\\ 2,941 \end{array}$		

^p Preliminary.
 ^r Revised.
 1. The estimates of earnings for 1998-99 are based on the 1987 Standard Industrial Classification.
 2. Personal contributions for social insurance are included in earnings by type and by industry, but they are excluded from personal income.
 3. The adjustment for residence is the net inflow of the earnings of interarea commuters. For the United States, it consists of adjustments for border workers and for certain temporary and migratory workers: Wage and salary

disbursements to U.S. residents commuting or working temporarily outside U.S. borders less wage and salary dis-bursements to foreign residents commuting or working temporarily inside U.S borders. 4. Rental income of persons includes the capital consumption adjustment. 5. Proprietors' income includes the inventory valuation adjustment and the capital consumption adjustment. 6. "Other" consists of the wage and salary disbursements of U.S. residents employed by international organiza-tions and foreign embassies and consulates in the United States.

and Earnings by Industry, 1998:I-1999:III-Continued

adjusted at annual rates]

			Wyoming			1				Far West							Alaska				
	199		wyonning		1999			40	98	Fai West		1999				998	Aldand		1999		Line
	195	,0 III	IV	<i>r</i>	1999	<i>p</i>		I	111	IV	r	1999	<i>p</i>			990	IV	<i>r</i>	1999	<i>p</i>	Line
	11		IV	1'	11'	111 P	1	11		IV	I'		11112				IV	1,		III P	
11,023 11,053 -29	11,004 11,114 –110	11,278 11,277 1	11,372 11,350 22	11,587 11,518 69	11,666 11,554 111	11,732 11,658 74	1,210,289 1,200,723 9,566	1,225,749 1,215,685 10,064	1,244,320 1,234,447 9,873	1,266,721 1,256,137 10,584	1,291,380 1,281,186 10,194	1,308,673 1,298,135 10,538	1,327,645 1,318,005 9,640	15,793	15,738	15,750	15,978 15,966 12		16,114 16,101 12	16,236 16,225 11	1 2 3
7,456 525 -19 6,912 2,333 1,778 27 1,751	7,403 524 -17 6,862 2,352 1,790 28 1,762	7,657 533 -19 7,104 2,373 1,801 27 1,774	7,723 534 -17 7,172 2,387 1,812 30 1,782	7,906 545 -17 7,343 2,399 1,844 31 1,813	7,928 541 -13 7,374 2,435 1,856 31 1,824	7,934 542 -12 7,381 2,481 1,870 31 1,839	880,713 59,553 -2,051 819,109 209,312 181,868 4,246 177,622	893,914 60,216 -2,084 831,614 211,138 182,997 4,330 178,667	910,714 61,204 -2,128 847,382 213,057 183,881 4,108 179,773	931,865 62,371 -2,206 867,288 214,617 184,815 4,224 180,591	954,411 64,315 -2,282 887,814 215,745 187,822 4,324 183,498	968,303 64,961 -2,302 901,040 218,519 189,114 4,534 184,580	984,452 65,860 -2,376 916,215 221,040 190,385 4,397 185,992	893 -803 10,801 1,950 3,054 104	881	877 -797 10,697 1,980 3,085 96	12,576 887 -810 10,880 1,994 3,104 101 3,003	12,693 898 -812 10,984 2,005 3,166 112 3,054	12,570 885 -801 10,883 2,030 3,201 128 3,073	12,666 888 -809 10,968 2,055 3,214 115 3,098	4 5 7 8 9 10 11
5,917 555 984 –111 1,095	5,934 552 917 –195 1,112	6,066 558 1,033 –87 1,120	6,101 554 1,068 -69 1,137	6,204 558 1,143 -25 1,169	6,175 555 1,199 12 1,186	6,212 554 1,168 -30 1,198	696,702 66,177 117,834 4,170 113,664	707,749 66,598 119,567 4,451 115,116	722,520 67,263 120,931 4,043 116,887	739,671 68,031 124,164 4,540 119,624	758,904 69,594 125,913 3,950 121,963	769,395 70,321 128,587 4,024 124,563	783,310 71,097 130,045 2,837 127,208	1,012 1,427 8	990 1,420	981 1,430 8	10,123 988 1,465 8 1,458	10	10,088 970 1,511 9 1,502	10,165 974 1,526 8 1,519	12 13 14 15 16
-29 7,485 5,814 57 1,201 644 417 169 248 685 271 767 767 334 1,439 1,672 299 135 1,238	-110 7,513 5,830 61 1,191 661 419 170 248 672 275 776 351 1,425 1,683 304 133 1,245	1 7,656 5,937 61 1,223 648 425 173 252 669 276 787 787 787 363 1,485 1,719 308 134 1,276	22 7,701 5,995 65 1,175 654 441 172 2669 672 2666 8256 8255 377 1,520 1,706 307 1,333 1,266	69 7,837 6,072 71 1,137 729 424 171 254 4658 278 830 353 1,565 317 1,565 317 1,362 1,312	1111 7,817 6,059 700 1,120 7433 431 174 257 673 276 815 362 1,568 1,758 321 1,366 1,302	74 7,860 6,054 71 1,109 7300 422 168 253 675 275 821 356 1,596 1,596 1,596 1,596 323 3138 1,346	9,566 871,147 740,280 8,797 4,156 51,453 136,272 97,650 38,622 57,435 53,757 81,031 69,763 277,616 130,867 20,201 10,273 100,394	10,064 883,850 751,798 8,893 4,029 52,435 137,444 98,613 38,831 57,246 54,525 82,199 71,935 283,093 132,052 20,166 10,168 101,718	9,873 900,841 768,039 9,362 4,053 54,988 136,505 97,983 38,967 55,164 84,278 84,278 74,637 290,582 132,802 20,246 10,110 102,447	10,584 921,281 786,606 10,065 57,528 137,685 39,540 58,553 56,948 85,742 77,817 298,102 134,675 20,323 10,063 104,289	10,194 944,217 806,045 10,059 3,987 59,053 141,186 100,558 40,629 60,684 57,298 87,123 78,416 308,239 138,172 21,289 10,196	10,538 957,765 818,259 10,011 3,706 59,664 143,766 103,238 40,528 61,858 58,772 88,708 79,453 312,920 139,506 21,129 10,193 108,184	9,640 974,812 833,862 10,177 3,742 60,655 145,460 104,810 40,655 63,019 59,419 90,077 80,843 320,483 320,483 140,947 20,947 10,162 109,838	12,486 8,830 207 943 1,020 607 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,020 1,330 3711 1,204 487 2,661 3,656 8566 633	8,730 210 931 914 576 164 411 1,316 380 1,212 504 2,687 3,633 861	12,359 8,817 937 937 937 937 937 1,345 386 1,203 505 2,771 3,541 862 640	230 954 927 571 174 396 1,358 395 1,220 533 2,805	13 12,680 8,987 239 859 1,026 599 182 417 1,345 362 1,238 535 2,784 3,693 8,966 640 2,157	12 12,557 8,850 235 803 946 1,329 1,73 366 1,322 365 1,264 549 2,828 3,707 904 633 2,170	11 12,655 8,970 240 783 917 570 176 394 1,377 372 1,270 561 2,882 3,684 893 635 2,156	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
			Nevada							Oregon						٧	Vashington				
	19	98			1999			1	998			1999			199	8			1999		Line
I	П	Ш	IV	r	r	<i>P</i>	I	11	III	IV	<i>r</i>	r	<i>P</i>	Ι	II	Ш	IV	<i>r</i>	r	<i>P</i>	
46.344	47,203	48,135	49,497	50.522	51.15	6 52.43	5 80.39 [°]	1 81.101	81.532	82.215	84.336	85.366	86.664	155.609	157,999	161,400	163.686	167.285	167.917	170.746	1

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- I	Ш	Ш	IV	r	r	p	I	П	Ш	IV	<i>r</i>	r	<i>P</i>	Ι	П	Ш	IV	r	<i>r</i>	<i>p</i>	
46,344 46,259 85	47,203 47,109 94	48,135 48,040 95	49,497 49,407 90	50,522 50,432 90	51,156 51,071 85	52,435 52,350 84	80,391 79,819 571	81,101 80,508 593	81,532 80,918 614	82,215 81,521 694	84,336 83,639 697	85,366 84,628 739	86,664 85,925 739	155,609 154,382 1,227	157,999 156,715 1,284	161,400 160,102 1,298	163,686 162,192 1,494	167,285 165,838 1,447	167,917 166,432 1,485	170,746 169,295 1,451	1 2 3
34,883 2,084 -682 32,117 7,868 6,359 170 6,189	35,633 2,121 -698 32,813 7,980 6,409 176 6,234	36,481 2,165 -716 33,599 8,098 6,438 157 6,281	37,865 2,244 -752 34,870 8,154 6,473 157 6,315	38,817 2,309 -773 35,736 8,201 6,585 146 6,439	39,208 2,325 -774 36,108 8,385 6,663 178 6,484	40,261 2,379 -801 37,081 8,621 6,733 189 6,544	58,868 4,253 -1,830 52,786 14,469 13,136 427 12,708	59,365 4,272 -1,837 53,256 14,609 13,236 441 12,795	59,539 4,265 -1,804 53,470 14,756 13,306 419 12,887	60,039 4,277 -1,802 53,960 14,851 13,404 449 12,955	62,089 4,453 -1,870 55,766 14,926 13,643 447 13,196	62,892 4,486 -1,916 56,489 15,159 13,718 432 13,286	63,865 4,538 -1,937 57,390 15,426 13,848 445 13,403	112,371 8,066 1,872 106,177 26,190 23,242 791 22,450	114,518 8,191 1,869 108,196 26,423 23,380 792 22,588	117,717 8,406 1,839 111,151 26,670 23,580 847 22,733	119,799 8,507 1,839 113,132 26,851 23,703 862 22,841	123,102 8,812 1,894 116,183 26,997 24,105 882 23,223	122,937 8,734 1,944 116,148 27,395 24,374 1,009 23,365	125,343 8,875 1,960 118,428 27,830 24,488 937 23,551	4 5 7 8 9 10 11
28,661 2,346 3,875 40 3,835	29,306 2,375 3,952 47 3,904	30,045 2,417 4,019 46 3,973	31,272 2,481 4,112 40 4,072	32,015 2,535 4,267 37 4,230	32,364 2,537 4,307 30 4,276	33,251 2,583 4,427 26 4,400	47,120 4,629 7,120 83 7,037	47,547 4,630 7,187 85 7,102	47,674 4,589 7,276 86 7,190	48,017 4,560 7,463 147 7,316	49,751 4,699 7,640 130 7,509	50,303 4,735 7,853 146 7,708	51,092 4,781 7,992 118 7,874	90,838 8,243 13,290 453 12,837	92,667 8,333 13,517 478 13,039	95,518 8,496 13,703 461 13,242	97,085 8,514 14,201 625 13,576	100,077 8,658 14,367 548 13,819	99,550 8,629 14,758 543 14,215	101,571 8,750 15,021 465 14,556	12 13 14 15 16
85 34,797 30,366 834 4,028 1,684 1,110 574 2,029 1,535 3,404 2,431 4,431 4,431 6550 284 3,497	94 35,539 31,010 232 7999 4,152 1,712 1,116 596 2,0457 1,567 3,527 2,604 44,372 4,529 649 282 3,597	95 36,386 240 797 4,356 1,732 1,144 589 2,064 1,601 3,613 2,770 14,541 4,670 654 284 3,732	90 37,775 33,010 266 796 4,516 1,735 1,125 610 2,163 1,661 3,721 2,798 15,353 4,765 671 2,822 3,813	90 38,727 33,951 270 5,052 1,783 1,170 613 2,210 1,679 3,793 2,720 15,717 4,776 711 711 289 3,777	85 39,123 34,195 260 743 4,491 1,764 1,764 1,770 3,946 2,901 16,179 4,928 714 291 3,923	84 40,177 35,210 266 712 4,599 1,735 1,119 616 2,288 1,759 4,062 2,975 16,814 4,966 7,724 292 3,950	571 58,297 50,004 505 88 4,465 11,533 9,128 2,405 3,708 4,418 6,337 3,955 14,999 8,293 1,425 150 6,718	593 58,772 50,432 503 84 4,408 11,634 9,222 2,412 3,721 4,450 6,396 4,049 15,189 8,340 1,427 149 6,764	614 58,925 50,478 900 4,399 11,415 9,011 2,405 3,723 4,256 6,502 4,127 15,460 8,447 15,460 8,447 149 6,865	694 59,345 50,842 548 88 4,281 11,155 8,750 2,405 3,829 4,520 6,598 4,196 15,626 8,503 1,432 147 6,924	697 61,392 52,496 559 84 4,409 9,081 2,480 3,813 4,606 6,917 4,162 16,385 8,896 1,493 149 7,254	739 62,153 53,300 53,300 9,191 2,519 4,710 6,885 4,710 6,885 4,710 6,885 4,710 6,885 1,484 1,49 7,220	739 63,125 54,086 54,086 4,380 11,955 9,479 2,476 3,953 4,739 6,951 4,330 17,102 9,039 1,478 1,478 1,478	$\begin{array}{c} 1,227\\111,144\\93,124\\1,047\\190\\7,101\\18,595\\14,163\\4,432\\8,139\\6,937\\10,429\\7,121\\33,566\\18,020\\3,180\\1,866\\12,974\end{array}$	1,284 113,234 95,010 1,081 208 7,313 19,092 14,677 4,415 7,935 7,035 10,609 7,275 34,433 18,223 3,188 1,868 13,168	1,298 116,419 98,173 1,111 207 7,512 19,514 14,997 4,517 8,067 7,148 10,940 7,600 36,074 18,246 3,219 1,868 13,160	1,494 118,306 99,713 1,183 217 7,814 19,119 14,438 4,681 1,252 7,315 11,278 7,932 36,603 18,593 3,251 1,880 13,461	1,447 121,654 102,825 1,254 212 7,725 18,554 14,002 4,552 8,303 7,403 11,608 7,791 39,975 18,830 3,401 1,901 13,528	1,485 121,453 102,455 1,303 221 8,142 19,226 14,370 4,855 8,256 7,372 11,900 7,924 38,111 18,998 3,379 1,882 13,736	$\begin{array}{c} 1,451\\ 123,891\\ 104,700\\ 1,322\\ 228\\ 8,281\\ 19,658\\ 14,674\\ 4,984\\ 8,422\\ 7,507\\ 12,090\\ 8,066\\ 39,125\\ 19,122\\ 3,370\\ 13,952\\ \end{array}$	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

NOTE.—The personal income level shown for the United States is derived as the sum of the State estimates. It differs from the estimate of personal income in the national income and product accounts (NIPA's) because of differences in coverage, in the methodologies used to prepare the estimates, and in the timing of the availability

of source data. In particular, it differs from the NIPA estimate because, by definition, it omits the earnings of Federal civilian and military personnel stationed abroad and of U.S. residents employed abroad temporarily by private U.S. firms.

Industrial Composition of State Earnings in 1958–98

By G. Andrew Bernat, Jr. and Eric S. Repice

QUESTION OF long-standing interest in economics is "Are differences in the industrial composition of economies getting smaller-that is, converging—over time?" This question is important for regional economies as well as for national economies, though the differences in industrial composition among regions tend to be smaller than those among nations. For example, because of the close relationship between per capita income and industrial composition, convergence in industrial composition among regions or States is likely to be reflected in convergence in per capita incomes.¹ This article examines these issues by analyzing the industrial composition of State earnings in 1998, the most recent year for which data are available from BEA's regional accounts, and by analyzing trends in State industrial composition from 1958 to 1998. The key findings of this analysis follow:

- The industrial composition of earnings across States varied substantially in 1998, but less than in 1958. The States with the most variation in 1998 had small populations, relatively little manufacturing, and in some cases, relatively large government and large resource-based industries.
- The convergence in State industrial compositions in 1958–98 is primarily attributable to substantial growth in services and to declines in farming and manufacturing.
- In the States that converged the most, the manufacturing share of State earnings tended to rise toward its U.S. average and the farm and government shares tended to fall toward their U.S. averages.

These findings are consistent with the widely accepted view that convergence in industrial composition results from economic growth and integration. Economic theory suggests that the industrial composition of a particular economy is a function of capital stocks, labor supplies, the pattern of demand for final goods and services, transport costs, and the mobility of capital and labor. Most of these factors do not differ substantially among States and are therefore unlikely sources of differences in industrial composition: Transportation barriers between States are rare, transport costs are relatively low, capital and labor are relatively mobile, and final demand patterns are similar.

Nevertheless, differences in the industrial composition of States persist. In some cases, the differences reflect constraints on factor mobility. such as in natural-resource-intensive industries. In addition, the effects of economic geography may explain some of this persistence and have important implications. For instance, some observers speculate that the ongoing unification of Europe might lead to greater regional specialization that results in rich regions becoming richer, and poor regions, poorer.² Speculation that further economic integration might reinforce regional differences has rekindled interest among economists and policy makers about trends in State industrial composition. Because the U.S. economy is already highly integrated, analyses of these trends may shed light on what may happen to economies around the world as barriers to trade and to factor mobility are reduced and as national economies become more integrated with each other.³

The Heckscher-Ohlin theory of international trade is often used to explain the pattern of industrial production and the reasons for the convergence of industrial compositions over

See Sukkoo Kim, "Economic Integration and Convergence: U.S. Regions, 1840–1987," *Journal of Economic History* 58 (1998): 659–683 and Daniel H. Garnick and Howard L. Friedenberg, "Accounting for Regional Differences in Per Capita Personal Income Growth, 1929–79," SURVEY OF CURRENT BUSINESS 62 (September 1982): 24–34.

However, even if State industrial compositions continue to become more similar, further shifts in the share of earnings towards services and away from manufacturing might contribute to a widening of the income distribution in some States. See Constance Mitchell Ford and Patrick Barta, "Income Gap Broadens Amid Boom" *The Wall Street Journal*, January 18, 2000, A2; and Gene Koretz, "Why the Wage Gap Widened." *Business Week*, November 22, 1999, 18.

^{2.} See "Birds of a Feather," *The Economist*, May 29, 1999, 78, and Paul Krugman, *Geography and Trade* (Cambridge, MA: The MIT University Press 1991): 83.

^{3.} Kim, "Economic Integration and Convergence," 661.

time.⁴ According to this theory, nations tend to specialize in industries or in groups of industries that intensively use the more abundant factors of production; for example, a nation with relatively more capital than labor will specialize in the production of capital intensive goods and services. Conversely, economies will not tend to specialize if the proportions of the various factors of production are similar.

In contrast to the view that convergence in industrial composition inevitably results from economic growth and integration, certain conditions may lead economies to specialize in particular industries, and this specialization results in a divergence in industrial compositions over time.⁵ Positive geographic externalities, especially in the presence of increasing returns to scale, can lead to the clustering of economic activity.⁶ This effect

^{6.} A positive geographic externality exists if the location of an establishment in an area raises the productivity of nearby establishments in some way. For example, firms that locate near their input suppliers create geographic externalities that can lead to clustering because transportation costs are reduced. Moreover, if input suppliers can obtain increasing returns to scale, productivity is further enhanced because the scale of production for input suppliers rises. Similarly, firms that require a labor force with specialized skills can create geographic externalities by locating close to similar firms and establishments because a large pool of skilled workers will be attracted to the

[Percentage points]

	Farms	Agricultural services, forestry, and fishing	Mining	Construction	Manu- facturing	Transpor- tation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Govern- ment
United States	0.8	0.7	0.9	5.9	17.4	6.8	64	9.1	8.9	28.8	14.4
Alabama	1.8	.6	1.0	6.4	21.1	6.5		9.6	5.9	23.6	17.7
Alaska	.1	1.7	7.6	7.5	4.6	10.7	3.▼	9.7	4.1	21.9	28.9
Arizona	.9	1.0	.9	7.5	13.9	5.8	6.5	10.8	9.1	29.2	14.5
Arkansas	4.2	.8	.5	5.9	22.3	8.2	5.2	11.4	5.0	21.6	14.8
California	1.2	1.1	.3	5.4	15.7	6.2	6.2	8.9	8.7	32.3	14.0
Colorado	1.0	.7	1.8	7.9	11.5	9.6	6.0	9.4	8.4	29.7	14.0
Connecticut	.2	.5	.1	4.7	20.2	5.3	6.5	7.8	13.8	30.3	10.6
Delaware	.8	.4	0	6.8	25.7	4.4	3.8	8.2	14.2	23.7	11.8
District of Columbia	0	.8	0	1.2	2.8	3.3	.9	2.5	6.2	43.2	39.1
Florida	.9	1.0	.2	6.1	8.6	6.6	6.7	11.4	9.6	34.0	14.8
Georgia	1.5	.6	.3	5.9	15.8	9.6	8.9	9.2	7.6	26.3	14.3
Hawaii	.8	.7	.1	6.2	3.6	8.3	3.7	12.0	8.2	31.1	25.3
Idaho	3.5	1.4	1.0	8.5	17.5	6.9	5.6	10.9	5.2	23.4	16.1
Illinois	.4	.5 .5	.3	5.5	19.1	7.3	7.2	8.0	10.3	29.4	11.9
Indiana	.7	.5	.4	6.8	31.2	6.0	5.7	9.2	6.0	21.8	11.7
lowa	4.3	.8	.2	6.4	21.4	6.2	6.9	9.4	7.7	22.3	14.5
Kansas	2.7	.7	1.0	6.2	18.8	7.7	7.4	9.9	6.1	23.9	15.7
Kentucky	2.4	.7	2.3	6.0	21.6	7.7	5.5	10.2	5.1	22.7	15.7
Louisiana	.6	.5	5.3	8.1	13.6	7.8	5.7	9.4	5.4	26.9	16.7
Maine	.5	1.1	0	6.8	17.9	6.0	5.3	12.0	6.8	27.7	16.0
Maryland	.4	.6	.1	6.9	9.0	5.7	5.6	9.4	8.3	33.3	20.8
Massachusetts	.1	.5	.1	4.9	16.8	5.4	6.8	8.4	10.5	35.5	11.0
Michigan	.2	.5 .5 .7	.2	5.6	31.3	5.0	6.5	8.4	5.6	24.3	12.3
Minnesota	.8	.5	.5	6.1	20.8	6.4	7.9	9.2	8.8	26.7	12.2
Mississippi	2.4		.9	6.6	21.5	6.5	4.9	10.2	4.6	23.0	18.7
Missouri	.3	.5	.3	6.6	19.0	8.4	6.9	9.5	7.8	27.2	13.5
Montana	.8	.9	2.4	8.3	8.1	8.0	5.3	12.7	5.9	28.0	19.4
Nebraska	5.5	1.1	.2	6.2	14.0	9.0	6.6	9.0	7.4	25.5	15.5
Nevada	.3 .2	.7	2.2	11.8	4.7	5.7	4.4	9.8	7.4	40.3	12.7
New Hampshire		.6	.1	6.3	22.5	6.0	7.1	11.7	7.2	27.7	10.7
New Jersey	.1	.4	.1	4.4	15.2	8.5	9.0	7.8	9.6	31.1	13.7
New Mexico	1.5	.7	3.3	7.1	7.8	6.0	4.2	11.4	5.2	28.3	24.5
New York	.1	.3	.1	3.7	11.9	5.9	5.8	6.7	20.1	31.8	13.6
North Carolina	1.9	.6	.2	6.9	23.1	6.1	6.1	9.6	6.8	22.9	15.7
North Dakota	6.0	.8	2.0	7.0	8.2	8.4	8.2	10.0	5.7	25.5	18.2
Ohio	.5	.5	.4	5.7	26.2	5.7	6.8	9.4	6.8	25.3	12.7
Oklahoma	.7	.5	4.7	5.1	16.2	8.3	5.2	10.0	5.4	25.6	18.2
Oregon	1.0	.9	.1	7.4	19.2	6.3	7.4	10.9	6.9	25.8	14.1
Pennsylvania	.4	.5	.7	5.7	20.4	6.9	5.8	9.2	8.0	30.4	12.1
Rhode Island	.2	.7	.1	5.0	18.3	5.2	5.0	9.3	8.2	32.2	15.8
South Carolina	.6	.7	.1	7.3	23.6	5.4	5.2	11.1	5.7	22.4	17.8
South Dakota	7.4	1.2	.8	6.4	14.2	6.4	6.1	10.6	6.9	24.8	15.0
Tennessee	.2	.5	.3	6.4	21.0	7.7	6.6	10.7	6.6	27.5	12.5
Texas	.7	.6	4.3	6.4	16.2	9.1	6.9	8.9	7.2	26.4	13.3
Utah	.7	.4	1.3	8.1	14.3	7.4	5.9	10.7	7.8	27.5	16.0
Vermont	1.7	.7	.3	7.3	20.2	5.8	4.9	10.4	5.6	28.4	14.7
Virginia	.3	.5	.5	6.1	12.7	7.0	5.4	8.6	7.3	30.7	20.9
Washington	1.1	1.0	.2	6.4	16.4	7.0	6.1	9.3	6.4	30.3	15.7
West Virginia	0	.4	6.5	6.2	15.5	7.8	4.9	10.0	4.2	25.7	18.8
Wisconsin	.5	.6	.2	6.5	27.8	5.9	6.3	9.0	6.9	23.4	13.0
Wyoming	4	.8	15.8	8.6	5.6	8.9	3.6	10.4	4.7	19.4	22.4
						L					

^{4.} The Heckscher-Ohlin theory continues to be one of the mainstays of international trade theory, but empirical support for a number of its predictions has been elusive. For a concise survey, see Elhanan Helpman, "The Structure of Foreign Trade," *Journal of Economic Perspectives* 13 (Spring 1999): 121–144. Although this theory was developed to explain the pattern of international trade and production, it is also commonly applied to State and regional economies.

^{5.} For a recent overview of the relationship between geographic externalities and growth, see Ron Martin and Peter Sunley, "Slow Convergence? The New Endogenous Growth Theory and Regional Development," *Economic Geography* 74 (1998): 201–227.

is self-reinforcing because the competitive advantage gained by local establishments increases as the number of establishments in the area increases. Therefore, once a cluster is established, additional economic growth will result in further clustering and specialization and thus in divergence in industrial composition.⁷

The next section of this article describes the industrial composition of State earnings in 1998 and presents an index that measures the degree of similarity between the industrial composition of each State and that of the United States as a whole. The following section discusses the trends in industrial composition of State earnings in 1958–98, and the last section analyzes these

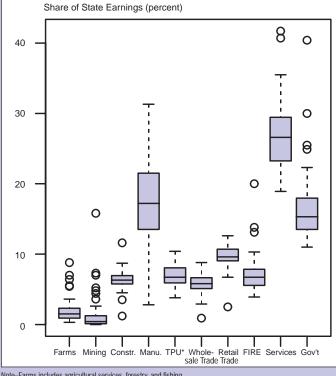
trends by decomposing the similarity index into two components.

Industrial composition of State earnings in 1998

In this article, State industrial composition is measured by industry shares of earnings.⁸ For the United States, the industries with the largest share of earnings were services (28.8 percent), manufacturing (17.4 percent), and government (14.4 percent) (table 1). These industries also accounted for the largest shares of earnings in almost all the States. Services accounted for the largest share or the second largest share in every State. Government was among the top three industries in all States except Connecticut, Delaware, and New Hampshire. Manufacturing was among the top three in 40 States (and the highest in 8 of these States), but it had only the seventh largest share in Alaska, Nevada, and Wyoming.

CHART 1

Distribution of Industry Shares of State Earnings, 1998



 Description of a Boxplot

 O
 Outlier

 Largest value that is not an outlier

 1
 25% of observations above median (upper hinge)

 Median
 25% of observations below median (lower hinge)

 1
 5% of observations below median (lower hinge)

 1
 Smallest value that is not an outlier

 O
 Outlier

 Outlier
 Outlier

Outliers are values greater than the upper hinge + 1.5 times the Hspread (or less than the lower hinge minus 1.5 times the Hspread), where the Hspread is the difference between the upper and lower hinges. See Terrence C. Mills, *Time Series Techniques for Economists* (Cambridge: Cambridge University Press, 1991): 26-29, and Robert Haining, *Spatial Data Analysis in the Social and Environmental Sciences* (Cambridge: Cambridge University Press, 1993): 201-213.

Note–Farms includes agricultural services, forestry, and fishing *Transportation and public uitlities

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area, so labor costs for all local establishments will be lower. Finally, having more establishments in the area will enhance information flows between establishments. See Paul Krugman, "The Role of Geography in Development," *International Regional Science Review* 22 (1999): 142–161; Anthony J. Venables, "Equilibrium Location of Vertically Linked Industries," *International Economic Review* 37 (1996): 341–360; and Paul A. David and Joshua L. Rosenbloom, "Marshallian Factor Market Externalities and the Dynamics of Industrial Localization," *Journal of Urban Economics* 28 (November 1990): 349–70.

^{7.} However, growth may be constrained by negative geographic externalities, such as congestion costs.

^{8.} A more comprehensive measure of State economic activity, such as gross state product, would be preferable, but estimates of earnings are available for a much longer time period.

The variation in industry shares among States can be seen in box plots of the earnings shares (see chart 1 and the accompanying box). Manufacturing exhibited the greatest range in shares of earnings, from 31.3 percent (in Indiana and Michigan) to 3.7 percent (in Hawaii). In addition, the range of the shares of the 50-percent of States around the median (indicated by the size of the box) was relatively large-from 13.8 percent to 21.6 percent, a difference of 7.8 percentage points, or 45 percent of the median share. For services, the range of shares was smallerfrom 40.7 percent (in Nevada) to 18.9 percent (in Wyoming). Shares of half of the States ranged from 23.2 percent to 29.3 percent, a range equal to 23 percent of the median share. For government, the range was slightly larger than that for services but smaller than that for manufacturing. The highest share was 30 percent (in Alaska), and the lowest share was 11 percent (in Connecticut). Shares of half of the States ranged from 13.3 percent to 17.9 percent, or 30 percent of the median share.

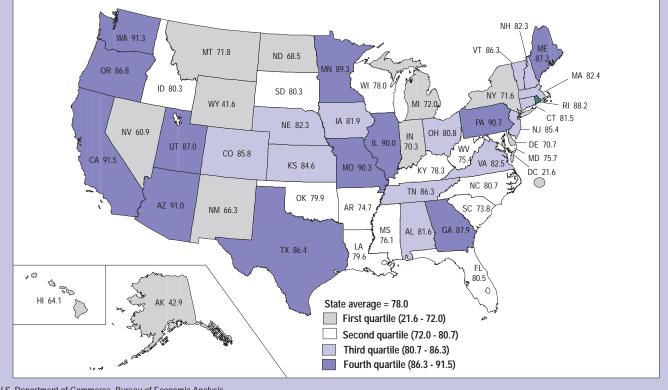
In order to quantify the differences in industry compositions, similarity indexes were calculated using the following formula:

$$SI_{s} = [1 - (\sum_{i=1}^{n} |S_{i,s} - S_{i,n}|)] \times 100,$$

where s_{I_s} is the similarity index for State s; $s_{i,s}$ is industry i's share of earnings in State s; $s_{i,n}$ is industry i's share of total U.S. earnings; and n is the number of industries.⁹ The larger the value of the index, the more similar is the State's industrial composition to that of the United States; an index value of 100 would indicate that the State's industrial composition is identical to that of the United States.

The State similarity indexes for 1998, which are presented in chart 2, were calculated using





Similarity Index, by State, 1998

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^{9.} This index is based on an index used in Sukkoo Kim, "Expansion of Markets and the Geographic Distribution of Economic Activities: The Trends in U.S. Manufacturing Structure, 1860–1987," *The Quarterly Journal of Economics* 110 (November 1995): 881–908, and in Paul Krugman, *Geography and Trade* (Cambridge, MA: MIT Press, 1991).

annual State personal income data on earnings by place of work for the 11 Standard Industrial Classification (SIC) one-digit industries. The indexes range from 41.6 in Wyoming to 91.5 in California. The States with industrial compositions that were most similar to that of the United States are California, Washington, Arizona, Pennsylvania, and Missouri. The States with industrial compositions that were least similar to that of the United States are five western States—Wyoming, Alaska, Nevada, Hawaii, and New Mexico.

Sorting the shares of earnings by the similarity index for 1998 reveals that the six States with the lowest similarity indexes all have relatively small populations and below-average shares of manufacturing earnings (table 2). In all of these States except Nevada, government accounted for a larger share of earnings than in the United States. Other industries that accounted for a much larger share of State earnings than of U.S. earnings were mining in New Mexico, Wyoming, and Alaska and construction and services in Nevada.

Trends in State industrial composition

To examine trends in State industrial composition, similarity indexes were also calculated beginning with 1958 using annual State personal income data on earnings by place of work for the

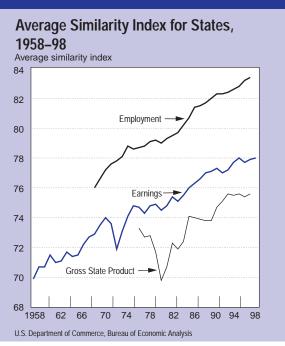
Table 2.—Difference betweer	State and U.S.	Industry Shares	of Earnings, 1998
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[Percentage points]

	1998 similarity index	Farms	Agri- cultural services, forestry, and fishing	Mining	Con- struction	Manu- facturing	Trans- portation and public utilities	Whole- sale trade	Retail trade	Finance, insur- ance, and real estate	Services	Govern- ment	Population
California Washington Arizona Pennsylvania Pennsylvania Minsosuri Ulinois Minnesota Rhode Island Georgia Maine Utah Oregon Texas Tennessee Vermont Colorado New Jersey Kansas Virginia Massachusetts Nebraska Nebraska Nebraska Nebraska Nebraska Nebraska Connecticut Ohio North Carolina Florida Idaho South Dakota Oklahoma Louisiana Kentucky Wisconsin Mississippi Maryland West Virginia Arkansas South Carolina Michigan Montana New York Delaware Indiana New Mexico Hawaii Nevada Alaska Wyoming District of Columbia	915 91.0 91.0 90.7 90.0 89.3 87.9 87.9 87.2 87.0 86.4 86.3 85.4 86.4 86.3 85.4 85.4 82.5 82.4 82.3 81.9 81.5 81.5 81.5 81.5 81.5 81.5 81.5 81.5	$\begin{array}{c} 0.4\\ .3\\ .1\\4\\5\\4\\ 0\\6\\ .7\\3\\1\\ .2\\1\\6\\ 9\\ .2\\7\\ 1.9\\5\\7\\ 4.7\\6\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 3.5\\ 1.0\\3\\ 1.0\\3\\ 1.0\\3\\ 1.0\\3\\ 1.0\\3\\ 1.0\\3\\ 1.0\\3\\ 1.0\\5\\7\\ 0\\5\\7\\8\\8\\8\\8\\2\\8\\8\\2\\8\\2\\8\\2\\8\\2\\8\\2\\8\\2\\8\\2\\8\\2\\8\\2\\8\\2\\8\\2\\2\\8\\2\\2\\8\\2\\2\\2\\2\\2\\2\\2\\2$	$\begin{array}{c} 0.4\\ 3.3\\ -22\\ -22\\ -2\\ -2\\ 0\\ -2\\ -2\\ 0\\ -2\\ -2\\ 0\\ -2\\ -2\\ 0\\ -2\\ -2\\ 0\\ -3\\ 0\\ -2\\ -2\\ -2\\ -2\\ -2\\ -2\\ -2\\ -2\\ -2\\ -2$	0.67 -0.266.64.86.69.4.8.46.69.8.1.4.87.8.5777.1.1.84.4.47 -0.864.8.7.5.4.8.4.6.9.4.8.4.6.9.4.8.4.6.9.4.8.4.6.9.4.8.4.4.4.7 -0.864.4.8.7.5.4.8.9.5.1.4.8.7.8.4.4.4.7 -1.1.8.4.4.4.7.0.7.5.4.8.9.5.1.1.4.8.7.9.4.4.4.7.1.4.8.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	-0.5 5.6 -2.2 -7 -2 -9 0 9 2.2 1.5 5.5 -1.4 2.0 -1.5 3.2 -1.0 2.6 5.5 -2 2.6 -1.2 2.6 -1.2 2.6 -1.2 -1.0 2.6 -1.2 -1.5 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2	$\begin{array}{c} -1.7\\ -1.0\\ -3.5\\ 3.00\\ 1.6\\ 1.7\\ 3.4\\ .9\\ -1.5\\ -3.1\\ 1.8\\ -3.6\\ -2.2\\ 1.4\\ -4.7\\ -6.6\\ -3.4\\ -5.1\\ -3.4\\ -5.1\\ -3.4\\ -5.1\\ -3.4\\ -4.0\\ -3.4\\ -5.1\\ -3.4\\ -4.0\\ -4.0\\ $	-0.6 2	-0.3 1.65.85.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4	$\begin{array}{c} -0.2\\ .2\\ 1.7\\ .1\\ .4\\ -1.1\\ .2\\ .1\\ .29\\ 1.6\\ 1.3\\ .3\\ .5\\ -1.3\\ .3\\ .5\\ -1.3\\ .3\\ .5\\ .3\\ .5\\ 2.3\\ 1.3\\ .5\\ .3\\ .5\\ 2.3\\ 1.3\\ .5\\ .3\\ .5\\ 2.3\\ 1.3\\ .5\\ .3\\ .5\\ 2.3\\ 1.3\\ .5\\ .3\\ .5\\ 2.3\\ 1.3\\ .5\\ .3\\ .5\\ 2.3\\ 1.3\\ .5\\ .3\\ .5\\ 2.3\\ 1.1\\ -1.1\\ .3\\ 2.0\\7\\ .6\\ .9\\ 2.3\\ 2.0\\7\\ .6\\ .6\\ .6\\ .6\\ .6\\ .6\\ .6\\ .6\\ .6\\ .6$	$\begin{array}{c} -0.2\\ -2.5\\ 2\\9\\9\\1\\ 1.4\\1\\7\\1\\7\\2.3\\2.1\\11\\7\\2.3\\5\\7\\2.3\\5\\7\\2.3\\5\\7\\2.8\\6\\15\\7\\12\\2.1\\2$	$\begin{array}{c} 3.55\\ 1.5\\ .4\\ .4\\ .6\\ .6\\ .6\\ .6\\ .21\\ .3.4\\ .25\\1.1\\1.3\\3.4\\2.4\\1.3\\3.4\\2.4\\1.3\\2.4\\1.3\\2.4\\ $	-0.4 1.3 -2.3 9.5 -2.2 1.4 1.6 -3.4 -1.1 -1.9 -3.4 -1.1 -1.9 -3.4 -1.1 -1.3 -3.4 -1.1 -3.3 -1.1 -3.3 -1.1 -3.3 -1.1 -3.4 -1.1 -3.3 -1.1 -3.4 -1.1 -3.4 -1.1 -3.3 -1.1 -3.3 -1.1 -3.4 -1.1 -3.3 -2.1 -3.4 -1.1 -3.3 -1.1 -3.4 -1.1 -3.3 -1.1 -3.4 -1.1 -3.3 -1.1 -3.4 -1.1 -3.3 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -3.4 -1.1 -1.4 -1.4 -1.4 -1.4 -1.4 -1.4 -1	32,682,79 5,687,83 4,667,27 12,002,32 5,437,56 12,009,77 4,726,41 987,70 7,636,52 1,247,55 2,100,56 3,927,12,38 5,432,67 3,968,96 8,095,54 2,638,66 6,789,22 6,144,40 1,660,77 1,185,82 2,861,02 4,351,03 3,272,56 11,237,75 7,545,82 14,209,23 1,230,92 730,78 3,339,47 4,362,75 3,934,31 5,222,12 14,908,23 1,230,92 730,78 3,339,47 4,362,75 3,934,31 5,222,12 14,908,23 1,230,92 730,78 3,339,47 4,362,75 3,934,31 5,222,12 14,908,23 1,230,92 730,78 3,339,47 4,362,75 3,934,31 5,222,12 1,811,68 2,538,20 3,839,57 9,820,23 1,8159,17 7,44,06 5,907,61 637,800 1,733,53 1,190,47 1,743,77 6,15,20 1,743,77 6,15,20 1,743,77 6,15,20 1,743,77 6,15,20 1,743,77 6,15,20 1,743,77 1,743,77 6,15,20 1,743,77 1,

NOTE .- Industry shares are sorted based on the 1998 similarity index.



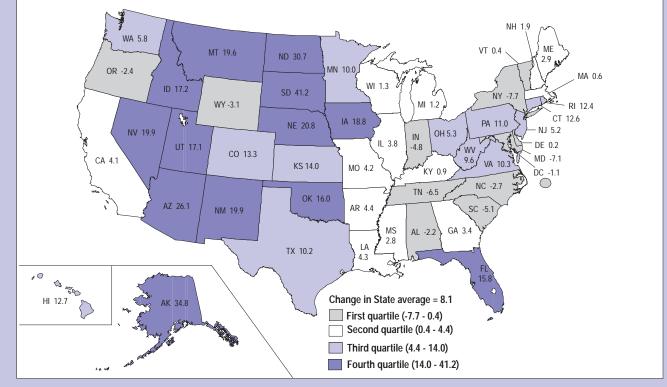


¹¹ sic one-digit industries.¹⁰ The average similarity index for State earnings rose steadily from 69.9 in 1958 to 78.0 in 1998 (chart 3). The upward trend was interrupted in the early 1970's, when farm earnings increased substantially in several States. In 1971–73, the farm share of U.S. earnings increased 1.4 percentage points, but its share of State earnings increased 23 percentage points in North Dakota, 15 percentage points in South Dakota, and 11 percentage points in Iowa.

The index that is based on employment is higher than the earnings-based index because of the variation in industry earnings per job among States, but it exhibits the same trend. Unlike the earnings index, the employment index does not fall in the early 1970's, because farm employment did not increase substantially.

CHART 4

Change in State Similarity Indexes, 1958-98



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

^{10.} The year 1958 was chosen as the beginning year for this analysis for consistency with the length of time series frequently studied in the literature on the convergence in per capita incomes. The results are not very sensitive to this particular choice.

The average annual similarity index was also calculated from data for sic two-digit industries. This index was lower, but the trend was the same. Data for 1958–97 are from Bureau of Economic Analysis (BEA), *State Personal Income*, 1929–97 [CD-ROM] (Washington, DC: BEA, 1998).

The similarity index that is based on gross state product is lower than the earnings index because of variation in capital-type income among States. The trends in both indexes are similar, but there is much more variation in the gross state product index because, over the business cycle, capitaltype income varies much more than earnings.

These results are consistent with earlier studies. For example, Kim uses the Heckscher-Ohlin theory as a framework for his analysis of shifts in employment among U.S. regions in 1840–1987.¹¹ He concludes that the degree of regional specialization was high in the 1800's and the early 1900's because high transportation and communication costs were significant barriers to capital and labor mobility. As transportation and communication costs declined and as factor mobility increased, regional economies gradually became more similar.

Although the industrial composition of most States converged in 1958–98, some States diverged: The similarity indexes for 41 States increased and those for 9 States decreased (chart 4). The 12 States with the largest increases were all west of the Mississippi River; South Dakota, Alaska, North Dakota, Arizona, and Nebraska had the largest increases. Of the nine States with decreases in their similarity indexes, seven were east of the Mississippi River; New York, Maryland,

Table 3.—Change in I	Industry Shares of	Earnings, 1958–98
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	Change in the similarity index	Farms	Agricultural services, forestry, and fishing	Mining	Con- struction	Manu- facturing	Transpor- tation and public utilities	Whole- sale trade	Retail trade	Finance, insurance, and real estate	Services	Govern- ment
ed States		-4.5	0.3	-0.7	-0.3	-11.3	-1.0	0.1	-2.8	4.0	15.7	0.6
South Dakota	41.2	-24.4	.6	5	.5	7.7	.5	.4	-2.5	3.7	15.2	-1.4
Alaska	34.8	2	-1.4	5.7	-6.8	-1.9	4.5	.8	2.5	1.9	14.6	-19.9
North Dakota	30.7	-26.7	.3	.3	.2	4.4	0	1.5	-3.8	2.4	16.1	5.2
Arizona	26.1	-6.4	.5	-4.1	-2.6	1.0	-1.5	1.4	-3.5	4.3	15.7	-4.7
Nebraska	20.8	-16.3	.6	4	.3	.7	7	.5	-3.6	2.5	14.6	1.7
Nevada	19.9	-3.7	.5	8	3.8	6	-2.3	1.5	-4.1	3.7	7.7	-5.7
New Mexico	19.9 19.6	-6.7 -20.4	.4 .6	-5.3 -2.3	-1.2 1.7	1.7 -2.0	-1.8 -2.0	.3 .7	2 5	1.8 2.7	12.0 16.7	9 4.6
Montana Iowa	19.0	-20.4	.0	-2.3	.8	-2.0	-2.0	.7	-3.3	3.4	11.9	4.0
Idaho	17.2	-13.9	1.1	-1.3	.0	2.9	-1.6	.9	-2.8	1.8	11.5	1.4
Utah	17.1	-3.5	.3	-5.2	.4	-1.9	-2.2	7	-1.4	3.5	15.0	-4.0
Oklahoma	16.0	-9.1	.1	-5.0	-1.0	2.5	.3	6	-2.0	1.4	14.0	7
Florida	15.8	-4.9	.2	4	-3.7	-3.5	-1.1	4	-3.6	3.4	16.1	-2.2
Kansas	14.0	-12.1	.4	-2.3	0	6	-1.2	2.7	-2.7	2.2	13.5	.2
Colorado	13.3	-5.5	.3	-1.3	7	-3.5	.6	8	-3.8	3.0	16.0	-4.2
Hawaii	12.7	-5.6	.4	0	7	-6.4	1.1	-1.6	1.4	3.7	18.8	-11.0
Connecticut	12.6 12.4	-1.3 5	.1 .3	0	-2.4 4	-21.9 -16.8	.2	2.0 8	-3.6 -2.0	7.6 3.6	17.5 20.8	1.7 -3.7
Rhode Island Pennsylvania	12.4	5	.3	-1.4	4	-10.0	-1.5	0	-2.0	3.0	18.3	2.3
Virginia	10.3	-5.1		9	1	-6.8	-1.0	1.2	-2.8	3.3	18.6	-6.3
Texas	10.2	-6.9	.3	-2.8	2	-2.0	.8	0	-3.8	2.6	14.3	-2.3
Minnesota	10.0	-10.7	.1	-1.4	5	-1.4	-2.6	.2	-3.1	3.5	14.9	1.0
West Virginia	9.6	-2.8	.2	-9.7	1.2	-11.7	-2.4	.6	7	1.4	15.6	8.4
Washington	5.8	-3.6	.1	0	6	-9.0	3	7	-3.4	1.4	18.7	-2.7
Ohio	5.3	-2.1	.2	3	6	-14.7	-1.7	1.4	-1.9	2.9	14.1	2.9
New Jersey	5.2	-1.3	.1	1	-1.6	-23.4	.8	3.3	-3.7	4.9	18.1	2.9
Arkansas	4.4	-11.5 -4.2	.3 –.1	-1.4 -2.1	.1 0	4.4 -4.0	2	.3 –.6	-2.3 -3.0	1.2	9.5 13.9	6 1.3
Louisiana Missouri	4.3	-4.2	1	-2.1	.8	-4.0	-2.2	0	-3.0 -3.0	2.8	14.5	2.5
California	4.1	-3.2	.5	4	-1.4	-9.2	9	0	-3.8	3.7	17.2	-2.5
Illinois	3.8	-3.8	.3	7	-1.0	-13.9	-1.2	3	-3.4	5.0	16.4	2.4
Georgia	3.4	-5.9	1	1	.4	-7.9	2.0	1.0	-2.7	3.0	13.6	-3.3
Maine	2.9	-7.2	4	1	1.1	-11.4	-1.2	3	.8	3.4	17.0	-1.6
Mississippi	2.8	-11.9	0	8	.9	1.0	.1	.2	-2.7	1.4	9.7	2.1
New Hampshire	1.9	-2.6	.2	0	5	-14.4	.2	3.1	-1.2	2.8	14.6	-2.1
Wisconsin	1.3	-7.0	.3	1	.4 .2	-9.5	7	.8 1.4	-3.8 -2.9	3.1 1.8	13.4	3.2
Michigan Kentucky	1.2 .9	-2.4 -8.2	.3 .4	4 -2.9	0.2	-12.0 6	-1.0	.9	-2.9 -2.5	1.0	13.0 11.3	1.8 .8
Massachusetts	.6	7		-2.5	8	-18.2	7	.3	-3.3	4.7	20.8	-2.1
Vermont	.4	-9.4	.2	8	.4	-6.3	-1.5	.8	-2.1	1.5	15.7	1.3
Delaware	.2	-3.4	1	0	2	-16.9	-2.0	.9	-2.0	10.7	12.6	.2
District of Columbia	-1.1	0	.4	0	-2.9	-1.8	-3.7	-4.0	-6.5	1.8	25.5	-8.8
Alabama	-2.2	-6.2	.1	7	.9	-5.0	3	.3	-1.6	2.2	11.6	-1.2
Oregon	-2.4	-5.6	.2	-0.2	.7	-6.2	-2.8	.9	-2.8	2.3	12.9	.5
North Carolina	-2.7	-9.7	.1	0	1.8	-6.6	.5	.1	-1.8	3.2	11.3	.9
Wyoming	-3.1 -4.8	-13.9 -5.4	.6 .3	5.7 4	7 .7	-1.9 -9.2	-2.7 -1.2	–.1 .9	-1.9 -2.3	1.9 2.0	7.9 12.2	5.1 2.3
Indiana South Carolina	-4.0	-5.4	.3	4 1	1.4	-9.2	-1.2	.9 1.0	-2.3	2.0	11.7	-2.0
Tennessee	-6.5	-7.3	.2	4	.9	-7.3	.7	7	-1.5	2.4	14.2	-1.2
Maryland	-7.1	-2.1	.1	2	.1	-18.3	-2.1	.9	-2.6	4.1	21.0	8
New York	-7.7	-1.1	.1	1	-1.5	-17.8	-2.8	-2.6	-4.0	12.3	15.2	2.3

[Percentage points]

Note.-Industry shares are sorted based on the change in the similarity index.

^{11.} Sukkoo Kim, "Regions, Resources, and Economic Geography: Sources of U.S. Regional Comparative Advantage, 1840–1987," *Journal of Regional Science and Urban Economics* 29 (1999): 1–32; see also Sukkoo Kim, "Expansion of Markets," 881–908.

Tennessee, South Carolina, and Indiana had the largest decreases.

A State's industrial composition will converge in 1958–98 if the earnings share of an industry with a below-U.S.-average earnings share in 1958 increases relative to the U.S. average, or if the earnings share of an industry with an above-U.S.average share in 1958 decreases relative to the U.S. average share. The strong convergence exhibited by the States with the largest increases in the index was primarily the result of increases in low manufacturing shares of earnings (in South Dakota, North Dakota, Arizona, and Nebraska), decreases in high farm shares (in South Dakota, North Dakota, and Nebraska), and decreases in high government shares (in Alaska and Arizona) (table 3).

Conversely, a State's industrial composition will diverge in 1958–98 if the earnings share of an industry with a below-U.S.-average earnings share in 1958 decreases relative to the U.S. average share, or if the earnings share of an industry with an above-U.S.-average share in 1958 increases relative to the U.S. average share. The largest decreases in the State indexes were primarily the result of changes in the shares of manufacturing (in Indiana, South Carolina, Tennessee, Maryland, and New York), of services (in Indiana, Maryland, South Carolina, and Tennessee), and of finance, insurance, and real estate (in Indiana, South Carolina, Tennessee, and New York).

National and State growth components of trends

The convergence in State industrial compositions in 1958-98 that was indicated by the rise in the similarity index can be decomposed into First, the U.S. industrial two components. composition of earnings has shifted from goodsproducing industries to services-producing industries as a result of economy-wide changes in production technology, trade relationships, and consumption patterns. The share of U.S. earnings accounted for by services increased substantially in 1958–98, while the shares accounted for by farms and manufacturing declined (chart 5). Because services-producing industries tend to be more evenly distributed across the Nation than goods-producing industries, this shift contributed to the increase in overall similarity.

Second, the geographic distribution of U.S. industry earnings across States has become more evenly distributed. All else being equal, if a State has above-average growth in an industry for which the share of State earnings is below the U.S. average and if the industry growth rate exceeds the growth rate of total State earnings, the similarity index for that State will increase. Similarly, if a State has below-average growth in an industry for which the share of State earnings is above the U.S. average and if the growth rate of total State earnings exceeds the industry growth rate, the similarity index for the State will increase. Thus, changes in the similarity index for a State depend on the initial industry shares of earnings, on the industry growth rates, and on the growth rate of total State earnings.

In order to determine the importance of these two factors, the change in the similarity index for each State was decomposed into a national growth component and a State growth component (table 4). The national growth component shows the contribution of economy-wide changes in the industrial composition of earnings to changes in the similarity index from 1958 to 1998.¹² If these had been the only changes in the economy, the similarity indexes for all States except Maine and South Carolina would have increased, and the average similarity index would have increased 7.4 points to 77.3 in 1998.

^{12.} The national growth component is defined as the difference between the similarity index that is calculated on the assumption that State industries grow at the national rate of growth for the industry and the similarity index for 1958. It is equivalent to the index calculated on the sum of the national share and industrial-mix components in a shift and share analysis. For more information, see "Projections of Employment Growth in Georgia: A Shift and Share Analysis," in *On the Use of Input-Output Models for Regional Planning*, ed. William A. Schaffer (Leiden: Martinus Nijhoff, 1976).



The State growth component shows the contribution of differences in State industry growth rates to changes in the similarity indexes from 1958 to 1998.¹³ The average State growth component was 0.7 points, indicating that shifts in industry earnings among States also contributed to the overall convergence in industrial composition but that the effect was small. The State growth component was positive for 28 States and

negative for 22 States. In some States, the effect of State industry growth was relatively large. For the States with the largest increases in their similarity indexes in 1958–98, both the national growth rates and the differences in State industrial growth rates contributed substantially to convergence. For the States with the largest decreases in their similarity indexes, the national growth rates had little effect, but the differences in State industrial growth rates contributed substantially to divergence.

^{13.} The State growth component is analogous to the region-share component in a shift and share analysis. It was calculated by subtracting the national growth component from the actual change in the similarity index.

				-					1		
	Similari	ty index	Change in	Compon change			Similari	ty index	Change in	Compon change	
			the	similarity					the	similarity	
	1958	1998	index	National growth	State growth		1958	1998	index	National growth	State growth
State average	69.9	78.0	8.1	7.4	0.7	New Jersey	80.2	85.4	5.2	7.7	-2.5
South Dakota	39.1	80.3	41.2	26.1	15.1	Arkansas Louisiana	70.3 75.3	74.7 79.6	4.4 4.3	12.6 7.2	-8.2 -2.9
Alaska	8.1	42.9	34.8	4.8	30.0	Missouri	86.1	90.3	4.3	3.6	-2.7
North Dakota	37.8	68.5	30.7	23.8	6.9	California	87.4	91.5	4.1	2.1	2.0
Arizona	64.9	91.0	26.1	10.8	15.3	Illinois	86.2	90.0	3.8	2.5	1.3
Nebraska	61.5	82.3	20.8	16.3	4.5	Georgia	84.5	87.9	3.4	3.0	.4
Nevada	41.0	60.9	19.9	6.5	13.4	Maine	84.3	87.2	2.9	-1.0	3.9
New Mexico	46.4	66.3	19.9	11.9	8.0	Mississippi	73.3	76.1	2.8	7.8	-5.0
Montana	52.2	71.8	19.6	18.5	1.1	New Hampshire	80.4	82.3	1.9	5.7	-3.8
lowa	63.1	81.9	18.8	20.2	-1.4	Wisconsin	76.7	78.0	1.3	2.8	-1.5
Idaho	63.1	80.3	17.2	14.1	3.1	Michigan	70.8	72.0	1.2	8.1	-6.9
Utah	69.9	87.0	17.1	7.0	10.1	Kentucky	77.4	78.3	.9	6.9	-6.0
Oklahoma	63.9	79.9	16.0	10.9	5.1	Massachusetts	81.8	82.4	.6	6.2	-5.6
Florida	64.7	80.5	15.8	10.6	5.2	Vermont	85.9	86.3	.4	6.3	-5.9
Kansas	70.6	84.6	14.0	8.9	5.1	Delaware	70.5	70.7	.2	6.1	-5.9
Colorado	72.5	85.8	13.3	10.0	3.3	District of Columbia	22.7	21.6	-1.1	18.4	-19.5
Hawaii	51.4	64.1	12.7	6.1	6.6	Alabama	83.8	81.6	-2.2	2.8	-5.0
Connecticut	68.9	81.5	12.6	7.9	4.7	Oregon	89.2	86.8	-2.4	2.9	-5.3
Rhode Island	75.8	88.2	12.4	4.9	7.5	North Carolina	83.4	80.7	-2.7	4.5	-7.2
Pennsylvania	79.7	90.7	11.0	5.4	5.6	Wyoming	44.7	41.6	-3.1	15.0	-18.1
Virginia	72.2 76.2	82.5 86.4	10.3 10.2	./ 7.2	9.6 3.0	Indiana	75.1	70.3	-4.8	2.0	-6.8
Texas	76.2	80.4 89.3	10.2	7.2 6.5	3.0 3.5	South Carolina	78.9	73.8	-5.1	-1.2	-3.9
Minnesota	79.3 65.8	89.3 75.4	9.6	0.5 8.5	3.5 1.1	Tennessee	92.8	86.3	-6.5	1.4	-7.9
West Virginia	65.8 85.5	75.4 91.3	9.0 5.8	8.5 .3	5.5	Maryland	82.8	75.7	-7.1	.9	-8.0
Washington	75.5	80.8	5.0 5.3	 6.0	5.5 7	New York	79.3	71.6	-7.7	1.4	-9.1
Ohio	75.5	0.00	5.5	0.0	7						

Table 4.—Similarity Index and Components of Change, 1958–98

NOTE.—Similarity indexes and components are sorted based on the change in the index.

National Data

A. Selected NIPA Tables

The tables in this section include the most recent estimates of gross domestic product and its components; these estimates were released on January 28, 2000 and include the "advance" estimates for the fourth quarter of 1999.

The selected set of NIPA tables shown in this section presents quarterly estimates, which are updated monthly; in most of these tables, annual estimates are also shown.

The news release on gross domestic product (GDP) is available within minutes of the time of release, and the "Selected NIPA Tables" are available later that day, on STAT-USA'S Web site <www.stat-usa.gov>; for information, call STAT-USA on 202–482–1986. The GDP news release is also available within minutes of the time of release, and the "Selected NIPA Tables" a day or two later, on BEA'S Web site <www.bea.doc.gov>.

The "Selected NIPA Tables" are also available on printouts or diskettes from BEA. To order NIPA subscription products, call the BEA Order Desk at 1-800-704-0415 (outside the United States, 202-606-9666).

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S. Summary Tables_

Table S.1.–Summary of Percent Change From Preceding Period in Real Gross Domestic Product and Related Measures

[Percent]

Table S.2.–Summary of	Contributions to Percent	Change in Real Gross
	Domestic Product	

		Perce	entj									
			S	easonall	y adjuste	adjusted at annual rates						
	1998	1999	19	98		19	99					
			Ш	IV	I	II	III	IV				
Gross domestic product	4.3	4.0	3.8	5.9	3.7	1.9	5.7	5.8				
Personal consumption expenditures Durable goods Nondurable goods Services	4.9 11.3 4.0 4.0	5.3 11.4 5.3 4.0	3.9 4.1 2.4 4.7	4.6 20.4 5.0 1.5	6.5 12.4 8.9 4.2	5.1 9.1 3.3 5.2	4.9 7.7 3.6 5.0	5.3 11.8 6.1 3.5				
Gross private domestic investment Fixed investment Nonresidential Structures Equipment and software Residential Change in private inventories	11.7 11.8 12.7 4.1 15.8 9.2	5.7 8.0 8.3 –2.7 12.0 7.2	10.4 2.0 0 –6.6 2.4 8.0	11.5 13.8 15.3 5.8 18.6 9.8	3.6 9.1 7.8 –5.8 12.5 12.9	-2.1 6.6 7.0 -5.3 11.2 5.5	13.6 6.8 10.9 –3.8 15.7 –3.8	8.5 1.5 2.5 -5.3 4.9 -1.2				
Net exports of goods and services Goods Services Imports Goods Services	2.2 2.1 2.5 11.6 11.7 10.8	3.5 3.8 2.9 11.8 12.7 7.6	-1.7 1.6 -8.8 5.2 4.9 6.4	16.1 19.4 8.6 10.8 12.8 1.6	5.5 9.3 4.1 12.5 12.6 11.9	4.0 4.3 3.2 14.4 15.5 8.9	11.5 16.9 0 14.9 17.3 3.6	6.9 7.6 5.1 10.6 9.9 14.3				
Government consumption expenditures and gross investment Federal National defense Nondefense State and local	1.7 9 -1.9 1.0 3.2	3.7 2.9 1.9 4.7 4.1	1.3 -2.3 7.0 -17.4 3.3	2.9 3.9 –2.9 17.8 2.3	5.1 5 -4.0 6.1 8.2	1.3 2.1 –2.6 10.9 .9	4.5 4.1 11.2 –7.1 4.8	8.4 16.0 18.9 11.0 4.4				
Addenda: Final sales of domestic product Gross domestic purchases Final sales to domestic purchasers	4.3 5.4 5.4	4.4 5.1 5.4	2.4 4.6 3.2	6.2 5.5 5.8	4.6 5.8 6.7	3.4 3.2 4.7	4.5 6.3 5.2	4.6 6.3 5.2				
Gross national product Disposable personal income	4.1 4.1	4.0	2.6 4.5	6.3 4.8	3.8 4.1	1.9 3.2	5.6 2.9	4.6				

			Se	easonally	/ adjuste	ed at anr	ual rate	S
	1998	1999	199	98		199	99	
			Ш	IV	I	Ш	Ш	IV
Percent change at annual rate:								
Gross domestic product	4.3	4.0	3.8	5.9	3.7	1.9	5.7	5.8
Percentage points at annual rates:								
Personal consumption expenditures Durable goods Nondurable goods Services	3.24 .86 .79 1.59	3.52 .89 1.04 1.59	2.64 .33 .49 1.83	3.13 1.51 .98 .64	4.27 .96 1.68 1.63	3.36 .71 .64 2.01	3.33 .62 .73 1.97	3.59 .93 1.22 1.43
Gross private domestic investment Fixed investment Nonresidential Structures Equipment and software	1.93 1.86 1.49 .13 1.37	.99 1.32 1.02 –.08 1.10	1.74 .34 .01 –.21 .22	1.94 2.20 1.79 .18 1.61	.67 1.48 .94 –.18 1.12	36 1.10 .86 16 1.02	2.25 1.16 1.33 –.11 1.44	1.46 .28 .33 –.15 .48
Residential Change in private inventories	.37 .07	.31 –.33	.33 1.40	.41 –.26	.53 –.80	.24 –1.46	17 1.09	05 1.18
Net exports of goods and services Exports Goods Services Imports Goods Services	-1.18 .25 .17 .08 -1.43 -1.21 22	-1.11 .38 .29 .09 -1.49 -1.33 16	82 18 .12 30 65 51 13	.33 1.65 1.38 .27 -1.32 -1.29 03	-2.13 61 74 .13 -1.52 -1.28 24	-1.35 .42 .32 .10 -1.77 -1.59 19	72 1.19 1.19 0 -1.91 -1.83 08	- .70 .74 .57 .17 -1.44 -1.13 30
Government consumption expenditures and gross investment Federal National defense Nondefense State and local	.31 06 08 .02 .37	.64 .18 .08 .10 .47	.23 14 .27 42 .37	.51 .24 –.12 .36 .28	.87 03 16 .13 .90	.23 .13 –.10 .23 .10	.81 .26 .42 –.16 .55	1.45 .94 .70 .24 .52

NOTE.-More detailed contributions to percent change in real gross domestic product are shown in table 8.2. Contributions to percent change in major components of real gross domestic product are shown in tables 8.3 through 8.6.

NOTE.-Percent changes from preceding period in the current-dollar and price measures for these series are shown in table 8.1.

1. National Product and Income_

Table 1.1.–Gross Domestic Product

[Billions of dollars]

	•							
			S	easonall	y adjuste	ed at an	nual rate	S
	1998	1999	19	98		19	99	
			Ш	IV	I	Ш	Ш	IV
Gross domestic product	8,759.9	9,248.4	8,797.9	8,947.6	9,072.7	9,146.2	9,297.8	9,477.1
Personal consumption expenditures	5,848.6	6,254.9	5,889.6	5,973.7	6,090.8	6,200.8	6,303.7	6,424.6
Durable goods Nondurable goods Services		1,841.1	696.9 1,716.6 3,476.1	1,742.9	1,787.8	1,824.8	1,853.9	1,897.7
Gross private domestic investment	1,531.2	1,621.6	1,535.3	1,580.3	1,594.3	1,585.4	1,635.0	1,671.8
Fixed investment Nonresidential Structures Equipment and software Residential Change in private inventories		1,166.5 272.6 893.9	815.4 374.5	1,121.4 278.0 843.4	1,139.9 274.7 865.2	1,155.4 272.5 882.9 412.4	1,181.6 272.1 909.5 412.7	1,189.1 271.1 918.1 415.0
Net exports of goods and services	-149.6	-256.8	-165.7	-161.2	-201.6	-245.8	-278.2	-301.8
Exports		697.5 298.8 1,253.1 1,048.9	667.2 281.9 1,114.8 927.2	693.3 288.6 1,143.1 952.6	674.3 292.6 1,168.5 974.3	680.5 297.7 1,224.0 1,022.3	299.7 1,286.6 1,079.3	726.5 305.0 1,333.3 1,119.9
Government consumption expenditures and gross investment	1,529.7	1,628.7	1,538.7	1,554.8	1,589.1	1,605.9	1,637.2	1,682.6
Federal National defense Nondefense State and local	538.7 348.6 190.1 991.0		354.7 185.0		355.8 201.6	354.3	365.4 204.4	383.4 211.2

NOTE.-Percent changes from preceding period for selected items in this table are shown in table 8.1.

Table 1.2.-Real Gross Domestic Product

[Billions of chained (1996) dollars]

			6	oaconall	v odiuct	v adjusted at annual rates					
				edsonan	y dujusit	50 di am	Iudi iaic	s			
	1998	1999	19	98		19	99				
			III	IV	I	II	Ш	IV			
Gross domestic product	8,516.3	8,861.0	8,536.0	8,659.2	8,737.9	8,778.6	8,900.6	9,026.9			
Personal consumption expenditures	5,698.6	5,998.7	5,730.7	5,795.8	5,888.4	5,961.8	6,033.3	6,111.2			
Durable goods Nondurable goods Services		1,774.6	731.2 1,692.0 3,309.6	1,712.6	1,749.5	1,763.7	1,779.3	1,805.9			
Gross private domestic investment	1,547.4	1,636.2	1,551.1	1,593.9	1,608.2	1,599.8	1,651.6	1,685.4			
Fixed investment Nonresidential Structures Equipment and software Residential Change in private inventories		1,215.4 247.3 975.5 375.4	870.6 354.2	1,160.8 255.7 908.5 362.6	1,182.7 251.9 935.7 373.7	1,202.9 248.5 960.9	1,234.3 246.1 996.6 375.1	1,241.9 242.8 1,008.7 374.0			
Net exports of goods and services	-215.1	-324.5	-237.9	-232.3	-284.5	-319.0	-338.2	-356.1			
Exports	722.8 284.4 1,222.2	292.6 1,367.0 1,162.7	712.0 281.1 1,231.0 1,037.9	744.2 287.0 1,263.1 1,069.7	726.4 289.9 1,300.9 1,102.0	734.1 292.2 1,345.4 1,142.5	292.2 1,393.0 1,188.9	777.4 295.9 1,428.6 1,217.4			
Government consumption expenditures and gross investment	1,480.3	1,534.6	1,485.3	1,495.9	1,514.6	1,519.5	1,536.5	1,567.7			
Federal National defense Nondefense State and local	526.1 341.7 184.4 953.9	348.1 193.1	347.5 179.6	344.9 187.1	341.4 189.9	339.2 194.9	348.3 191.3	363.7			
Residual	.9	5.2	2.9	-2.2	2.6	8.1	6.4	3.9			

NOTE.-Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines. Percent changes from preceding period for selected items in this table are shown in table 8.1; contributions to the percent change in real gross domestic product are shown in table 8.2. Chain-type quantity indexes for the series in this table are shown in table 8.7.

Table 1.3.-Gross Domestic Product by Major Type of Product [Billions of dollars]

			S	easonall	y adjuste	ed at an	nual rate	S
	1998	1999	19	98		19	99	
				IV	I	Ш	Ш	IV
Gross domestic product	8,759.9	9,248.4	8,797.9	8,947.6	9,072.7	9,146.2	9,297.8	9,477.1
Final sales of domestic								
product	8,688.7	9,204.2	8,724.2	8,876.2	9,021.6	9,128.6	9,257.0	9,409.5
Change in private inventories	71.2	44.3	73.7	71.4	51.0	17.6	40.8	67.6
Goods	3,310.3	3,478.8	3,305.6	3,389.8	3,416.6	3,424.2	3,494.0	3,580.4
Final sales Change in private	3,239.1	3,434.6	3,231.9	3,318.4	3,365.6	3,406.6	3,453.2	3,512.8
inventories	71.2	44.3	73.7	71.4	51.0	17.6	40.8	67.6
Durable goods Final sales Change in private			1,559.7 1,519.9					
inventories	38.9	25.4	39.8	38.6	24.1	6.3	23.0	48.2
Nondurable goods Final sales Change in private			1,745.9 1,712.1					
inventories	32.2	18.9	33.9	32.8	27.0	11.4	17.8	19.4
Services	-		4,700.4		-	4.885.5	4.963.7	5.051.6
Structures	785.1							
Addenda: Motor vehicle output Gross domestic product less	313.3	342.9	306.1	345.3	325.0	330.9	355.0	360.5
motor vehicle output	8,446.7	8,905.6	8,491.7	8,602.2	8,747.6	8,815.3	8,942.8	9,116.6

NOTE.-Percent changes from preceding period for gross domestic product and for final sales of domestic product are shown in table 8.1

Table 1.5.-Relation of Gross Domestic Product, Gross Domestic Purchases, and Final Sales to Domestic Purchasers

[Billions of dollars]

Gross domestic product	8,759.9	9,248.4	8,797.9	8,947.6	9,072.7	9,146.2	9,297.8	9,477.1
Less: Exports of goods and services Plus: Imports of goods and	966.3	996.3	949.1	981.8	966.9	978.2	1,008.5	1,031.5
services	1,115.9	1,253.1	1,114.8	1,143.1	1,168.5	1,224.0	1,286.6	1,333.3
Equals: Gross domestic purchases	8,909.5	9,505.3	8,963.6	9,108.8	9,274.2	9,392.0	9,575.9	9,778.9
Less: Change in private inventories	71.2	44.3	73.7	71.4	51.0	17.6	40.8	67.6
Equals: Final sales to domestic purchasers	8,838.3	9,461.0	8,889.9	9,037.4	9,223.2	9,374.4	9,535.1	9,711.3

NOTE.-Percent changes from preceding period for selected items in this table are shown in table 8.1.

Table 1.7.-Gross Domestic Product by Sector

[Billions of dollars]

Gross domestic product	8,759.9	9,248.4	8,797.9	8,947.6	9,072.7	9,146.2	9,297.8	9,477.1
Business 1	7,402.0	7,821.5	7,432.1	7,568.0	7,669.1	7,729.4	7,862.6	8,025.1
Nonfarm ² Nonfarm less housing Housing Farm	7,321.9 6,621.4 700.4 80.2	6,994.2 745.0		6,757.5 718.0	6,850.3 730.2	6,906.2 739.1	7,034.3 749.7	7,185.9 761.2
Households and institutions	385.6	408.2	388.4	393.4	399.7	404.9	411.0	417.1
Private households Nonprofit institutions	14.0 371.6							
General government ³	972.3	1,018.7	977.4	986.2	1,003.9	1,012.0	1,024.2	1,034.9
Federal State and local	296.9 675.4							

Equals gross domestic product less gross product of households and institutions and of general government. Equals gross domestic business product less gross farm product.
 Equals compensation of general government employees plus general government consumption of fixed capital

as shown in table 3.7.

Table 1.4.-Real Gross Domestic Product by Major Type of Product

[Billions of chained (1996) dollars]

	r	r						
			S	easonall	y adjuste	ed at ani	nual rate	S
	1998	1999	19	98		19	99	
			Ш	IV	I	Ш	Ш	IV
Gross domestic product	8,516.3	8,861.0	8,536.0	8,659.2	8,737.9	8,778.6	8,900.6	9,026.9
Final sales of domestic								
product	8,441.3	8,813.7	8,459.6	8,588.3	8,685.2	8,757.9	8,855.8	8,955.9
Change in private inventories	74.3	41.9	76.1	70.7	50.1	14.0	38.0	65.4
Residual	.7	5.4	.3	.2	2.6	6.7	6.8	5.6
Goods	3,330.5	3,505.8	3,323.9	3,417.4	3,442.1	3,446.1	3,525.3	3,609.6
Final sales	3.255.1	3.459.1	3.246.9	3.346.2	3.390.0	3.427.5	3,481.3	3.537.8
Change in private	.,	.,	.,	.,		.,	.,	.,
inventories	74.3	41.9	76.1	70.7	50.1	14.0	38.0	65.4
Durable goods	1.625.0	1.741.1	1.619.1	1.686.7	1.693.5	1.699.5	1,758.1	1.813.1
Final sales							1,734.2	
Change in private	,	<i>'</i>	,	,	,	,	, -	,
inventories	39.7	26.3	40.7	39.6	25.1	6.5	23.8	49.8
Nondurable goods	1.708.1	1.769.7	1.707.1	1.734.6	1.752.0	1.750.4	1,772.9	1.803.5
Final sales	1,672.6	1,749.5	1,671.2	1,703.1	1,725.2	1,738.5	1,752.9	1,781.3
Change in private								
inventories	34.6	15.6	35.3	31.0	25.0	7.5	14.2	15.8
Services	4,449.4	4,597.1	4,471.4	4,494.6	4,529.5	4,571.0	4,620.4	4,667.6
Structures	738.9	763.7	742.5	751.7	770.2	764.7	760.9	759.0
Residual	-4.0	-5.9	-3.2	-7.7	-5.8	-3.1	-5.8	-9.1
Addenda:								
Motor vehicle output	315.7	345.4	305.7	348.6	329.0	335.7	355.8	361.1
Gross domestic product less	0 000 0	0 540 0	0 000 0	0.044.0	0 400 0	0 440 0	0 540 0	0.007.0
motor vehicle output	8,200.9	8,516.6	8,230.2	8,311.9	8,409.3	0,443.6	0,546.2	8,667.3

NOTE.-Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line following change in private inventories is the difference between gross domestic product and the sum of final sales of domestic product and of change in private inventories; the residual line following structures is the difference between gross domestic product and the sum of the detailed lines of goods, of services, and of structures.

Percent changes from preceding period for gross domestic product and for final sales of domestic product are shown in table 8.1 Chain-type quantity indexes for the series in this table are shown in table 7.17.

Table 1.6.-Relation of Real Gross Domestic Product, Real Gross Domestic Purchases, and Real Final Sales to Domestic Purchasers

[Billions of chained (1996) dollars]

								
Gross domestic product	8,516.3	8,861.0	8,536.0	8,659.2	8,737.9	8,778.6	8,900.6	9,026.9
Less: Exports of goods and services	1,007.1	1,042.5	993.0	1,030.8	1,016.4	1,026.4	1,054.8	1,072.4
Plus: Imports of goods and services	1,222.2	1,367.0	1,231.0	1,263.1	1,300.9	1,345.4	1,393.0	1,428.6
Equals: Gross domestic purchases	8,723.2	9,165.5	8,764.2	8,881.5	9,007.4	9,078.2	9,216.9	9,359.4
Less: Change in private inventories	74.3	41.9	76.1	70.7	50.1	14.0	38.0	65.4
Equals: Final sales to domestic purchasers	8,648.1	9,118.3	8,687.6	8,810.6	8,954.8	9,057.8	9,172.2	9,288.3

NOTE.-Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 Current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. Percent changes from preceding period for selected series in this table are shown in table 8.1. Chain-type quantity indexes for selected series in this table are shown in table 7.2.

Table 1.8.–Real Gross Domestic Product by Sector

[Billions of chained (1996) dollars]

Gross domestic product	8,516.3	8,861.0	8,536.0	8,659.2	8,737.9	8,778.6	8,900.6	9,026.9
Business 1	7,223.2	7,547.5	7,241.0	7,359.5	7,432.8	7,469.1	7,584.1	7,703.9
Nonfarm ²	7,121.8	7,446.1	7,139.7	7,257.1	7,331.3	7,366.3	7,485.2	7,601.6
Nonfarm less housing	6,462.2	6,766.4	6,477.6		6,659.3		6,802.2	6,913.8
Housing	660.2	680.9	662.6	665.4	672.9	677.2	684.2	689.3
Farm	100.5	99.4	100.4	101.3	100.2	101.6	95.8	99.9
Households and institutions	369.0	376.3	369.6	371.3	373.2	374.8	377.2	380.2
Private households Nonprofit institutions	13.3 355.7							
General government ³	924.8	939.0	926.1	929.6	933.3	936.2	941.3	945.4
Federal	285.8	284.8	286.1	286.1	285.5	284.5	284.5	284.7
State and local	638.9	654.1	639.9	643.4	647.7	651.5	656.7	660.6
Residual	3	9	2	9	9	-1.1	0	-1.6

Equals gross domestic product less gross product of households and institutions and of general government.
 Equals gross domestic business product less gross farm product.
 Equals compensation of general government employees plus general government consumption of fixed capital as shown in table 3.8.

NOTE-Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines. Chain-type quantity indexes for the series in this table are shown in table 7.14.

Table 1.9.-Relation of Gross Domestic Product, Gross National Product, Net National Product, National Income, and Personal Income

[Billions of dollars]

			S	easonall	y adjuste	ed at an	nual rate	S
	1998	1999	19	98		19	99	
			=	IV	I	Ш	Ш	IV
Gross domestic product	8,759.9	9,248.4	8,797.9	8,947.6	9,072.7	9,146.2	9,297.8	9,477.
Plus: Income receipts from the								
Less: Income payments to the	285.3		276.4	280.8	283.8	296.1	307.7	
rest of the world	295.2		302.0	297.9	298.2	310.4	323.2	
Equals: Gross national	0 750 0		0 770 0	0 000 5	0.050.0	0 4 9 4 0	0 000 0	
product	8,750.0		8,112.2	8,930.5	9,058.2	9,131.9	9,282.3	
Less: Consumption of fixed	1 000 0	1 1 1 1 0	1 075 0	1 00 1 0	1 100 0	1 100 0	1 100 0	1 100 0
capital Private	1,066.9 880.8	1,141.2 945.3	1,075.2 888.3	1,094.0 904.8		1,126.3 931.8	1,160.9 963.7	1,168.8 968.8
Capital	000.0	040.0	000.0	504.0	510.7	001.0	500.7	500.0
consumption								
allowances	906.2	975.6	914.2	932.2	947.1	964.7	989.9	1,000.7
Less: Capital consumption								
adjustment	25.4	30.3	25.9	27.4	30.3	32.9	26.2	31.8
Government	186.2	195.9	186.9	189.1	192.0	194.5	197.2	200.0
General	150.0	100 7	150.0	160.9	100.4	10F F	167.7	170.
government Government	158.6	166.7	159.2	160.9	163.4	165.5	107.7	170.
enterprises	27.6	29.2	27.7	28.2	28.6	29.0	29.5	29.9
Equals: Net national product	7,683.1		7,697.1	7,836.5	7,949.5	8,005.6	8,121.4	
Less: Indirect business tax and								
nontax liability	677.0	715.6	676.6	697.8	696.6	706.7	718.3	740.6
Business transfer								
payments	38.1 -47.6	39.4	38.2 -87.9	38.6 -62.4	38.8 -99.4	39.3 -135.5	39.5 -141.2	40.0
Statistical discrepancy Plus: Subsidies less current	-47.0		-07.9	-02.4	-99.4	-135.5	-141.2	
surplus of government								
enterprises	20.8	26.4	16.9	31.4	21.0	27.9	17.3	39.4
Equals: National income	7,036.4		7,087.1	7,193.8	7,334.5	7,423.1	7,522.1	
Less: Corporate profits with								
inventory valuation and capital								
Consumption adjustments Net interest	846.1 435.7		843.8 444.0	834.3 440.8	882.0 446.3	875.5 456.4		
Contributions for social	435.7		444.0	440.0	440.5	450.4	470.3	
insurance	621.9	658.1	626.1	633.8	647.2	653.8	662.3	669.0
Wage accruals less								
disbursements Plus: Personal interest income	3.5	0 930.6	3.5	3.5 906.4	0 907.4	0 920.5	0 938.8	0 955.0
Personal dividend	897.8	930.0	909.3	900.4	907.4	920.5	930.0	900.0
income	348.3	364.3	348.0	351.9	356.1	361.2	367.0	373.
Government transfer								
payments to persons	954.8	988.6	957.7	962.0	978.5	984.1	991.6	1,000.3
Business transfer payments to persons	28.8	29.6	28.8	29.0	29.3	29.5	29.7	29.9
Equals: Personal income					7,630.2		-	-
Addenda:	.,	.,	.,-10.0	.,	.,	.,. 52.0	.,	,
	1	1						
	8 807 5		8 885 8	9 009 9	19 172 0	19 281 7	19 239 0	
Gross domestic income Gross national income	8,807.5 8,797.6		8,885.8 8,860.2	9,009.9 8,992.8	9,172.0 9,157.6	9,281.7	9,439.0	

Table 1.10.-Relation of Real Gross Domestic Product, Real Gross National Product, and Real Net National Product

[Billions of chained (1996) dollars]

			S	easonall	y adjuste	ed at an	nual rate	S	
	1998	1999	19	98		19	99		
			Ш	IV	I	Ш	Ш	IV	
Gross domestic product	8,516.3	8,861.0	8,536.0	8,659.2	8,737.9	8,778.6	8,900.6	9,026.9	
Plus: Income receipts from the rest of the world Less: Income payments to the	279.2		270.3	274.0	276.0	286.6	296.5		
rest of the world	289.6		295.8	291.3	290.7	301.1	311.8		
Equals: Gross national product	8,506.0		8,510.6	8,641.9	8,723.3	8,764.3	8,885.5		
Less: Consumption of fixed capital Government General government Government enterprises	899.8 185.4	978.6 192.4 164.4	186.1 159.0	925.8 187.8 160.5	941.6 189.6 161.9	962.8 191.4 163.5	1,000.2 193.3 165.1	1,010.0 195.3 166.8	
Equals: Net national product	7,432.5		7,429.2	7,542.3	7,606.8	7,626.1	7,710.0		
Addenda: Gross domestic income ¹ Gross national income ² Net domestic product	8,552.1		8,595.9	8,702.3	8,819.0	8,894.3	9,020.6		

1. Gross domestic income deflated by the implicit price deflator for gross domestic product.

2. Gross national income deflated by the implicit price deflator for gross national product. NOTE-Except as noted in footnotes 1 and 2, chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive.

The chain-type quantity index for gross national product is shown in table 7.3.

Table 1.11.-Command-Basis Real Gross National Product

[Billions of chained (1996) dollars]

Gross national product	8,506.0	 8,510.6	8,641.9	8,723.3	8,764.3	8,885.5	
Less: Exports of goods and services and income receipts from the rest of the world Plus: Command-basis exports of goods and services and income receipts from the rest of the world ¹	1,286.1	,	,	,	1,313.1	,	
Equals: Command-basis gross national product	8,559.9	 8,568.0	8,698.7	8,786.3	8,816.3	8,925.6	
Addendum: Terms of trade $^2 \ \ldots$	104.2	 104.5	104.3	104.9	104.0	103.0	

Exports of goods and services and income receipts deflated by the implicit price deflator for imports of goods and services and income payments.
 Ratio of the implicit price deflator for exports of goods and services and income receipts to the corresponding implicit price deflator for imports divided by 100.

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. Percent changes from preceding period for gross national product are shown in table 8.1. Chain-type quantity indexes for the series in this table are shown in table 7.3.

Table 1.14.-National Income by Type of Income

[Billions of dollars]

	-		-					
			S	easonall	y adjust	ed at an	nual rate	es
	1998	1999	19	98		19	99	
			Ш	IV	I	Ш	Ш	IV
National income	7,036.4		7,087.1	7,193.8	7,334.5	7,423.1	7,522.1	
Compensation of employees					5,217.7			
Wage and salary accruals					4,371.5			
Government Other	692.8		696.7	702.8	715.8	721.3	730.3	738.2 3,839.0
Supplements to wages and	3,430.7	3,740.3	0,001.2	3,330.0	5,055.7	5,711.5	5,115.1	3,033.0
salaries Employer contributions for	821.7	859.4	825.7	833.9	846.2	854.5	864.2	872.5
social insurance	306.0	323.5	308.1	311.8	318.3	321.5	325.7	328.7
Other labor income	515.7			522.1				
Proprietors' income with inventory valuation and capital consumption								
adjustments	606.1	658.0			639.9	655.3		
Farm	25.1	31.3	22.9	41.1	32.5	34.1	21.0	37.5
Proprietors' income with								
inventory valuation adjustment	32.7	38.6	30.5	48.6	39.6	41.2	28.8	44.6
Capital consumption	02.1	00.0	00.0	40.0	00.0	71.2	20.0	1.0
adjustment	-7.6	-7.3	-7.6	-7.5	-7.2	-7.1	-7.9	-7.0
Nonfarm	581.0		583.6	596.0	607.5	621.2		
Proprietors' income	532.2	578.9	534.6	547.4	558.9	573.8	586.2	596.9
Inventory valuation adjustment	1.2	9	1.3	1.1	.8	-1.0	-1.9	-1.4
Capital consumption	1.2	9	1.5	1.1	.0	-1.0	-1.9	-1.4
adjustment	47.6	48.6	47.7	47.5	47.7	48.3	48.8	49.7
Rental income of persons with								
capital consumption adjustment	137.4	146.1	139.3	147.0	148.6	148.8	139.0	148.2
Rental income of persons	188.6		190.7	199.6				
Capital consumption								
adjustment	-51.1	-56.1	-51.4	-52.6	-53.9	-54.7	-59.9	-55.8
Corporate profits with								
inventory valuation and capital consumption								
adjustments	846.1		843.8	834.3	882.0	875.5	879.2	
Corporate profits with								
inventory valuation								
adjustment			799.9					
Profits before tax			780.1	766.7	818.1			
Profits tax liability Profits after tax			244.3 535.8	235.6 531.0				
Dividends	348.6		348.4					
Undistributed profits	193.1		187.4	178.8	213.7	219.9		
Inventory valuation								
adjustment Capital consumption	20.9		19.8	20.8	13.3	-13.6	-26.7	
adjustment	43.3	52.0	43.9	46.9	50.6	53.2	52.1	52.1
Net interest			444.0					
Addenda:								
Corporate profits after tax with								
inventory valuation and								
capital consumption	005 0		F00 -	F00 -		001 0	040.0	
adjustments	605.8		599.5	598.7	634.0	621.0	619.8	
Net cash flow with inventory valuation and capital								
consumption adjustments	876.5		876.1	883.6	923.4	916.7	929.0	
Undistributed profits with								
inventory valuation and								
capital consumption	257.0		254.4	240 5	077.0	250 5	250 4	
adjustments Consumption of fixed	257.2		251.1	246.5	277.6	259.5	202.4	
capital	619.2	666.3	625.0	637.1	645.8	657.2	676.5	685.6
Less: Inventory valuation								
adjustment			19.8					
Equals: Net cash flow	855.5		856.3	862.8	910.1	930.3	955.6	······

Table 1.16.-Gross Product of Corporate Business in Current Dollars and Gross Product of Nonfinancial Corporate Business in Current and **Chained Dollars**

				000000	v. odl	ad at ar		
					y adjuste I		nual rate	
	1998	1999		198		-	99	
			III	IV	I	II	III	IV
		1	1	Billions	of dollars	6	1	
Gross product of corporate business	5 1 1 5 3		5 / 05 0	5 571 7	5 673 5	5 7/0 1	5,835.7	
Consumption of fixed capital	619.2							
Net product							5,159.1	
Indirect business tax and nontax liability plus	,		,					
business transfer payments	564.0	500 7	562.2	584.9	E02 4	591.4	600 7	610.4
less subsidies Domestic income	564.0	598.7	563.3		583.4		600.7 4,558.4	619.4
Compensation of								
employees	3,385.3	3,614.4	3,416.8	3,481.2	3,532.0	3,582.7	3,644.4	3,698.7
Wage and salary accruals	2 871 5	3 076 3	2 000 8	2 058 /	3 002 1	3 047 6	3,103.3	3 152 /
Supplements to wages	2,071.0	3,070.3	2,300.0	2,330.4	3,002.1	3,047.0	0,100.0	0,102.4
and salaries	513.9	538.1	516.0	522.8	529.9	535.0	541.1	546.3
Corporate profits with								
inventory valuation and capital consumption								
adjustments	746.0		757.2	736.0	777.7	772.1		
Profits before tax				668.3	713.8	732.5		
Profits tax liability						254.4		
Profits after tax Dividends			449.2 310.8	432.7 328.1	465.8 308.4	478.0 342.2		
Undistributed profits			138.4					
Inventory valuation								
adjustment	20.9		19.8	20.8	13.3	-13.6	-26.7	
Capital consumption adjustment	43.3	52.0	43.9	46.9	50.6	53.2	52.1	52.1
Net interest		52.0	133.6					
Gross product of								
financial corporate								
business	610.7		613.5	623.3	645.0	645.2	659.1	
Gross product of								
nonfinancial corporate	4 034 6		4 000 4	4 0 4 0 4	E 000 C	5 004 0	E 476 6	
business							5,176.6	
Consumption of fixed capital	522.2							
Net product	4,312.4		4,355.7	4,411.1	4,484.8	4,542.7	4,608.1	
Indirect business tax and nontax liability plus								
business transfer payments								
less subsidies	523.5							
Domestic income	3,788.9		3,832.6	3,866.7	3,942.4	3,992.9	4,049.5	
Compensation of employees	3 090 4	3 200 0	3 1 1 8 6	3 174 6	3 223 8	3 270 0	3,326.3	3 375 0
Wage and salary	0,000.4	0,200.0	0,110.0	0,174.0	0,220.0	0,210.0	0,020.0	0,070.0
accruals	2,618.7	2,805.6	2,645.1	2,695.5	2,737.9	2,779.4	2,830.1	2,874.9
Supplements to wages	474 7	400 5	470 5	470.0	400.0	400.7	400.0	504.0
and salaries Corporate profits with	471.7	493.5	473.5	479.0	486.0	490.7	496.2	501.0
inventory valuation and								
capital consumption								
adjustments			588.5	568.0	592.5	594.7		
Profits before tax Profits tax liability			503.9 157.1	479.8 148.8	508.6 157.9	534.2 166.9		
Profits after tax			346.9	331.0	350.6	367.3		
Dividends			242.9	256.9	241.5	267.9		
Undistributed profits	92.7		104.0	74.0	109.1	99.4	108.0	
Inventory valuation adjustment	20.0		19.8	20.8	13.3	-13.6	-26.7	
Capital consumption	20.9		19.0	20.0	13.3	-13.0	-20.7	
adjustment	63.5	73.8	64.8	67.4	70.6	74.1	74.1	76.2
Net interest			125.5	124.1	126.1	128.1	134.0	
			Billions	of chaine	ed (1996	i) dollars		
Gross product of								
nonfinancial corporate	1	1	1	1	1	1	1	1

Gross product of nonfinancial corporate business ¹	4,803.4	 	4,844.8	4,911.2	4,981.7	5,035.0	5,116.7	
Consumption of fixed capital ² Net product ³	537.7 4,265.7		543.2 4,301.7					

Chained-dollar gross product of nonfinancial corporate business equals the current-dollar product deflated by the implicit price deflator for goods and structures in gross domestic product. Effective with the estimates scheduled for release on March 30, 2000, the current-dollar product will be deflated by a chain-type price index calculated using gross product price indexes for each nonfinancial industry.
 Chained-dollar consumption of fixed capital of nonfinancial corporate business is calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100.
 Chained-dollar ret product of nonfinancial corporate business is the difference between the gross product and the consumption of fixed capital.

2. Personal Income and Outlays_

Table 2.1.-Personal Income and Its Disposition

[Billions of dollars]

			Seasonally adjusted at annual rates						
	1998	1999	19	98		19	99		
			Ш	IV	Ι	Ш	Ш	IV	
Personal income	7,358.9	7,791.2	7,413.6	7,530.8	7,630.2	7,732.6	7,831.4	7,970.6	
Wage and salary disbursements Private industries							4,509.4 3,779.1		
Goods-producing industries Manufacturing Distributive industries Service industries Government	757.5 944.6	779.9 1,005.5 1,658.1	762.3 953.5 1,528.6	765.6 969.9	767.0 986.3 1,606.6	774.8 997.6 1,638.5	1,013.4 1,675.5	791.4 1,024.8 1,711.9	
Other labor income	515.7	535.8	517.7	522.1	528.0	533.0	538.5	543.8	
Proprietors' income with inventory valuation and capital consumption adjustments Farm Nonfarm	606.1 25.1 581.0	658.0 31.3 626.7	606.4 22.9 583.6	637.1 41.1 596.0	639.9 32.5 607.5	655.3 34.1 621.2	21.0	682.7 37.5 645.2	
Rental income of persons with capital consumption adjustment	137.4	146.1	139.3	147.0	148.6	148.8	139.0	148.2	
Personal dividend income	348.3	364.3	348.0	351.9	356.1	361.2	367.0	373.1	
Personal interest income	897.8	930.6	909.3	906.4	907.4	920.5	938.8	955.6	
Transfer payments to persons Old-age, survivors,	983.6	1,018.2	986.5	991.0	1,007.8	1,013.6	1,021.3	1,030.2	
disability, and health insurance benefits Government unemployment	578.1	596.6	579.6	581.1	588.9	593.0	599.0	605.4	
insurance benefits Veterans benefits Other transfer payments Family assistance ¹ Other	19.8 23.3 362.3 17.1 345.2	20.2 24.3 377.2 15.9 361.3	20.6 23.3 362.9 17.1 345.8	19.9 23.6 366.4 17.3 349.1	20.5 24.3 374.1 16.9 357.2	20.3 24.1 376.2 16.3 359.9	24.3 377.8 15.4	19.6 24.5 380.6 15.1 365.5	
Less: Personal contributions for social insurance	315.9	334.5	318.0	322.0	328.9	332.3	336.7	340.2	
Less: Personal tax and nontax payments							1,160.4		
Equals: Disposable personal income							6,671.0		
Less: Personal outlays							6,531.5	-	
Personal consumption expenditures Interest paid by persons	5,848.6 185.7			5,973.7 193.2			6,303.7 203.3		
Personal transfer payments to the rest of the world (net)	22.3	24.4	22.9	23.3	23.5	24.6	24.5	25.1	
Equals: Personal saving	229.7	158.3	224.8	227.5	195.1	168.0	139.5	130.8	
Addenda: Disposable personal income: Total, billions of chained (1996) dollars ² Per capita:	6,125.1	6,367.4	6,154.6	6,226.6	6,289.3	6,339.1	6,384.8	6,456.3	
Current dollars Chained (1996) dollars Population (mid-period,	23,231 22,636				23,110	23,239	23,343	23,546	
millions) Personal saving as a percentage of disposable personal income	270.6 3.7	273.2 2.4	270.9 3.6	271.6 3.5	272.1 3.0			274.2 1.9	

 Consists of aid to families with dependent children and, beginning with 1996, assistance programs operating under the Personal Responsibility and Work Opportunity Reconciliation Act of 1996.
 Equals disposable personal income deflated by the implicit price deflator for personal consumption expendi-tures. tures.

NOTE.-Percent changes from preceding period for disposable personal income are shown in table 8.1.

Table 2.2.-Personal Consumption Expenditures by Major Type of Product

[Billions of dollars]

-								
			S	easonall	y adjuste	ed at ani	nual rate	S
	1998	1999	19	98		19	99	
			Ш	IV	I	Ш	Ш	IV
Personal consumption expenditures	5,848.6	6,254.9	5,889.6	5,973.7	6,090.8	6,200.8	6,303.7	6,424.6
Durable goods	698.2	758.1	696.9	722.8	739.0	751.6	761.8	780.1
Motor vehicles and parts Furniture and household	289.2							324.7
equipment Other	268.7 140.3		270.6 140.8		283.8 148.3			
Nondurable goods	1,708.9	1,841.1	1,716.6	1,742.9	1,787.8	1,824.8	1,853.9	1,897.7
Food Clothing and shoes Gasoline, fuel oil, and other	853.4 286.3						903.9 308.1	929.4 308.4
energy goods Gasoline and oil Fuel oil and coal Other	126.2 112.9 13.2 442.9	123.3	13.4	108.3 12.6		136.3 121.7 14.6 488.4		151.1 135.7 15.4 508.8
Services	3,441.5	3,655.7	3,476.1	3,508.0	3,564.0	3,624.3	3,688.0	3,746.7
Housing	855.9 346.9 128.1 218.8 245.2 894.3 221.0 878.2	254.9 941.3	356.0 134.6 221.5 246.2	347.3 122.9 224.5 247.7 910.5	885.6 356.2 128.3 227.9 250.3 922.5 233.1 916.4		233.0 256.5 948.1 252.1	258.9 961.6 258.2
Addenda:								
Energy goods and services ¹ Personal consumption expenditures less food and energy	254.3 4,740.8		259.7 4,772.3				278.5 5,121.3	

1. Consists of gasoline, fuel oil, and other energy goods and of electricity and gas.

Table 2.3.-Real Personal Consumption Expenditures by Major Type of Product

[Billions of chained (1996) dollars]

Personal consumption expenditures	5 698 6	5 998 7	5,730.7	5 795 8	5 888 4	5 961 8	6 033 3	6 111 2
Durable goods	731.5							
•								
Motor vehicles and parts Furniture and household	291.9					-		
equipment	297.4							
Other	142.7				152.9	154.7	157.6	163.9
Nondurable goods	1,685.3	1,774.6	1,692.0	1,712.6	1,749.5	1,763.7	1,779.3	1,805.9
Food	820.6							
Clothing and shoes	292.2	317.8	292.2	295.6	314.7	316.8	321.6	317.9
Gasoline, fuel oil, and other energy goods	142.1	144.0	143.1	141.9	142.9	143.9	144.5	144.7
Gasoline and oil	142.1							
Fuel oil and coal	14.5	15.9				16.4		15.1
Other	430.6	462.0						473.4
Services	3,284.5	3,416.8	3,309.6	3,322.0	3,356.5	3,399.2	3,440.6	3,470.6
Housing	805.6						828.5	
Household operation	344.3							362.6
Electricity and gas	129.6							
Other household operation	214.7	227.3		219.6		226.4		231.3
Transportation Medical care	234.2 854.4	240.9 876.7	234.6 856.4	236.1 862.2				243.7 888.5
Recreation	208.8							
Other	837.3							905.8
Residual	-3.6	-9.7	-3.9	-5.0		-8.9		
Addenda:								
Energy goods and services ¹ Personal consumption	271.8	276.6	280.2	267.3	274.1	276.2	280.0	275.9
expenditures less food and energy	4,605.9	4,870.1	4,628.0	4,691.7	4,773.8	4,839.9	4,902.3	4,964.5

1. Consists of gasoline, fuel oil, and other energy goods and of electricity and gas.

1. Consists of gasoline, rue oii, and other energy goods and of electricity and gas. NOTE.-Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines. Chain-type quantity indexes for the series in this table are shown in table 7.4. Contributions to the percent change in real personal consumption expenditures are shown in table 8.3.

3. Government Current Receipts and Expenditures_____

Table 3.1.–Government Current Receipts and Expenditures

[Billions of dollars]

			S	easonall	y adjuste	ed at an	nual rate	s
	1998	1999	19	98		19	99	
			111	IV	Ι	Ш	Ш	IV
Current receipts	2,611.8		2,635.3	2,680.2	2,716.6	2,754.4	2,800.5	
Personal tax and nontax receipts Corporate profits tax accruals Indirect business tax and nontax accruals Contributions for social insurance	1,072.6 240.2 677.0 621.9	715.6	1,088.3 244.3 676.6 626.1	1,113.0 235.6 697.8 633.8	1,124.8 248.0 696.6 647.2	254.4	259.4 718.3	1,183.2 740.6 669.0
Current expenditures	2,523.1	2,619.7	2,525.9	2,566.3	2,570.3	2,598.7	2,617.8	2,692.0
Consumption expenditures	1,261.0	1,332.3	1,265.2	1,282.1	1,299.4	1,313.7	1,341.5	1,374.5
Transfer payments (net) To persons To the rest of the world (net)	965.2 954.8 10.4	988.6	966.7 957.7 9.1	980.7 962.0 18.7	985.3 978.5 6.8		1,000.1 991.6 8.5	1,017.9 1,000.3 17.6
Net interest paid Interest paid To persons and business To the rest of the world Less: Interest received by government	276.4 368.4 277.3 91.1 92.0	356.8	277.4 368.8 277.7 91.1 91.4	272.5 365.6 274.8 90.8 93.2	265.0 358.1 267.4 90.7 93.1	264.1 358.6 266.0 92.6 94.5	257.7 96.6	260.5 356.3
Less: Dividends received by government	.3	.3	.3	.3	.3	.3	.3	.3
Subsidies less current surplus of government enterprises Subsidies Less: Current surplus of government enterprises	20.8 35.6 14.8	43.6	16.9 32.3 15.4	31.4 46.4 15.0	21.0 38.0 16.9	27.9 44.9 17.0	34.6	39.4 56.9 17.6
Less: Wage accruals less disbursements	0	0	0	0	0	0	0	0
Current surplus or deficit (-), national income and product accounts	88.7		109.5	113.9	146.3	155.7	182.7	
Social insurance funds Other	57.3 31.4		59.6 49.9	67.0 46.9	72.7 73.6	76.4 79.3	79.7 103.0	81.3
Addenda: Net lending or net borrowing (-) Current surplus or deficit (-), national income and product accounts Plus: Consumption of fixed capital Plus: Capital transfers received (net) Less: Gross investment Less: Net purchases of nonproduced assets	34.4 88.7 186.2 32.6 268.7 4.3	195.9 37.0 296.4	49.4 109.5 186.9 31.6 273.5 5.1	58.2 113.9 189.1 34.8 272.6 7.0	75.6 146.3 192.0 35.1 289.8 8.0	86.9 155.7 194.5 37.9 292.2 8.9	108.9 182.7 197.2 34.5 295.7 9.9	200.0 40.7 308.1 9.4

Current receipts

Personal tax and nontax receipts

Corporate profits tax accruals

Federal Reserve banks

Indirect business tax and nontax

Customs duties

Contributions for social insurance

Consumption expenditures

To the rest of the world (net)

governments

To persons and business To the rest of the world ...

Less: Interest received by government ..

Subsidies less current surplus of

government enterprises Subsidies

Current surplus or deficit (-), national income

and product accounts

Less: Current surplus of government enterprises

Social insurance funds

Net lending or net borrowing

Current surplus or deficit

product accounts

Plus: Capital transfers

Less: Gross investment

Less: Net purchases of

nonproduced assets

received (net) ..

Plus: Consumption of fixed capital ...

(-), national income and

Other .

Addenda:

(-)

Less: Wage accruals less disbursements

Grants-in-aid to State and local

Transfer payments (net)

Current expenditures

Nontaxes .

Other

accruals ..

Nontaxes

To persons

Net interest paid .

Interest paid .

Excise taxes

Income taxes

IV

260.9

204.8

36.2

19.9

637.8

316.1

239.5

82.3

11.5

230.7

1,116.4

881.8

247.5

- 6

71.8

72.4

.3

.5

-11.9

12.4

0

1.0 8

107.8

43.2

206.3

9.6

Table 3.2.-Federal Government Current Receipts and Expenditures

1999

900.1 84

891.2

100.9 9

66.9

19.9 1

14.2 1

647.0 61

,754.9

475.0

754.6

744.1

10.5

224.2

263.0 27

285.5

22.5 1

38.1

43.1

5.0

0

76.7

90.8

95.9

-.8

8.9

1998

1,750.7

835.7

827.6

206.5

179.9

26.6

97.3

62.9

19.6

14.8

611.2

1,703.8

453.5

730.4

720.0

10.4

209.3

278.4

297 7

206.6

91.1

19.3

32.1

35.1

30

0

46.9

564

-94

51.1

46.9

87.4

3.6

85.2

-56

8.1

[Billions of dollars]

Table 3.3.-State and Local Government Current Receipts and Expenditures

[Billions of dollars]

S	easonall	v adjuste	ed at an	nual rate	s		[H	illions of	dollars					
19				199					S	easonall	y adjuste	ed at anr	nual rate	s
III	IV	I			IV		1998	1999	19	98		19	99	
1,770.3	1,793.3	1,826.5	1,853.1	1,883.1					Ш	IV	- I	Ш	III	1
847.3	868.1 859.8	877.9	892.1	908.0	922.3	Current receipts	1,070.4		1,085.3	1,101.1	1,110.0	1,117.0	1,148.0	
839.1 8.2	8.3	869.4 8.5	883.4 8.8		913.0 9.3	Personal tax and nontax receipts Income taxes	236.9 184.7	251.9 196.8	241.0 188.4	244.9 191.6	246.9 192.9	247.3 192.5	252.4 197.0	
209.9 26.7	202.6 26.7	212.6 23.5	218.1 23.7	222.4 24.6		Nontaxes Other	33.2 19.0	35.3 19.7	33.5 19.1	34.0 19.3	34.5 19.5	35.1 19.7	35.6 19.8	1
183.2	175.9	189.1	194.4	197.9		Corporate profits tax accruals	33.8		34.4	33.1	35.4	36.4	37.0	
97.7 63.1 19.9 14.7	99.6 65.7 19.6 14.3	99.5 66.3 19.0 14.1	100.0 66.9 18.8 14.2	66.9 20.5 14.2	102.7 67.5 21.1 14.2	Indirect business tax and nontax accruals	579.6 284.3 225.5 69.8	614.6 306.9 234.5 73.2	579.0 284.8 226.4 67.7	598.2 291.1 226.3 80.8	597.1 298.5 229.5 69.1	606.8 303.7 232.8 70.3	616.8 309.5 236.1 71.2	6
615.4	623.1 1,733.5	636.5 1,728.9	642.9 1,735.0		657.5	Contributions for social insurance	10.7	11.1	10.7	10.7	10.7	10.9	11.2	1
451.4	460.0	467.0	465.2	475.0	492.7	Federal grants-in-aid Current expenditures	209.3 1,028.7	224.2 1,089.0	220.2 1,035.4	214.2	219.9	215.7	230.6 1 ,099.1	2 1
731.0	742.1	743.4	749.7	754.8	770.4	Consumption expenditures	807.5	857.3	813.8	822.2	832.4	848.4	866.5	י, ו 8
721.9 9.1	723.5 18.7	736.6 6.8	740.5 9.2		752.8 17.6	Transfer payments to persons	234.8	244.6	235.7	238.5	241.9	243.6	245.3	1
220.2	214.2	219.9	215.7	230.6	230.7	Net interest paid Interest paid Less: Interest received by	-2.0 70.7	–.7 71.3	-2.2 70.7	–1.8 70.8	-1.0 71.0	7 71.2	6 71.5	
279.6 298.1	274.3 294.8	266.0 287.1	264.8 287.4	282.9	261.2 284.5	government	72.7	72.1	72.9	72.7	72.0	71.9	72.1	1
207.0 91.1	204.0 90.8	196.4 90.7	194.8 92.6			Less: Dividends received by government	.3	.3	.3	.3	.3	.3	.3	I
18.5	20.5	21.1	22.6		23.4	Subsidies less current surplus of government enterprises	-11.3 .5	-11.7 .5	-11.6 .5	-11.6 .5	-11.6 .5	-11.6 .5	-11.7 .5	-
28.5 31.8	42.9 45.9	32.6 37.5	39.5 44.4		51.3 56.4	Less: Current surplus of government enterprises	11.7	12.2	12.0	12.1	12.1	12.1	12.2	1
3.3	3.0	4.8	4.9	5.1	5.1	Less: Wage accruals less disbursements	0	0	0	0	0	0	0	
0	0	0	0	0	0	Current surplus or deficit (-), national income and product accounts	41.7		49.9	54.2	48.7	37.6	48.9	
59.6	59.7	97.6	118.1	133.8		Social insurance funds Other	.9 40.8	.8	.9 48.9	.7 53.4	.6 48.2	.8 36.8	.8 48.1	
58.6 1.0	66.3 6.6	72.2 25.4	75.6 42.5		80.3	Addenda: Net lending or net borrowing (-)	-16.8		-8.9	-2.6	-20.6	-21.4	-11.6	
58.3	60.8	96.2	108.3	120.4		Current surplus or deficit (-), national income and product accounts	41.7		49.9	54.2	48.7	37.6	48.9	
59.6	59.7	97.6	118.1	133.8		Plus: Consumption of fixed	98.8	105.1	99.4	101.1	102.4	104.3	106.0	
87.5	88.1	89.6	90.2	91.2	92.1	Plus: Capital transfers received (net) Less: Gross investment	36.2 183.5	42.0 200.6	37.1 185.2	38.2 185.9	37.8 199.4	42.6 195.8	44.2 200.8	
-5.5 88.3	-3.4 86.7	-2.7 90.4	-4.8 96.4		-2.5 101.8	Less: Net purchases of nonproduced assets	9.9	200.6 9.9	185.2	185.9	199.4	195.8	200.8 9.8	4
-5.0	-3.1	-2.1	-1.1	0	2		1			1				
				-										

Table 3.7.-Government Consumption Expenditures and Gross Investment by Type

[Billions of dollars]

Table 3.8.-Real Government Consumption Expenditures and Gross Investment by Type

[Billions of chained (1996) dollars]

	[=		donaroj								
			S	easonall	y adjuste	ed at an	at annual rates				
	1998	1999	19	98		19	99				
			111	IV	I	Ш	Ш	IV			
Government consumption expenditures and gross investment ¹	1.529.7	1.628.7	1.538.7	1,554.8	1.589.1	1.605.9	1.637.2	1.682.6			
Federal	538.7	570.8	539.7	546.7	557.4	561.6		594.6			
National defense Consumption expenditures Durable goods ² Nondurable goods Services Compensation of general government employees, except	348.6 299.9 21.0 7.0 271.9	364.7 310.9 21.7 8.0 281.2	354.7 302.5 21.8 7.6 273.1	352.9 303.4 21.4 6.9 275.1	355.8 304.6 20.4 6.4 277.8	354.3 300.8 21.1 7.4 272.3	365.4 312.1 22.4 9.8 279.9	383.4 326.1 22.9 8.3 294.8			
own-account investment ³ Consumption of	131.0	133.1	131.1	129.9	133.2	132.9	133.3	132.8			
general government fixed capital ⁴ Other services Gross investment Structures Equipment and software	61.6 79.3 48.7 5.4 43.3	62.5 85.7 53.9 5.3 48.6	61.5 80.4 52.2 5.9 46.3	61.5 83.6 49.5 5.1 44.4	62.2 82.4 51.2 5.4 45.8	62.3 77.1 53.5 5.3 48.2	62.7 83.9 53.4 5.2 48.2	62.8 99.2 57.3 5.3 52.0			
Nondefense Consumption expenditures Durable goods ² Nondurable goods Commodity Credit	190.1 153.6 2 8.4	206.1 164.1 1.3 9.9	185.0 149.0 -4.8 8.4	193.8 156.5 1.2 8.6	201.6 162.4 1.3 9.5	207.3 164.4 1.4 9.6	204.4 162.9 1.1 10.1	211.2 166.7 1.3 10.3			
Corporation inventory change Other nondurables Services Compensation of general government	.1 8.2 145.5	1.1 8.8 153.0	.3 8.1 145.3	.4 8.2 146.8	1.1 8.4 151.7	.8 8.8 153.4	1.1 8.9 151.7	1.2 9.1 155.0			
employees, except own-account investment ³ Consumption of	81.9	87.9	82.1	84.2	88.3	87.6	87.3	88.5			
general government fixed capital ⁴ Other services Gross investment Structures Equipment and software	20.9 42.7 36.5 11.3 25.2	23.0 42.0 42.0 11.3 30.7	21.1 42.2 36.1 11.7 24.4	21.5 41.0 37.2 11.6 25.7	22.3 41.1 39.2 11.7 27.4	22.7 43.2 42.9 10.8 32.1	23.2 41.2 41.5 11.4 30.1	23.9 42.6 44.5 11.2 33.3			
State and local Consumption expenditures Durable goods ² Nondurable goods Services Compensation of general government employees, except	991.0 807.5 15.2 86.3 706.1	1,057.9 857.3 16.2 95.2 745.8	999.0 813.8 15.3 86.8 711.6	1,008.1 822.2 15.5 86.7 719.9	1,031.8 832.4 15.8 87.7 728.8	1,044.3 848.4 16.0 93.1 739.3		1,088.0 881.8 16.7 101.7 763.4			
own-account investment ³ Consumption of general government fixed	592.6	621.8	596.4	602.6	609.8	616.9	626.4	634.2			
capital ⁴ Other services Gross investment Structures Equipment and software	76.0 37.5 183.5 135.2 48.3	81.2 42.8 200.6 148.2 52.4	76.6 38.6 185.2 136.5 48.8	77.8 39.5 185.9 136.1 49.8	78.9 40.2 199.4 148.9 50.5	80.5 41.9 195.8 144.4 51.5	200.8	83.4 45.8 206.3 151.7 54.5			
Addenda: Compensation of general government employees ³ Federal State and local	813.8 214.4 599.4	852.1 222.7 629.4	818.2 214.9 603.3	825.3 215.7 609.5	840.5 223.3 617.2	846.5 222.2 624.2		864.9 222.8 642.0			

Gross government investment consists of general government and government enterprise expenditures for fixed assets; inventory investment is included in government consumption expenditures.
 Consumption expenditures for durable goods excludes expenditures classified as investment, except for goods transferred to foreign countries by the Federal Government.
 Compensation of government employees engaged in new own-account investment and related expenditures for goods and services are classified as investment in structures and in software. The compensation of all general government employees is shown in the addenda.
 Consumption of fixed capital, or depreciation, is included in government consumption expenditures as a partial measure of the value of the services of general government fixed assets; use of depreciation assumes a zero net return on these assets.

			u (1000)	uonaroj				
			S	easonall	y adjuste	ed at ani	nual rate	S
	1998	1999	19	98		19	99	
			=	IV	I	Ш	Ш	IV
Government consumption expenditures and gross investment ¹	1 480 3	1 534 6	1 485 3	1 495 9	1,514.6	1 519 5	1 536 5	1 567 7
			-	-				
Federal	526.1	541.3	527.0	532.0	531.4	534.2	539.7	560.1
National defense Consumption expenditures Durable goods ² Nondurable goods	341.7 291.4 21.2 8.1	348.1 293.5 21.9 8.7	347.5 293.6 22.0 8.9	344.9 293.6 21.6 8.1	341.4 289.5 20.6 7.7	339.2 284.9 21.3 8.5	348.3 294.0 22.7 10.4	363.7 305.7 23.2 8.3
Services Compensation of general government employees, except own-account investment ³	262.3	263.2	263.0 124.3	263.9	261.2	255.4	261.5	274.5
Consumption of general government	124.3	121.0	124.3	122.6	121.5	121.0	121.2	120.3
fixed capital ⁴	62.2 75.9	62.2 80.1	62.1 76.6	62.1 79.3	62.1 77.8	62.1 72.4	62.2 78.2	62.3 91.9
Other services Gross investment	50.3	54.9	70.0 54.0	79.3 51.4	52.1	54.6	54.5	58.3
Structures Equipment and software	5.1 45.3	4.8 50.2	5.5 48.6	4.8 46.8	5.0 47.2	4.9 49.9	4.7 50.0	4.8 53.8
Nondefense Consumption expenditures Durable goods 2 Nondurable goods Commodity Credit	184.4 147.3 –.1 8.4	193.1 151.3 1.5 11.0	179.6 142.9 -4.5 8.5	187.1 149.1 1.3 8.8	189.9 150.8 1.5 10.4	194.9 152.1 1.7 10.6	191.3 149.8 1.4 11.4	196.4 152.4 1.6 11.4
Corporation inventory change Other nondurables Services Compensation of general government	.1 8.3 139.1	2.4 8.6 140.2	.3 8.1 138.8	.5 8.3 139.4	2.0 8.4 139.8	2.0 8.6 141.1	2.7 8.6 138.8	2.7 8.7 141.0
employees, except own-account investment ³ Consumption of	76.8	77.2	76.7	78.1	78.2	77.2	76.4	77.1
general government fixed capital ⁴ Other services Gross investment Structures Equipment and software	21.3 41.1 37.2 10.6 26.7	23.2 40.0 42.3 10.3 32.2	21.5 40.7 36.9 11.0 25.9	22.0 39.4 38.1 10.8 27.5	22.5 39.3 39.4 10.9 28.6	22.9 41.2 43.2 9.9 33.7	23.4 39.2 41.9 10.4 31.8	24.0 40.3 44.5 10.1 34.9
State and local Consumption expenditures Durable goods ² Nondurable goods Services Compensation of general government employees, except	953.9 775.1 15.3 91.4 668.8	993.0 801.1 16.4 97.3	958.1 777.8 15.4 92.1 670.6	963.6 783.7 15.7 93.5 675.0	982.9 790.4 16.0 95.0 680.0	985.1 797.3 16.2 96.5 685.2		1, 007.5 811.7 16.8 99.6 696.0
own-account investment ³ Consumption of general government fixed	557.6	568.5	558.1	560.6	563.5	566.6	570.5	573.2
capital 4 Other services Gross investment Structures Equipment and software	75.0 36.3 178.8 127.5 51.8	41.0 192.0 135.2	75.4 37.2 180.3 128.3 52.5	76.4 38.2 179.9 126.6 54.0	39.3 192.7 137.8	78.4 40.5 187.8 132.1 56.6	79.5 41.5 191.7 134.1 58.6	80.6 42.8 195.9 136.9 60.1
Residual	-1.5	-4.7	-1.4	-2.3	-2.9	-4.7	-5.6	-6.3
Addenda: Compensation of general	766.6	775 4	767 0	760 4	774 6	770 4	776 6	770.4
government employees ³ Federal State and local	766.6 202.6 564.0	775.1 199.8 575.4	767.2 202.6 564.6	769.4 202.3 567.1	201.2	773.1 199.8 573.3	776.6 199.2 577.4	779.1 198.9 580.3

NOTE.-Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines, excluding the lines in the addreda The issue in the addenda. See footnotes to table 3.7. Chain-type quantity indexes for the series in this table are shown in table 7.11. Contributions to percent change in real government consumption expenditures and gross investment are shown

in table 8.6.

Table 3.10.-National Defense Consumption Expenditures and Gross Investment

[Billions of dollars]

			S	easonally	y adjuste	d at anr	nual rate	S
	1998	1999	19	98		199	99	
			Ш	IV	I	II	III	IV
National defense consumption expenditures and gross investment ¹	348.6	364.7	354.7	352.9	355.8	354.3	365.4	383.4
Consumption expenditures	299.9	310.9	302.5	303.4	304.6	300.8	312.1	326.1
Durable goods ² Aircraft Missiles Ships Vehicles Electronics Other durable goods	21.0 10.1 2.3 .6 .9 2.5 4.6	21.7 10.3 2.2 .7 .8 2.8 4.9	21.8 9.8 3.0 .6 .9 2.5 4.9	21.4 11.0 2.1 .6 .9 2.4 4.4	20.4 9.6 2.2 .6 .7 2.5 4.7	21.1 9.7 2.1 .8 .8 2.8 4.9	22.4 10.4 2.3 .7 .8 3.0 5.0	22.9 11.3 2.3 .6 .8 3.0 4.9
Nondurable goods	7.0	8.0	7.6	6.9	6.4	7.4	9.8	8.3
Petroleum products Ammunition Other nondurable goods	2.1 1.9 3.1	2.5 1.8 3.7	2.1 2.5 3.0	1.7 2.0 3.2	1.5 1.8 3.1	2.3 1.8 3.4	3.6 2.3 3.9	2.5 1.5 4.3
Services	271.9	281.2	273.1	275.1	277.8	272.3	279.9	294.8
Compensation of general government employees, except own-account investment ³ Military Civilian Consumption of general government fixed capital ⁴ Other services Research and development Installation support Weapons support	131.0 83.7 47.2 61.6 79.3 21.2 23.9 8.5	133.1 84.5 48.5 62.5 85.7 18.9 27.0 8.8	131.1 83.7 47.4 61.5 80.4 22.4 25.1 8.6	129.9 83.1 46.8 61.5 83.6 22.8 23.4 9.3	133.2 84.7 48.5 62.2 82.4 18.8 24.6 8.5	132.9 84.2 48.7 62.3 77.1 15.3 24.2 8.4	133.3 84.6 48.7 62.7 83.9 18.0 27.1 8.8	132.8 84.5 48.2 62.8 99.2 23.3 31.9 9.7
Personnel support Transportation of	18.9	23.8	18.7	20.3	22.0	20.9	23.8	28.5
material Travel of persons Other	4.9 3.5 –1.7	5.5 3.6 –1.9	4.9 3.5 –2.7	5.3 3.5 –1.0	5.6 3.6 –.7	6.0 3.6 –1.4	5.4 3.6 –2.7	4.9 3.6 –2.7
Gross investment	48.7	53.9	52.2	49.5	51.2	53.5	53.4	57.3
Structures	5.4	5.3	5.9	5.1	5.4	5.3	5.2	5.3
Equipment and software Aircraft Missiles Ships Vehicles Electronics and software Other equipment	43.3 5.6 3.3 6.4 1.5 12.7 13.8	48.6 7.6 2.8 6.7 1.6 15.1 14.7	46.3 6.0 4.4 6.5 1.5 12.9 15.0	44.4 7.0 2.9 6.9 1.4 13.0 13.2	45.8 6.1 2.8 6.8 1.4 13.7 15.1	48.2 7.6 2.7 6.6 1.8 15.2 14.4	48.2 7.8 2.7 6.5 1.6 15.6 14.0	52.0 9.0 3.1 7.1 1.7 16.0 15.2
Addendum: Compensation of general government employees ³	131.5	133.6	131.6	130.5	133.8	133.5	133.9	133.3

Gross government investment consists of general government and government enterprise expenditures for fixed assets; inventory investment is included in government consumption expenditures.
 Consumption expenditures for durable goods excludes expenditures classified as investment, except for goods treatment in termine government in the second seco

Consumption expenditures for durable goods excludes expenditures classified as investment, except for goods transferred to foreign countries.
 Compensation of government employees engaged in new own-account investment and related expenditures for goods and services are classified as investment in structures and in software. The compensation of all general government employees is shown in the addendum.
 Consumption of fixed capital, or depreciation, is included in government consumption expenditures as a partial measure of the value of the services of general government fixed assets; use of depreciation assumes a zero net return on these assets.

Table 3.11.–Real National Defense Consumption Expenditures and Gross
Investment

[Billions of chained (1996) dollars]

			S	easonally	y adjuste	ed at ann	nual rate	S	
	1998	1999	199	98		199	99		
			Ш	IV	I	Ш	Ш	IV	
National defense consumption expenditures and gross investment ¹	341.7	348.1	347.5	344.9	341.4	339.2	348.3	363.7	
Consumption expenditures	291.4	293.5	293.6	293.6	289.5	284.9	294.0	305.7	
Durable goods ² Aircraft Ships Vehicles Electronics Other durable goods	21.2 10.2 2.4 .6 .7 2.6 4.6	21.9 10.5 2.2 .7 .6 3.1 4.9	22.0 10.0 3.1 .6 .7 2.7 5.0	21.6 11.2 2.2 .6 .7 2.6 4.4	20.6 9.8 2.2 .7 .6 2.7 4.7	21.3 9.9 2.1 .8 .7 3.1 4.9	22.7 10.7 2.3 .8 .7 3.3 5.1	23.2 11.5 2.3 .6 .6 3.3 4.9	
Nondurable goods	8.1	8.7	8.9	8.1	7.7	8.5	10.4	8.3	
Petroleum products Ammunition Other nondurable goods	3.0 1.9 3.1	3.1 1.9 3.6	3.3 2.6 3.0	2.7 2.1 3.1	2.6 1.8 3.1	3.2 1.8 3.4	4.2 2.4 3.8	2.5 1.6 4.2	
Services	262.3	263.2	263.0	263.9	261.2	255.4	261.5	274.5	
Compensation of general government employees, except own-account investment ³	124.3 80.1 44.2	121.0 78.5 42.5	124.3 80.2 44.2	122.6 79.4 43.3	121.5 78.6 42.8	121.0 78.2 42.8	121.2 78.8 42.5	120.3 78.5 41.9	
government fixed capital ⁴ Other services	62.2 75.9	62.2 80.1	62.1 76.6	62.1 79.3	62.1 77.8	62.1 72.4	62.2 78.2	62.3 91.9	
Research and development Installation support Weapons support Personel support Transportation of	20.3 23.2 8.1 17.5	17.9 25.7 8.2 21.2	21.5 24.2 8.1 17.2	21.8 22.4 8.8 18.5	17.9 23.6 7.9 19.8	14.5 23.1 7.8 18.8	17.0 25.8 8.0 21.1	21.9 30.2 8.9 24.9	
Travel of persons Other	4.9 3.4 –1.5	5.4 3.4 –1.7	4.8 3.3 –2.5	5.4 3.4 –1.0	5.7 3.4 6	6.0 3.4 –1.2	5.2 3.4 –2.4	4.8 3.4 –2.4	
Gross investment	50.3	54.9	54.0	51.4	52.1	54.6	54.5	58.3	
Structures	5.1	4.8	5.5	4.8	5.0	4.9	4.7	4.8	
Equipment and software Aircraft Missiles Ships Vehicles Electronics and software Other equipment	45.3 6.2 3.5 6.4 1.5 13.8 13.8	50.2 7.9 3.0 6.7 1.6 16.4 14.6	48.6 6.7 4.7 6.5 1.5 14.1 15.0	46.8 8.1 3.0 6.9 1.4 14.3 13.1	47.2 6.3 2.9 6.8 1.4 14.7 15.0	49.9 7.8 2.9 6.6 1.8 16.4 14.3	50.0 8.1 2.9 6.5 1.6 17.0 14.0	53.8 9.3 3.3 7.0 1.8 17.3 15.1	
Residual	1	8	6	4	1	9	-1.4	8	
Addendum: Compensation of general government employees ³	124.8	121.5	124.8	123.1	122.0	121.5	121.7	120.8	

NOTE.-Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines, excluding the The notation and the addendum. Chain-type indexes for the series in this table are shown in table 7.12. See footnotes to table 3.10.

4. Foreign Transactions_

Table 4.1.–Foreign Transactions in the National Income and Product Accounts

[Billions of dollars]

	. 966.3 996.3 949.1 981.8 966.9 978.2 1,008.5 . 681.3 697.5 667.2 693.3 674.3 680.5 708.8 . 487.2 501.8 479.4 498.3 486.7 489.8 512.2 . 194.0 195.7 187.8 195.00 187.6 190.7 196.2 . 285.1 298.8 281.9 288.6 292.6 297.7 299.7 . 285.3 276.4 280.8 283.8 296.1 307.7								
	1998	1999	19	98		19	99		
			111	IV	I	Ш	Ш	IV	
Receipts from the rest of the world	1,251.6		1,225.5	1,262.7	1,250.7	1,274.3	1,316.2		
Exports of goods and services Goods ¹ Durable Nondurable Services ¹	681.3 487.2 194.0	697.5 501.8 195.7	667.2 479.4 187.8	693.3 498.3 195.0	674.3 486.7 187.6	680.5 489.8 190.7	708.8 512.2 196.6	726.5 518.6 207.9	
Income receipts	285.3		276.4	280.8	283.8	296.1	307.7		
Payments to the rest of the world	1,251.6		1,225.5	1,262.7	1,250.7	1,274.3	1,316.2		
Imports of goods and services Goods ¹ Durable Nondurable Services ¹		1,048.9 715.5	632.0 295.2	952.6 659.5	974.3 676.6 297.7	1,022.3 701.7 320.6	1,079.3 732.5	1,119.9 751.1 368.8	
Income payments	295.2		302.0	297.9	298.2	310.4	323.2		
Transfer payments (net) From persons (net) From government (net) From business	42.0 22.3 10.4 9.3	24.4 10.5	22.9 9.1		23.5	24.6	42.7 24.5 8.5 9.8	52.8 25.1 17.6 10.1	
Net foreign investment	-201.5		-232.6	-229.9	-255.7	-303.7	-336.3		

1. Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services. Beginning with 1986, repairs and alterations of equipment are reclassified from goods to services.

Table 4.2.–Real Exports and Imports of Goods and Services and Receipts and Payments of Income

[Billions of chained (1996) dollars]

			S	easonall	y adjuste	ed at an	nual rate	S
	1998	1999	19	98		19	99	
			Ш	IV	I	Ш	Ш	IV
Exports of goods and services Goods ¹ Durable Nondurable Services ¹	1,007.1 722.8 513.5 209.3 284.4	535.5 214.7	712.0 507.5 204.4	744.2 529.3 214.9	726.4 518.2 208.1	734.1 522.8 211.2	548.2 214.9	777.4 552.9 224.4
Income receipts	279.2		270.3	274.0	276.0	286.6	296.5	
Imports of goods and services Goods ¹ Durable Nondurable Services ¹		1,162.7 803.4 359.5	1,037.9 700.7 337.5	1,069.7 733.7	1,102.0 753.6 348.5	1,142.5 787.4 355.0	363.8	1,217.4 847.2 370.6
Income payments	289.6		295.8	291.3	290.7	301.1	311.8	

Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services. Beginning with 1986, repairs and alterations of equipment are reclassified from goods to services.

NOTE.-Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. Chain-type quantity indexes for the series in this table are shown in table 7.9.

Table 4.3.-Exports and Imports of Goods and Services by Type of Product

[Billions of dollars]

Seasonally adjusted at annual rates 1998 1999 1998 1999 Ш IV T Ш Ш IV Exports of goods and 966.9 978.2 .008.5 1.031.5 966.3 996.3 949.1 981.8 services Exports of goods 1 681.3 697.5 667.2 693.3 674.3 680.5 708.8 726.5 Foods, feeds, and beverages 46.4 45.6 42.8 47.5 43.2 45.3 47.1 46.7 Industrial supplies and 142 8 137.0 138.8 139.7 133.6 142 6 154 6 materials 141.9 Durable goods 53.6 51.9 53.8 53.7 52.6 51.7 56.6 52.5 Nondurable goods 89.1 88.3 86.9 87.1 81.9 84.5 88.8 98.1 Capital goods, except automotive 300.1 310.2 299.0 309.2 301.7 299.5 319.3 320.2 Civilian aircraft, engines, 53 5 53.3 56 2 636 56.6 487 53.9 54 1 and parts . Computers, peripherals, and parts 45.2 46.5 44.8 45.6 44.1 46.5 48.2 47.1 Other 201.3 210.4 198.0 200.0 200.9 204.3 217.2 219.0 Automotive vehicles, engines, and parts 73.2 74.7 68.2 74.7 71.4 75.0 76.0 76.3 Consumer goods, except 79.3 automotive . 80.6 80.3 79.2 79.6 791 80.6 83.0 Durable goods 41.0 41.2 41.5 40.5 40.3 39.5 40.5 42.7 Nondurable goods 38.7 39.5 39.1 38.9 40.1 38.7 39.0 40.3 Other 39.5 44 5 37.9 43.0 44 8 44 5 432 45 6 Exports of services 1 285.1 298.8 281.9 288.6 292.6 297.7 299.7 305.0 Transfers under U.S. military agency sales contracts 16.3 16.0 15 15.1 16.5 16.016.5 15.0 73.6 21.1 73.0 21.3 75.3 22.2 Travel 71.3 68.6 718 726 73 5 20.0 19.4 20.0 20.2 21.0 Passenger fares 27.2 25.4 26.0 27.6 Other transportation .. 25.5 26.3 26.9 28.4 37.5 36.1 39.6 Royalties and license fees 36.8 37.3 37.6 37.4 37.6 Other private services 92.1 98.9 93.1 93.0 96.4 98.6 99.3 101.4 Other 23.1 24.4 23.4 23.5 23.8 24.2 24.5 25.0 Imports of goods and services 1,115.9 1,253.1 ,114.8 ,143.1 ,168.5 ,224.0 ,286.6 1,333.3 Imports of goods 1 930.4 1,048.9 927.2 952.6 974.3 ,022.3 ,079.3 1,119.9 Foods, feeds, and beverages 43 5 41.3 43.8 44 2 44 4 41 2 416 417 Industrial supplies and materials, except petroleum 140.3 and products . 142.6 148.2 144.3 140.0 143.8 151.6 157.3 Durable goods 75.8 787 77.2 75.1 75.0 77.8 80.1 82.2 71.5 Nondurable goods 66.8 694 67.1 65.2 65.0 66.1 75.1 67.9 42 4 637 871 Petroleum and products 50.9 49.8 45.8 78.3 Capital goods, except automotive 269.6 296.7 268.2 274.2 279.1 291. 302.2 313.9 Civilian aircraft, engines, 23.3 22.5 22.6 23.5 21.8 24.2 22.2 24.9 and parts . Computers, peripherals, 77.6 82.0 82.5 72.5 81.8 716 84.9 747 and parts ... Other . 175.3 191.7 174.1 175.3 179.3 187.1 194.7 205.5 Automotive vehicles, engines, and parts . 149.1 179.8 144.3 161.2 171.6 175.1 186.2 186.3 Consumer goods, except 216.7 239.7 219.0 221.1 229.2 232.8 243.0 253.5 automotive ... Durable goods 123.6 112.2 114.7 115.8 121.5 127.2 111.5 130.0 Nondurable goods 105.2 116.1 106.8 106.4 113.5 111.4 115.8 123.5 Other 60.4 73.2 60.3 68.5 70.3 71.4 73.7 77.3 207.4 213.4 Imports of services 1 185.5 204.2 187.7 190.4 194.2 201.7 Direct defense expenditures ... 12.8 14.9 13.1 13.6 14.0 14.4 15.4 15.6 Travel 56.1 60.9 56.3 56.5 59.4 60.0 60.9 63.2 Passenger fares 19.8 21.5 20.3 20.5 20.5 21.3 21.8 22.3 34.3 30.9 12.7 Other transportation 30.5 30.8 31.4 33.2 36.1 37.2 Royalties and license fees 125 11.3 10.9 117 13.0 11.9 126 Other private services 47.7 52.3 48.7 49.1 49.3 52.2 54.5 53.3 7.7 7.4 7.7 7.9 7.9 Other 7.4 7.6 7.6 Addenda: Exports of agricultural goods 2 53 1 49.9 492 47.3 49.0 51.8 514 543 Exports of nonagricultural goods 628.2 647.6 618.0 638.9 627.0 631.4 657.0 675.1 Imports of nonpetroleum goods 879.5 981.1 877.3 906.8 931.9 958.7 1.001.0 1.032.8

1. Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Govern-ment, are included in services. Beginning with 1986, repairs and alterations of equipment are reclassified from goods

 2. Includes parts of foods, feeds, and beverages, of nondurable industrial supplies and materials, and of nondurable nonautomotive consumer goods

Table 4.4.-Real Exports and Imports of Goods and Services by Type of Product

[Billions of chained (1996) dollars]

			S	easonall	y adjuste	ed at an	nual rate	S			
	1998	1999	19	98		19	99				
	1000	1000									
			III	IV	I	II	III	IV			
Exports of goods and											
services	1,007.1	1,042.5	993.0	1,030.8	1,016.4	1,026.4	1,054.8	1,072.4			
Exports of goods 1	722.8	750.3	712.0	744.2	726.4	734.1	763.3	777.4			
Foods, feeds, and beverages	55.1	56.8	51.4	57.8	52.9	56.1	59.1	59.1			
Industrial supplies and materials	151.5	153.0	149.0	152.3	147.1	150.1	152.7	162.2			
Durable goods	56.5	58.0	55.0	56.3	55.9	57.0	58.2	60.8			
Nondurable goods	95.1	95.0	94.0	96.0	91.1	93.1	94.4	101.3			
Capital goods, except automotive	324.5	340.5	325.1	337.2	329.6	328.4	352.1	352.0			
Civilian aircraft, engines,	524.5	540.5	525.1	557.2	525.0	520.4	352.1	552.0			
and parts	51.1	49.8	53.7	60.4	53.2	45.6	50.3	50.1			
Computers, peripherals,	50.0	67.0	61.0	62.1	62.6	67.1	71 4	60.0			
and parts Other	59.9 212.7	67.8 224.0	61.0 209.5	63.1 212.3	62.6 213.4	67.1 217.5	71.4	69.9 233.2			
Automotive vehicles, engines,											
and parts	72.5	73.5	67.6	73.9	70.5	74.0	74.8	74.8			
Consumer goods, except automotive	78.7	80.2	79.8	78.8	79.3	78.9	80.3	82.4			
Durable goods	40.2	41.0	41.0	40.2	39.5	40.5	41.4	42.5			
Nondurable goods	38.4	39.2	38.8	38.6	39.8	38.4 46.8	38.8	39.9			
Other Exports of services ¹	40.9 284.4	46.6 292.6	39.4 281.1	44.9 287.0	46.9 289.9	40.0 292.2	45.3 292.2	47.5 295.9			
Transfers under U.S. military	204.4	292.0	201.1	207.0	205.5	252.2	252.2	295.9			
agency sales contracts	17.1	16.0	16.0	16.1	16.5	16.1	16.5	15.0			
Travel	69.4	70.8	66.6	69.5	70.7	70.6	70.1	71.9			
Passenger fares Other transportation	20.9 26.4	20.5 27.8	21.5 26.1	19.6 27.4	19.7 27.7	20.7	20.6	21.0 28.2			
Royalties and license fees	36.0	36.2	35.3	38.6	36.3	36.3	36.0	36.1			
Other private services	91.4	97.1	92.3	92.1	95.0	96.7	97.2	99.5			
Other	23.2	24.0	23.4	23.7	23.9	24.1	24.0	24.1			
Residual	.3	-1.6	.4	.3	.8	-1.9	-2.9	-2.5			
Imports of goods and											
	1 222 2	1 367 0	1 231 0	1 263 1	1 300 9	1 345 4	1 393 0	1 428 6			
services		1,367.0 1.162.7					1,393.0				
services Imports of goods ¹	1,031.6	1,162.7	1,037.9	1,069.7	1,102.0	1,142.5	1,188.9	1,217.4			
services Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and											
imports of goods 1 Foods, feeds, and beverages Industrial supplies and materials, except petroleum	1,031.6 42.2	1,162.7 46.1	1,037.9 42.6	1,069.7 42.8	1,102.0 43.7	1,142.5 46.0	1,188.9 47.2	1,217.4 47.2			
services Imports of goods ¹ Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products	1,031.6 42.2 150.2	1,162.7 46.1 156.8	1,037.9 42.6 153.3	1,069.7 42.8 151.1	1,102.0 43.7 151.1	1,142.5 46.0 154.5	1,188.9 47.2 159.0	1,217.4 47.2 162.4			
services	1,031.6 42.2 150.2 78.2 71.9	1,162.7 46.1 156.8 81.0 75.7	1,037.9 42.6 153.3 80.2 73.0	1,069.7 42.8 151.1 79.6 71.4	1,102.0 43.7 151.1 78.7 72.3	1,142.5 46.0 154.5 80.7 73.7	1,188.9 47.2 159.0 81.2 77.8	1,217.4 47.2 162.4 83.4 79.0			
services	1,031.6 42.2 150.2 78.2	1,162.7 46.1 156.8 81.0	1,037.9 42.6 153.3 80.2	1,069.7 42.8 151.1 79.6	1,102.0 43.7 151.1 78.7	1,142.5 46.0 154.5 80.7	1,188.9 47.2 159.0 81.2 77.8	1,217.4 47.2 162.4 83.4			
services	1,031.6 42.2 150.2 78.2 71.9	1,162.7 46.1 156.8 81.0 75.7 81.9	1,037.9 42.6 153.3 80.2 73.0 84.9	1,069.7 42.8 151.1 79.6 71.4 79.2	1,102.0 43.7 151.1 78.7 72.3	1,142.5 46.0 154.5 80.7 73.7 85.3	1,188.9 47.2 159.0 81.2 77.8	1,217.4 47.2 162.4 83.4 79.0 79.0			
services	1,031.6 42.2 150.2 78.2 71.9 81.4 328.3	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0	1,217.4 47.2 162.4 83.4 79.0 79.0 406.6			
services	1,031.6 42.2 150.2 78.2 71.9 81.4	1,162.7 46.1 156.8 81.0 75.7 81.9	1,037.9 42.6 153.3 80.2 73.0 84.9	1,069.7 42.8 151.1 79.6 71.4 79.2	1,102.0 43.7 151.1 78.7 72.3 80.6	1,142.5 46.0 154.5 80.7 73.7 85.3	1,188.9 47.2 159.0 81.2 77.8 82.7	1,217.4 47.2 162.4 83.4 79.0 79.0			
services	1,031.6 42.2 150.2 78.2 71.9 81.4 328.3	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0	1,217.4 47.2 162.4 83.4 79.0 79.0 406.6			
services	1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2	1,217.4 47.2 162.4 83.4 79.0 79.0 406.6 21.7			
services	1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0	1,217.4 47.2 162.4 83.4 79.0 79.0 406.6 21.7 141.9 247.6			
services	1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 101.3	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9	1,217.4 47.2 162.4 83.4 79.0 79.0 406.6 21.7 141.9			
services	1,031.6 42.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3	1,102.0 43.7 151.1 78.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6	1,217.4 47.2 162.4 83.4 79.0 79.0 406.6 21.7 141.9 247.6 184.1 262.4			
services	1,031.6 42.2 75.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5	1,217.4 47.2 162.4 83.4 79.0 79.0 406.6 21.7 141.9 247.6 184.1 262.4 138.5			
services	1,031.6 42.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3	1,102.0 43.7 151.1 78.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6	1,217.4 47.2 162.4 83.4 79.0 79.0 406.6 21.7 141.9 247.6 184.1 262.4			
services	1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4 116.4	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3	1,217.4 47.2 162.4 83.4 79.0 406.6 21.7 141.9 247.6 184.1 262.4 138.5 123.9			
services	1,031.6 42.2 78.2 77.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4 116.4 73.8	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 15.4	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3	1,217.4 47.2 162.4 83.4 79.0 79.0 406.6 21.7 141.9 247.6 184.1 262.4 138.5 123.9 77.8 212.4 17.1			
services	1,031.6 42.2 78.9 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 197.7 144.58.7	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4 116.4 73.8 205.2 16.4 63.4	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 149.4 59.4	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 145.5 58.2	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 154.6 25.5	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 117.0 62.7	1,217.4 47.2 162.4 83.4 79.0 406.6 21.7 141.9 247.6 184.1 262.4 138.5 123.9 77.8 212.4 13.5 123.9 77.8 212.4			
services	1,031.6 42.2 78.2 77.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4 116.4 73.8 205.2 16.4 634 19.5	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.4 18.9	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 582 59.2 19.0	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 15.4 62.5 19.0	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 17.0 62.7 19.4	1,217.4 47.2 162.4 83.4 79.0 79.0 406.6 21.7 141.9 247.6 184.1 262.4 138.5 123.9 77.8 212.4 17.1 65.3			
services	1,031.6 42.2 78.2 77.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 197.7 18.5 31.7 11.0	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4 116.4 73.8 205.2 16.4 463.4 19.5 320.0 12.1	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 146.5 59.4 18.9 31.8 10.6	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 322.3 11.4	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 15.4 62.5 19.0 32.0 012.3	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 12.5	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 117.0 62.7 19.4 32.1 11.4	1,217.4 47.2 162.4 83.4 79.0 406.6 21.7 141.9 247.6 184.1 262.4 138.5 123.9 77.8 212.4 17.1 65.3 20.3 32.5 12.1			
services	1,031.6 42.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 7 18.5 31.7 18.5 31.7 11.0 49.1	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4 116.4 73.8 205.2 16.4 63.4 19.5 32.0 12.1 54.4	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.4 18.9 31.8 10.6 59.3	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 160.7 227.3 160.7 106.4 68.1 193.8 14.5 58.2 19.0 32.3 11.4	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 113.4 70.7 199.4 15.4 62.5 19.0 32.0 12.3 50.9	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 53.6	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 1355.5 116.3 74.3 205.5 17.0 62.7 19.4 32.1 13.4 55.4	1,217.4 47.2 162.4 83.4 79.0 406.6 21.7 141.9 247.6 184.1 262.4 138.59 123.9 77.8 212.4 17.1 65.3 20.3 32.5 12.1 15.7.8			
services	1,031.6 42.2 150.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 18.5 31.7 11.0 49.1 7.3	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4 116.4 73.8 205.2 16.4 63.4 19.5 32.0 12.1 54.4 7.6	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.4 18.9 31.8 10.6 50.3 7.6	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 582.2 19.0 32.3 11.4 51.0 7.5	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 15.4 6255 19.0 32.0 12.3 50.9 7.4	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 53.6 53.6 53.6 53.6 53.6 53.6 57.6	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 17.0 62.7 19.4 32.1 11.4 55.4 7.7	1,217.4 47.2 162.4 83.4 79.0 79.0 406.6 21.7 141.9 247.6 184.1 262.4 138.5 123.9 77.8 212.4 17.1 65.3 20.3 32.5 12.1 57.8 7.7			
services	1,031.6 42.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 7 18.5 31.7 18.5 31.7 11.0 49.1	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4 116.4 73.8 205.2 16.4 63.4 19.5 32.0 12.1 54.4	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.4 18.9 31.8 10.6 59.3	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 160.7 227.3 160.7 106.4 68.1 193.8 14.5 58.2 19.0 32.3 11.4	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 113.4 70.7 199.4 15.4 62.5 19.0 32.0 12.3 50.9	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 53.6	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 1355.5 116.3 74.3 205.5 17.0 62.7 19.4 32.1 11.4 32.1 11.4 55.4	1,217.4 47.2 162.4 83.4 79.0 406.6 21.7 141.9 247.6 184.1 262.4 138.59 123.9 77.8 212.4 17.1 65.3 20.3 32.5 12.1 15.7.8			
services	1,031.6 42.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 18.5 31.7 11.0 49.1 7.3 3 -2.3	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4 116.4 73.8 205.2 16.4 63.4 19.5 32.0 12.1 54.4 7.6 -5.3	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.4 18.9 31.8 10.6 50.3 7.6.6 -3.2	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 32.3 11.4 51.0 7.5 6	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 15.4 62.5 19.0 32.0 21.3 50.9 7.4 8	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 53.6 7.6 6 -5.5	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 17.0 62.7 19.4 32.1 11.4 55.4 7.7,7 -5.9	1,217.4 47.2 162.4 83.4 79.0 406.6 21.7 141.9 247.6 184.1 262.4 138.5 123.9 77.8 212.4 17.1 65.3 20.3 32.5 12.1 57.8 7.7 -8.3			
services	1,031.6 42.2 78.2 77.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 18.5 31.7 11.0 49.1 7.3 -2.3 62.6	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4 116.4 73.8 205.2 16.4 63.4 19.5 32.0 12.1 54.4 63.5	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.4 18.9 31.8 10.6 50.4 37.6 -3.2 58.7	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 32.3 11.4 51.6 (5.2) 9.0 32.3 11.4 5.5 (5.2) 9.0 32.3 11.4 5.5 (5.2) 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 15.4 62.5 19.0 32.0 12.3 50.9 9 7.4 8 58.8	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 12.5 53.6 67.6 -5.5 62.7	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 17.0 62.7 19.4 32.1 11.4 55.4 7.7 9.6 66.6	1,217.4 47.2 162.4 83.4 79.0 79.0 406.6 21.7 141.9 247.6 184.1 262.4 138.5 123.9 77.8 212.4 17.1 65.3 20.3 32.5 12.1 57.8 7,7 -8.3 66.0			
services	1,031.6 42.2 78.2 71.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 18.5 31.7 11.0 49.1 7.3 3 -2.3	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4 116.4 73.8 205.2 16.4 63.4 19.5 32.0 12.1 54.4 7.6 -5.3	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.4 18.9 31.8 10.6 50.3 7.6.6 -3.2	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 32.3 11.4 51.0 7.5 6	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 15.4 62.5 19.0 32.0 21.3 50.9 7.4 8	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 53.6 7.6 6 -5.5	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 17.0 62.7 19.4 32.1 11.4 55.4 7.7,7 -5.9	1,217.4 47.2 162.4 83.4 79.0 406.6 21.7 141.9 247.6 184.1 262.4 138.5 123.9 77.8 212.4 17.1 65.3 20.3 32.5 12.1 57.8 7.7 -8.3			
services	1,031.6 42.2 78.2 77.9 81.4 328.3 20.7 101.3 206.7 148.6 222.3 117.1 105.3 60.4 190.7 14.4 58.7 18.5 31.7 11.0 49.1 7.3 -2.3 62.6	1,162.7 46.1 156.8 81.0 75.7 81.9 378.7 21.7 131.8 229.1 178.0 247.6 131.4 116.4 73.8 205.2 16.4 63.4 7.6 -5.3 63.5 686.3	1,037.9 42.6 153.3 80.2 73.0 84.9 330.3 21.3 101.7 207.3 144.3 225.5 118.6 107.0 60.1 193.1 14.6 59.4 18.9 31.8 10.6 50.4 37.6 -3.2 58.7	1,069.7 42.8 151.1 79.6 71.4 79.2 339.6 22.8 110.5 207.3 160.7 227.3 121.0 106.4 68.1 193.8 14.5 58.2 19.0 32.3 11.4 51.6 (5.2) 9.0 32.3 11.4 5.5 (5.2) 9.0 32.3 11.4 5.5 (5.2) 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5	1,102.0 43.7 151.1 78.7 72.3 80.6 347.5 20.7 117.7 211.7 170.4 235.7 122.3 113.4 70.7 199.4 15.4 62.5 19.0 32.0 12.3 50.9 7.4 8 58.8 6666.7	1,142.5 46.0 154.5 80.7 73.7 85.3 370.5 21.0 130.8 223.0 173.4 240.8 129.1 111.9 72.2 203.7 16.2 63.1 19.3 31.5 53.6 7.6 -5.5 62.7 671.1	1,188.9 47.2 159.0 81.2 77.8 82.7 390.0 23.2 136.9 234.0 184.1 251.6 135.5 116.3 74.3 205.5 17.0 62.7 19.4 32.1 11.4 55.4 7.7 9.6 66.6	1,217.4 47.2 162.4 83.4 79.0 406.6 21.7 141.9 247.6 184.1 262.4 184.1 262.4 184.5 123.9 77.8 212.4 17.7 212.4 165.3 20.3 32.5 12.1 57.8 7.7 -8.3 66.0 711.0			

NoTE-Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line following the detail for exports is the difference between the aggregate "exports of goods and services" and the sum of the detailed lines for exports of goods and exports of services. The residual line following the detail for imports is the difference between the aggregate "imports of goods and services" and the sum of the detail for imports of end end to detail exports. The detailed lines for imports of goods and imports of services. Chain-type quantity indexes for the series in this table are shown in table 7.10. Contributions to the percent change in real exports and in real imports of goods and services are shown in

table 8.5. See footnotes to table 4.3.

5. Saving and Investment_

Table 5.1.-Gross Saving and Investment

[Billions of dollars]

			S	easonall	y adjuste	ed at an	nual rate	S
	1998	1999	19	98		19	99	
			Ш	IV	I	Ш	Ш	IV
Gross saving	1,646.0		1,664.1	1,685.4	1,727.8	1,709.5	1,735.6	
Gross private saving Personal saving Undistributed corporate profits with inventory valuation and capital consumption adjustments Undistributed profits Inventory valuation adjustment Capital consumption adjustment Capital consumption of fixed capital Noncorporate consumption of fixed capital Wage accruals less disbursements Gross government saving Federal	20.9 43.3 619.2 261.5 3.5 274.8	158.3 52.0 666.3 279.0 0	1,367.7 224.8 251.1 187.4 19.8 43.9 625.0 263.3 3.5 296.4 147.1	1,382.3 227.5 246.5 178.8 20.8 46.9 637.1 267.7 3.5 303.0 147.8	1,389.4 195.1 277.6 213.7 13.3 50.6 645.8 271.0 0 338.3 187.2	1,359.3 168.0 259.5 219.9 -13.6 53.2 657.2 274.6 0 350.2 208.3	139.5	130.8 52.1 685.6 283.2 0
Consumption of fixed capital Current surplus or deficit (-), national income and product accounts State and local Consumption of fixed capital Current surplus or deficit (-), national income and product accounts	87.4 46.9 140.5 98.8	90.8	87.5 59.6 149.3 99.4 49.9	88.1 59.7 155.2 101.1 54.2	89.6 97.6 151.1 102.4 48.7	90.2 118.1 141.9 104.3 37.6	91.2 133.8 154.8 106.0 48.9	92.1 107.8
Gross investment	1,598.4		1,576.2	1,623.0	1,628.4	1,574.0	1,594.4	
Gross private domestic investment	1,531.2 268.7 –201.5	1,621.6 296.4	1,535.3 273.5 –232.6	272.6	289.8	292.2	295.7	308.1
Statistical discrepancy	-47.6		-87.9	-62.4	-99.4	-135.5	-141.2	
Addendum: Gross saving as a percentage of gross national product	18.8		19.0	18.9	19.1	18.7	18.7	

Table 5.4.-Private Fixed Investment by Type

[Billions of dollars]

			S	easonall	lly adjusted at annual rates						
	1998	1999	19	98		19	99				
			Ш	IV	I	Ш	Ш	IV			
Private fixed investment	1,460.0	1,577.4	1,461.7	1,508.9	1,543.3	1,567.8	1,594.2	1,604.1			
Nonresidential	1,091.3	1,166.5	1,087.2	1,121.4	1,139.9	1,155.4	1,181.6	1,189.1			
Structures Nonresidential buildings,	272.8										
including farm Utilities Mining exploration, shafts, and wells Other structures	197.0 39.2	199.8 39.2		203.3 40.1	204.0 39.2		197.5 39.9	198.0 38.8			
	30.0 6.5	26.9 6.7		28.0 6.6							
Equipment and software	818.5	893.9	815.4	843.4	865.2	882.9	909.5	918.1			
Information processing equipment and software Computers and	356.9	407.2	361.0	369.7	382.3	401.7	416.8	428.2			
peripheral equipment ¹ Software ²	88.5 123.4	98.3 143.3	126.2	90.5 131.2	135.5	140.7	145.8	151.4			
Other Industrial equipment Transportation equipment Other	144.9 150.2 176.0 135.5	165.6 151.4 198.2 137.0	150.9 164.9	148.0 151.4 187.0 135.3	147.9 193.1	193.6	153.0 204.9	155.5			
Residential	368.7	410.9	374.5	387.5	403.4	412.4	412.7	415.0			
Structures Single family Multifamily Other structures	360.4 189.5 24.5 146.5	401.9 213.5 27.7 160.7	194.0 24.1	379.1 202.2 24.8 152.1			211.7 27.8	216.7			
Equipment	8.3	8.9	8.4	8.5	8.7	8.9	9.0	9.1			

Includes new computers and peripheral equipment only.
 Excludes software "embedded," or bundled, in computers and other equipment.

Table 5.5.-Real Private Fixed Investment by Type

[Billions of chained (1996) dollars]

	Seasonally adjusted at annual rates							
	1998	1999	19	98		19	99	
			Ш	IV	I	Ш	Ш	IV
Private fixed investment	1,471.8	1,589.4	1,474.0	1,522.5	1,555.9	1,581.0	1,607.3	1,613.5
Nonresidential	1,122.5	1,215.4	1,120.3	1,160.8	1,182.7	1,202.9	1,234.3	1,241.9
Structures	254.1	247.3	252.1	255.7	251.9	248.5	246.1	242.8
Nonresidential buildings, including farm Utilities Mining exploration, shafts, and wells Other structures	184.6 38.0	180.2 38.0	184.2 37.9	187.4 38.7	186.6 38.1	181.2 38.0	177.2 38.5	175.9 37.2
	25.4 6.2	23.2 6.2	24.2 5.9	23.6 6.2	21.6 6.0	22.6 7.1	24.3 6.3	24.5 5.4
Equipment and software	870.6	975.5	870.6	908.5	935.7	960.9	996.6	1,008.7
Information processing equipment and software Computers and	418.5	510.3	427.4	448.5	470.4	501.0	526.0	543.6
peripheral equipment ¹ Software ² Other Industrial equipment Transportation equipment Other	154.2 129.2 147.1 148.1 175.3 132.3	222.0 149.2 169.8 148.4 196.7 132.3	160.4 131.9 148.3 148.7 164.2 135.1		141.6 157.8 145.0 190.8	147.0 168.4 146.6 191.6	152.0 174.7 150.0 204.0	178.5 151.9
Residential	350.2	375.4	354.2	362.6	373.7	378.8	375.1	374.0
Structures Single family Multifamily Other structures	341.8 180.3 21.8 139.8	366.3 194.4 23.0 149.0	345.8 184.0 21.2 140.7				191.7	364.7 194.3 22.7 147.8
Equipment	8.4	9.1	8.4	8.5	8.9	9.1	9.2	9.3
Residual	-18.9	-52.1	-21.1	-28.7	-35.7	-46.6	-58.6	-67.6

Includes new computers and peripheral equipment only.
 Excludes software "embedded," or bundled, in computers and other equipment.

NOTE-Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines. Chain-type quantity indexes for the series in this table are shown in table 7.6. Contributions to the percent change in real private fixed investment are shown in table 8.4.

Table 5.10.-Change in Private Inventories by Industry Group

[Billions of dollars]

			Seas	sonally	adjuste	ed at ar	nnual ra	ates
	1998	1999	19	98		199	99	
			III	IV	Ι	Ш	Ш	IV
Change in private inventories	71.2	44.3	73.7	71.4	51.0	17.6	40.8	67.6
Farm	.3	3.3	-1.1	15.2	10.1	4.8	.7	-2.5
Nonfarm	70.9	41.0	74.7	56.2	40.9	12.8	40.1	70.1
Change in book value ¹ Inventory valuation adjustment ²	45.7 25.2	56.1 -15.1	49.7 25.0	33.7 22.5	22.8 18.2	32.1 -19.3	73.7 -33.6	96.0 -25.9
Manufacturing	24.1	.9	21.2	11.5	0	-7.8	1.6	9.7
Durable goods Nondurable goods	16.4 7.8	.7 .2	12.8 8.4	6.5 5.1	1.7 -1.7	-6.2 -1.6	1.6 0	5.5 4.2
Wholesale trade	22.4	.2 15.0	32.3	16.3	8.8	10.7	24.2	16.5
Durable goods	16.0	13.2	18.2	15.2	11.3	10.7	10.6	20.2
Nondurable goods	6.4	1.9	14.1	1.1	-2.6	.2	13.6	-3.8
Merchant wholesalers	19.6	13.6	29.1	13.9	7.5	8.3	22.0	16.8
Durable goods	14.0	11.6	16.1	13.6	9.8	7.0	9.6	19.8
Nondurable goods Nonmerchant wholesalers	5.7 2.8	2.1 1.4	13.0 3.2	.2 2.4	-2.3 1.3	1.3 2.4	12.4 2.2	-3.1 3
Durable goods	2.0	1.6	2.1	1.6	1.5	3.5	1.0	3
Nondurable goods	.7	2	1.1	.9	2	-1.1	1.2	7
Retail trade	11.1	19.2	10.9	15.6	17.5	5.9	14.3	39.3
Durable goods	5.3	11.6	7.7	16.0	9.4	4.0	11.7	21.2
Motor vehicle dealers ³ Other ³	1.3 4.0	6.2 5.4	4.2 3.4	7.6 8.4	3.1 6.3	0 4.0	9.2 2.6	12.3 8.9
Nondurable goods	5.8	7.7	3.4	0.4 4	0.3 8.1	4.0	2.0	0.9 18.1
Other	13.2	5.8	10.3	12.8	14.7	4.0	0	4.7
Durable goods	1.3	0	1.1	1.0	1.7	-2.0	-1.0	1.2
Nondurable goods	12.0	5.9	9.2	11.8	13.0	6.0	1.0	3.4

This series is derived from the Census Bureau series "current cost inventories."
 The inventory valuation adjustment (IVA) shown in this table differs from the IVA that adjusts business incomes. The IVA in this table reflects the mix of methods (such as first-in, first-out and last-in, first-out) underlying inventories derived primarily from Census Bureau statistics (see footnote 1). This mix differs from that underlying business income derived primarily from Internal Revenue Service statistics.
 Inventories of auto and home supply stores are included in "other durable goods."

Table 5.11.-Real Change in Private Inventories by Industry Group [Billions of chained (1996) dollars]

				-							
			Sea	sonally	adjuste	adjusted at annual rates					
	1998	1999	19	98		19	99				
			Ш	IV	Ι	II	=	IV			
Change in private inventories	74.3	41.9	76.1	70.7	50.1	14.0	38.0	65.4			
Farm	.9	7	-2.1	12.8	7.4	.9	-3.8	-7.2			
Nonfarm	73.2	42.2	77.5	58.2	43.1	13.1	41.2	71.4			
Manufacturing Durable goods Nondurable goods	25.1 16.9 8.1	.9 .7 .2	22.2 13.4 8.8	12.0 6.8 5.3	0 1.8 –1.8	-8.3 -6.6 -1.7	1.7 1.8 0	10.2 5.9 4.3			
Wholesale trade Durable goods Nondurable goods	23.4 16.3 7.1	15.7 13.7 2.0	33.8 18.6 15.3	17.2 15.5 1.4	9.5 11.8 –2.4	11.1 11.0 .1	25.1 11.1 14.0	16.9 21.0 -3.8			
Merchant wholesalers Durable goods Nondurable goods Nonmerchant wholesalers Durable goods Nondurable goods	20.4 14.2 6.2 3.0 2.1 .9	14.2 12.0 2.2 1.5 1.7 –.2	30.4 16.5 14.0 3.4 2.1 1.3	14.6 13.9 .5 2.6 1.6 1.0	8.2 10.2 -2.1 1.4 1.6 3	8.6 7.3 1.3 2.5 3.7 –1.2	22.8 10.0 12.8 2.3 1.1 1.2	17.3 20.6 -3.1 4 .4 7			
Retail trade Durable goods Motor vehicle dealers ¹ Other ¹ Nondurable goods	11.1 5.3 1.3 4.0 5.8	19.0 11.6 6.2 5.4 7.4	11.0 7.7 4.3 3.4 3.3	15.5 16.0 7.6 8.4 –.3	17.5 9.5 3.1 6.3 8.0	5.9 4.0 0 4.0 1.9	14.1 11.8 9.3 2.5 2.5	38.6 21.3 12.4 8.9 17.4			
Other Durable goods Nondurable goods	13.9 1.2 12.6	6.1 0 6.2	10.8 1.1 9.7	13.6 1.0 12.6	15.7 1.7 14.0	4.1 -2.0 6.3	.1 –1.0 1.1	4.7 1.2 3.5			
Residual	.1	.8	.3	5	.2	.1	.5	1.8			

1. Inventories of auto and home supply stores are included in "other durable goods."

NOTE.-Chained (1996) dollar series for real change in private inventories are calculated as the period-to-period change in chained-dollar end-of-period inventories. Quarterly changes in end-of-period inventories are stated at an-nual rates. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines.

Table 5.12.-Private Inventories and Domestic Final Sales of Business by **Industry Group**

[Billions of dollars]

	-							
	Seasonally adjusted quarterly totals							
	19	98		19	99			
	- 111	IV	I	Ш	Ш	IV		
Private inventories ¹	1,326.6	1,334.5	1,345.7	1,360.1	1,386.1	1,408.0		
Farm	92.3	92.4	99.3	98.9	96.7	95.2		
Nonfarm Durable goods Nondurable goods	1,234.3 689.1 545.2	1,242.1 694.0 548.1		1,261.3 697.8 563.5		1,312.8 721.3 591.5		
Manufacturing Durable goods Nondurable goods	453.9 282.8 171.0	450.5 280.3 170.2	448.2 279.2 169.0	451.1 279.4 171.6	282.5	463.8 283.9 179.9		
Wholesale trade Durable goods Nondurable goods	338.1 216.0 122.1	341.8 218.9 122.9	340.9 217.9 123.1	345.1 220.9 124.3		361.9 230.1 131.8		
Merchant wholesalers Durable goods Nondurable goods Nonmerchant wholesalers Durable goods Nondurable goods	293.0 188.2 104.9 45.0 27.9 17.2	296.6 190.8 105.8 45.3 28.1 17.1		298.2 192.0 106.2 46.9 28.8 18.1	194.9 112.1			
Retail trade Durable goods Motor vehicle dealers ² Other ² Nondurable goods	339.4 182.3 93.6 88.6 157.1	344.0 186.6 95.8 90.9 157.4	347.3 187.1 95.3 91.8 160.2	351.1 189.2 95.8 93.4 161.9	93.8	368.9 199.0 102.8 96.2 169.8		
Other Durable goods Nondurable goods	103.0 7.9 95.1	105.7 8.1 97.6	109.9 8.6 101.3	113.9 8.3 105.7	109.4	118.3 8.2 110.0		
Final sales of domestic business ³ Final sales of goods and structures of domestic business ³	613.2 335.3	624.7 344.0	634.8 350.1	642.6 353.6	651.8 357.8	663.1 363.2		
Ratio of private inventories to final sales of domestic business								
Private inventories to final sales Nonfarm inventories to final sales Nonfarm inventories to final sales of goods and	2.16 2.01	2.14 1.99	2.12 1.96	2.12 1.96		2.12 1.98		
structures	3.68	3.61	3.56	3.57	3.60	3.61		

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

2. Inventories of auto and home supply stores are included in "other durable goods." 3. Quarterly totals at monthly rates. Final sales of domestic business equals final sales of domestic product less gross product of households and institutions and of general government, and it includes a small amount of final sales by farm and by government enterprises.

Table 5.13.-Real Private Inventories and Real Domestic Final Sales of **Business by Industry Group**

[Billions of chained (1996) dollars]

	s	easonall	y adjust	ed quart	erly total	s
	19	98		19	99	
	Ш	IV	I	Ш	Ш	IV
Private inventories ¹	1,377.6	1,395.3	1,407.8	1,411.3	1,420.8	1,437.1
Farm	104.4	107.6	109.4	109.7	108.7	106.9
Nonfarm Durable goods Nondurable goods	1,272.9 706.3 566.6	716.2	722.5	1,301.4 724.1 577.3	1,311.7 730.0 581.7	1,329.6 742.5 587.2
Manufacturing Durable goods Nondurable goods	474.2 294.6 179.6	477.2 296.2 180.9	477.2 296.7 180.5	475.1 295.1 180.0	295.5	478.1 297.0 181.1
Wholesale trade Durable goods Nondurable goods	351.2 220.7 130.4	355.4 224.6 130.8	357.8 227.6 130.2	360.6 230.3 130.2		371.1 238.3 132.7
Merchant wholesalers Durable goods Nondurable goods Nonmerchant wholesalers	304.0 192.2 111.8 47.2	307.6 195.7 111.9 47.8	309.7 198.3 111.3 48.1	311.8 200.1 111.7 48.8	202.6	321.9 207.8 114.1 49.3
Durable goods Nondurable goods	28.5 18.7	28.9 18.9	29.3 18.8	30.2 18.6	30.5 18.9	30.6 18.7
Retail trade Durable goods Motor vehicle dealers ² Other ² Nondurable goods	339.0 183.3 95.1 88.2 155.6	342.9 187.3 97.0 90.3 155.5	347.2 189.7 97.8 91.9 157.5	348.7 190.7 97.8 92.9 158.0	352.2 193.6 100.1 93.5 158.6	361.9 198.9 103.2 95.7 163.0
Other Durable goods Nondurable goods	108.9 7.8 101.0	112.3 8.1 104.2	116.2 8.5 107.7	117.2 8.0 109.3	117.2 7.7 109.5	118.4 8.0 110.4
Residual	.1	.1	.1	1	.3	.6
Final sales of domestic business ³	597.0	607.4	615.0	620.7	628.3	636.1
Final sales of goods and structures of domestic business ³	332.5	341.4	346.7	349.3	353.3	357.7
Ratio of private inventories to final sales of domestic business						
Private inventories to final sales Nonfarm inventories to final sales Nonfarm inventories to final sales of goods and	2.31 2.13	2.30 2.12	2.29 2.11	2.27 2.10	2.26 2.09	2.26 2.09
structures	3.83	3.77	3.74	3.73	3.71	3.72

 Inventories are as of the end of the quarter. The quarter-to-quarter changes calculated from this table are at quarterly rates, whereas, the change in private inventories component of GDP is stated at annual rates.
 Inventories of auto and home supply stores are included in "other durable goods."
 Quarterly totals at monthly rates. Final sales of domestic business equals final sales of domestic product less gross product of households and institutions and of general government, and it includes a small amount of final cales bu trans active group of the same state. sales by farm and by government enterprises.

Sales by fain and by government enterprises. NOTE.-Chained (1996) dollar inventorry series are calculated to ensure that the chained (1996) dollar change in inventories for 1996 equals the current-dollar change in inventories for 1996 and that the average of the 1995 and 1996 end-of-year chain-weighted and fixed-weighted inventories are equal. Chained (1996) dollar final sales are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference be-tween the first line and the sum of the most detailed lines for inventories.

6. Income and Employment by Industry_____

Table 6.1C.–National Income Without Capital Consumption Adjustment by Industry Group

[Billions of dollars]

	•							
			S	easonall	y adjuste	ed at an	nual rate	S
	1998	1999	19	98		19	99	
			111	IV	I	Ш	Ш	IV
National income without capital consumption adjustment	7,004.4		7,054.5	7,159.6	7,297.4	7,383.3	7,488.9	
Domestic industries	7,014.3		7,080.1	7,176.7	7,311.9	7,397.6	7,504.4	
Private industries	6,104.4		6,165.5	6,253.4	6,373.9	6,453.1	6,549.4	
Agriculture, forestry, and fishing Mining Construction	102.5 54.7 342.0		100.4 53.5 345.4		49.9	116.8 49.2 371.0	51.4	
Manufacturing Durable goods Nondurable goods	689.0		1,165.4 694.1 471.3	703.2	699.0	706.5	711.7	
Transportation and public utilities Transportation Communications Electric, gas, and sanitary services	222.3 166.9		532.7 224.5 169.0 139.2	227.5 167.6	228.8 174.7	543.9 229.0 176.0 138.9	234.5 181.0	
Wholesale trade Retail trade Finance, insurance, and real estate Services	580.8 1,274.3		416.7 584.9 1,288.1 1,678.3	591.5 1,311.0	609.8 1,348.3	1,361.5	618.8 1,392.0	
Government	909.9		914.6	923.3	938.0	944.5	955.0	
Rest of the world	-9.9		-25.6	-17.1	-14.4	-14.3	-15.5	

NOTE.-Estimates in this table are based on the 1987 Standard Industrial Classification (SIC).

Table 6.16C.-Corporate Profits by Industry Group

[Billions of dollars]

·			.1					
			Sea	sonally	adjuste	ed at ar	nnual ra	ates
	1998	1999	19	98		19	99	
			Ш	IV	Ι		III	IV
Corporate profits with inventory valuation and capital consumption adjustments	846.1		843.8	834.3	882.0	875.5	879.2	
Domestic industries	746.0		757.2	736.0	777.7	772.1	771.1	
Financial Nonfinancial			168.7 588.5	168.0 568.0	185.2 592.5	177.4 594.7		
Rest of the world	100.0		86.6	98.3	104.3	103.3	108.1	
Receipts from the rest of the world Less: Payments to the rest of the world			137.1 50.5	146.8 48.5	157.0 52.7	164.1 60.8		
Corporate profits with inventory valuation adjustment	802.8		799.9	787.4	831.4	822.2	827.1	
Domestic industries	191.3 24.6.7 511.5 51.5 511.5		97.2 5.0 19.9 15.7 16.9 6.6 33.1 74.7 21.3 19.0 6.8 27.5	689.1 188.6 24.7 163.9 500.6 161.7 106.3 5.0 17.0 19.4 21.4 9.8 33.7 55.5 7.1 20.0 4.1 24.2 106.9 19.7 4.8 40.5 41.2 2.69.0 121.7	727.1 205.3 24.3 180.9 521.9 171.0 100.5 1.7 19.4 16.6 20.5 10.7 31.6 70.5 17.2 25.1 17.2 25.1 17.2 25.1 17.2 41.5 43.4 4.5 77 119.8	718.9 198.3 24.5 173.7 520.6 167.8 100.7 1.2 19.0 18.6 10.4 32.0 67.0 18.6 20.8 32.8.0 107.9 25.5 38.2 44.3 75.4 125.2	203.9 25.5 178.4 515.1 163.1 94.4 19.4 17.1 20.8 9.5 27.2 68.7 18.7 17.4 3.6 29.0 117.3 17.7 56.4 43.2 9.9 17.7 56.4	
Rest of the world	100.0		86.6	98.3	104.3	103.3	108.1	

NOTE .- Estimates in this table are based on the 1987 Standard Industrial Classification.

7. Quantity and Price Indexes_

Table 7.1.-Quantity and Price Indexes for Gross Domestic Product

[Index numbers, 1996=100]

				Se	easonally	/ adjuste	ed					Seasonally adjusted					
	1998	1999	19	98		19	99			1998	1999	19	98		199	99	
			111	IV	Ι	Ш	Ш	IV				III	IV	I	П	Ш	IV
Gross domestic product: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Personal consumption	112.12 109.00 102.86 102.86	118.37 113.41 104.32 104.37	109.25 103.06	114.52 110.83 103.28 103.33	111.84 103.79	117.06 112.36 104.13 104.19	113.92 104.41		Exports of goods and services: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	110.54 115.21 95.95 95.95	119.26 95.55	108.57 113.60 95.57 95.57	112.32 117.92 95.25 95.25	110.61 116.27 95.13 95.13	111.90 117.41 95.30 95.30	115.36 120.66 95.61 95.61	118.00 122.68 96.18 96.18
expenditures: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	111.67 108.80 102.63 102.63	114.53 104.27	102.78	110.66 103.08	112.43	118.39 113.83 104.01 104.01	115.19	122.66 116.68 105.13 105.13	Exports of goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	110.17 116.89 94.25 94.25	112.79 121.33 92.95 92.96	107.89 115.14 93.70 93.70	112.11 120.35 93.15 93.15	109.04 117.46 92.83 92.83	110.04 118.71 92.69 92.69	114.61 123.43 92.85 92.85	117.48 125.72 93.44 93.44
Durable goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	113.26 118.66 95.45 95.45	122.98 132.23 93.00 93.01		117.25 124.26 94.34 94.36	119.88 127.95 93.67 93.69	121.92 130.76 93.22 93.24	123.58 133.21 92.75 92.77	136.98	Exports of services: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	111.46 111.19 100.24 100.24	114.39 102.11	110.23 109.93 100.27 100.27	112.83 112.22 100.55 100.55	114.41 113.35 100.94 100.94	116.39 114.24 101.88 101.88	117.18 114.26 102.56 102.56	119.25 115.70 103.07 103.07
Nondurable goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Services:	108.56 107.07 101.40 101.40	116.96 112.74 103.74 103.75	107.49 101.46	110.73 108.80 101.78 101.77	113.58 111.15 102.19 102.19	115.93 112.05 103.47 103.47	117.78 113.04 104.20 104.19	114.73	Imports of goods and services: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	115.86 126.89 91.31 91.31		115.75 127.81 90.55 90.56	118.68 131.14 90.48 90.50	121.32 135.07 89.81 89.82	127.09 139.69 90.96 90.98	133.59 144.63 92.35 92.36	138.43 148.33 93.31 93.33
Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Gross private domestic	112.95 107.80 104.78 104.78	119.98 112.14 106.99 106.99	108.62 105.04	115.13 109.03 105.60 105.60	110.16 106.19	106.63	112.92 107.19		Imports of goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	115.10 127.62 90.19 90.19	143.84 90.14	114.70 128.40 89.30 89.33	117.85 132.33 89.03 89.06	120.53 136.33 88.38 88.41	126.47 141.34 89.46 89.48	133.51 147.08 90.75 90.78	138.54 150.60 91.96 91.99
investment: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	123.22 124.52 98.96 98.95	130.49 131.67 98.81 99.11	123.55 124.82 98.89 98.98	127.17 128.26 98.85 99.14	128.30 129.41 98.87 99.14	127.58 128.74 98.78 99.10	132.90 98.70	98.90	Imports of services: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	119.86 123.21 97.29 97.29	131.90 132.59 99.47 99.48	121.24 124.75 97.21 97.19	123.03 125.24 98.26 98.24	125.48 128.81 97.43 97.41	99.03	133.97 132.74 100.95 100.93	137.85 137.24 100.47 100.45
Fixed investment: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	120.40 121.37 99.20 99.20	130.07 131.06 99.24 99.24	120.53 121.55 99.16 99.16	124.43 125.55 99.11 99.11	127.26 128.30 99.19 99.19	129.28 130.37 99.17 99.17	131.46 132.54 99.19 99.19	133.05 99.42	Government consumption expenditures and gross investment: Current dollars Chain-type quantity index	104.10	114.54 107.92	108.21 104.46	109.34 105.20	111.76 106.52		115.14 108.06	
Nonresidential: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	121.33 124.80 97.22 97.22	129.69 135.13 95.97 95.97	120.87 124.56 97.03 97.04	124.67 129.06 96.60 96.60	126.74 131.49 96.38 96.39	128.46 133.74 96.04 96.05	131.37 137.23 95.72 95.73	138.08 95.74	Chain-type price index Implicit price deflator Federal: Current dollars Chain-type quantity index			103.60 103.59 101.52 99.14	103.94 103.94 102.84 100.08	104.93 104.92 104.85 99.97	105.69 105.68 105.64 100.49	106.56 106.55 107.20 101.52	107.34 107.33 111.85 105.36
Structures: Current dollars	121.25	121.16	120.78	123.56	122.12	121.12	120.94	120.48	Chain-type price index Implicit price deflator		105.45	102.41 102.41	102.76 102.75	104.89 104.89	105.13	105.60 105.59	106.17
Chain-type quantity index Chain-type price index Implicit price deflator Equipment and	112.93 107.37 107.37	109.92 110.24 110.23	107.79	113.64 108.73 108.73	109.07	110.44 109.67 109.67	109.37 110.58 110.58		National defense: Current dollars Chain-type quantity index. Chain-type price index Implicit price deflator	97.65 95.71 102.03 102.03	97.52	99.34 97.33 102.07 102.07	98.85 96.61 102.32 102.32	99.66 95.64 104.21 104.20	99.25 95.01 104.47 104.46	102.36 97.56 104.93 104.92	107.39 101.87 105.44 105.42
Software: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	121.36 129.09 94.01 94.01	132.54 144.63 91.64 91.64		125.05 134.70 92.81 92.83	128.28 138.74 92.44 92.46	130.90 142.47 91.86 91.88	134.85 147.77 91.24 91.25	149.56 91.00	Nondefense: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	108.87 105.63	118.07 110.62 106.74	102.07 105.98 102.85 103.05 103.04	110.99	115.48 108.77	118.72		
Residential: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	117.71 111.78 105.30 105.30	131.15 119.84 109.48 109.44	113.07 105.76	115.74	128.76 119.30 107.97 107.93	131.66 120.91 108.93 108.89	119.75 110.04	110.99	State and local: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	111.31 107.14 103.89 103.89	111.53 106.53	112.20 107.61 104.27 104.27	113.22 108.23 104.62 104.61	115.88 110.39 104.98 104.97	106.02	119.88 111.93 107.11 107.10	122.20 113.15 108.00 108.00

NOTE.-Chain-type quantity and price indexes are calculated from weighted averages of the detailed output and prices used to prepare each aggregate and component. Implicit price deflators are weighted averages of the detailed price indexes used to prepare each aggregate and component and are calculated as the ratio of current- to chained-

dollar output multiplied by 100. Percent changes from preceding period for items in this table are shown in table 8.1. Contributions to the percent change in real gross domestic product are shown in table 8.2.

Table 7.2.–Quantity and Price Indexes for Gross Domestic Product, Final Sales, and Purchases

[Index numbers, 1996=100]

				easonally adjusted					
	1998	1999	19	98		19	99		
			Ш	IV	I	Ш	Ш	IV	
Gross domestic product: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	112.12 109.00 102.86 102.86	118.37 113.41 104.32 104.37	112.60 109.25 103.06 103.07	114.52 110.83 103.28 103.33	116.12 111.84 103.79 103.83	112.36 104.13	119.00 113.92 104.41 104.46	115.54 104.94	
Final sales of domestic product: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	111.63 108.46 102.93 102.93	118.26 113.24 104.43 104.43	112.09 108.69 103.13 103.13	114.04 110.34 103.36 103.35	115.91 111.59 103.88 103.87	117.29 112.52 104.24 104.23	118.94 113.78 104.54 104.53	115.07 105.07	
Gross domestic purchases: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	112.75 110.39 102.14 102.14	120.29 115.99 103.65 103.71	113.43 110.91 102.26 102.28	115.27 112.39 102.51 102.56	117.36 113.99 102.92 102.96	114.88 103.40			
Final sales to domestic purchasers: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	112.27 109.86 102.20 102.20	120.18 115.83 103.76 103.76	112.93 110.36 102.33 102.33	114.80 111.92 102.58 102.57	117.16 113.75 103.00 103.00	115.06	116.52	117.99 104.56	
Addenda: Final sales of computers ¹ : Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Gross domestic product less final sales of computers:	117.75 223.72 52.63 52.63	125.21 322.25 38.36 38.85	119.86 239.90 49.13 49.96	119.78 262.98 44.74 45.55	117.92 281.68 41.13 41.86		130.61 343.43 37.36 38.03	35.55	
Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Gross domestic purchases less final sales of	112.06 108.17 103.60 103.60	118.30 112.15 105.43 105.48	112.53 108.33 103.86 103.88	114.47 109.80 104.20 104.25	116.10 110.73 104.81 104.85				
computers: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Chain-type price indexes for	112.61 109.35 102.98 102.98	120.06 114.34 104.94 105.00	113.28 109.79 103.18 103.19	115.11 111.11 103.56 103.60	117.20 112.56 104.08 104.12	113.29	120.92 114.90 105.19 105.24	116.61 105.86	
gross domestic purchases: Food Energy goods and services Gross domestic purchases less food and energy	103.71 92.35 102.40	105.72 95.77 103.78	103.88 91.46 102.56	104.55 89.82 102.84	105.11 89.11 103.28	105.37 94.67 103.58	105.92 98.32 103.88		

1. For some components of final sales of computers, includes computer parts.

NOTE.-Percent changes from preceding period for selected items in this table are shown in table 8.1.

Table 7.3.–Quantity and Price Indexes for Gross National Product and Command-Basis Gross National Product

[Index numbers, 1996=100]

Gross national product: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	108.62 102.87	 108.68	114.04 110.35 103.29 103.34	111.39 103.79	111.91	113.46 104.41	
Less: Exports of goods and services and income receipts from the rest of the world: Chain-type quantity index	114.86	 112.79	116.46	115.39	117.27	120.70	
Plus: Command-basis exports of goods and services and income receipts from the rest of the world: Chain-type quantity index	119.68	 117.92	121.53	121.01	121.93	124.29	
Equals: Command-basis gross national product: Chain-type quantity index	109.31	 109.41	111.08	112.20	112.58	113.98	

NOTE.-Percent changes from preceding period for selected items in this table are shown in table 8.1.

Table 7.4.–Chain-Type Quantity and Price Indexes for Personal Consumption Expenditures by Major Type of Product

[Index numbers, 1996=100]

				Se	easonally	/ adjuste	d		
	1998	1999	19	98		19	99		
			III	IV	Ι	Ш	=	IV	
			Chain	-type qu	antity in	dexes			
Personal consumption									
expenditures	108.80	114.53	109.42	110.66	112.43	113.83	115.19	116.68	
Durable goods	118.66	132.23	118.62	124.26	127.95	130.76	133.21	136.98	
Motor vehicles and parts Furniture and household equipment	113.87 125.55	124.07 144.21	111.87 127.38	119.94 131.96	121.09 137.90	123.77 141.65	124.68 146.06	126.74 151.22	
Other	115.78	127.55	116.54	118.84	123.99	125.44	127.87	132.91	
Nondurable goods	107.07	112.74	107.49	108.80	111.15	112.05	113.04	114.73	
Food Clothing and shoes Gasoline, fuel oil, and other	104.40 113.00	108.26 122.89	104.71 113.01	106.29 114.33	106.82 121.72	107.46 122.52	108.15 124.38	110.60 122.95	
energy goods Gasoline and oil Fuel oil and coal Other	101.70 102.83 92.82 110.47	103.06 103.14 102.16 118.53	102.44 103.48 94.28 111.31	101.57 102.87 91.44 112.72	102.28 102.34 101.69 116.12	102.98 102.67 105.38 117.65	103.43 103.25 104.76 118.90	103.54 104.32 96.83 121.46	
Services	107.80	112.14	108.62	109.03	110.16	111.56	112.92	113.90	
Housing	104.28 108.53 100.69 113.87 109.34 104.91 109.27 113.54	106.94 113.45 102.88 120.58 112.49 107.65 119.27 120.07	104.59 111.48 106.12 115.19 109.54 105.15 110.05 114.87	105.10 108.88 97.61 116.46 110.23 105.86 111.36 115.75	105.93 111.57 101.84 118.16 111.01 106.28 114.29 116.98	106.54 113.09 102.72 120.10 112.00	107.25 114.85 105.17 121.39 113.16 108.16 121.63 121.04	108.02 114.28 101.81 122.67 113.79 109.09 123.38 122.83	
Addenda:	110.01	120.01	111.07	110.70	110.00		121.01	122.00	
Energy goods and services ¹ Personal consumption expenditures less food and	101.23	103.01	104.35	99.57	102.09	102.88	104.30	102.77	
energy	110.11	116.43	110.64	112.16	114.12	115.70	117.20	118.68	
			Cha	in-type p	rice inde	exes			
Personal consumption									
expenditures	102.63	104.27	102.78	103.08	103.44	104.01	104.49	105.13	
Durable goods	95.45	93.00	95.29	94.34	93.67	93.22	92.75	92.37	
Motor vehicles and parts Furniture and household equipment	99.10 90.35	99.32 84.96	99.60 89.61	99.03 88.01	98.86 86.84	98.93 85.56	99.54 84.33	99.95 83.11	
Other	98.27	96.69	97.97	97.66	97.02	97.31	96.29	96.15	
Nondurable goods	101.40	103.74	101.46	101.78	102.19	103.47	104.20	105.09	
Food Clothing and shoes Gasoline, fuel oil, and other	104.01 98.00	106.13 96.37	104.21 98.07	104.83 97.83	105.47 95.89	105.79 96.82	106.35 95.79	106.93 97.00	
energy goods	88.80	95.83	87.44	85.19	84.06	94.71	100.08	104.47	
Gasoline and oil Fuel oil and coal Other	88.46 91.65 102.85	96.21 93.01 106.87	87.03 90.99 103.11	84.82 88.34 104.07	83.79 86.26 106.17	95.44 89.13 106.52	100.84 94.22 107.31	104.77 102.44 107.50	
Services	104.78	106.99	105.04		106.19	106.63	107.19	107.96	
Housing	106.24		106.66	107.68	108.22	109.02	109.56	110.32	
Household operation	100.74	100.73	100.66	100.55	100.61	100.42	100.67	101.23	
Electricity and gas Other household operation	98.83 101.90	98.47 102.13	98.49 101.99	97.78 102.24	97.85 102.30	97.87 101.99	98.82 101.82	99.34 102.41	
Transportation	104.71 104.67	105.80 107.36	104.94 104.98		105.27 106.58	105.88 107.00	105.84 107.64	106.23 108.23	
Medical care Recreation	105.87	107.97	106.06	106.28	106.74	107.12	108.49	109.51	
Other Addenda: Energy goods and services ¹	104.88 93.57	107.07 97.05	105.08 92.71	105.69 91.19	106.23 90.63	106.58 96.19	107.20 99.43	108.25 101.96	
Personal consumption expenditures less food and energy	102.93	104.38	103.13	103.47	103.84	104.17	104.47	105.03	

1. Consists of gasoline, fuel oil, and other energy goods and of electricity and gas.

Table 7.6.-Chain-Type Quantity and Price Indexes for Private Fixed Investment by Type

[Index numbers, 1996=100]

	Index	numbers	s, 1996=	100]				
				S	easonally	/ adjuste	d	
	1998	1999	19	98		19	99	
			Ш	IV	I	Ш	Ш	IV
			Chain	-type qu	antity in	dexes		
Private fixed			404 55	405 55	400.00	400.07	400 54	400.05
investment	121.37	131.06			128.30	130.37	132.54	133.05
Nonresidential	124.80	135.13	124.56	129.06	131.49	133.74	137.23	138.08
Structures	112.93	109.92	112.05	113.64	111.96	110.44	109.37	107.91
Nonresidential buildings, including farm	114.18	111.49	113.94	115.95	115.42	112.07	109.64	108.84
Utilities	105.31	105.30	105.09	107.38	105.81	105.42	106.80	103.17
Mining exploration, shafts,	120.22	110.16	114.94	111 06	102.20	106.05	115.42	115.06
and wells Other structures	120.22	110.16	95.89	111.86 100.09	102.30 96.84	106.95 115.18		115.96 87.33
Equipment and software	129.09	144.63	129.09	134.70	138.74	142.47	147.77	149.56
Information processing	120.00	144.00	120.00	104.70	100.74	142.47	141.11	145.00
equipment and software	145.69	177.62	148.79	156.14	163.75	174.39	183.12	189.23
Computers and peripheral equipment ¹	217.67	313.28	226.43	251.60	272.99	300.52	329.49	350.14
Software ²	135.81	156.83	138.65	144.82	148.87	154.54	159.80	164.09
Other	121.33	140.06		124.40	130.09	138.89	144.05	147.21
Industrial equipment	108.56				106.30	107.42	109.95	111.33
Transportation equipment Other	126.19	141.64 118.29	118.22 120.78	133.75 117.17	137.34 122.50	137.90 119.19	146.87 116.34	144.43 115.14
Residential	111.78	119.84	113.07	115.74	119.30	120.91	119.75	119.39
Single family	111.84 113.32	119.86	113.14 115.64	115.84 118.98	119.38 123.05	120.96 123.02	119.74 120.48	119.34 122.10
Multifamily	107.06	112.96	104.36	103.85	114.69	112.78	112.55	111.82
Other structures	110.80	118.11	111.50	113.93	115.49	119.77	120.05	117.13
Equipment	109.41	119.19	109.96	111.47	115.80	118.66	120.45	121.86
			Cha	in-type p	price inde	exes		
Private fixed								
investment	99.20	99.24	99.16	99.11	99.19	99.17	99.19	99.42
Nonresidential	97.22	95.97	97.03	96.60	96.38	96.04	95.72	95.74
Structures	107.37	110.24	107.79	108.73	109.07	109.67	110.58	111.65
Nonresidential buildings,	100 70	110.00	107.00	100 50	100.25	110.00	111 10	110 54
including farm Utilities	106.72	110.90 103.37	107.23 103.49	108.50 103.52	109.35 102.85	110.29 102.89	111.43 103.53	112.54 104.21
Mining exploration, shafts,								
and wells	118.51	115.83	118.70	118.75	116.65	115.19	114.93	116.54
Other structures	105.26	106.97	105.54	105.81	106.01	106.89	107.32	107.66
Equipment and software	94.01	91.64	93.64	92.81	92.44	91.86	91.24	91.00
Information processing equipment and software	85.26	79.77	84.35	82.31	81.17	80.08	79.15	78.67
Computers and	E7 00	44.04	E / 00	E0 00	47.00	44.00	10 70	44.00
peripheral equipment ¹ Software ²	57.38 95.54	44.04 96.04	54.92 95.63	50.22 95.20	47.23 95.64	44.82 95.66	42.73 95.92	41.38 96.94
Other	98.50	97.51	98.31	98.10	97.94	97.71	97.43	96.96
Industrial equipment	101.37	102.04		101.73		101.87	102.00	102.36
Transportation equipment	100.38	100.75	100.41	100.65	101.20	101.05	100.43	100.33
Other	102.42		102.64	103.25		103.80	103.55	103.41
Residential	105.30	109.48	105.76	106.93	107.97	108.93	110.04	110.99
Structures	105.45	109.76	105.91	107.12	108.20	109.20	110.34	111.31
Single family	105.06			106.79	108.19	109.15	110.44	111.53
Multifamily Other structures	112.40	120.73 107.87	113.61 105.21	117.59 105.82	118.92	119.98 107.48	121.40 108.39	122.59 109.16
	99.54							
Equipment	99.54	98.10	99.75	99.28	98.60	97.87	97.96	97.96

Includes new computers and peripheral equipment only.
 Excludes software "embedded," or bundled, in computers and other equipment.

Table 7.9.-Chain-Type Quantity and Price Indexes for Exports and Imports of Goods and Services and for Receipts and Payments of Income

[Index numbers, 1996=100]

	•		,					
				Se	easonally	/ adjuste	ed	
	1998	1999	19	98		19	99	
			Ш	IV	Ι	Ш	Ш	IV
			Chain	-type qu	antity in	dexes		
Exports of goods and services Goods ¹ Durable Nondurable Services ¹	115.21 116.89 121.78 106.40 111.19 113.69	127.00 109.13 114.39	113.60 115.14 120.35 103.92 109.93 110.06	117.92 120.35 125.52 109.25 112.22 111.58	117.46	117.41 118.71 123.99 107.39 114.24 116.72	130.01 109.25 114.26	125.72 131.12 114.09 115.70
•	113.69		110.06	111.58	112.41	116.72	120.75	
Imports of goods and services Goods ¹ Durable Nondurable Services ¹ Income payments	126.89 127.62 131.30 120.56 123.21 127.28	143.84 150.64 130.70 132.59	127.81 128.40 131.40 122.71 124.75 130.05	131.14 132.33 137.58 122.15 125.24 128.07	135.07 136.33 141.30 126.71 128.81 127.79	139.69 141.34 147.66 129.07 131.58 132.36	147.08 154.76 132.27 132.74	150.60 158.86
			Cha	in-type p	orice inde	exes		
Exports of goods and services Goods ¹ Durable Nondurable Services ¹	95.95 94.25 94.88 92.71 100.24	95.55 92.95 93.70 91.13 102.11	95.57 93.70 94.46 91.85 100.27	95.25 93.15 94.14 90.72 100.55	95.13 92.83 93.91 90.16 100.94	95.30 92.69 93.68 90.26 101.88	95.61 92.85 93.42 91.47 102.56	96.18 93.44 93.78 92.64 103.07
Income receipts	102.20		102.26	102.49	102.80	103.31	103.77	
Imports of goods and services Goods ¹ Durable Nondurable Services ¹ Income payments	91.31 90.19 90.85 88.74 97.29 101.95	91.61 90.14 89.05 92.62 99.47	90.55 89.30 90.17 87.43 97.21 102.08	90.48 89.03 89.86 87.24 98.26 102.25	89.81 88.38 89.76 85.40 97.43 102.58	90.96 89.46 89.09 90.29 99.03 103.09	92.35 90.75 88.73 95.29 100.95 103.64	93.31 91.96 88.63 99.50 100.47

1. Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Govern-ment, are included in services. Beginning with 1986, repairs and alterations of equipment are reclassified from goods to services.

Table 7.10.–Chain-Type Quantity and Price Indexes for Exports and Imports of Goods and Services by Type of Product [Index numbers, 1996=100]

							lina	ex numbe	rs, 1996=100]								
				Se	easonally	adjuste	ed						S	easonally	/ adjuste	d	
	1998	1999	19	98		19	99			1998	1999	19	98		199	99	
			III	IV	Ι	П	Ш	IV				III	IV	Ι	П	III	IV
			Chain	-type qu	antity inc	lexes						Chai	n-type p	orice inde	exes		
Exports of goods and							400	400.00	Exports of goods and			or					00.45
services	115.21			117.92				122.68	services	95.95	95.55	95.57	95.25	95.13	95.30	95.61	96.18
Exports of goods ¹	116.89	121.33		120.35	117.46			125.72	Exports of goods ¹	94.25	92.95	93.70	93.15	92.83	92.69	92.85	93.44
Foods, feeds, and beverages Industrial supplies and	99.28	102.29	92.48	104.05	95.32	100.96	106.40	106.48	Foods, feeds, and beverages Industrial supplies and	84.15	80.31	83.37	82.24	81.65	80.77	79.75	79.07
materials	107.43							114.98	materials	94.22	92.71	93.18	91.71	90.83	91.24	93.44	95.35
Durable goods Nondurable goods	110.83		107.96 104.34	110.58 106.52	109.69			119.23 112.48	Durable goods Nondurable goods	95.02 93.75	92.53 92.87	94.44 92.43	93.34 90.75	92.48 89.85	92.12 90.75	92.38 94.13	93.13 96.76
Capital goods, except									Capital goods, except								
automotive Civilian aircraft, engines,	128.12	134.47	128.37	133.15	130.16	129.67	139.03	139.00	automotive Civilian aircraft, engines,	92.50	91.08	91.97	91.69	91.50	91.20	90.67	90.95
and parts	165.96	161.76	174.48	196.09	172.66	148.09	163.46	162.86	and parts	104.79	107.08	104.66	105.40	106.49	106.87	107.05	107.93
Computers, peripherals, and	136.93	154.97	139.59	144.32	143.22	153.55	163.27	159.84	Computers, peripherals, and	75.58	68.57	73.31	72.08	70.39	69.12	67.48	67.30
parts Other	119.03					121.66		130.45	parts Other	94.64	93.93	94.51	94.23	94.14	93.98	93.65	93.94
Automotive vehicles, engines,	111 15	112.00	102 02	112 67	109 47	112 22	115 02	115.05	Automotive vehicles, engines,	100.96	101 57	101 00	101 11	101 21	101.39	101.57	102.02
and parts Consumer goods, except	111.40	113.09	103.92	113.67	108.47	113.03	110.03	115.05	and parts Consumer goods, except	100.90	101.57	101.00	101.11	101.31	101.39	101.57	102.02
automotive	112.30			112.43				117.65	automotive	100.76	100.43		100.53	100.34	100.34	100.39	100.65
Durable goods Nondurable goods	112.66		114.83 113.09	112.41	110.56 115.96			119.10 116.14	Durable goods Nondurable goods	100.69 100.83	100.11 100.75	100.51 100.72	100.39 100.69	99.95 100.73	100.03 100.65	100.21 100.57	100.26 101.05
Other	122.15								Other	96.68	95.48	96.32	95.63	95.55	95.02	95.22	96.11
Exports of services 1	111.19	114.39	109.93	112.22	113.35	114.24	114.26	115.70	Exports of services 1	100.24	102.11	100.27	100.55	100.94	101.88	102.56	103.07
Transfers under U.S. military	447.00	100.00	400.00	440.00	440.0-	400.00	440.0-	400.00	Transfers under U.S. military	05.0-	400.00		oo 7 (100.10	00 70	400.00	400.40
agency sales contracts Travel	117.26 99.46		109.26 95.52	110.28 99.62	113.27 101.32	109.96 101.21	113.35 100.54		agency sales contracts Travel	95.37 102.71	100.00 103.92	94.94 102.96	93.74 103.26	100.12 102.66	99.70 104.11	100.03 104.15	100.13 104.74
Passenger fares	102.61	100.51	105.40	96.03	96.73	101.54	100.83	102.95	Passenger fares	95.46	102.88	93.93	98.82	101.18	101.12	103.62	105.58
Other transportation Royalties and license fees	101.08 110.75		100.22 108.62	104.98 118.76	106.14 111.73			108.16 111.12	Other transportation Royalties and license fees	96.83 102.35	97.87 103.66	97.02 102.41	96.07 102.63	93.96 102.95	97.08 103.46	99.63 103.92	100.81 104.33
Other private services	126.16	134.10	127.51	127.16	131.26	133.49	134.26	137.37	Other private services	100.84	101.87	100.85	100.96	101.41	102.00	102.09	101.96
Other	115.97	119.66	116.48	118.06	118.99	120.03	119.53	120.10	Other	99.16	101.62	100.20	99.49	99.82	100.60	102.36	103.69
Imports of goods and services	126.89	141 93	127.81	131.14	135 07	139 69	144 63	148 33	Imports of goods and services	91.31	91.61	90.55	90.48	89.81	90.96	92.35	93.31
Imports of goods ¹	120.03		127.01	132.33	136.33			150.60	Imports of goods ¹	90.19	90.14	89.30	89.03	88.38	89.46	90.75	91.96
Foods, feeds, and beverages	118.18		119.42		122.46				Foods, feeds, and beverages	97.73	94.47	96.73	97.12	95.37	95.05	93.59	93.89
Industrial supplies and materials, except petroleum									Industrial supplies and materials, except petroleum								
and products	119.98 123.87	125.23 128.33		120.69 126.06					and products	94.96 97.00	94.47 97.16	94.09 96.26	92.83 94.37	92.62 95.19	93.07 96.35	95.33 98.56	96.86 98.55
Durable goods Nondurable goods	123.87			126.06	124.75		128.66		Durable goods Nondurable goods	97.00	97.16	96.26 91.87	94. <i>31</i> 91.31	95.19 89.96	96.35 89.63	98.56	98.55 95.09
Petroleum and products	111.97	112.57	116.69	108.87	110.75				Petroleum and products	62.50	83.06	58.70	57.85	52.60	74.68	94.71	110.25
Capital goods, except automotive	143.96	166.02	144.82	148.92	152.37	162.45	171.02	178.26	Capital goods, except automotive	82.10	78.42	81.17	80.71	80.29	78.73	77.47	77.20
Civilian aircraft, engines,									Civilian aircraft, engines,								
and parts Computers, peripherals, and	163.09	170.96	168.42	179.71	163.05	166.00	183.16	171.63	and parts Computers, peripherals, and	105.56	107.53	105.30	106.40	107.27	107.37	107.50	108.00
parts		214.26			191.36				parts	71.55	62.09	70.25	67.47	65.78	62.63	60.20	59.74
Other Automotive vehicles, engines,	134.30	148.87	134.72	134.69	137.60	144.91	152.05	160.91	Other Automotive vehicles, engines,	84.81	83.71	83.98	84.55	84.69	83.91	83.22	83.00
and parts Consumer goods, except	115.21	138.04	111.93	124.62	132.17	134.47			and parts Consumer goods, except	100.34	101.02	99.98	100.34		100.97	101.14	101.24
automotive	129.16				136.97	139.94		152.45	automotive	97.47	96.78	97.09	97.26	97.24	96.68	96.57	96.62
Durable goods Nondurable goods	129.55 128.79		131.19 130.95	133.96 130.13	135.34 138.71	142.91 136.86		153.32 151.57	Durable goods Nondurable goods	95.23 99.92	94.08 99.74	94.61 99.81	94.74 100.03	94.65 100.08	94.03 99.58	93.84 99.57	93.79 99.73
Other	132.40		131.76		155.04		162.99		Other	99.93	99.26	100.41	100.67	99.42	98.99	99.19	99.46
Imports of services 1	123.21	132.59	124.75	125.24	128.81	131.58	132.74	137.24	Imports of services 1	97.29	99.47	97.21	98.26	97.43	99.03	100.95	100.47
Direct defense expenditures	130.92	148.90		131.12	139.93			154.86	Direct defense expenditures	88.93	90.55	89.69	94.25	90.83	89.04	90.81	91.54
Travel Passenger fares	122.14	131.95 123.29		121.19 120.37	129.99 119.81	131.42 122.05			Travel Passenger fares	95.60 107.24	96.00 110.05	94.80 107.62	97.08 107.67	95.09 107.93	94.99 110.15	97.09 112.33	96.83 109.79
Other transportation	115.73	116.83	116.09	117.80	116.61	115.04	117.08	118.61	Other transportation	96.04	107.26	96.83	97.28	96.73	105.21	112.60	114.49
Royalties and license fees Other private services	140.80 129.29	154.34 143.27	135.62 132.34	145.36 134.19		159.94 141.03	145.68 145.81		Royalties and license fees Other private services	102.33 97.09	103.65 96.23	102.39 96.79	102.62 96.33	102.93 96.82	103.45 97.45	103.90 96.31	104.32 94.33
Other				111.88					Other				101.75		101.67	102.80	
Addenda:									Addenda:								
Exports of agricultural	101.87	103.30	05 /F	107.80	05 70	101 02	108 20	107.28	Exports of agricultural	84.79	78.56	83.82	81.98	80.42	78.24	77.72	77.86
goods ² Exports of nonagricultural			35.43	107.00	33.10				goods ² Exports of nonagricultural	04./9	10.00	03.02	01.90	00.42	10.24		11.00
goods	118.50	123.24	117.20	121.73	119.71	120.50	125.08	127.67	goods	95.19	94.35	94.68	94.24	94.04	94.09	94.31	94.95
Imports of nonpetroleum goods	129.07	146.51	129.60	134.28	138.42	143.34	149.93	154.38	Imports of nonpetroleum goods	92.63	91.02	92.01	91.79	91.50	90.90	90.74	90.92
									<u> </u>								

NOTE.-See footnotes to table 4.3.

Table 7.11.-Chain-Type Quantity and Price Indexes for Government Consumption Expenditures and Gross Investment by Type [Index numbers, 1996=100]

							lina		is, 1990=100]								
				Se	easonally	adjuste	ed						Se	easonally	/ adjuste	d	
	1998	1999	19	98		19	99			1998	1999	19	98		199	99	
			Ш	IV	Т	Ш	Ш	IV				=	IV	Ι	П	=	IV
			Chain	-type qu	antity ind	dexes						Cha	in-type p	price indexes			
Government consumption expenditures and gross investment ¹	104.10	107.92	104.46	105.20	106.52	106.86	108.06	110.25	Government consumption expenditures and gross investment ¹	103.34	106.13	103.60	103.94	104.93	105.69	106.56	107.34
Federal	98.97	101.84	99.14	100.08	99.97	100.49	101.52	105.36	Federal	102.38	105.45	102.41	102.76	104.89	105.13	105.60	106.17
National defense	95.71	97.52	97.33	96.61	95.64	95.01	97.56	101.87	National defense	102.03	104.76	102.07	102.32	104.21	104.47	104.93	105.44
Consumption expenditures	96.37	97.08	97.11	97.08	95.74	94.23	97.25		Consumption expenditures	102.91	105.89	103.01	103.37	105.20		106.13	106.67
Durable goods ² Nondurable goods	100.91	104.67 113.78	104.97 116.43	103.03 105.74	98.12 100.24	101.75 110.36	108.23		Durable goods ² Nondurable goods	99.18 86.89	98.73 91.00	98.90 85.49	99.22 85.18	98.93 82.52	98.67 87.76	98.51 93.93	98.81 99.78
Services	95.81	96.13		96.42	95.43	93.30	95.53		Services	103.66		103.84	104.23			107.05	107.41
Compensation of general government									Compensation of general government								
employees, except									employees, except								
own-account	02.20	00.00	02.42	02.44	01.00	00.00	01.00	00.42	own-account	105.07	100.00	105 45	105.05	100 71	100.00	100.00	110.01
investment ³ Consumption of	93.39	90.92	93.43	92.14	91.26	90.90	91.09	90.43	investment ³ Consumption of	105.37	109.96	105.45	105.95	109.71	109.86	109.98	110.31
general government	00.07		0			oc =-	00 -	0.00-	general government	0.0	400			100.00	100.00	100 -0	400.05
fixed capital ⁴ Other services	98.66 97.75		98.56 98.63	98.53 102.14	98.49 100.23	98.55 93.28	98.71 100.69		fixed capital ⁴ Other services	99.17 104.45	100.55 106.96	99.06 105.04	99.15 105.48	100.29 105.87	100.30 106.55	100.76	100.85 108.02
Gross investment	92.11	100.42	98.93	94.12	95.33	99.91	99.70	106.75	Gross investment	96.83	98.17	96.55	96.20	98.38	98.02	97.94	98.32
Structures Equipment and software	76.17	72.00 104.72	82.14 101.39	71.10 97.58	74.25 98.47	72.51 104.04	69.89 104.22		Structures Equipment and software	105.89 95.68	109.70 96.75	106.33 95.31	107.46 94.80	108.05 97.15		110.36 96.44	111.12 96.78
Nondefense Consumption expenditures Durable goods ²	105.63 103.11		102.85 99.98	107.16 104.37	108.77 105.49	111.62 106.43		112.49 106.64	Nondefense Consumption expenditures Durable goods ²	103.07 104.24	106.74 108.49	103.05 104.26		106.18 107.76	106.37	106.85 108.72	107.55 109.38
Nondurable goods									Nondurable goods								
Commodity Credit Corporation									Commodity Credit Corporation								
inventory change									inventory change								
Other nondurables Services	127.04		125.28 102.28	127.94 102.68	129.38 103.03	133.04 103.96			Other nondurables Services	99.36 104.58		99.55 104.71	99.06 105.32		101.49 108.76	103.65 109.33	104.74 109.92
Compensation of	102.00	100.20	102.20	102.00	100.00	100.00	102.20	100.02	Compensation of	104.00	100.12	104.71	100.02	100.40	100.70	100.00	100.02
general government									general government								
employees, except own-account									employees, except own-account								
investment 3	100.54	101.12	100.45	102.20	102.34	101.12	100.03	101.01	investment 3	106.62	113.85	107.01	107.88	112.96	113.41	114.28	114.74
Consumption of general government									Consumption of general government								
fixed capital 4	118.15					127.46			fixed capital 4	98.20	99.17	98.10	98.02	99.11	98.92	98.99	99.67
Other services	99.51 117.50	96.74 133.40	98.42 116.39	95.33 120.29	95.13 124.27	99.61 136.51	94.84 132.22		Other services Gross investment	103.89 97.97	105.10 99.41	103.62 97.81	104.11 97.68	104.56 99.47	104.84 99.13	105.11 99.10	105.89 99.93
Gross investment Structures	94.86		98.35	96.51	97.52	89.07	93.48		Structures	106.48	109.18	106.74	97.00	107.99		109.53	99.93 110.50
Equipment and software	130.18	157.03	126.26	133.70	139.46	164.30	154.65	169.72	Equipment and software	94.30	95.30	93.98	93.47	95.77	95.09	94.78	95.56
State and local	107.14		107.61	108.23	110.39	110.64		113.15	State and local	103.89	106.53	104.27	104.62	104.98		107.11	108.00
Consumption expenditures Durable goods ²	106.69	110.26 125.34	107.06 117.89	107.87 119.84	108.79 122.01	109.74 124.20			Consumption expenditures Durable goods ²	104.18 99.18	107.01 98.86	104.63 99.18	104.91 99.06	105.32 98.94		107.66 98.62	108.64 99.09
Nondurable goods	114.37	121.83	115.32	117.07	118.95	120.85	122.78	124.74	Nondurable goods	94.44	97.78	94.23	92.72	92.31	96.39	100.43	102.00
Services Compensation of general	105.56	108.60	105.85	106.54	107.32	108.15	109.08	109.86	Services Compensation of general	105.57	108.39	106.12	106.66	107.19	107.91	108.78	109.69
government									government								
employees, except									employees, except								
own-account investment ³	102.82	104.82	102.92	103.38	103.92	104.48	105.21	105.70	own-account investment ³	106.28	109.39	106.87	107.49	108.21	108.89	109.80	110.65
Consumption of general									Consumption of general								
government fixed capital 4	109 89	115 73	110.56	111 07	113 43	114 02	116.48	118.08	government fixed capital ⁴	101.39	102.78	101 40	101.86	101 98	102 64	102.99	103.51
Other services	157.71	178.03	161.61	165.82	170.62	175.92	180.03	185.54	Other services	103.11	104.40	103.80	103.45	102.16	103.48	104.71	107.25
Gross investment	109.14	117.21	110.06	109.80	117.60	114.64	117.02	119.59	Gross investment	102.64	104.45	102.74	103.36	103.49	104.28	104.75	105.27
Structures Equipment and software		110.39 139.36	104.71		112.51 133.60			111.75 145.30	Structures Equipment and software	106.09 93.19		106.41 92.77	107.54 92.14	91.44	109.33 90.97	110.21 90.49	110.85 90.75
Addenda:									Addenda:								-
Compensation of general									Compensation of general								
government employees ³	100.94 96.00		101.03 96.03	101.31 95.85	101.61 95.36	101.80 94.70		102.59 94.27	government employees ³		109.93 111.46		107.27	108.93	109.50 111.23	110.29	
Federal State and local	96.00							94.27	Federal State and local						108.89		
														_			

Gross government investment consists of general government and government enterprise expenditures for fixed assets; inventory investment is included in government consumption expenditures.
 Consumption expenditures for durable goods excludes expenditures classified as investment, except for goods transferred to foreign countries by the Federal Government.
 Compensation of government employees engaged in new own-account investment and related expenditures

for goods and services are classified as investment in structures and in software. The compensation of all general

outs and services are cassined as investment in structures and in software. The compensation of all general government employees is shown in the addenda.
4. Consumption of fixed capital, or depreciation, is included in government consumption expenditures as a partial measure of the value of the services of general government fixed assets; use of depreciation assumes a zero net return on these assets.

Table 7.14.-Chain-Type Quantity and Price Indexes for Gross Domestic Product by Sector

[Index numbers, 1996=100]

			.,					
				S	easonally	/ adjuste	ed	
	1998	1999	19	98		19	99	
			Ш	IV	I	Ш	Ш	IV
			Chain	-type qu	antity in	dexes		
Gross domestic product	109.00	113.41	109.25	110.83	111.84	112.36	113.92	115.54
Business 1	110.18	115.12	110.45	112.26	113.38	113.93	115.68	117.51
Nonfarm ² Nonfarm less housing Housing Farm	110.18 111.02 102.71 109.03	115.20 116.24 105.92 107.78	110.46 111.28 103.08 108.92	112.27 113.26 103.52 109.88	113.42 114.40 104.67 108.64	113.96 114.93 105.34 110.22	115.80 116.86 106.43 103.87	117.60 118.78 107.23 108.38
Households and institutions	105.87	107.97	106.04	106.51	107.07	107.52	108.22	109.08
Private households Nonprofit institutions	110.60 105.70	121.93 107.47	112.54 105.81	118.59 106.08	121.19 106.56	121.56 107.02	122.36 107.71	122.62 108.59
General government ³	101.78	103.34	101.92	102.30	102.71	103.03	103.59	104.05
Federal State and local	97.89 103.61	97.53 106.08	97.97 103.77	97.98 104.33	97.77 105.03	97.44 105.66	97.43 106.49	97.50 107.13
			Cha	in-type p	orice inde	exes		
Gross domestic product	102.86	104.32	103.06	103.28	103.79	104.13	104.41	104.94
Business 1	102.48	103.57	102.62	102.77	103.12	103.42	103.61	104.11
Nonfarm ² Nonfarm less housing Housing Farm	102.81 102.47 106.09 79.75	103.93 103.36 109.43 78.01	102.97 102.59 106.58 78.74	103.01 102.50 107.92 86.63	103.41 102.87 108.53 83.92	103.79 103.23 109.16 77.93	103.99 103.41 109.59 76.99	104.55 103.94 110.44 73.22
Households and institutions	104.49	108.45	105.08	105.98	107.10	108.03	108.97	109.71
Private households Nonprofit institutions	105.45 104.46	108.55 108.45	105.89 105.05	106.64 105.95	107.31 107.10	108.25 108.02	108.80 108.98	109.83 109.71
General government ³	105.14	108.49	105.54	106.09	107.57	108.10	108.81	109.47
Federal State and local	103.87 105.72	108.22 108.62	103.98 106.25	104.45 106.84	107.81 107.49	107.98 108.17	108.37 109.02	108.72 109.82

Equals gross domestic product less gross product of households and institutions and of general government.
 Equals gross domestic business product less gross farm product.
 Equals compensation of general government employees plus general government consumption of fixed capital.

Table 7.15.-Price, Costs, and Profit Per Unit of Real Gross Product of **Nonfinancial Corporate Business**

[Dollars]

		13]					
Price per unit of real gross product of nonfinancial corporate business ¹	1.007	 1.008	1.008	1.009	1.012	1.012	
Compensation of employees (unit labor cost)	.643	 .644	.646	.647	.649	.650	
Unit nonlabor cost Consumption of fixed capital	.244 .109	.243 .109	.245 .109	.243 .109	.244 .110	.246 .111	
Indirect business tax and nontax liability plus business transfer payments less subsidies Net interest	.109 .026	.108 .026	.111 .025	.109 .025	.109 .025	.109 .026	
Corporate profits with inventory valuation and capital consumption adjustments (unit profits from current production)	.120	.121	.116	.119	.118	445	
Profits tax liability Profits after tax with inventory	.032	 .032	.030	.032	.033	.033	
valuation and capital consumption adjustments	.088	 .089	.085	.087	.085	.082	

1. The implicit price deflator for gross product of nonfinancial corporate business divided by 100.

Table 7.16.-Implicit Price Deflators for Private Inventories by Industry Group

[Index numbers, 1996=100]

	,	•				
		S	easonally	/ adjuste	d	
	19	98		19	99	
		IV	I	Ш	III	IV
Private inventories ¹	96.30	95.64	95.59	96.37	97.56	97.97
Farm	88.38	85.84	90.74	90.14	88.98	89.04
Nonfarm Durable goods Nondurable goods	96.97 97.56 96.23	96.48 96.90 95.96	96.01 95.89 96.15	96.91 96.37 97.60	98.29 96.97 99.95	98.74 97.15 100.74
Manufacturing Durable goods Nondurable goods	95.71 96.02 95.21	94.42 94.62 94.08	93.92 94.10 93.64	94.94 94.71 95.33	96.37 95.60 97.63	97.02 95.61 99.32
Wholesale Durable goods Nondurable goods	96.28 97.87 93.59	96.17 97.48 93.97	95.27 95.74 94.53	95.70 95.89 95.44	96.94 96.13 98.42	97.50 96.54 99.27
Merchant wholesalers Durable goods Nondurable goods Nonmerchant wholesalers Durable goods Nondurable goods	96.39 97.88 93.84 95.50 97.82 92.03	96.40 97.48 94.55 94.67 97.45 90.50	95.38 95.79 94.70 94.59 95.38 93.48	95.62 95.95 95.08 96.24 95.49 97.57	96.69 96.20 97.62 98.49 95.67 103.20	97.16 96.62 98.18 99.71 96.02 105.84
Retail trade Durable goods Motor vehicle dealers Other Nondurable goods	100.12 99.43 98.48 100.47 100.95		100.03 98.66 97.48 99.94 101.68	99.24	101.68 99.92 99.54 100.35 103.81	101.92 100.05 99.63 100.53 104.19
Other Durable goods Nondurable goods	94.61 101.69 94.07	94.14 100.62 93.66	94.60 101.40 94.09	97.21 103.45 96.74	100.06 102.41 99.87	99.89 102.60 99.67

1. Implicit price deflators are as of the end of the quarter and are consistent with the inventory stocks shown in tables 5.12 and 5.13.

Table 7.17.-Chain-Type Quantity Indexes for Gross Domestic Product by Major Type of Product

[Index numbers, 1996=100]

				S	easonally	/ adjuste	d	
	1998	1999	19	98		19	99	
			Ш	IV	I	Ш	Ш	IV
Gross domestic product	109.00	113.41	109.25	110.83	111.84	112.36	113.92	115.54
Final sales of domestic product Change in private inventories	108.46	113.24	108.69	110.34	111.59	112.52	113.78	115.07
Goods	112.85	118.79	112.62	115.79	116.63	116.77	119.45	122.31
Final sales Change in private inventories		118.41		114.54			119.17	
Durable goods Final sales Change in private inventories	119.01	128.74	118.49	123.65	125.29	127.15	130.13 130.21	132.33
Nondurable goods Final sales Change in private inventories	106.73		106.68		109.48	109.38	110.78 110.29	112.69
Services	106.17	109.69	106.69	107.25	108.08	109.07	110.25	111.37
Structures	110.14	113.83	110.67	112.03	114.79	113.99	113.42	113.13
Addenda: Motor vehicle output Gross domestic product less		125.32		126.49	119.36			
motor vehicle output	108.80	112.99	109.19	110.27	111.57	112.02	113.38	114.99

Table 7.18B.-Chain-Type Quantity Indexes for Motor Vehicle Output

[Index numbers, 1996-100]

	[.,	1							
				Se	easonally	/ adjuste	ed				
	1998	1999	19	98		19	99				
			Ш	IV	I	П	Ш	IV			
Motor vehicle output Auto output Truck output ¹	114.56 104.87 122.70	125.32 102.92 143.88	110.92 104.55 116.25	126.49 116.65 134.74	119.36 99.19 136.08	121.80 101.00 139.04	129.10 102.88 150.78	131.03 108.60 149.61			
Final sales of domestic product	112.55	119.99	108.03	118.63	115.28	119.13	122.37	123.19			
Personal consumption expenditures New motor vehicles Autos Light trucks Net purchases of used autos	114.53 115.33 111.43 119.94 112.04	124.70 126.21 124.84 127.87 120.05	112.08 110.45 106.64 114.95 116.85	121.22 120.75 116.09 126.27 122.46	121.64 121.16 117.93 125.00 122.93	124.66 125.72 124.82 126.82 121.26	125.41 126.72 123.82 130.16 121.26	127.11 131.23 132.79 129.49 114.73			
Private fixed investment New motor vehicles Autos Trucks Light trucks Other Net purchases of used autos	115.07 114.37 102.10 126.11 126.47 125.29 111.81	132.85 129.80 106.32 152.22 155.22 146.56 118.59	109.39 108.79 94.31 122.66 119.31 128.60 106.58	124.22 121.64 105.49 137.11 136.20 138.57 112.09	126.04 123.88 102.09 144.69 145.83 142.43 115.90	129.17 127.75 107.97 146.67 148.90 142.44 122.60	140.75 137.06 111.31 161.64 168.43	135.45 130.51 103.91 155.86 157.72 152.21 112.38			
Gross government investment Autos New trucks	109.63 95.01 117.67	118.16 105.73 124.91	98.49 92.83 101.40	118.22 103.89 126.04	107.78 95.31 114.58	99.74 92.29 103.70	120.88 108.30 127.71	144.24 127.03 153.66			
Net exports Exports Autos Trucks Imports Autos Trucks	100.44 94.32 111.90 116.94 118.90 107.48	97.30 95.68 100.41 143.34 143.14 144.26	89.29 85.02 97.31 112.78 114.01 106.86	99.04 99.75 97.92 127.05 129.71 114.27	92.12 90.26 95.69 138.59 139.67 133.39	100.78 102.60 97.65 139.34 136.13 154.67	93.62 89.63 101.02 147.87 148.38 145.45	102.67 100.23 107.29 147.55 148.40 143.52			
Change in private inventories						154.07					
Autos New Domestic Foreign Used New trucks Domestic Foreign	······	······					······				
Addenda: Final sales of motor vehicles to domestic purchasers Private fixed investment in new autos and new light trucks Domestic output of new autos ²	114.56 112.00 98.16	127.47	110.65 104.46 99.05	122.21 117.95 106.06	122.79 119.83 98.93	125.48 124.57 99.28	130.86 134.48 103.95	130.73 125.74 101.77			
Sales of imported new autos ³	129.63	148.46	121.33	139.71	136.53	146.46	148.58	162.27			

Except for exports and imports, consists of new trucks only.
 Consists of final sales and change in private inventories of new autos assembled in the United States.
 Consists of personal consumption expenditures, private fixed investment, and gross government investment.

8. Supplemental Tables_____

Table 8.1.-Percent Change From Preceding Period in Selected Series

[Percent]

								[Per									
			Sea	sonally	adjuste	d at ar	nual ra	tes				Sea	sonally	adjuste	d at an	nual ra	tes
	1998	1999	19	98		199	99			1998	1999	19	98		199	99	
			III	IV	Т	Ш	Ш	IV				III	IV	Т	П	Ш	IV
Gross domestic product: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	5.5 4.3 1.2 1.2	5.6 4.0 1.4 1.5	5.4 3.8 1.4 1.5	7.0 5.9 .9 1.0	5.7 3.7 2.0 2.0	3.3 1.9 1.3 1.4	6.8 5.7 1.1 1.1	7.9 5.8 2.0 2.0	Chain-type price index Implicit price deflator Imports of services: Current dollars Chain-type quantity index	-5.9 -5.9 8.4 10.8	1 0 10.0 7.6	-5.4 -5.4 5.7 6.4	-1.2 -1.2 6.0 1.6	-2.9 -2.9 8.2 11.9	4.9 4.9 16.2 8.9	5.9 5.9 11.8 3.6	5.5 5.5 12.1 14.3
Personal consumption expenditures: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	5.9 4.9 .9		5.1 3.9 1.2 1.2	5.8 4.6 1.2 1.2	8.1 6.5 1.4 1.4	7.4 5.1 2.2 2.2	6.8 4.9 1.8 1.8	7.9 5.3 2.5 2.5	Chain-type price index Implicit price deflator Government consumption expenditures and gross investment:	-2.2 -2.2	2.2 2.3	6 6	4.4 4.4	-3.3 -3.3	6.7 6.7	8.0 7.9	-1.9 -1.9
Durable goods: Current dollars Chain-type quantity index Chain-type price index	8.6 11.3 -2.4 -2.4	8.6 11.4 –2.6	1.8 4.1 -2.3 -2.3	15.7 20.4 -3.9	9.3 12.4 -2.8 -2.8	7.0 9.1 -1.9 -1.9	5.6 7.7 -2.0 -2.0	10.0 11.8 -1.6	Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Federal:	3.3 1.7 1.5 1.5	6.5 3.7 2.7 2.7	3.2 1.3 2.0 2.0	4.2 2.9 1.3 1.3	9.1 5.1 3.8 3.8	4.3 1.3 2.9 2.9	8.0 4.5 3.3 3.3	11.6 8.4 3.0 2.9
Implicit price deflator Nondurable goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	-2.4 4.1 4.0 0 .1	-2.6 7.7 5.3 2.3 2.3	-2.3 3.7 2.4 1.2 1.2	-3.9 6.3 5.0 1.3 1.3	-2.8 10.7 8.9 1.6 1.6	-1.9 8.5 3.3 5.1 5.1	-2.0 6.5 3.6 2.8 2.8	-1.6 9.8 6.1 3.5 3.5	Current dollars Chain-type quantity index Chain-type price index Implicit price deflator National defense:	.2 –.9 1.1 1.1	6.0 2.9 3.0 3.0	-1.9 -2.3 .4 .4	5.3 3.9 1.4 1.4	8.1 5 8.6 8.6	3.0 2.1 .9 .9	6.0 4.1 1.8 1.8	18.5 16.0 2.2 2.2
Services: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	6.2 4.0 2.1 2.1	6.2	6.6 4.7 1.8 1.8	3.7 1.5 2.2 2.2	6.5 4.2 2.2 2.2	7.0 5.2 1.7 1.7	7.2 5.0 2.1 2.1	6.5 3.5 2.9 2.9	Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Nondefense:	-1.1 -1.9 .8 .8	4.6 1.9 2.7 2.7	7.9 7.0 .9 .9	-2.0 -2.9 1.0 1.0	3.3 -4.0 7.6 7.6	-1.6 -2.6 1.0 1.0	13.1 11.2 1.8 1.8	21.2 18.9 2.0 1.9
Gross private domestic investment: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	10.7 11.7 9 9	5.9 5.7 2 .2	11.2 10.4 2 .7	12.2 11.5 2 .7	3.6 3.6 .1 0	-2.2 -2.1 4 1	13.1 13.6 3 4	9.3 8.5 .8	Current dollars Chain-type quantity index Chain-type price index Implicit price deflator State and local:	2.6 1.0 1.6 1.6	8.4 4.7 3.6 3.6	-17.8 -17.4 4 4	20.3 17.8 2.1 2.1	17.2 6.1 10.4 10.4	11.7 10.9 .7 .7	-5.3 -7.1 1.8 1.9	13.9 11.0 2.6 2.6
Fixed investment: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	11.0 11.8 8 8	8.0 8.0	2.1 2.0 .1 .1	13.6 13.8 –.2 –.2	9.4 9.1 .3 .3	6.5 6.6 –.1 –.1	6.9 6.8 .1 .1	2.5 1.5 1.0 1.0	Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Addenda:	5.1 3.2 1.8 1.8	6.7 4.1 2.5 2.5	6.1 3.3 2.8 2.8	3.7 2.3 1.3 1.3	9.7 8.2 1.4 1.4	4.9 .9 4.0 4.0	9.1 4.8 4.2 4.2	8.0 4.4 3.4 3.4
Nonresidential: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	10.7 12.7 –1.8 –1.8		-1.3 0 -1.4 -1.4	13.2 15.3 –1.8 –1.8	6.8 7.8 –.9 –.9	5.5 7.0 –1.4 –1.4	9.4 10.9 –1.3 –1.3	2.6 2.5 .1 .1	Final sales of domestic product: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	5.5 4.3 1.2 1.2	5.9 4.4 1.5 1.5	3.8 2.4 1.4 1.4	7.2 6.2 .9 .9	6.7 4.6 2.0 2.0	4.8 3.4 1.4 1.4	5.7 4.5 1.1 1.2	6.8 4.6 2.1 2.1
Structures: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Equipment and software:	7.4 4.1 3.1 3.1	1 -2.7 2.7 2.7	-3.2 -6.6 3.6 3.6	9.5 5.8 3.5 3.5	-4.6 -5.8 1.3 1.3	-3.2 -5.3 2.2 2.2	6 -3.8 3.4 3.4	-1.5 -5.3 3.9 3.9	Gross domestic purchases: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	6.2 5.4 .7 .7	6.7 5.1 1.5 1.5	5.8 4.6 1.1 1.2	6.6 5.5 1.0 1.1	7.5 5.8 1.6 1.6	5.2 3.2 1.9 1.9	8.1 6.3 1.7 1.7	8.8 6.3 2.3 2.3
Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Residential:	11.8 15.8 –3.4 –3.4	-2.5	7 2.4 -2.9 -3.0	14.4 18.6 –3.5 –3.5	10.8 12.5 -1.6 -1.6	8.4 11.2 –2.5 –2.5	12.6 15.7 –2.7 –2.7	3.9 4.9 -1.0 -1.0	Final sales to domestic purchasers: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	6.2 5.4 .8 .8	7.0 5.4 1.5 1.5	4.3 3.2 1.1 1.1	6.8 5.8 1.0 1.0	8.5 6.7 1.7 1.7	6.7 4.7 2.0 2.0	7.0 5.2 1.8 1.8	7.6 5.2 2.3 2.3
Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Exports of goods and services:	12.0 9.2 2.6 2.6	7.2 4.0	12.7 8.0 4.4 4.3		17.3 12.9 4.0 4.0	9.3 5.5 3.6 3.6	.2 -3.8 4.1 4.1	2.3 -1.2 3.5 3.5	Gross national product: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	5.4 4.1 1.2 1.2		4.1 2.6 1.4 1.5	.9	5.8 3.8 2.0 2.0	3.3 1.9 1.3 1.4	6.8 5.6 1.1 1.0	
Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	2 2.2 -2.3 -2.3		-4.5 -1.7 -2.9 -2.9	14.5 16.1 –1.3 –1.3	-5.9 -5.5 5 5	4.7 4.0 .7 .7	13.0 11.5 1.3 1.3	9.4 6.9 2.4 2.4	Command-basis gross national product: Chain-type quantity index Disposable personal income: Current dollars	4.5 5.1	 5.6	2.7 5.7	6.2 6.0	4.1 5.6	1.4 5.5	5.1 4.8	
Exports of goods: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	-1.1 2.1 -3.1 -3.1	2.4 3.8 -1.4 -1.4	-2.7 1.6 -4.2 -4.2	16.6 19.4 -2.3 -2.3	-10.5 -9.3 -1.4 -1.4	3.7 4.3 6 6	17.7 16.9 .7 .7	10.4 7.6 2.6 2.6	Chained (1996) dollars Final sales of computers ¹ : Current dollars Chain-type quantity index Chain-type price index	4.1 10.7 53.9 –28.0	4.0 6.3 44.0 –27.1	4.5 7.4 77.5 –39.9	4.8 3 44.4 -31.2	4.1 -6.1 31.6 -28.6	3.2 21.4 44.2 –15.8	2.9 24.0 53.2 -19.0	4.6 -6.2 14.5 -18.0
Exports of services: Current dollars Chain-type quantity index Chain-type price index Implicit price deflator Imports of goods and services:	2.2 2.5 –.3 –.3	4.8 2.9 1.9 1.9	-8.5 -8.8 .3 .3	9.8 8.6 1.1 1.1	5.7 4.1 1.5 1.5	7.1 3.2 3.8 3.8	2.7 0 2.7 2.7	7.3 5.1 2.0 2.0	Implicit price deflator Gross domestic product less final sales of computers: Current dollars Chain-type quantity index Chain-type price index	-28.0 5.5 3.9 1.6	-26.2 5.6 3.7 1.8	-39.5 5.3 3.2 2.0	-30.9 7.1 5.5 1.3	-28.6 5.8 3.4 2.4	-15.8 3.1 1.5 1.5	-19.1 6.6 5.2 1.3	-18.0 8.1 5.7 2.3
Current dollars Chain-type quantity index Chain-type price index Implicit price deflator	5.6 11.6 –5.3 –5.3		.3 5.2 –4.6 –4.6	10.5 10.8 3 3	9.2 12.5 –3.0 –3.0	20.4 14.4 5.2 5.2	22.1 14.9 6.2 6.2	15.3 10.6 4.2 4.2	Implicit price deflator Gross domestic purchases less final sales of computers: Current dollars	1.6 6.1	1.8 6.6	2.1 5.8	1.4 6.6	2.3 7.4	1.6 4.9	1.3 8.0	2.3 8.8
Imports of goods: Current dollars Chain-type quantity index	5.1 11.7	12.7 12.7	8 4.9		9.4 12.6	21.2 15.5	24.2 17.3	15.9 9.9	Chain-type quantity index Chain-type price index Implicit price deflator	4.8 1.2 1.2	4.6 1.9 2.0	4.0 1.6 1.8		5.3 2.0 2.0	2.6 2.2 2.3	5.8 2.1 2.1	6.1 2.6 2.6

1. For some components of final sales of computers, includes computer parts.

NOTE.-Contributions to the percent change in real gross domestic product are shown in table 8.2.

Table 8.2.-Contributions to Percent Change in Real Gross Domestic Product

	1100							
			Sea	sonally	adjuste	ed at ar	inual ra	ates
	1998	1999	19	98		199	99	
			Ш	IV	Ι	Ш	Ш	IV
ercent change at annual rate:								
Gross domestic product	4.3	4.0	3.8	5.9	3.7	1.9	5.7	5.
ercentage points at annual rates:								
Personal consumption expenditures	3.24	3.52	2.64	3.13	4.27	3.36	3.33	3.5
Durable goods	.86	.89	.33	1.51	.96	.71	.62	.9
Motor vehicles and parts	.33	.29	23	.94	.13	.30	.10	.2
Furniture and household			47				~~~	
equipment Other	.39	.44 .16	.47 .08	.44 .13	.55 .28	.34 .08	.39 .13	.4 .2
Nondurable goods	.79	1.04	.49	.98	1.68	.64	.73	1.2
Food	.26	.36	.23	.60	.20	.24	.26	.8
Clothing and shoes	.25	.28	04	.16	.82	.09	.21	1
Gasoline, fuel oil, and other energy goods	.01	.02	.03	05	.04	.04	.03	.0
Other	.27	.37	.27	.27	.62	.28	.23	.4
Services	1.59	1.59	1.83	.64	1.63	2.01	1.97	1.4
Housing	.24	.25	.20	.21	.31	.23	.27	.3
Household operation Electricity and gas	.21	.18 .03	.42 .20	37 49	.38 .24	.21 .05	.25 .14	0 1
Other household operation	.18	.15	.21	.11	.15	.16	.11	.1
Transportation	.10	.08	.01	.07	.08	.10	.12	.0
Medical care Recreation	.29	.27 .23	.19 .18	.29 .12	.16 .27	.30 .31	.43 .35	.3 .1
Other	.63	.58	.83	.32	.43	.85	.56	.6
Gross private domestic investment	1.93	.99	1.74	1.94	.67	36	2.25	1.4
Fixed investment	1.86	1.32	.34	2.20	1.48	1.10	1.16	.2
Nonresidential	1.49	1.02	.01	1.79	.94	.86	1.33	.3
Structures Equipment and software	.13	08 1.10	21 .22	.18 1.61	18 1.12	16 1.02	11 1.44	1 .4
Information processing		1.10		1.01	1.12	1.02		
equipment and software	.85	.85	.71	.80	.80	1.09	.88	.6
Computers and peripheral equipment	.45	.38	.36	.43	.33	.40	.40	.2
Software ¹	.23	.22	.25	.26	.16	.23	.21	.1
Other	.17	.25	.09	.12	.30	.46	.27	.1
Industrial equipment Transportation equipment	.08	0 .24	.04 –.59	.01 .99	17 .22	.07 .03	.16 .55	0. 1.–
Other	.12	0	.06	19	.27	17	14	0
Residential	.37	.31	.33	.41	.53	.24	17	0
Change in private inventories	.07	33	1.40	26	80	-1.46	1.09	1.1
Farm Nonfarm	02	02 31	.30 1.10	.58 –.84	16 64	24 -1.22	18 1.27	1 1.3
Net exports of goods and services	-1.18	-1.11	82	.33	-2.13	-1.35	72	7
Exports	.25	.38	18	1.65	61	.42	1.19	.7
Goods	.17	.29	.12	1.38	74	.32	1.19	.5
Services	.08	.09	30	.27	.13	.10	0	.1
Imports Goods	-1.43	-1.49 -1.33	65 51	-1.32 -1.29	-1.52 -1.28	-1.77 -1.59	-1.91	-1.4
Services	22	16	13	03	24	19	08	3
Government consumption								
expenditures and gross	21	64	22	.51	.87	.23	01	4.4
investment	.31	.64	.23				.81	1.4
Federal National defense	06	. 18 .08	14 .27	.24 –.12	03 16	. 13 –.10	.26 .42	.9 .7
Consumption expenditures	10	.00	.01	0	19	21	.42	.5
Gross investment	.02	.05	.26	12	.03	.11	0	.1
Nondefense Consumption expenditures	.02	.10 .05	42 33	.36 .30	.13 .08	.23 .06	16 10	.2 .1
Gross investment	.05	.05	09	.06	.06	.00	06	.1
State and local	.37	.47	.37	.28	.90	.10	.55	.5
Consumption expenditures	.31	.47	.37	.20 .29	.90 .31	.10	.35	.3 .3
Gross investment	.06	.16	.13	02	.59	22	.18	.1
Addenda:								
Goods	2.26	1.97	2.12	4.26	1.14	.18	3.47	3.6
Services Structures	1.55	1.78 .30	1.41 .25	1.18 .46	1.65 .89	1.96 26	2.37	2.2 0
Motor vehicle output	.26	.33	.21	1.94	87	.29	.87	.2
Final sales of computers ²	.47	.40	.62	.40	.29	.38	.47	.1

Table 8.3.–Contributions to Percent Change in Real Personal
Consumption Expenditures by Major Type of Product
Consumption Experiationes by major type of though

			inual ra	nual rates				
	1998	1999	199	98		199	99	
			III	IV	I	Ш	III	IV
Percent change at annual rate: Personal consumption expenditures	4.9	5.3	3.9	4.6	6.5	5.1	4.9	5.3
Percentage points at annual rates:			.					
Durable goods	1.29	1.34	.49	2.24	1.45	1.07	.92	1.37
Motor vehicles and parts Furniture and household equipment Other	.50 .59 .20	.66	34 .70 .12	1.40 .66 .19	.20 .83 .42	.45 .51 .12	.15 .58 .19	.34 .65 .38
Nondurable goods	1.19	1.55	.72	1.44	2.56	.98	1.07	1.79
Food Clothing and shoes Gasoline, fuel oil, and other energy	.40 .38		.35 06	.89 .23	.32 1.24	.36 .14	.38 .30	1.31 22
goods	.01 .03 01 .41	.03 .01 .02 .56	.04 .04 0 .40	07 04 03 .39	.06 03 .09 .94	.06 .03 .03 .42	.04 .05 –.01 .34	.01 .09 08 .68
Services	2.39	2.38	2.73	.93	2.54	3.03	2.90	2.10
Housing Household operation Electricity and gas Other household operation Transportation Medical care Recreation Other	.36 .31 .04 .28 .15 .44 .18 .95	.27 .05 .22 .12 .40 .35	.29 .63 .31 .32 .02 .28 .27 1.24	.30 56 73 .17 .11 .42 .18 .47	.49 .58 .36 .22 .12 .27 .40 .67	.35 .32 .07 .25 .15 .46 .47 1.28	.39 .37 .20 .16 .17 .63 .51 .82	.43 11 27 .16 .09 .53 .24 .91
Addenda: Energy goods and services ¹ Personal consumption expenditures less food and energy	.05 4.42	.08 4.65	.34 3.25	80 4.53	.42 5.81	.13 4.58	.24 4.26	26 4.20

1. Consists of gasoline, fuel oil, and other energy goods, and of electricity and gas.

NOTE.—The quantity indexes on which the estimates in this table are based are shown in table 7.4. The estimates in this table differ from those in table 8.2 because this table shows contributions to real personal consumption expenditures, whereas table 8.2 shows contributions to real gross domestic product.

1. Excludes software "embedded," or bundled, in computers and other equipment. 2. For some components of final sales of computers, includes computer parts. NOTE.-The quantity indexes on which the estimates in this table are based are shown in tables 7.1, 7.2, 7.4, 7.6, 7.9, 7.11, and 7.17.

February 2000

Table 8.4.-Contributions to Percent Change in Real Private Fixed Investment by Type

		-											
			Seasonally adjusted at annual rates										
	1998	1999	19	98	99								
			≡	IV	Ι	Ш	Ш	IV					
Percent change at annual rate: Private fixed investment	11.8	8.0	2.0	13.8	9.1	6.6	6.8	1.5					
Percentage points at annual rates:													
Nonresidential	9.50	6.10	.04	11.20	5.81	5.18	7.81	1.84					
Structures	.81	51	-1.27	1.20	-1.04	94	65	92					
Nonresidential buildings, including farm Utilities Mining exploration, shafts, and	.74 .18	34 0	21 .05	1.06 .25	21 15			36 34					
wells	09 02	18 0	92 19	20 .08	62 06	.30 .31	.53 –.22	.03 –.25					
Equipment and software Information processing equipment and software	8.69 5.42	6.62 5.14	1.31 4.22	10.00 4.99	6.85 4.82	6.11 6.44	8.46 5.14	2.76 3.48					
Computers and peripheral equipment ¹	2.87 1.46 1.09 .53 1.96 .78	2.31 1.31 1.52 .01 1.48 –.01	2.15 1.51 .56 .22 –3.51 .37	2.63 1.60 .76 .05 6.03 -1.07	2.00 1.00 1.82 -1.00 1.37 1.66	2.36 1.36 2.72 .42 .22 98	2.33 1.24 1.58 .92 3.23 83	1.56 .99 .93 .48 85 35					
Residential	2.34	1.88	1.97	2.62	3.25	1.44	98	30					
Structures Single family Multifamily Other structures	2.30 1.63 01 .69	1.83 1.05 .10 .68	1.96 1.79 12 .29	2.59 1.65 02 .96	3.16 1.89 .70 .58	1.39 –.01 –.12 1.52	-1.01 -1.11 01 .11	33 .72 05 -1.00					
Equipment	.04	.05	.01	.04	.09	.06	.04	.03					

Includes new computers and peripheral equipment only.
 Excludes software "embedded," or bundled, in computers and other equipment.

NOTE.-The quantity indexes on which the estimates in this table are based are shown in table 7.6. The estimates in this table differ from those in table 8.2 because this table shows contributions to real private fixed investment, whereas table 8.2 shows contributions to real gross domestic product.

Table 8.5.-Contributions to Percent Change in Real Exports and in Real Imports of Goods and Services by Type of Product

Demonstration of ensuel actor								
Percent change at annual rate:								
Exports of goods and services	2.2	3.5	-1.7	16.1	-5.5	4.0	11.5	6.9
Percentage points at annual rates:								
Exports of goods 1	1.47	2.65	1.07	13.34	-6.70	3.02	11.51	5.30
Foods, feeds, and beverages Industrial supplies and materials Capital goods, except automotive Automotive vehicles, engines, and	05 17 1.31	.14 .14 1.52	56	1.42	-1.94	1.15	1.04	.03 3.59 –.01
parts Consumer goods, except automotive Other	10 .20 .28	.16		39		18		
Exports of services 1	.72	.86	-2.73	2.75	1.23	.98	.02	1.57
Percent change at annual rate:								
Imports of goods and services	11.6	11.8	5.2	10.8	12.5	14.4	14.9	10.6
Percentage points at annual rates:								
Imports of goods 1	9.81	10.57	4.12	10.52	10.53	12.85	14.22	8.37
Foods, feeds, and beverages Industrial supplies and materials,	.28	.33	.25	.07	.34	.78	.39	.01
except petroleum and products Petroleum and products Capital goods, except automotive	1.38 .41 3.51	.01	.73 .12 1.19	-1.17	.28	1.05	66	
Automotive vehicles, engines, and parts Consumer goods, except automotive Other	.88 2.48 .86		15 1.03 .95	.69			3.53	
Imports of services ¹	1.78	1.28	1.05	.33	1.99	1.55	.70	2.25

1. Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Govern-ment, are included in services. Beginning with 1986, repairs and alterations of equipment were reclassified from goods to services.

NOTE.-The quantity indexes on which the estimates in this table are based are shown in table 7.10. The estimates in this table differ from those in table 8.2 because this table shows contributions to real exports and to real imports, whereas table 8.2 shows contributions to real gross domestic product. Because imports are subtracted in the calculation of gross domestic product, the contributions of components of real imports have opposite signs in this table and in table 8.2.

Table 8.6.-Contributions to Percent Change in Real Government Consumption Expenditures and Gross Investment by Type

			Sea	sonally	adjusted at annual rates						
	1998	1999	19	98		19	99				
			III	IV	Ι	=	III	IV			
Percent change at annual rate: Government consumption expenditures and gross investment ¹	1.7	3.7	1.3	2.9	5.1	1.3	4.5	8.4			
Percentage points at annual rates:											
Federal	33	1.02	82	1.35	16	.74	1.45	5.35			
National defense Consumption expenditures Durable goods ² Nondurable goods Services Compensation of general government employees, government our goovers	45 55 .02 .02 60	. 43 .14 .05 .04 .06	1.55 .05 .31 .29 –.56	67 01 10 18 .27	92 -1.08 26 09 73	59 -1.21 .19 .17 -1.56	2.38 2.40 .33 .44 1.63	4.00 3.07 .12 49 3.44			
except own-account investment ³ Consumption of general	28	23	02	47	32	13	.07	21			
Gross investment fixed capital ⁴ Other services Gross investment Structures Equipment and software	03 29 .10 03 .13	0 .28 .28 02 .30	02 51 1.50 .20 1.30	01 .74 66 20 46	01 40 .16 .06 .11	.01 -1.44 .62 03 .65	.03 1.53 –.03 –.05 .02	.03 3.62 .93 .03 .90			
Nondefense Consumption expenditures Durable goods ² Nondurable goods Services Compensation of general government employees,	. 12 15 09 .02 08	. 59 .27 .10 .10 .07	-2.37 -1.88 -1.55 .02 35	2.02 1.71 1.49 .07 .15	. 75 .44 .04 .27 .13	1.33 .36 .04 02 .34	93 60 06 .08 62	1.35 .70 .05 .03 .63			
except own-account investment ³	.06	.03	.03	.38	.03	26	23	.22			
Consumption of general government fixed capital ⁴ Other services Gross investment Structures Equipment and software	.12 26 .27 .08 .19	.12 08 .32 02 .34	.12 –.51 –.49 .18 –.67	.12 34 .32 06 .37	.12 02 .32 .03 .29	.12 .49 .97 –.26 1.22	.13 51 33 .13 47	.12 .28 .65 –.07 .72			
State and local Consumption expenditures Durable goods ² Nondurable goods Services Compensation of general government employees,	2.06 1.75 .08 .41 1.26	2.65 1.77 .07 .37 1.33	2.08 1.37 .07 .36 .94	1.52 1.63 .07 .34 1.22	5.17 1.78 .07 .36 1.36	.57 1.84 .07 .36 1.41	3.09 2.07 .07 .38 1.62	3.01 1.90 .07 .40 1.43			
except own-account investment ³	.50	.76	.33	.71	.80	.83	1.10	.81			
Consumption of general government fixed capital ⁴ Other services Gross investment Structures Equipment and software	.24 .52 .31 –.07 .38	.26 .31 .88 .54 .34	.25 .36 .72 .37 .35	.26 .26 11 46 .36	.26 .29 3.38 3.10 .28		.27 .25 1.02 .56 .46	.29 .33 1.11 .77 .33			

Gross government investment consists of general government and government enterprise expenditures for fixed assets; inventory investment is included in government consumption expenditures.
 Consumption expenditures for durable goods excludes expenditures classified as investment, except for goods transferred to foreign countries by the Federal Government.
 Compensation of government employees engaged in new own-account investment and related expenditures for goods and services are classified as investment in structures and in software.
 Consumption of fixed capital, or depreciation, is included in government consumption expenditures as a partial measure of the value of the services of general government fixed assets; use of depreciation assumes a zero net return on these assets.

NOTE.-The quantity indexes on which the estimates in this table are based are shown in table 7.11. The estimates in this table differ from those in table 8.2 because this table shows contributions to real government consump-tion expenditures and gross investment, whereas table 8.2 shows contributions to real gross domestic product.

Table 8.7.-Selected Per Capita Product and Income Series in Current and Chained Dollars

[Dollars]

				ual rates				
	1998	1999	19	98		19	99	
			Ш	IV	I	Ш	Ш	IV
Current dollars: Gross domestic product Gross national product Personal income Disposable personal income Personal consumption expenditures Durable goods Nondurable goods Services	32,373 32,336 27,195 23,231 21,614 2,580 6,315 12,718	28,522 24,305 22,898 2,775 6,740		32,941 32,878 27,725 23,628 21,993 2,661 6,417 12,915	28,037 23,904 22,381 2,715 6,569	33,477 28,348 24,171 22,732 2,755 6,690	33,993 33,937 28,632 24,389 23,047 2,785 6,778 13,483	29,068 24,753 23,430 2,845 6,921
Chained (1996) dollars: Gross domestic product Gross national product Disposable personal income Personal consumption expenditures Durable goods Nondurable goods Services	31,472 31,434 22,636 21,060 2,703 6,228 12,138	23,310 21,960 2,984 6,496	21,151 2,699	31,879 31,816 22,924 21,338 2,820 6,305 12,230	32,054 23,110 21,637 2,898 6,429	23,239 21,856 2,955	23,343 22,058 3,002 6,505	23,546 22,287 3,080
Population (mid-period, thousands)	270,595	273,161	270,946	271,623	272,145	272,778	273,518	274,201

Table 8.8B.-Motor Vehicle Output

			Seasonally adjusted at annual rates								
	1998	1999	19	98		19	99				
			Ш	IV	Ι	II	Ш	IV			
Motor vehicle output	313.3	342.9	306.1	345.3	325.0	330.9	355.0	360.5			
Auto output	130.5	127.1	133.0	143.5	121.2	122.7	128.7	135.7			
Truck output ¹	182.8	215.8	173.2	201.9	203.8	208.2	226.3	224.8			
Final sales of domestic product	312.3	332.6	301.5	329.0	319.3	329.3	339.2	342.6			
Personal consumption expenditures	228.9	249.6	225.4	241.8	242.0	248.1	251.9	256.5			
New motor vehicles	173.3	189.3	166.2	181.5	181.8	188.3	190.1	197.2			
Autos	90.6	100.7	86.8	94.3	95.4	100.6	99.7	107.1			
Light trucks	82.7	88.6	79.3	87.2	86.3	87.6	90.4	90.2			
Net purchases of used autos	55.5	60.3	59.2	60.3	60.2	59.8	61.8	59.3			
Private fixed investment	139.2	161.0	132.3	150.7	153.8	157.1	169.8	163.0			
New motor vehicles	175.4	199.6	166.9	187.6	190.8	196.4	210.6	200.6			
Autos	76.7	79.3	71.0	79.2	76.3	80.5	82.8	77.4			
Trucks	98.7	120.3	96.0	108.5	114.5	115.9	127.7	123.2			
Light trucks	64.1	78.8	60.3	69.7	74.4	75.7	85.4	79.8			
Other	34.7	41.5	35.7	38.8	40.1	40.2	42.3	43.3			
Net purchases of used autos	-36.3	-38.6	-34.6	-36.9	-37.0	-39.3	-40.7	-37.5			
Gross government investment	11.9	12.9	10.7	12.9	11.7	10.9	13.2	15.8			
Autos	3.8	4.2	3.7	4.1	3.8	3.7	4.3	5.1			
New trucks	8.1	8.7	7.0	8.8	8.0	7.2	8.9	10.7			
Net exports Exports Autos Trucks Imports Autos Trucks	-67.7	-90.9	-66.9	-76.5	-88.3	-86.8	-95.7	-92.7			
	26.7	26.1	23.8	26.3	24.6	27.0	25.1	27.8			
	16.2	16.6	14.7	17.2	15.6	17.7	15.5	17.5			
	10.5	9.6	9.1	9.2	9.0	9.3	9.6	10.3			
	94.3	117.0	90.7	102.8	112.9	113.8	120.8	120.5			
	79.4	96.6	75.8	86.8	94.1	92.0	100.2	100.1			
	15.0	20.4	14.9	16.0	18.8	21.8	20.7	20.4			
Change in private inventories Autos New Domestic Foreign Used	1.0 3.3 2.6 1.0 1.6 .7	10.2 1.2 1.1 2 1.2 .1	4.6 8.0 11.0 11.7 7 -3.0	16.3 12.1 11.9 9.5 2.4 .1	5.7 .9 .2 .2 0 .7	1.6 - 8.4 -6.1 -7.7 1.6 -2.3	15.8 5.4 4.1 3.5 .6 1.3	17.9 7.0 6.2 3.4 2.8 .8			
New trucks	-2.3	9.0	-3.4	4.2	4.8	10.0	10.4	11.0			
Domestic	-2.1	8.5	-1.7	4.2	3.6	10.4	11.3	8.7			
Foreign	1	.5	-1.7	0	1.2	–.4	–1.0	2.2			
Addenda: Final sales of motor vehicles to domestic purchasers Private fixed investment in new autos	379.9					-	434.9				
and new light trucks	140.8	158.1	131.3	148.8	150.7	156.2	168.3	157.2			
Domestic output of new autos ²	114.2	117.1	116.3	122.8	114.0	114.0	121.7	118.8			
Sales of imported new autos ³	71.2	80.9	66.8	76.7	74.7	79.8	80.9	88.4			

[Billions of dollars]

Except for exports and imports, consists of new trucks only.
 Consists of final sales and change in private inventories of new autos assembled in the United States.
 Consists of personal consumption expenditures, private fixed investment, and gross government investment.

Table 8.9B.-Real Motor Vehicle Output

[Billions of chained (1996) dollars]

			Sea	nnual ra	ates			
	1998	1999	19	98		19	99	
			Ш	IV	I	II	Ш	IV
Motor vehicle output Auto output Truck output ¹	315.7 132.3 183.4	345.4 129.8 215.0	305.7 131.9 173.8	348.6 147.2 201.4	329.0 125.1 203.4	335.7 127.4 207.8	355.8 129.8 225.4	361.1 137.0 223.6
Final sales of domestic product	314.8	335.6	302.1	331.8	322.4	333.1	342.2	344.5
Personal consumption expenditures New motor vehicles Autos Light trucks Net purchases of used autos	230.9 173.2 91.2 81.9 57.6	251.4 189.5 102.2 87.3 61.7	225.9 165.8 87.3 78.5 60.1	244.3 181.3 95.0 86.2 63.0	245.2 181.9 96.6 85.3 63.2	251.3 188.8 102.2 86.6 62.4	252.8 190.3 101.4 88.9 62.4	256.2 197.0 108.7 88.4 59.0
Private fixed investment New motor vehicles Autos Trucks Light trucks Other Net purchases of used autos	139.0 177.5 77.3 100.3 66.1 34.1 -38.4	160.5 201.4 80.4 121.0 81.2 39.9 -40.8	132.1 168.8 71.4 97.5 62.4 35.0 -36.6	150.1 188.7 79.8 109.0 71.2 37.7 -38.5	152.3 192.2 77.2 115.0 76.3 38.8 -39.8	156.0 198.2 81.7 116.6 77.9 38.8 -42.1	170.0 212.7 84.2 128.5 88.1 40.6 -42.4	163.6 202.5 78.6 123.9 82.5 41.4 -38.6
Gross government investment Autos New trucks	11.9 3.6 8.2	12.8 4.1 8.7	10.7 3.6 7.1	12.8 4.0 8.8	11.7 3.7 8.0	10.8 3.5 7.3	13.1 4.1 8.9	15.6 4.9 10.8
Net exports Exports Autos Trucks Autos Trucks	-66.9 26.1 16.0 10.1 93.0 78.3 14.7	- 88.7 25.3 16.2 9.0 114.0 94.3 19.7	-66.5 23.2 14.4 8.8 89.7 75.1 14.6	-75.3 25.7 16.9 8.8 101.1 85.4 15.6	-86.3 23.9 15.3 8.6 110.2 92.0 18.2	-84.7 26.2 17.4 8.8 110.8 89.7 21.2	-93.3 24.3 15.2 9.1 117.6 97.7 19.9	-90.7 26.7 17.0 9.7 117.4 97.7 19.6
Change in private inventories	1.0	9.6	3.6	16.6	6.4	2.5	13.3	16.2
Autos New Domestic Foreign Used	3.4 2.6 1.1 1.5 .8	.7 .6 7 1.2 .1	7.2 10.2 11.0 7 -3.2	12.9 12.6 10.4 2.2 .1	1.7 1.0 1.0 –.1 .8	-7.9 -5.4 -7.0 1.5 -2.5	3.3 1.9 1.3 .7 1.3	5.7 4.9 2.0 2.8 .8
New trucks Domestic Foreign	-2.2 -2.0 1	8.2 7.7 .5	-3.2 -1.6 -1.7	3.9 3.9 0	4.5 3.3 1.1	9.2 9.6 –.4	9.4 10.2 –.9	9.9 7.9 2.0
Residual	3	.7	4	.1	1	.9	.3	.5
Addenda: Final sales of motor vehicles to domestic purchasers Private fixed investment in new autos and new light trucks	381.7 143.3	424.7 161.4	368.7 133.7	407.2 150.9	409.2 153.3	418.1 159.4	436.0 172.1	435.6 160.9
Domestic output of new autos ² Sales of imported new autos ³	114.6 71.7	117.8 82.1	115.6 67.1	123.8 77.3	115.4 75.5	115.9 81.0	121.3 82.2	118.8 89.8

Except for exports and imports, consists of new trucks only.
 Consists of final sales and change in private inventories of new autos assembled in the United States.
 Consists of personal consumption expenditures, private fixed investment, and gross government investment.

NOTE-Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines, excluding the lines in the addenda. Chain-type quantity indexes for the series in this table are shown in table 7.18B.

B. Other NIPA and NIPA-Related Tables_

Monthly Estimates:

Tables B.1 and B.2 include the most recent estimates of personal income and its components; these estimates were released on January 31, 2000 and include "preliminary" estimates for December 1999 and "revised" estimates for October and November 1999.

> Table B.1.—Personal Income [Billions of dollars; monthly estimates seasonally adjusted at annual rates]

	·						·									
	1998	1999 <i>p</i>	199	9 8	1					199	39					
	1950	1993.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. r	Nov. r	Dec. p
Personal income	7,358.9	7,791.2	7,556.5	7,554.5	7,599.0	7,636.4	7,655.3	7,692.7	7,721.8	7,783.3	7,806.0	7,840.0	7,848.1	7,941.3	7,972.5	7,997.9
Wage and salary disbursements Private industries	4,186.0 3,493.2 1,038.7 757.5 944.6 1,509.9 692.8	4,472.7 3,746.3 1,082.6 779.9 1,005.5 1,658.1 726.4	4,301.1 3,598.4 1,056.4 765.5 970.9 1,571.1 702.8	4,318.8 3,614.0 1,059.7 765.2 975.0 1,579.3 704.8	981.3 1,596.0	4,377.9 3,661.7 1,063.8 767.2 989.7 1,608.2 716.1	4,385.8 3,667.7 1,064.4 767.5 987.8 1,615.5 718.1	4,410.4 3,690.7 1,070.2 770.5 993.4 1,627.1 719.8	4,432.1 3,711.3 1,074.8 774.9 996.4 1,640.0 720.8	4,455.4 3,731.9 1,080.4 779.0 1,003.1 1,648.4 723.5	4,491.4 3,764.2 1,089.8 786.0 1,009.8 1,664.6 727.2	4,508.2 3,777.6 1,087.3 785.2 1,013.1 1,677.2 730.7	4,528.5 3,795.6 1,093.6 788.0 1,017.3 1,684.6 732.9	4,556.7 3,821.2 1,101.4 793.7 1,018.8 1,700.9 735.5	4,570.5 3,832.8 1,101.0 789.8 1,021.0 1,710.8 737.7	3,862.9 1,104.2 790.6 1,034.7
Other labor income	515.7	535.8	522.1	523.6	526.1	528.1	529.8	531.3	533.0	534.8	536.7	538.6	540.3	542.0	543.8	545.7
Proprietors' income with IVA and CCAdj Farm Nonfarm	606.1 25.1 581.0	658.0 31.3 626.7	655.3 60.0 595.3	634.0 33.7 600.3	637.3 33.6 603.7	641.6 33.7 608.0	640.9 30.1 610.8	648.4 30.1 618.4	646.6 27.3 619.4	670.8 45.0 625.8	653.7 23.5 630.2	657.8 21.4 636.4	650.6 18.0 632.5	683.9 45.1 638.8	691.8 46.2 645.6	672.4 21.3 651.1
Rental income of persons with CCAdj	137.4	146.1	150.9	146.7	147.6	148.8	149.3	148.6	147.3	150.5	144.9	143.6	128.5	148.5	150.1	145.9
Personal dividend income	348.3	364.3	351.9	353.2	354.6	356.0	357.6	359.3	361.2	363.0	364.9	367.0	369.0	371.1	373.1	375.2
Personal interest income	897.8	930.6	906.3	906.2	905.8	906.8	909.6	914.3	921.0	926.2	932.4	938.8	945.3	950.8	955.8	960.3
Transfer payments to persons Old-age, survivors, disability, and health insurance benefits Government unemployment insurance benefits Other	983.6 578.1 19.8 385.7	1,018.2 596.6 20.2 401.5	991.1 580.0 20.9 390.2	995.1 583.7 20.6 390.7	1,004.7 587.4 20.4 396.9	1,006.6 588.6 20.4 397.5	1,012.0 590.5 20.7 400.8	1,011.3 592.0 20.4 398.9	1,013.0 592.5 20.1 400.3	1,016.4 594.5 20.4 401.5	1,017.8 596.8 20.2 400.8	1,022.6 599.4 20.4 402.8	1,023.6 600.8 20.1 402.8	1,027.8 604.2 19.8 403.8	1,027.2 602.6 19.7 405.0	1,035.5 609.4 19.5 406.6
Less: Personal contributions for social insurance	315.9	334.5	322.2	323.1	327.7	329.3	329.6	331.1	332.3	333.7	335.7	336.6	337.8	339.3	339.8	341.6

^p Preliminary.

^p Preliminar,
 ^r Revised.
 CCAdj Capital consumption adjustment.
 INA Inventory valuation adjustment.

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

Table B.2. — The Disposition of Personal Income

[Monthly estimates seasonally adjusted at annual rates]

		1998 1999																
	1998	1999 <i>P</i>			,					195			,	,	,			
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct. r	Nov. r	Dec. p		
	Billions of dollars, unless otherwise indicated																	
Personal income	7,358.9	7,791.2	7,556.5	7,554.5	7,599.0	7,636.4	7,655.3	7,692.7	7,721.8	7,783.3	7,806.0	7,840.0	7,848.1	7,941.3	7,972.5	7,997.9		
Less: Personal tax and nontax payments	1,072.6	1,152.0	1,113.7	1,122.8	1,124.0	1,128.3	1,122.2	1,129.3	1,139.4	1,149.5	1,159.5	1,151.0	1,170.7	1,175.7	1,181.2	1,192.6		
Equals: Disposable personal income	6,286.2	6,639.2	6,442.8	6,431.7	6,475.0	6,508.1	6,533.1	6,563.5	6,582.4	6,633.8	6,646.5	6,689.0	6,677.4	6,765.6	6,791.3	6,805.3		
Less: Personal outlays	6,056.6	6,480.9	6,179.5	6,228.3	6,256.6	6,309.0	6,365.4	6,390.6	6,425.6	6,459.6	6,485.7	6,537.7	6,571.0	6,610.2	6,653.9	6,705.7		
Personal consumption expenditures Durable goods Nondurable goods Services	5,848.6 698.2 1,708.8 3,441.5	6,254.9 758.1 1,841.1 3,655.7	5,962.8 718.4 1,742.9 3,501.4	6,010.5 734.8 1,754.6 3,521.1	6,038.0 721.4 1,771.2 3,545.4	6,089.3 741.9 1,790.6 3,556.8	6,145.0 753.8 1,801.6 3,589.6	6,168.4 745.0 1,818.3 3,605.1	6,202.1 752.0 1,826.3 3,623.8	6,231.8 757.8 1,829.8 3,644.1	6,259.1 753.1 1,836.4 3,669.5	6,309.9 765.7 1,854.9 3,689.2	6,342.2 766.6 1,870.4 3,705.1	6,379.8 767.0 1,883.5 3,729.3	6,421.3 783.7 1,892.4 3,745.2	6,472.6 789.7 1,917.4 3,765.5		
Interest paid by persons Personal transfer payments to the rest of the world (net)	185.7 22.3	201.6 24.4	193.4 23.3	194.4 23.3	195.2 23.5	196.2 23.5	196.9 23.5	197.6 24.6	198.9 24.6	203.3 24.6	202.1 24.5	203.3 24.5	204.4 24.5	205.3 25.1	207.6 25.1	208.0 25.1		
Equals: Personal saving	229.7	158.3	263.3	203.4	218.4	199.1	167.8	172.9	156.8	174.2	160.8	151.4	106.4	155.4	137.3	99.6		
Addenda: Disposable personal income: Billions of chained (1996) dollars ¹ Per capita: Current dollars Chained (1996) dollars Population (thousands)	6,125.1 23,231 22,636 270,595	6,367.4 24,305 23,310 273,160	6,252.9 23,719 23,020 271,633	6,234.3 23,663 22,937 271,803	6,261.2 23,808 23,022 271,965	6,291.1 23,915 23,117 272,136	6,315.5 23,989 23,190 272,335	6,308.3 24,082 23,145 272,551	6,328.2 24,131 23,200 272,771	6,380.9 24,299 23,372 273,011	6,377.8 24,323 23,340 273,260	6,403.5 24,455 23,411 273,520	6,373.3 24,390 23,280 273,773	6,443.6 24,692 23,516 274,005	6,461.3 24,767 23,563 274,209	6,464.0 24,802 23,558 274,388		
Personal consumption expenditures: Billions of chained (1996) dollars Durable goods Nondurable goods Services Implicit price deflator, 1996=100	5,698.6 731.5 1,685.3 3,284.5 102.63	5,998.7 815.1 1,774.6 3,416.8 104.27	5,787.0 762.5 1,714.7 3,314.6 103.04	5,826.1 779.2 1,721.6 3,331.2 103.17	5,838.6 766.7 1,732.3 3,344.2 103.42	5,886.3 791.1 1,752.8 3,349.3 103.45	5,940.3 808.6 1,763.6 3,376.2 103.45	5,928.6 796.6 1,755.4 3,383.2 104.05	5,962.6 806.4 1,765.1 3,398.3 104.02	5,994.2 815.3 1,770.5 3,416.2 103.96	6,006.0 810.8 1,771.9 3,430.3 104.21	6,040.5 826.0 1,782.6 3,440.3 104.46	6,053.3 826.9 1,783.3 3,451.3 104.77	6,076.1 828.8 1,793.1 3,462.4 105.00	6,109.3 847.9 1,804.0 3,467.7 105.11	6,148.0 856.7 1,820.4 3,481.8 105.28		
Personal saving as percentage of disposable personal income 2	3.7	2.4	4.1	3.2	3.4	3.1	2.6	2.6	2.4	2.6	2.4	2.3	1.6	2.3	2.0	1.5		
					Perce	ent change	from prece	eding perio	d, monthly	changes a	at monthly	rates						
Personal income, current dollars	5.9	5.9	1.0	0	0.6	0.5	0.2	0.5	0.4	0.8	0.3	0.4	0.1	1.2	0.4	0.3		
Disposable personal income: Current dollars Chained (1996) dollars	5.1 4.1	5.6 4.0	1.0 1.0	2 3	.7 .4	.5 .5	.4 .4	.5 –.1	.3 .3	.8 .8	.2 0	.6 .4	2 5	1.3 1.1	.4 .3	.2 0		
Personal consumption expenditures: Current dollars Chained (1996) dollars	5.9 4.9	6.9 5.3	.2 .2	.8 .7	.5 .2	.9 .8	.9 .9	.4 –.2	.5 .6	.5 .5	.4 .2	.8 .6	.5 .2	.6 .4	.7 .5	.8 .6		

^p Preliminary.

 Revised.
 1. Disposable personal income in chained (1996) dollars equals the current-dollar figure divided by the implicit price deflator for personal consumption expenditures.

2. Monthly estimates equal personal saving for the month as a percentage of disposable personal income for that month

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

Annual Estimates:

Except as noted, these tables are derived from the NIPA tables published in the December 1999 SURVEY OF CURRENT BUSINESS; they are consistent with the 1999 comprehensive revision.

"Table B.3.—Gross Domestic Product by Industry, Current-Dollar and Real Estimates" is not published in this issue. The table will be published when the estimates of gross domestic product by industry are revised to incorporate the results of the most recent comprehensive revision of the NIPA's. An article presenting the revised estimates of gross domestic product by industry is scheduled to be published in the May 2000 SURVEY.

1996

43.2

42.9

177.0

81.3

51.5 14.5

24.8

594.6

550.2

81.9

51.4 84.3

38.7

134.2

124.2

3.7

31.8 11.2 7.7 3.5

33.3 .6. 1.8

26.2 4.7

429.6

24.9 27.6

50.6

40.5

80.0

23.6

3.7

14.9

20.7

5.8

8.0

6.9

14 0

48.3

3.5

100.8

122.3

66.1

27.4

28.8

146.8

-24.1

57.6 2.2

82.4

1.5

1998

59.2 55.7

218.4

91.3

58.5 16.0

29.5

647.4

598.0 90.6

55.5 101.4

41.7

153.8

112.9

37.8 12.1

8.4 3.7

37.2

2.0

29.5 5.1

494.7 27.8

31.9

577

47.1

92.6

62.2 30.4

3.9

23.8

6.8

9.4 7.6

14.9 56.2

37

118.6

139.2

71.8

30.1 37.3

163.5

-15.3

68.2 3.7

85.4

16

Billions of chained (1996) dollars

1997

51.1

45.7

203.1

84.5

52.9 14.6

26.0

616.4

570.

82.7 54.8

86.4

39.9

143.9

126.2

3.9

32.5 11.6

8.0 3.6

34.5

1.8

27.4 4.6

464.6

26.3

54 2

43.4

97.0 124.5

60.3

38.1

3.8

216

6.2

8.4

6.9

14.1 51.1

3 !

105.1

126.1

66.7

28.1

145.9

-20.7

62.3 3.3

84.7

-3.2 -17.3

16

1998

60.9

51.7

215.5

82.4

53.8 14.7

27.6 **653.8** 606.1

91.2 57.6

100.6

42.3

149.0

127.7

3.9

33.6 12.0

8.3 3.7

35.7 .7 1.8

28.3 4.9

512.2

26.8

30.9

611

47.9

68.2 63.9

3.8

16.8

22.6

6.5 8.9 7.2

14.1 53.8

35

110.8

130.1

66.7

28.3

35.2

154.7

-11.8

68.5 4.1

82.7

16

Table B.4.—Personal Consumption Expenditures by Type of Expenditure

	Billio	ons of do	llars		ns of cha 996) dolla			Billio	ons of dol	llars
	1996	1997	1998	1996	1997	1998		1996	1997	199
Personal consumption expenditures	5,237.5	5,524.4	5,848.6	5,237.5	5,433.7	5,698.6	Brokerage charges and investment counseling (s.)	43.2	50.9	59
Food and tobacco	834.1	866.3	907.4	834.1	846.2	866.2	Bank service charges, trust services, and safe deposit box rental (s.)	42.9	47.9	5
Food purchased for off-premise consumption (n.d.) Purchased meals and beverages ¹ (n.d.)	476.7 300.5	489.5 318.5	509.4 334.7	476.7 300.5	480.5 309.8	494.0 317.6	Services furnished without payment by financial	-	-	
Food furnished to employees (including military) (n.d.)	8.2	8.5	8.8	8.2	8.3	8.4	intermediaries except life insurance carriers (s.) Expense of handling life insurance and pension plans ¹⁷	177.0	203.3	218
Food produced and consumed on farms (n.d.)	.5	.5	.5	.5	.5	.5	(S.)	81.3	89.0	9
Tobacco products (n.d.) Addenda: Food excluding alcoholic beverages (n.d.)	48.2 689.1	49.3 715.2	54.0 745.2	48.2 689.1	47.1 699.7	45.8 716.5	Legal services (s.)	51.5	55.0	58
Alcoholic beverages purchased for off-	009.1	/13.2	743.2	009.1	099.7	/10.5	Funeral and burial expenses (s.)	14.5 24.8	15.3 26.9	10 29
premise consumption (n.d.)	56.1	58.3	61.3	56.1	57.4	60.0	Other ¹⁸ (s.)			
Other alcoholic beverages (n.d.)	40.7	43.5	46.9	40.7	42.0	44.1	Transportation User-operated transportation	594.6 550.2	623.7 575.6	64 59
Clothing, accessories, and jewelry	333.3	348.2	367.9	333.3	348.8	375.8	New autos (d.)	81.9	82.8	90
Shoes (n.d.) Clothing and accessories except shoes ²	38.8 219.5	40.0 230.9	41.6 244.4	38.8 219.5	40.1 230.7	42.0 249.8	Net purchases of used autos (d.)	51.4	53.4	5
Women's and children's (n.d.)	140.8	230.9	155.6	140.8	148.0	160.6	Other motor vehicles (d.)	84.3 38.7	87.2	10
Men's and boys' (n.d.)	78.6	83.2	88.8	78.6	82.7	89.2	Tires, tubes, accessories, and other parts (d.) Repair, greasing, washing, parking, storage, rental, and	30.7	39.7	4
Standard clothing issued to military personnel (n.d)	.3	.3	.3	.3	.3 13.2	.3	leasing (s.)	134.2	145.9	153
Cleaning, storage, and repair of clothing and shoes (s.) Jewelry and watches (d.)	12.7 40.3	13.5 41.2	13.4 44.2	12.7 40.3	42.8	12.9 47.7	Gasoline and oil (n.d.)	124.2	126.2	112
Other ³ (s.)	21.7	22.3	24.0	21.7	21.8	23.2	Bridge, tunnel, ferry, and road tolls (s.)	3.7 31.8	4.0 36.3	3
Personal care	71.6	76.1	80.5	71.6	75.1	78.2	Insurance ¹⁹ (s.) Purchased local transportation	11.2	11.8	1
Toilet articles and preparations (n.d.)	48.0	50.6	53.8	48.0	50.5	52.9	Mass transit systems (s.)	7.7	8.1	1
Barbershops, beauty parlors, and health clubs (s.)	23.5	25.5	26.8	23.5	24.6	25.4	Taxicab (s.) Purchased intercity transportation	3.5 33.3	3.7 36.3	3
Housing	772.5	809.8	855.9	772.6	786.5	805.6	Railway (s.)	.6	.7	5
Owner-occupied nonfarm dwellingsspace rent 4 (s.)	555.4	585.5	622.6	555.4	569.0	586.6	Bus (s.)	1.8	1.8	1
Tenant-occupied nonfarm dwellingsrent ⁵ (s.) Rental value of farm dwellings (s.)	180.6 6.2	186.0 6.4	193.6 6.6	180.6 6.2	180.9 6.0	182.6 5.9	Airline (s.) Other 20 (s.)	26.2 4.7	29.0 4.7	29
Other ⁶ (s.)	30.2	31.9	33.1	30.2	30.6	30.5				
Household operation	589.2	617.5	646.5	589.2	611.2	643.7	Recreation	429.6 24.9	457.8 26.6	49
Furniture, including mattresses and bedsprings (d.)	50.9	54.1	57.0	50.9	54.2	57.2	Magazines, newspapers and sheet music (n.d.)	24.9	20.0	3
Kitchen and other household appliances 7 (d.)	30.0	30.9	32.3	30.0	31.0	32.9	Nondurable toys and sport supplies (n.d.)	50.6	53.7	5
China, glassware, tableware and utensils (d.) Other durable house furnishings ⁸ (d.)	25.4 50.5	27.1	29.2	25.4 50.5	27.3	28.9	Wheel goods, sports and photographic equipment, boats, and pleasure aircraft (d.)	40.5	43.2	4
Semidurable house furnishings ⁹ (n.d.)	50.5 31.0	53.4 32.6	57.6 34.6	31.0	53.1 33.3	57.1 36.2	Video and audio goods, including musical instruments,	40.5	43.Z	4
Cleaning and polishing preparations, and miscellaneous							and computer goods (d.)	80.0	84.0	92
household supplies and paper products (n.d)	49.8	51.5	54.3	49.8	51.0	52.9	Video and audio goods, including musical instruments	50.4	57.0	~
Stationery and writing supplies (n.d.) Household utilities	18.8 185.0	20.0 188.6	21.3 186.8	18.8 185.0	19.1 184.6	19.9 187.1	(d.) Computers, peripherals, and software (d.)	56.4 23.6	57.8 26.2	62 30
Electricity (s.)	93.3	93.8	95.9	93.3	93.3	99.3	Radio and television repair (s.)	3.7	3.9	
Gas (s.)	35.5	36.6	32.2	35.5	34.2	30.7	Flowers, seeds, and potted plants (n.d.)	14.9	15.6	10
Water and other sanitary services (s.) Fuel oil and coal (n.d.)	40.7 15.6	43.0 15.2	45.4 13.2	40.7 15.6	42.0 15.1	42.9 14.5	Admissions to specified spectator amusements Motion picture theaters (s.)	20.7 5.8	22.2 6.4	2
Telephone and telegraph (s.)	97.1	103.9	113.1	97.1	103.7	114.6	Legitimate theaters and opera, and entertainments of	0.0	0.4	
Domestic service (s.)	13.6	13.8	16.0	13.6	13.5	15.2	nonprofit institutions (except athletics) (s.)	8.0	8.7	9
Other ¹⁰ (s.)	37.1	41.6	44.2	37.1	40.4	42.1	Spectator sports ²¹ (s.) Clubs and fraternal organizations ²² (s.)	6.9 14.0	7.1 14.4	1
Medical care	932.3	977.6	1,032.3	932.3	956.6	987.4	Commercial participant amusements ²³ (s.)	48.3	52.3	50
Drug preparations and sundries ¹¹ (n.d.)	100.3 17.6	108.1 19.4	116.8	100.3	106.5	112.6 20.5	Pari-mutuel net receipts (s.)	3.5	3.6	
Physicians (s.)	17.6	206.9	21.2 219.6	17.6 199.1	19.1 204.1	20.5	Other 24 (s.)	100.8	109.0	118
Dentists (s)	48.4	52.0	54.8	48.4	49.7	50.2	Education and research	122.3	130.7	13
Other professional services ¹² (s.) Hospitals and nursing homes ¹³ Hospitals	119.7	125.1	131.8	119.7	120.4	123.8	Higher education ²⁵ (s.)	66.1	69.2	7
Hospitals and nursing nomes 1.3	390.8 327.6	408.5 341.9	428.4 357.1	390.8 327.6	400.8 336.5	410.4 344.3	Nursery, elementary, and secondary schools ²⁶ (s.) Other ²⁷ (s.)	27.4 28.8	29.0 32.4	30
Nonprofit (s)	213.5	221.3	230.6	213.5	216.9	219.8				-
Proprietary (s.)	38.7	41.6	43.3	38.7	41.3	42.7	Religious and welfare activities ²⁸ (s.)	146.8	150.3	16
Government (s.) Nursing homes (s.)	75.4 63.2	79.0 66.7	83.2 71.3	75.4 63.2	78.3 64.3	81.9 66.2	Foreign travel and other, net Foreign travel by U.S. residents ²⁹ (s.)	-24.1	-21.8	-1
Health insurance	56.6	57.6	59.8	56.6	56.0	57.9	Expenditures abroad by U.S. residents ²⁹ (s.)	57.6 2.2	63.4 2.9	6
Medical care and hospitalization ¹⁴ (s.) Income loss ¹⁵ (s.)	45.3	46.9	49.7	45.3	45.0	46.3	Less: Expenditures in the United States by		2.3	`
Income loss ¹⁵ (s.) Workers' compensation ¹⁶ (s.)	1.0 10.3	1.2 9.6	1.4 8.7	1.0 10.3	1.0 10.0	1.1 10.5	nonresidents 30 (s.)	82.4	86.5	8
	435.1	9.0 488.3	528.6	435.1	477.5	505.5	Less: Personal remittances in kind to nonresidents (n.d.)	1.5	1.6	
Personal business										

1. Consists of purchases (including tips) of meals and beverages from retail, service, and amusement establish-ments, hotels, dining and buffet cars, schools, school fraternities, institutions, clubs, and industrial lunchrooms. Includes meals and beverages consumed both on- and off-premise.

2. Includes that between the second s

Consists of rent for space and for heating and plumbing facilities, water heaters, lighting fixtures, kitchen cabinets, linoleum, storm windows and doors, window screens, and screen doors, but excludes rent for appliances and furniture and purchases of fuel and electricity.
 Consists of space rent (see footnote 4) and rent for appliances, furnishings, and furniture.
 Consists of tradels multicle clubs, schools, and other aroup housing.

Consists of space rent (see tootnote 4) and rent for appliances, furnishings, and furniture.
 Consists of transient hotels, motels, clubs, schools, and other group housing.
 Consists of refrigerators and freezers, cooking ranges, dishwashers, laundry equipment, stoves, room air conditioners, sewing machines, vacuum cleaners, and other appliances.
 Includes such house furnishings as floor coverings, comforters, quilts, blankets, pillows, picture frames, mirrors, art products, portable lamps, and clocks. Also includes writing equipment and hand, power, and garden tools.
 Consists largely of textile house furnishings, including piece goods allocated to house furnishing use. Also includes

includes lamp shades, brooms, and brushes,

Includes lange added, blocking, and blocking.
10. Consists of maintenance services for appliances and house furnishings, moving and warehouse expenses, postage and express charges, premiums for fire and theft insurance on personal property less benefits and dividends, and miscellaneous household operation services.
11. Excludes drug preparations and related products dispensed by physicians, hospitals, and other medical services.

ices. 12. Consists of osteopathic physicians, chiropractors, private duty nurses, chiropodists, podiatrists, and others pro-viding health and allied services, not elsewhere classified.

viding health and allied services, not elsewhere classified.
13. Consists of (1) current expenditures (including consumption of fixed capital) of nonprofit hospitals and nursing homes, and (2) payments by patients to proprietary and government hospitals and nursing homes.
14. Consists of (1) premiums, less benefits and dividends, for health, hospitalization, and accidental death and dismemberment insurance provided by commercial insurance carriers, and (2) administrative expenses (including consumption of fixed capital) of nonprofit and self-insured health plans.
15. Consists of premiums, less benefits and dividends, for privately administered workers' compensation.
17. Consists of premiums, less benefits and dividends, for privately administered workers' compensation.
17. Consists of I operating expenses of commercial life insurance carriers, (2) administrative expenses of private noninsured pension plans and publicly administered government employee retirement plans, and (3) premiums, less benefits. For commercial life insurance carriers, excludes expenses for accident and health insurance and includes profits of stock companies and services furnished without payment by banks, credit agencies, and investment companies.
18. Consists of current expenditures (including consumption of fixed capital) of trade unions and professional associations, employment agency fees, money order fees, spending for classified davertisements, tax return preparation

ciations, employment agency fees, money order fees, spending for classified advertisements, tax return preparation

 Consists of plening, less definite and dividends, for individends definition ventice instance.
 Consists of baggage charges, coastal and inland waterway fares, travel agents' fees, and airport bus fares.
 Consists of admissions to professional and amateur athletic events and to racetracks.
 Consists of dues and fees excluding insurance premiums. 23. Consists of billiard parlors; bowling alleys; dancing, riding, shooting, skating, and swimming places; amusement devices and parks; golf courses; sightseeing buses and guides; private flying operations; casino gambling; and other commercial participant amusements 24 Consists of net receipts of lotteries and expenditures for purchases of pets and pet care services, cable

24. Obtails of the receipt of the test and expendences to purchases of potentiales of potentials of the test and per care solved, care of the test and per care solved, car

25. For private institutions, equals current expenditures (including consumption of fixed capital) less receipts— such as those from meals, rooms, and entertainments—accounted for separately in consumer expenditures, and less expenditures for research and development financed under contracts or grants. For government institutions, equals student payments of tuition.

Equals source payments or future.
26. For private institutions, equals current expenditures (including consumption of fixed capital) less receipts— such as those from meals, rooms, and entertainments—accounted for separately in consumer expenditures. For gov-ernment institutions, equals student payments of tuition. Excludes child day care services, which are included in religious and welfare activities.
27. Consists of (1) fees paid to commercial, business, trade, and correspondence schools and for educational payment of business.

services, not elsewhere classified, and (2) current expenditures (including consumption of fixed capital) by research organizations and foundations for education and research.

28. For nonprofit institutions, equals current expenditures (including consumption of fixed capital) of religious, so-cial welfare, foreign relief, and political organizations, museums, libraries, and foundations. The expenditures are ter of receipts such as those from meals, rooms, and entertainments accounted for separately in consumer expendi-tures, and excludes relief payments within the United States and expenditures by foundations for education and research. For proprietary and government institutions, equals receipts from users. 29. Beginning with 1981, includes U.S. students' expenditures abroad; these expenditures were \$0.3 billion in

1981

Beginning with 1981, includes nonresidents' student and medical care expenditures in the United States; student expenditures were \$2.2 billion and medical expenditures were \$0.4 billion in 1981.

NOTE.—Consumer durable goods are designated (d.), nondurable goods (n.d.), and services (s.). Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines.

services, and other personal business services Consists of premiums, less benefits and dividends, for motor vehicle insurance.

Table B.5.—Private Fixed Investment in Structures by Type

				•				
	Billic	ons of do	llars		ions of chained 1996) dollars			
	1996	1997	1998	1996	1997	1998		
Private fixed investment in								
structures	530.6	575.4	633.2	530.6	556.8	595.8		
Nonresidential	225.0	254.1	272.8	225.0	244.0	254.1		
New	224.6	252.9	272.6	224.6	242.8	253.9		
Nonresidential buildings, excluding farm	158.0	177.1	193.1	158.0	171.6	180.9		
Industrial	32.7	31.4	32.3	32.7	30.4	30.		
Commercial	78.7	89.7	100.0	78.7	86.9	93.8		
Office buildings 1	32.4	39.9	48.3	32.4	38.7	45.3		
Other ²	46.3	49.8	51.7	46.3	48.2	48.		
Religious	4.4	5.6	6.5	4.4	5.4	6.		
Educational	7.7	9.8	10.8	7.7	9.5	10.		
Hospital and institutional	13.1	15.1	15.2	13.1	14.6	14.		
Other ³	21.4	25.5	28.2	21.4	24.7	26.		
Utilities	36.0	36.5	39.2	36.0	35.7	38.		
Railroads	4.4	4.9	5.3	4.4	4.8	5.		
Telecommunications	11.7	12.6	14.3	11.7	12.4	14.		
Electric light and power	11.3	11.3	11.7	11.3	11.1	11.		
Gas	7.6	6.6	6.6	7.6	6.5	6.		
Petroleum pipelines	1.0	1.0	1.3	1.0	.9	1.1		
Farm	3.7	3.8	3.9	3.7	3.7	3.0		
Mining exploration, shafts, and wells	21.1	30.0	30.0	21.1	26.4	25.4		
Petroleum and natural gas	19.4	28.3	28.0	19.4	24.7	23.		
Other	1.7	1.7	2.0	1.7	1.6	1.9		
Other ⁴	5.8	5.5	6.4	5.8	5.3	6.0		
Brokers' commissions on sale of								
structures	1.8	2.0	2.2	1.8	2.0	2.1		
Net purchases of used structures	-1.4	8	-2.0	-1.4	8	-1.9		
Residential	305.6	321.3	360.4	305.6	312.7	341.8		
New	269.8	282.1	314.4	269.8	273.8	297.		
New housing units	192.2	200.8	229.1	192.2	194.9	216.		
Permanent site	179.4	187.3	213.9	179.4	181.7	202.		
Single-family structures	159.1	164.4	189.5	159.1	159.8	180.3		
Multifamily structures	20.3	22.9	24.5	20.3	21.9	21.		
Manufactured homes	12.8	13.5	15.2	12.8	13.3	14.		
Improvements	77.0	80.5	84.4	77.0	78.1	79.9		
Other 5	.6	.8	.9	.6	.8			
Brokers' commissions on sale of								
structures	37.5	41.7	49.0	37.5	41.4	47.3		
Net purchases of used structures	-1.7	-2.5	-3.0	-1.7	-2.4	-2.9		
Residual				0	.2	;		

1. Consists of office buildings, except those constructed at industrial sites and those constructed by utilities for

Consists of onlice buildings, except insec consistence of an account of the second secon

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines.

Table B.6.—Private Fixed Investment in Equipment and Software by Type

	-					
	Billio	ns of do	ollars		ns of cha 96) dolla	
	1996	1997	1998	1996	1997	1998
Private fixed investment in equipment						
and software	682.1	739.9	826.8	682.1	759.7	879.0
Nonresidential equipment and software	674.4	732.1	818.5	674.4	751.9	870.6
Information processing equipment and software	287.3	315.4	356.9	287.3	339.4	418.5
Computers and peripheral equipment 1	70.9	76.7	88.5	70.9	99.0	154.2
Software ²	95.1	106.6	123.4	95.1	109.4	129.2
Communication equipment	65.6	73.0	83.6	65.6	73.8	85.9
Instruments	33.3	35.0	36.3	33.3	34.8	36.1
Photocopy and related equipment	14.7	15.8	15.2	14.7	15.7	15.4
Office and accounting equipment	7.8	8.3	9.8	7.8	8.4	9.8
Industrial equipment	136.4	142.3	150.2	136.4	141.3	148.1
Fabricated metal products	13.4	13.2	14.0	13.4	13.1	13.9
Engines and turbines	4.3	3.5	4.3	4.3	3.5	4.2
Metalworking machinery	31.7	35.0	36.4	31.7	34.9	36.0
Special industry machinery, n.e.c.	34.6	35.2	35.7	34.6	34.9	35.0
General industrial, including materials handling,						
equipment	31.6	33.5	36.8	31.6	33.1	36.1
Electrical transmission, distribution, and				• · · •		
industrial apparatus	20.9	21.9	23.0	20.9	21.9	23.0
Transportation equipment	138.9	150.9	176.0	138.9	149.6	175.3
	77.9	87.0	97.0	77.9	87.4	98.5
Trucks, buses, and truck trailers						
Autos	41.3	41.7	40.5	41.3	40.2	39.0
Aircraft	12.2	14.4	28.0	12.2	14.2	27.5
Ships and boats	2.2	2.2	3.0	2.2	2.2	2.9
Railroad equipment	5.4	5.6	7.5	5.4	5.7	7.6
Other equipment	116.5	128.0	140.5	116.4	126.7	137.9
Furniture and fixtures	27.6	31.2	33.7	27.6	30.7	33.0
Tractors	10.6	11.4	12.1	10.6	11.4	12.0
Agricultural machinery, except tractors	11.4	12.2	12.9	11.4	12.1	12.6
Construction machinery, except tractors	17.3	19.6	22.4	17.3	19.2	21.6
Mining and oilfield machinery	2.8	3.1	4.6	2.8	3.0	4.5
Service industry machinery	14.2	14.4	15.7	14.2	14.2	15.3
Electrical equipment, n.e.c.	10.6	11.6	12.8	10.6	11.8	13.1
Other	21.9	24.5	26.2	21.9	24.3	25.8
Less: Sale of equipment scrap, excluding autos	4.6	4.5	4.9	4.6	4.4	5.7
Residential equipment	7.7	7.9	8.3	7.7	7.9	8.4
Residual				3	-2.7	-15.9
Addenda:				1		
Private fixed investment in equipment and						
	6004	720.0	000.0	1		
software	682.1	739.9	826.8			
Less: Dealers' margin on used equipment	7.0	7.4	8.3			
Net purchases of used equipment from						
government	.8	.9	.9			
Plus: Net sales of used equipment	38.4	38.9	40.7			
Net exports of used equipment	.4	.4	.7			
Sale of equipment scrap	4.7	4.6	5.0			
Equals: Private fixed investment in new			2.0			
equipment and software	717.7	775.7	864 2			
	1.11.1	110.1	50 4 .2			

Includes new computers and peripheral equipment only.
 Excludes software "embedded," or bundled, in computers and other equipment.
 NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive. The residual line is the difference between the first line and the sum of the most detailed lines.
 n.e.c. Not elsewhere classified.

Table B.7.—Compensation and Wage and Salary Accruals by Industry

[Millions of dollars]

	C	Compensatio	n	Wage a	and salary a	accruals		C	Compensatio	n	Wage a	nd salary a	ccruals
	1996	1997	1998	1996	1997	1998		1996	1997	1998	1996	1997	1998
Total	4,395,585	4,675,738	5,011,190	3,630,142	3,884,713	4,189,515	Communications Telephone and telegraph	75,252 56,822	81,897 62,125	90,050 67.911	62,060 46,612	68,038 51,332	75,333 56,507
Domestic industries	4,400,135	4,680,700	5,016,446	3,634,692	3,889,675	4,194,771	Radio and television Electric, gas, and sanitary services	18,430 53,233	19,772 54,297	22,139 55,956	15,448 43,920	16,706 45,031	18,826 46.628
Private industries	3,550,510	3,803,231	4,106,570	2,993,688	3,225,229	3,501,946	Wholesale trade	288,768	310,227	335,441	246,699	265,850	288,598
Agriculture, forestry, and fishing Farms	39,815 16,576	42,742 17,470	46,353 18,580	34,570 14,184	37,392 15,048	40,880 16,223	Retail trade	398,276	420,173	446,621	345,115	365,733	390,983
Agricultural services, forestry, and	-	,							,	,			
fishing	23,239	25,272	27,773	20,386	22,344	24,657	Finance, insurance, and real estate Depository institutions	351,798 82,740	381,762 87,268	425,875 93,358	300,446 69,505	327,406 73,602	366,882 79,042
Mining Metal mining	33,365 3.202	35,490 3.247	36,283 3.064	27,796 2.619	29,702 2.672	30,482 2,522	Nondepository institutions Security and commodity brokers	25,330 72.063	30,143 80,219	38,764 92,271	21,267 64.026	25,501 71,282	33,035 82,344
Coal mining Oil and gas extraction	5,736 19.670	5,689 21,519	5,573 22,295	4,728 16,495	4,714 18,106	4,628 18,838	Insurance carriers Insurance agents, brokers, and	75,441	79,756	86,740	63,367	67,301	73,464
Nonmetallic minerals, except fuels	4,757	5,035	5,351	3,954	4,210		service	32,424	35,006	36,994	28,034	30,389	32,181
Construction	208,199	227,184	248,958	172,199	189,379	209,700	Real estate Holding and other investment offices	44,526 19,274	48,461 20,909	54,353 23,395	37,978 16,269	41,581 17,750	46,846 19,970
Manufacturing	822,405 508.042	867,598	914,904 573,894	675,087	715,009		Services	1,122,869	1,216,466	1,329,752	960,212 32,321	1,047,860 34,524	1,151,057
Durable goods Lumber and wood products	24,805	540,144 26,172	27,697	416,305 20,448	443,950 21,739	474,133 23,098	Hotels and other lodging places Personal services	38,117 24,167	40,284 25,355	43,504 26,886	32,321 21,244	34,524 22,442	37,426 23,848
Furniture and fixtures	15,682	16,664	18,138	12,956	13,848	15,156	Business services	220,399	255,822	300,529	190,630	223,151	263,626
Stone, clay, and glass products	22,820	23,737	25,161	18,556	19,425	20,695	Auto repair, services, and parking	30,089	32,082	34,339	26,211	28,128	30,180
Primary metal industries	35,852	36,839	37,826	28,662	29,633	30,544	Miscellaneous repair services	12,050	12,460	13,337	10,443	10,877	11,672
Fabricated metal products	59,626	62,803	65,925	48,438	51,361	54,184	Motion pictures	17,976	20,225	21,723	15,599	17,739	19,069
Industrial machinery and equipment	103,632	112,597	120,168	86,419	94,488	101,317	Amusement and recreation services	36,934	39,947	43,554	31,670	34,649	37,893
Electronic and other electric	00.005	00.004	02.250	00.005	74 000	77 404	Health services	365,617	383,237	399,740	303,697	319,388	335,207
equipment Motor vehicles and equipment	80,905 58.037	86,864 61,731	93,350 65.081	66,305 46,773	71,668 48,427	77,424 51.389	Legal services	55,150 54,500	62,541 57,763	67,700 62,609	47,851 46,493	54,931 49,702	59,561 53,998
Other transportation equipment	45.627	48,930	52,687	46,773	40,427	43,459	Educational services Social services and membership	54,500	57,703	62,609	40,493	49,702	53,998
Instruments and related products	47,211	49,279	52,549	39,455	41,388		organizations	94.666	99.728	106.667	82.818	87.999	94.268
Miscellaneous manufacturing	77,211	43,213	52,545	55,455	41,500	44,527	Social services	47.894	51,109	55,606	40.468	43,668	47.698
industries	13.845	14,528	15,312	11,194	11,840	12,540	Membership organizations	46,772	48,619	51,061	42,350	44,331	46,570
Nondurable goods	314,363	327,454	341.010	258,782	271,059	283,574	Other services ²	161,195	174,969	195,159	139,550	152,598	170.667
Food and kindred products	61,472	63,596	66,368	50,558	52,652	55,218	Other services ² Private households	12,009	12,053	14,005	11,685	11,732	13,642
Tobacco products	2,900	3,095	2,951	2,199	2,378	2,246							
Textile mill products	18,623	19,176	19,171	15,612	16,142	16,196	Government	849,625	877,469	909,876	641,004	664,446	692,825
Apparel and other textile products	20,195	20,050	19,722	16,778	16,751	16,524	Federal	263,231	266,942	270,470	175,561	177,337	179,803
Paper and allied products	32,978 61.849	33,860 65.098	34,511	27,566	28,427	29,087	General government	211,001	211,725	214,394	140,104 85,294	140,083 85,116	142,060 86,980
Printing and publishing Chemicals and allied products	67,418	71,262	68,925 75,339	51,835 54,422	54,831 57,851	58,353 61,478	Civilian Military ³	124,935 86.066	125,748 85.977	128,743 85,651	85,294 54.810	85,116 54.967	86,980 55.080
Petroleum and coal products	9,721	10,109	10,757	7,754	8,105		Government enterprises	52,230	55,217	56,076	35,457	37,254	37,743
Rubber and miscellaneous plastics	3,121	10,109	10,737	1,134	0,105	0,003	State and local	586.394	610,527	639,406	465.443	487.109	513.022
products	36.524	38,530	40.638	29.817	31.672	33,590	General government	548,416	571.835	599.389	434,766	455.669	480.277
Leather and leather products	2,683	2,678	2,628	2,241	2,250		Education	290,650	304,851	321,361	228,486	240,772	255,052
							Other	257,766	266,984	278,028	206,280	214,897	225,225
Transportation and public utilities	285,015	301,589	322,383	231,564	246,898	265,657	Government enterprises	37,978	38,692	40,017	30,677	31,440	32,745
Transportation	156,530	165,395	176,377	125,584	133,829								
Railroad transportation	15,652	15,888	15,851	11,543	11,753	11,546	Rest of the world	-4,550 1.756	- 4,962 1.802	-5,256	- 4,550 1,756	- 4,962 1.802	-5,256
Local and interurban passenger	10.053	10,520	11.211	8.366	8,857	9.496	Receipts from the rest of the world Less: Payments to the rest of the world 4	6,306	6,764	1,856 7,112	6,306	1,802	1,856 7,112
transit Trucking and warehousing ¹	58,494	62,333	66,698	47.074	50,678		Less. Payments to the lest of the Wolld*	0,300	0,704	1,112	0,300	0,704	7,112
Water transportation	7.873	8.358	8,797	6,463	6.912	7,325	Addenda:						
Transportation by air ¹	48.637	51,162	55,213	38,839	41,143	44,826	Households and institutions	348.558	366,180	385.575			
Pipelines, except natural gas	971	995	997	816	839	847	Nonfarm business	3,275,584	3,513,490	3,798,508			
Transportation services	14,850	16,139	17,610	12,483	13,647								
· .													

Reflects the reclassification of air couriers from trucking and warehousing to transportation by air.
 Consists of museums, botanical and zoological gardens; engineering and management services; and services, not elsewhere classified.
 Includes Coast Guard.
 Includes estimates of foreign professional workers and undocumented Mexican migratory workers employed

temporarily in the United States.

NOTE .- Estimates in this table are based on the 1987 Standard Industrial Classification (SIC).

Compensation equals wage and salary accruals plus supplements to wages and salaries. "Supplements" are listed in table 8.17 of the December 1999 SURVEY OF CURRENT BUSINESS.

SURVEY OF CURRENT BUSINESS

Table B.8.—Employment by Industry [Thousands]

						-	Sunusj
		ne and pa employees			ons engage roduction ¹		
	1996	1997	1998	1996	1997	1998	
Total	127,009	130,085	133,378	123,824	126,757	129,549	
Domestic industries	127,494	130,617	133,917	124,240	127,213	130,011	
Private industries	105,559	108,583	111,702	105,912	108,798	111,461	
Agriculture, forestry, and fishing	2,048	2,137	2,193	3,338	3,321	3,338	
Farms Agricultural services, forestry, and fishing	832 1,216	876 1,261	880 1,313	1,827 1,511	1,814 1,507	1,705 1,633	
Mining	582	601	593	586	603	601	
Metal mining	54	54	49	56	54	49	
Coal mining	99	97	93	97	95	93	1
Oil and gas extraction	321	340	340	326	345	349	1
Nonmetallic minerals, except fuels	108	110	111	107	109	110	
Construction	5,671	5,964	6,297	6,950	7,254	7,603	
Manufacturing	18,579	18,770	18,935	18,576	18,774	18,944	
Durable goods	10,838	11,061	11,277	10,911	11,134	11,355	
Lumber and wood products	801	819	840	856	862	896	
Furniture and fixtures	506	513	535	521	530	544	
Stone, clay, and glass products	546	555	566	561	563	569	
Primary metal industries	708	710	714	706	706	710	
Fabricated metal products	1,453	1,485	1,517	1,447	1,481	1,514	
Industrial machinery and equipment	2,117	2,175	2,217	2,096	2,173	2,216	
Electronic and other electric equipment	1,660	1,693	1,709	1,655	1,682	1,699	
Motor vehicles and equipment	968	984	999	961	977	997	
Other transportation equipment	821	858	899	820	855	902	
Instruments and related products	854	865	872	849	860	864	
Miscellaneous manufacturing industries	404	404	409	439	445	444	
Nondurable goods	7.741	7,709	7.658	7.665	7.640	7,589	
Food and kindred products	1.697	1.694	1.694	1.664	1,676	1,672	
Tobacco products	41	41	40	40	40	39	
Textile mill products	630	618	599	632	620	600	
Apparel and other textile products	874	829	770	880	830	775	
Paper and allied products	683	685	679	678	677	672	
Printing and publishing	1,564	1,579	1,594	1,535	1,562	1,578	
Chemicals and allied products	1,033	1,036	1,042	1,025	1,023	1,028	G
Petroleum and coal products	139	137	137	138	135	136	Ŭ
Rubber and miscellaneous plastics	100	107	107	100	100	100	
products	981	998	1.016	971	988	1.004	
Leather and leather products	99	92	87	102	89	85	
Transportation and public utilities	6,293	6,467	6,671	6,318	6,473	6,648	
Transportation	4,063	4,176	4,336	4,181	4,284	4,433	
Railroad transportation	223	220	216	211	208	205	
Local and interurban passenger transit	440	457	473	445	481	486	1
Trucking and warehousing 2	1,659	1,708	1,777	1,853	1,879	1,954	1
Water transportation	177	183	185	174	179	185	
Transportation by air 2	1,119	1,141	1,200	1,050	1,068	1,124	Rest

Equals the number of full-time equivalent employees plus the number of self-employed persons. Unpaid family workers are not included.
 Reflects the reclassification of air couriers from trucking and warehousing to transportation by air.
 Consists of museums, botanical and zoological gardens; engineering and management services; and services, not elsewhere classified.

Pipelines, except natural gas 14 15			ne and par employees	t-time		ons engage roduction ¹	d in
Transportation services 431 453 471 434 455 44 Communications 1,348 1,421 1,477 1,259 1,324 1,338 Radio and teleyision 412 418 432 336 386 44 Electric, gas, and sanitary services 882 870 858 878 865 88 Wholesale trade 6,560 6,746 6,923 6,587 6,735 6,9 Retail trade 22,256 22,636 23,006 19,851 20,258 20,4 Depository institutions 514 575 664 507 564 679 7 Insurance carriers 1,505 1,527 1,576 1,449 1,463 1,55 Insurance carriers 1,505 1,527 1,576 1,449 1,463 1,564 1,794 1,468 1,79 Hotials and other lodging places 1,794 1,483 1,386 1,346 1,493 1,651 1,794 1,481 <t< th=""><th></th><th>1996</th><th>1997</th><th>1998</th><th>1996</th><th>1997</th><th>1998</th></t<>		1996	1997	1998	1996	1997	1998
Communications 1.348 1.421 1.477 1.259 1.324 1.325 Telephone and telegraph 936 1.003 1.045 873 938 936 569 569 569<	Pipelines, except natural gas	14	14	14	14	14	14
Communications 1.348 1.421 1.477 1.259 1.324 1.325 Telephone and telegraph 936 1.003 1.045 873 938 936 569 569 569<	Transportation services	431	453	471	434	455	465
Telephone and telegraph 936 1,003 1,045 873 938 9 Radio and television 412 418 432 386 386 44 Electric, gas, and sanitary services 882 870 853 878 865 865 Wholesale trade 6,560 6,746 6,923 6,587 6,735 6,99 Retail trade 22,256 22,636 23,006 19,851 20,258 20,46 Depository institutions 514 575 664 507 564 6 Security and commodity brokers 1,505 1,527 1,576 1,449 1,463 1,575 Insurance agents, brokers, and service 7,46 767 787 871 4875 88 Real estate 1,744 1,433 1,836 1,620 1,665 1,77 Holdis and other lodging places 1,734 1,336 1,326 1,365 1,789 1,865 1,484 1,779 1,481 1,511 1,55	Communications	1.348	1.421	1.477	1.259	1.324	1.365
Radio and television 412 418 432 336 386 386 4 Electric, gas, and sanitary services 882 870 853 878 865 8 Wholesale trade 6,560 6,746 6,923 6,587 6,735 6,93 Retail trade 22,256 22,636 23,006 19,851 20,258 20,44 Pinance, insurance, and real estate 7,053 7,256 7,539 7,310 7,424 7,65 Nondepository institutions 514 575 664 507 564 6 Security and commodity brokers 581 630 681 646 679 7 Insurance agents, brokers, and service 746 767 787 871 875 884 1,742 1,463 1,552 1,556 1,567 1,584 1,765 1,849 1,765 1,849 1,765 1,849 1,778 1,786 1,789 1,85 1,76 1,840 1,778 1,786 <td< td=""><td>Telephone and telegraph</td><td>936</td><td>1.003</td><td>1.045</td><td>873</td><td>938</td><td>963</td></td<>	Telephone and telegraph	936	1.003	1.045	873	938	963
Wholesale trade 6,560 6,746 6,923 6,587 6,735 6,93 Retail trade 22,256 22,636 23,006 19,851 20,258 20,4 Finance, insurance, and real estate 7,053 7,256 7,539 7,310 7,424 7,65 Depository institutions 2,017 2,031 2,046 1,923 1,925 1,93 Nondepository institutions 2,017 2,031 2,046 507 564 6 Security and commodity brokers 581 630 681 646 679 7 Insurance agents, brokers, and service 746 767 787 871 875 88 Real estate 1,442 1,441 1,535 1,676 1,684 1,7 Holding and other investment offices 248 245 250 238 37,956 39,3 Hotels and other lodging places 1,318 1,326 1,340 1,789 1,820 1,665 1,77 Personal services 338	Radio and television	412	418	432	386	386	402
Retail trade 22,256 22,636 23,006 19,851 20,258 20,4 Finance, insurance, and real estate 7,053 7,256 7,539 7,310 7,424 7,6 Depository institutions 514 575 664 507 564 6679 7 Nondepository institutions 514 535 664 646 679 7 Insurance carriers 1,505 1,527 1,576 1,449 1,463 1,535 Insurance carriers 1,422 1,411 1,535 1,676 1,864 1,7 Hotels and other lodging places 1,794 1,833 1,867 1,665 1,730 1,748 1,833 1,867 1,626 1,77 Hotels and other lodging places 7,485 1,484 1,739 1,861 1,275 1,481 1,525 1,861 8,261 9,00 Auto repair, services 389 389 395 559 582 55 559 582 55 Matio pe	Electric, gas, and sanitary services	882	870	858	878	865	850
Finance, insurance, and real estate 7,053 7,256 7,539 7,310 7,424 7,65 Depository institutions 514 575 664 507 564 669 7,756 7,310 7,424 7,6 Security and commodity brokers 581 630 681 646 679 7 1nsurance agents, brokers, and service 7,46 767 787 871 4875 8 Real estate 1,442 1,481 1,535 1,676 1,864 1,77 Holding and other investment offices 248 245 250 238 234 2 Services 36,517 38,006 39,545 36,369 37,956 39,39 Hotels and other lodging places 1,794 1,789 1,789 1,789 1,789 1,865 1,7 Personal services 389 389 395 569 582 55 569 582 55 569 582 55 569 582 55 569 5	Wholesale trade	6,560	6,746	6,923	6,587	6,735	6,919
Depository institutions 2.017 2.031 2.0246 1.923 1.925 1.923 Nondepository institutions 514 575 664 507 564 679 Security and commodity brokers 1.505 1.527 1.576 1.449 1.463 1.5 Insurance agents, brokers, and service 746 767 787 871 875 8 Real estate 1.442 1.441 1.535 1.676 1.684 1.77 Holding and other investment offices 248 245 250 238 234 23 Services 1.374 1.833 1.876 1.620 1.665 1.7 Personal services 1.318 1.326 1.348 1.275 1.481 1.511 1.5 Miscilaneous repair services 389 389 359 586 582 5 Motion pictures 1.501 1.644 1.729 1.400 1.485 1.400 1.485 1.400 1.485 1.400 1.48	Retail trade	22,256	22,636	23,006	19,851	20,258	20,419
Depository institutions 2.017 2.031 2.046 1.923 1.925 1.925 Nondepository institutions 514 575 664 507 564 67 Insurance carriters 1.505 1.527 1.576 1.449 1.463 1.5 Insurance agents, brokers, and service 746 767 787 871 875 8 Real estate 1.442 1.481 1.535 1.676 1.684 1.7 Holding and other investment offices 246 245 250 238 234 22 Services 1.318 1.326 1.466 1.620 1.665 1.7 Personal services 1.318 1.326 1.248 1.275 1.481 1.511 1.5 Misciences 389 389 359 582 582 582 582 582 582 583 589 582 583 589 582 582 1.485 1.485 1.446 1.481 1.511	Finance, insurance, and real estate	7,053	7,256	7,539	7,310	7,424	7,636
Nondepository institutions 514 575 664 670 767 Security and commodity brokers 581 630 681 646 679 7 Insurance carriers 746 767 787 871 875 8 Real estate 744 767 787 871 875 8 Holding and other investment offices 248 245 250 238 234 2 Services 36,517 38,006 39,545 36,396 37,956 39,3 Hotels and other lodging places 1,794 1,833 1,876 1,676 1,680 1,7 Personal services, and parking 1,226 1,348 1,275 1,481 1,789 1,8 Miscellaneous repair services 539 569 582 559 560 522 523 610 6 Amusement and recreation services 1,590 1,664 1,729 1,400 1,485 1,445 1,445 1,445 1,465 1,420		2.017					1,933
Insurance carriers 1.505 1.527 1.576 1.449 1.463 1.576 Insurance agents, brokers, and service 746 767 787 871 875 887 Real estate		514		664	507		645
Insurance carriers 1.505 1.527 1.576 1.449 1.463 1.575 Insurance agents, brokers, and service 746 767 787 871 875 887 Real estate		581			646		732
Insurance agents, brokers, and service. 746 767 787 871 675 88 Real estate 1,442 1,481 1,535 1,676 1,684 1,7 Holding and other investment offices 248 245 250 238 234 23 Services 36,517 38,006 39,545 36,396 37,956 39,3 Hotels and other lodging places 1,794 1,833 1,876 1,620 1,665 1,7 Personal services 1,318 1,326 1,340 1,788 1,826 1,020 1,645 1,729 1,481 1,511 1,55 Miscellaneous repair services 539 569 592 583 610 6 Aruts repair, services 1,064 1,029 1,481 1,4151 1,511 1,55 Motion pictures 1,064 1,128 1,421 1,481 1,4151 1,200 1,485 1,44 Legal services 2,113 2,179 2,262 1,962		1.505	1.527	1.576	1.449	1.463	1.503
Real estate 1,442 1,481 1,535 1,676 1,864 1,7 Holding and other investment offices 248 245 250 250 238 234 2 Services 36,517 38,006 39,545 36,396 37,956 39,3 Hotels and other lodging places 1,794 1,833 1,876 1,620 1,665 1,7 Personal services 1,318 1,326 1,347 1,798 1,789 1,881 1,876 1,620 1,665 1,7 Auto repair, services, and parking 1,205 1,248 1,275 1,481 1,511 1,55 Miscellaneous repair services 389 389 392 533 610 6 Amusement and recreation services 1,590 1,664 1,729 1,440 1,485 1,440 Legal services 1,064 1,038 1,179 9,167 9,402 9,51 Legal services and membership 0 0,336 35,574 3,515 2,602		746					880
Holding and other investment offices 248 245 250 238 234 2 Services 36,517 38,006 39,545 36,396 37,956 39,3 Hotels and other lodging places 1,794 1,833 1,876 1,780 1,860 39,545 36,396 37,956 39,3 Business services 7,485 8,148 8,793 7,651 8,261 9,0 Auto repair, services, and parking 1,205 1,248 1,275 1,481 1,511 1,55 Motion pictures 539 569 592 583 610 6 Amusement and recreation services 1,981 1,064 1,729 1,400 1,485 1,44 Health services 9,813 10,038 10,197 9,167 9,402 9,5 Legal services and membership 0,194 1,145 1,446 1,200 1,22 Social services and membership 2,214 2,329 2,404 1,886 4,93 3,574 3,798 3,8		1.442	1.481	1.535	1.676	1.684	1.706
Hotels and other lodging places 1.794 1.833 1.876 1.620 1.665 1.778 Personal services 1.318 1.326 1.340 1.789 1.789 1.789 1.789 1.88 Business services 1.318 1.326 1.340 1.7789 1.789 1.88 Auto repair, services, and parking 1.205 1.248 1.275 1.481 1.511 1.5 Miscellaneous repair services 539 569 592 583 610 6 Amusement and recreation services 1.964 1.064 1.145 1.400 1.485 1.44 Health services 1.064 1.064 1.145 1.200 1.2 1.462 1.461 1.451 1.400 1.2 1.462 1.461 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.200 1.2 2.003 </td <td>Holding and other investment offices</td> <td>248</td> <td>245</td> <td>250</td> <td>238</td> <td>234</td> <td>237</td>	Holding and other investment offices	248	245	250	238	234	237
Hotels and other lodging places 1.794 1.833 1.876 1.620 1.665 1.778 Personal services 1.318 1.326 1.340 1.789 1.789 1.789 1.789 1.88 Business services 1.318 1.326 1.340 1.7789 1.789 1.88 Auto repair, services, and parking 1.205 1.248 1.275 1.481 1.511 1.5 Miscellaneous repair services 539 569 592 583 610 6 Amusement and recreation services 1.964 1.064 1.145 1.400 1.485 1.44 Health services 1.064 1.064 1.145 1.200 1.2 1.462 1.461 1.451 1.400 1.2 1.462 1.461 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.44 1.485 1.200 1.2 2.003 </td <td>Services</td> <td>36.517</td> <td>38,006</td> <td>39.545</td> <td>36,396</td> <td>37,956</td> <td>39,353</td>	Services	36.517	38,006	39.545	36,396	37,956	39,353
Personal services 1.318 1.326 1.340 1.789 1.789 1.789 Business services 7.485 8.148 8.775 1.481 1.275 1.481 1.521 1.51 Miscellaneous repair services 389 389 395 559 582 55 Motion pictures 539 569 582 58 610 6 Amusement and recreation services 1.590 1.664 1.729 1.400 1.485 1.400 Legal services 1.064 1.038 10.197 9.167 9.402 9.52 Legal services 2.113 2.179 2.262 1.962 2.003 2.00 Social services 2.515 2.620 2.750 2.752 2.752 2.752 2.752 2.759 2.979 2.99 Membership organizations 2.244 2.329 2.404 1.866 1.937 1.98 Other services ³ 3.2402 3.346 3.539 3.574 3.798 3.8 Private ho							1.703
Business services 7,485 8,148 8,793 7,651 8,261 9,0 Auto repair, services, and parking 1,205 1,248 1,275 1,481 1,511 1,51 Miscellaneous repair services 389 389 395 569 562 553 Motion pictures 539 569 522 533 610 6 Amusement and recreation services 9,813 10,038 10,197 9,167 9,402 9,5 Legal services 9,813 10,038 10,117 9,167 9,402 9,5 Social services and membership 0 1,064 1,084 1,113 1,145 1,200 1,20 Social services and membership 4,759 4,949 5,154 4,618 4,816 4,93 Other services 3 3,202 3,346 3,533 3,574 3,798 3,88 Private households 1,246 1,233 1,280 828 834 8 Government 21,935 22,034							1,804
Auto repair, services, and parking 1,205 1,248 1,275 1,481 1,511 1,5 Miscellaneous repair services 389 389 389 395 569 582 5 Motion pictures 599 569 582 53 610 6 Amusement and recreation services 1,590 1,664 1,729 1,400 1,485 1,4 Health services 1,064 1,038 1,113 1,145 1,200 1,2 1,445 1,200 1,2 1,415 1,200 1,2 1,415 1,200 1,2 1,415 1,200 1,2 1,415 1,200 1,2 2,2 1,400 1,485 1,400 1,485 1,400 1,485 1,400 1,485 1,200 1,2 1,2 1,400 1,485 1,200 1,2 1,400 1,485 1,400 1,485 1,200 1,2 1,400 1,485 1,200 1,2 1,2 1,200 1,2 1,2 1,200 1,2 1,2<							9.000
Miscellaneous repair services 389 389 389 389 389 589 589 582 58 Motion pictures 533 569 559 583 610 6 Amusement and recreation services 9,813 10,038 10,197 9,167 9,402 9,5 Legal services 9,813 10,038 10,117 1,145 1,200 1,2 Educational services 2,113 2,179 2,262 1,962 2,003 2,00 Social services 2,515 2,600 2,750 2,752 2,879 2,9 organizations 2,244 2,329 2,404 1,866 1,937 1							1.522
Motion pictures 539 569 592 583 610 6 Amusement and recreation services 1,590 1,664 1,729 1,400 1,485 1,445 Health services 1,004 1,084 1,172 1,400 1,485 1,445 Educational services 1,064 1,084 1,113 1,145 1,200 1,203 Social services and membership 2,113 2,179 2,262 1,962 2,003 2,00 Otion services 2,515 2,620 2,750 2,752 2,879 2,937 Membership organizations 2,244 2,329 2,404 1,866 1,937							591
Amusement and recreation services 1,500 1,664 1,729 1,400 1,485 1,4 Health services 9,813 10,038 10,197 9,167 9,402 9,55 Legal services 1,064 1,084 1,113 1,145 1,200 1,2 Educational services 2,113 2,179 2,262 1,962 2,003 2,0 Social services and membership 0rganizations 2,515 2,620 2,750 2,752 2,879 2,89 2,99 9,603 3,574 3,98 3,88 1,866 1,937 1,93 1,986 1,937 1,98 3,86 3,539 3,574 3,788 3,88 Other services 3 3,202 3,346 3,539 3,574 3,78 3,88 88 88 88 88 88 88 83 88 88 84 88 84 88 84 88 84 88 84 88 84 88 84 88 84	Motion nictures						644
Health services 9,813 10,038 10,197 9,167 9,402 9,55 Legal services 1,064 1,084 1,113 1,145 1,200 1,2 Educational services 2,113 2,179 2,262 1,962 2,003 2,0 Social services and membership 4,759 4,949 5,154 4,618 4,816 4,9 Social services 2,515 2,620 2,750 2,752 2,879 2,9 Membership organizations 2,244 2,329 2,404 1,866 1,937 1,9 Other services 3 3,202 3,346 3,533 3,574 3,788 3,8 Private households 1,246 1,233 1,280 828 834 8 Government 21,935 22,034 22,215 1,828 18,415 1,87 General government 4,397 4,276 4,200 3,575 3,477 3,4 Givenament 1,951 1,900 1,878 1,913	Amusement and recreation services						1.496
Legal services 1.064 1.084 1.113 1.145 1.200 12 Educational services 2,113 2,179 2,262 1,962 2,003 2,0 Social services and membership 4,759 4,949 5,154 4,618 4,816 4,9 Social services 2,515 2,620 2,750 2,752 2,752 2,879 2,9 Membership organizations 2,244 2,329 2,404 1,866 1,937 1,98 Other services 3 3,202 3,346 3,539 3,574 3,788 3,88 Private households 1,246 1,233 1,280 828 834 88 Government 21,935 22,034 22,215 18,328 18,415 18,55 Federal 5,387 5,268 5,196 4,378 4,272 4,20 General government 1,951 1,900 1,878 1,870 1.87 Guilany 4							9,503
Educational services 2,113 2,179 2,262 1,962 2,003 2,00 Social services and membership organizations 4,759 4,949 5,154 4,618 4,816 4,93 Social services 2,515 2,620 2,750 2,752 2,879 2,93 Membership organizations 2,244 2,329 2,404 1,866 1,937 1,838 8,488 84 84 84 84 84 84 84 84 84 84 84 84 84							1,231
Social services and membership organizations 4,759 4,949 5,154 4,618 4,816 4,93 Social services 2,515 2,620 2,750 2,752 2,879 2,9 Membership organizations 2,244 2,329 2,404 1,866 1,937 1,9 Other services * 3 3,202 3,346 3,539 3,574 3,798 3,8 Private households 1,246 1,233 1,280 828 834 8 Government 21,935 22,034 22,215 18,328 18,415 18,5 Federal 5,387 5,268 5,196 4,378 4,272 4,2 General government 1,951 1,900 1,878 1,913 1,870 1,8 Williary 4 2,446 2,376 2,322 1,662 1,607 1,5 Government enterprises 990 992 996 803 795 8 State and local 16,548 16,766 17,019	Educational convices						2,092
organizations 4,759 4,949 5,154 4,618 4,816 4,949 Social services 2,515 2,620 2,750 2,752 2,879 2,9 Membership organizations 2,244 2,329 2,404 1,866 1,937 1,9 Other services ³ 3,202 3,346 3,539 3,574 3,798 3,8 Brivate households 1,246 1,233 1,280 828 834 8 Government 21,935 22,034 22,215 18,328 18,415 18,52 Federal Overnment 4,397 4,276 4,200 3,575 3,477 3,477 Civilian 1,951 1,900 1,878 1,913 1,870 1,8 Government enterprises 990 992 996 803 795 8 Government enterprises 16,548 16,766 17,019 13,950 1,4143 14,133 Government enterprises 990 992 996 803 </td <td></td> <td>2,113</td> <td>2,175</td> <td>2,202</td> <td>1,302</td> <td>2,005</td> <td>2,032</td>		2,113	2,175	2,202	1,302	2,005	2,032
Social services 2,515 2,620 2,750 2,752 2,879 2,9 Membership organizations 2,244 2,329 2,404 1,866 1,937 1,9 Other services 3 3,202 3,346 3,539 3,574 3,798 3,8 Private households 1,246 1,233 1,280 828 834 8 Government 21,935 22,034 22,215 18,828 18,415 18,52 General government 5,387 5,288 5,196 4,376 4,222 4,22 2,427 4,22 2,427 4,220 3,575 3,477 3,4 General government 1,951 1,900 1,878 1,913 1,870 1,8 Military 4 2,446 2,376 2,322 1,662 1,607 1,5 Government enterprises 990 992 996 803 795 8 State and local 16,548 16,766 17,01 13,950 1,4143 14,43		4 750	1 0 1 0	5 154	4 619	1 916	4,991
Membership organizations 2.244 2.329 2.404 1.866 1.937 1.9 Other services ³ 3.202 3,346 3,539 3,574 3,798 3.8 Private households 1.240 1.233 1.230 8.28 834 8 Government 21,935 22,034 22,215 18,328 18,415 18,57 Federal 5,387 5,268 5,196 4,376 4,272 4,2 General government 4,397 4,276 4,200 3,575 3,477 3,47 Military ⁴ 2,446 2,376 2,322 1,662 1,607 1,5 Government enterprises 990 992 996 803 795 8 State and local 16,548 16,766 17,019 13,907 13,282 13,48 Education 8,522 8,714 8,896 6,887 7,054 7,17 Other 7,217 7,285 7,217 7,285 6,192 6,2							2.992
Other services ³ 3,202 3,346 3,539 3,574 3,798 3,88 Private households 1,246 1,233 1,280 1,288 834 8 Government 21,935 22,034 22,215 18,328 18,415 18,52 Federal 5,387 5,268 5,109 4,378 4,272 4,27 General government 4,397 4,276 4,200 3,575 3,477 3,477 Civilian 1,951 1,900 1,878 1,913 1,870 1,870 1,870 Government enterprises 990 992 996 803 795 8 Government enterprises 990 992 996 803 795 8 State and local 16,548 16,766 1701 13,950 1,4143 14,43 Education 8,522 8,716 8,896 6,887 7,054 7,142 Other 7,182 7,247 7,245 7,245 6,192							1,999
Private households 1,246 1,233 1,280 828 834 8 Government 21,935 22,034 22,215 18,328 18,415 18,5 Federal 5,387 5,268 5,196 4,376 4,272 4,2 General government 1,951 1,900 1,878 1,876 4,272 4,2 Miltary 4 2,446 2,376 2,322 1,662 1,607 1,5 Government enterprises 990 992 996 803 795 8 State and local 16,576 17,019 13,950 14,143 14,3 General government 8,522 8,716 8,877 7,547 7,427 Other 7,182 7,247 7,247 7,248 6,192 6,286 7,247							3.894
Federal 5,288 5,196 4,378 4,272 4,276 General government 4,397 4,276 4,200 3,575 3,477 3,4 Civilian 1,951 1,900 1,878 1,913 1,870 1,8 Military 4 2,446 2,376 2,322 1,662 1,607 1,5 Government enterprises 990 992 996 803 795 8 State and local 16,548 16,766 17,019 13,957 13,477 3,282 13,48 Education 8,522 8,716 8,896 6,887 7,054 7,14 Other 7,182 7,217 7,2285 6,192 6,228							882
Federal 5,288 5,196 4,378 4,272 4,27 General government 4,397 4,276 4,200 3,575 3,477 3,4 Civilian 1,951 1,900 1,878 1,913 1,870 1,8 Military 4 2,446 2,376 2,322 1,662 1,607 1,5 Government enterprises 990 992 996 803 795 8 State and local 16,548 16,766 17,019 13,957 13,282 13,48 Education 8,522 8,716 8,896 6,887 7,054 7,14 Other 7,182 7,217 7,285 6,192 6,228 6,22 8,28 6,192 6,228	Government	21 035	22 034	22 215	18 328	18 415	18,550
General government 4,397 4,276 4,200 3,575 3,477 3,4 Civilian 1,951 1,900 1,878 1,913 1,870 1,8 Military 4 2,446 2,376 2,322 1,662 1,607 1,5 Government enterprises 990 992 996 803 795 8 State and local 16,548 16,766 17,019 13,950 1,413 14,3 General government 15,704 15,933 16,181 13,079 13,282 13,48 Education 8,522 8,716 8,896 6,887 7,054 7,114 Other 7,182 7,247 7,285 6,192 6,228 <							4,218
Civilian 1,951 1,900 1,878 1,913 1,870 1,8 Military 4 2,446 2,376 2,322 1,662 1,607 1,5 Government enterprises 990 992 996 803 795 8 State and local 16,548 16,766 17,019 13,950 14,143 14,3 General government 15,704 15,933 16,181 13,079 13,282 13,4 Education 8,522 8,716 8,896 6,887 7,054 7,11 Other 7,182 7,217 7,285 6,192 6,228 6,22 8,22 8,716							3,416
Military ⁴ 2,446 2,376 2,322 1,662 1,607 1,5 Government enterprises 990 992 996 803 795 8 State and local 16,548 16,766 1,7019 13,950 14,143 14,33 General government 15,704 15,933 16,181 13,079 13,282 13,48 Education 8,552 8,716 8,896 6,887 7,054 7,15 Other 7,182 7,247 7,245 6,192 6,228 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1.845</td></td<>							1.845
Government enterprises 990 992 996 803 795 8 State and local 16,548 16,766 17,019 13,950 14,143 14,3 General government 15,704 15,933 16,181 13,079 13,282 13,4 Education 8,522 8,716 8,896 6,887 7,054 7,182 Other 7,182 7,247 7,285 6,192 6,228 6,22							1,645
State and local 16,548 16,766 17,019 13,950 14,143 14,33 General government 15,704 15,933 16,181 13,079 13,282 13,4 Education 8,522 8,716 8,896 6,887 7,054 7,11 Other 7,182 7,217 7,285 6,192 6,228 6,228							802
General government							14.332
Education							13,466
Other							7,184
							6,282 866
Rest of the world 5		495			-		-462

Includes Coast Guard.
 Beginning with 1993, includes estimates of foreign professional workers and undocumented Mexican migratory workers employed temporarily in the United States.

NOTE.-Estimates in this table are based on the 1987 Standard Industrial Classification (SIC).

Table B.9.--Wage and Salary Accruals Per Full-Time Equivalent Employee and Full-Time Equivalent Employees by Industry

	Wage and salary accruals per full-time equivalent Full-time equivalent					
		Dollars		-	Thousands	
	1996	1997	1998	1996	1997	1998
Total	32,040	33,428	35,112	113,300	116,213	119,317
Domestic industries	31,963	33,339	35,021	113,716	116,669	119,779
Private industries	31,384	32,825	34,594	95,388	98,254	101,229
Agriculture, forestry, and fishing Farms	19,324 19,893	20,333 20,037	20,730 21,516	1,789 713	1,839 751	1,972 754
Agricultural services, forestry, and fishing	18,946	20,537	20,244	1,076	1,088	1,218
Mining	48,680 48,500 48,742 52,365 37,657	50,428 49,481 49,621 54,372 39,346	52,465 51,469 50,857 56,571 41,611	571 54 97 315 105	589 54 95 333 107	581 49 91 333 108
Construction	31,631	32,924	34,524	5,444	5,752	6,074
Manufacturing Durable goods Lumber and wood products Furniture and fixtures Stone, clay, and glass products Primary metal industries Fabricated metal products Industrial machinery and equipment Electronic and other electric equipment Other transportation equipment Instruments and related products Mococ products Tobacco products Tobacco products Pareil and other textile products Paper and allied products Paper and allied products Printing and publishing Chernicals and allied products Perfoleum and call allied products	37,158 39,038 26,148 26,068 34,880 40,773 48,773 45,520 48,773 44,773 45,520 48,779 48,775 4,975 25,019 40,859 40,718 35,875 53,303 56,188	38,965 40,804 27,644 35,708 42,031 35,155 44,133 42,838 49,669 47,215 48,669 41,215 41	40,928 42,715 28,279 37,088 43,080 36,292 46,454 45,840 51,908 48,776 51,663 32,072 38,254 33,506 57,590 27,312 22,180 43,349 39,481 60,096 64,215	18,168 10,664 782 497 703 1,426 2,074 1,645 842 389 7,504 1,654 40 624 846 677 1,444 1,021	18,350 10,880 792 501 1,461 2,141 1,673 850 851 387 7,470 1,651 40 612 803 674 1,465 1,019 135	18,513 11,100 817 523 2,181 1,689 990 891 858 391 7,413 1,648 393 7455 671 1,478 1,023 135
products Leather and leather products	30,898 23,589	32,253 25,281	33,691 26,345	965 95	982 89	997 84
Transportation and public utilities Transportation Railroad transportation Local and interurban passenger transit Trucking and warehousing ² Water transportation Transportation by air ²	39,355 33,197 54,706 20,811 30,351 38,934 37,238	40,897 34,439 56,505 21,189 31,753 40,421 38,705	42,717 35,621 56,322 21,981 32,934 42,341 40,095	5,884 3,783 211 402 1,551 166 1,043	6,037 3,886 208 418 1,596 171 1,063	6,219 4,034 205 432 1,660 173 1,118

1. Full-time equivalent employees equals the number of employees on full-time schedules plus the number of
employees on part-time schedules converted to a full-time basis. The number of full-time equivalent employees in
each industry is the product of the total number of employees and the ratio of average weekly hours per employee
for all employees to average weekly hours per employee on full-time schedules.

an employees to average weekly nous per employee or infinite schedules.
 2. Reflects the reclassification of air couriers from trucking and warehousing to transportation by air.
 3. Consists of museums, botanical and zoological gardens; engineering and management services; and services,

		nd salary a Il-time equi		Full-time equivalent employees ¹			
		Dollars		٦	housands		
	1996	1997	1998	1996	1997	1998	
Pipelines, except natural gas Transportation services Communications Telephone and telegraph Radio and television Electric, gas, and sanitary services	58,286 31,523 50,496 54,581 41,195 50,367	59,929 32,805 52,620 56,223 43,963 52,484	60,500 34,688 56,177 59,544 48,026 55,246	14 396 1,229 854 375 872	14 416 1,293 913 380 858	14 432 1,341 949 392 844	
Wholesale trade	39,283	41,166	43,549	6,280	6,458	6,627	
Retail trade	18,774	19,496	20,508	18,383	18,759	19,065	
Finance, insurance, and real estate	45,268 36,201 43,226 114,948 43,732 29,810 68,357 29,791 20,705 18,267 27,724 23,073 29,170 37,052 24,474 34,598	48,176 38,255 46,535 118,606 46,002 41,974 31,936 75,855 31,118 21,537 19,330 29,651 23,797 30,214 39,685 25,477 35,531	52,210 40,976 52,437 127,467 48,878 43,547 34,882 84,262 32,746 22,696 20,279 32,224 24,860 31,717 40,833 27,183 36,820	6,637 1,920 492 557 1,449 707 1,274 238 32,232 1,163 6,876 1,136 358 421 1,294 8,778	6,796 1,924 548 601 1,463 724 1,463 724 1,463 1,161 7,526 1,182 360 447 1,360 8,989	7,027 1,929 630 646 1,503 739 1,343 237 35,151 1,649 1,176 8,181 1,214 368 467 1,394 467 1,394	
Legal services Educational services	50,636 25,213	57,042 26,187	59,740 27,230	945 1,844	963 1,898	997 1,983	
Social services and membership organizations Social services Membership organizations Other services 3 Private households	20,373 18,403 22,696 47,098 14,112	20,759 18,970 22,886 49,035 14,067	21,289 19,637 23,297 51,592 15,467	4,065 2,199 1,866 2,963 828	4,239 2,302 1,937 3,112 834	4,428 2,429 1,999 3,308 882	
Government	34,974 40,101 39,190 44,587 32,978 44,156 33,365 33,242 33,176 33,314 35,220	36,082 41,511 40,288 45,517 34,205 46,860 34,442 34,307 34,133 34,505 36,516	37,349 42,628 41,587 47,144 35,060 47,061 35,796 35,666 35,503 35,852 37,812	18,328 4,378 3,575 1,913 1,662 803 13,950 13,079 6,887 6,192 871	18,415 4,272 3,477 1,870 1,607 795 14,143 13,282 7,054 6,228 861	18,550 4,218 3,416 1,845 1,571 802 14,332 13,466 7,184 6,282 866	
Rest of the world 5				-416	-456	-462	

not elsewhere classified. 4. Includes Coast Guard. 5. Includes estimates of foreign professional workers and undocumented Mexican migratory workers employed temporarily in the United States.

NOTE.-Estimates in this table are based on the 1987 Standard Industrial Classification (SIC).

Table B.10.—Farm Sector Output, Gross Product, and National Income

	Billio	ons of do	llars		ons of chained 996) dollars			
	1996	1997	1998	1996	1997	1998		
Farm output Cash receipts from farm marketings Crops Livestock Farm housing Farm products consumed on farms Other farm income Change in farm inventories Crops Livestock	222.6 201.2 108.3 93.0 6.2 .5 6.8 7.9 9.0 -1.1	226.2 208.7 112.1 96.5 6.4 .5 7.8 2.8 3.1 4	214.2 198.2 103.7 94.5 6.6 .5 8.6 .3 .9 6	222.6 201.2 108.3 93.0 6.2 .5 6.8 7.9 9.0 -1.1	237.3 218.7 121.2 97.5 6.0 .5 8.2 3.0 3.4 4	237.9 220.3 121.8 98.7 5.9 .5 9.6 .9 1.7 7		
Less: Intermediate goods and services purchased	130.4 114.3 16.1	138.1 122.1 16.0	134.1 119.0 15.1	130.4 114.3 16.1	134.7 119.2 15.5	137.4 121.9 15.5		
Equals: Gross farm product	92.2	88.0	80.2	92.2	103.1	100.5		
Less: Consumption of fixed capital	25.4	26.2	27.1	25.4	25.8	26.3		
Equals: Net farm product	66.8	61.9	53.1	66.8	77.7	74.2		
Less: Indirect business tax and nontax liability	5.0	5.2	5.3					
Plus: Subsidies to operators	6.2	6.3	10.7					
Equals: Farm national income Compensation of employees Wage and salary accruals Supplements to wages and	68.1 16.6 14.2	63.0 17.5 15.0	58.6 18.6 16.2					
salaries Proprietors' income and corporate profits with inventory valuation and capital consumption	2.4	2.4	2.4					
adjustments	42.0 34.3 7.7 9.5	35.5 29.5 6.0 10.1	29.2 25.1 4.1 10.8		······			

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive.

Table B.11.—Housing Sector Output, Gross Product, and National Income

	Billio	ons of do	llars		ns of cha 996) dolla	
	1996	1997	1998	1996	1997	1998
Housing output ¹ Nonfarm housing Owner-occupied Tenant-occupied Farm housing	742.3 736.1 555.4 180.6 6.2	777.9 771.5 585.5 186.0 6.4	822.8 816.2 622.6 193.6 6.6	742.3 736.1 555.4 180.6 6.2	755.9 749.9 569.0 180.9 6.0	775.2 769.3 586.6 182.6 5.9
Less: Intermediate goods and services consumed	94.4	103.9	116.8	94.4	100.1	110.0
Equals: Gross housing product Nonfarm housing Owner-occupied Tenant-occupied Farm housing	647.9 642.8 482.3 160.5 5.1	673.9 668.6 505.7 162.9 5.3	705.9 700.4 531.5 169.0 5.5	648.0 642.8 482.3 160.5 5.1	655.8 650.8 491.9 158.9 5.0	665.1 660.2 500.9 159.4 4.9
Less: Consumption of fixed capital Capital consumption allowances Less: Capital consumption adjustment	119.6 63.6 –56.0	126.2 67.6 -58.6	131.9 71.9 –60.0		122.5 	
Equals: Net housing product	528.4	547.7	574.0	528.4	533.2	539.4
Less: Indirect business tax and nontax liability plus business transfer payments	118.9	123.4	127.9			
Plus: Subsidies less current surplus of government enterprises	23.3	23.9	23.9			
Equals: Housing national income Compensation of employees Proprietors' income with inventory	432.8 8.4	448.3 9.0	470.0 9.6			
valuation adjustment and capital consumption adjustment Rental income of persons with capital consumption adjustment	22.6 111.2	21.6 111.5	22.0 119.3			
Corporate profits with inventory valuation adjustment and capital consumption adjustment	4.7 285.7	4.7 301.6	4.9 314.2			

1. Equals personal consumption expenditures for housing less expenditures for other housing as shown in table B.4.

NOTE.—Chained (1996) dollar series are calculated as the product of the chain-type quantity index and the 1996 current-dollar value of the corresponding series, divided by 100. Because the formula for the chain-type quantity indexes uses weights of more than one period, the corresponding chained-dollar estimates are usually not additive.

"Table B.12.—Net Stock of Fixed Private Capital, by Type" is not published in this issue. The table will be published when the estimates of fixed assets and consumer durable goods are revised to incorporate the results of the most recent comprehensive revision of the NIPA's. An article presenting the revised estimates of fixed assets and consumer durable goods is scheduled to be published in the April 2000 SURVEY.

C. Historical Measures___

This table is derived from the "GDP and Other Major NIPA Series" tables that were published in the December 1999 issue of the SURVEY OF CURRENT BUSINESS and from the "Selected NIPA Tables" that are published in this issue. (Changes in prices are calculated from indexes expressed to three decimal places.)

Table C.1.—Historical Measures of Real Gross Domestic Product, Real Gross National Product, and Real Gross Domestic Purchases
[Quarterly estimates are seasonally adjusted at annual rates]

	Billions of	of chained (1996) dollars	Percent change	from preceding	L.	price indexes	Implicit pric		Pe	ercent change fron	n preceding period	±
Year and quarter	Gross domestic	Final sales of	Gross national	peri	od Final sales of	Gross domestic	Gross domestic	Gross domestic	Gross national	Chain-type	price index	Implicit price	e deflators
4	product	domestic product	product	Gross domestic product	domestic product	product	purchases	product	product	Gross domestic product	Gross domestic purchases	Gross domestic product	Gross national product
1959	2,300.0	2,298.4	2,315.7			22.06	21.57	22.06	22.04				
1960 1961 1962	2,357.2 2,412.1 2,557.6	2,359.0 2,415.5 2,548.1	2,374.4 2,430.9 2,578.8	2.5 2.3 6.0	2.6 2.4 5.5	22.37 22.62 22.93	21.87 22.10 22.40	22.37 22.62 22.93	22.35 22.60 22.91	1.4 1.1 1.4	1.4 1.1 1.3	1.4 1.1 1.4	1.4 1.1 1.4
1963 1964	2,668.2 2,822.7	2,661.4 2,820.2	2,690.7 2,847.0	4.3 5.8	4.4 6.0	23.18 23.53	22.40 22.67 23.02	23.19 23.54	23.16 23.51	1.1	1.2	1.1	1.1
1965 1966	3,002.8 3,199.5	2,982.7 3,163.3	3,028.3 3,223.7	6.4 6.6	5.8 6.1	23.98 24.66	23.44 24.10	23.98 24.67	23.96 24.64	1.9 2.9	1.8 2.8	1.9 2.9	1.9 2.9
1967 1968 1969	3,279.5 3,435.6 3,543.2	3,259.4 3,419.5	3,304.3 3,462.2 3,568.8	2.5 4.8 3.1	3.0 4.9 3.2	25.43 26.52 27.81	24.80 25.87 27.11	25.43 26.53 27.81	25.41 26.50 27.78	3.1 4.3 4.8	2.9 4.3 4.8	3.1 4.3 4.8	3.1 4.3
1970	3,549.4	3,527.6 3,559.7	3,574.7	.2 3.1	.9 2.6	29.29	28.57	29.29	29.26	5.3	5.4	4.8 5.3 5.3	4.8 5.3
1971 1972 1973	3,660.2 3,854.2 4,073.1	3,650.5 3,843.3 4,043.9	3,688.8 3,885.2 4,114.7	3.1 5.3 5.7	2.6 5.3 5.2	30.83 32.18 34.01	30.12 31.50 33.37	30.83 32.18 34.02	30.80 32.15 33.98	5.3 4.4 5.7	5.4 4.6 5.9	5.3 4.4 5.7	5.3 4.4 5.7
1974 1975	4,061.7 4,050.3	4,043.4 4,083.9	4,108.0 4,086.5	3 3	0 1.0	36.94 40.37	36.65 39.99	36.96 40.37	36.92 40.34	8.6 9.3	9.8 9.1	8.6 9.2	8.6
1976 1977	4,262.6 4,455.7	4,239.6 4,422.8	4,306.3 4,505.2	5.2 4.5	3.8 4.3	42.78 45.58	42.37 45.31	42.79 45.59	42.75 45.55	6.0 6.5	6.0 6.9	6.0 6.5	9.3 6.0 6.5
1978 1979	4,709.9 4,870.1	4,672.4 4,852.4	4,758.8 4,935.6	5.7 3.4	5.6 3.9	48.74 52.69	48.49 52.67	48.75 52.70	48.71 52.66	6.9 8.1	7.0	6.9 8.1	6.9 8.1
1980 1981 1982	4,872.3 4,993.9 4,900.3	4,899.2 4,962.5 4,935.6	4,936.2 5,050.8 4,956.4	0 2.5 –1.9	1.0 1.3 –.5	57.39 62.71 66.51	58.10 63.36 66.94	57.38 62.70 66.51	57.35 62.68 66.49	8.9 9.3 6.1	10.3 9.1 5.7	8.9 9.3 6.1	8.9 9.3 6.1
1983 1984	5,105.6 5,477.4	5,127.5 5,400.5	5,160.6 5,528.7	4.2 7.3	3.9 5.3	69.23 71.80	69.37 71.78	69.24 71.80	69.21 71.77	4.1 3.7	3.6 3.5	4.1 3.7	4.1 3.7
1985 1986	5,689.8 5,885.7	5,671.6 5,885.9	5,726.3 5,908.4	3.9 3.4	5.0 3.8	74.05 75.67	73.87 75.52	74.05 75.66	74.02 75.63	3.1 2.2	2.9 2.2 3.2	3.1 2.2	3.1 2.2
1987 1988 1989	6,092.6 6,349.1 6,568.7	6,068.2 6,333.4 6,542.4	6,112.2 6,373.7 6,594.7	3.5 4.2 3.5	3.1 4.4 3.3	77.84 80.46 83.56	77.94 80.57 83.71	77.84 80.46 83.56	77.81 80.44 83.54	2.9 3.4 3.9	3.2 3.4 3.9	2.9 3.4 3.9	3.1 2.2 2.9 3.4 3.9
1990 1991	6,683.5 6,669.2	6,671.3 6,674.2	6,718.1 6,696.9	1.7 2	2.0 0	86.84 89.76	87.14 89.90	86.83 89.76	86.81 89.76	3.9 3.4	4.1 3.2	3.9 3.4	
1992 1993	6,891.1 7,054.1	6,878.7 7,035.3	6,915.8 7,080.3	3.3 2.4 4.0	3.1 2.3 3.4	91.70 94.17 96.14	91.90 94.24 96.18	91.70 94.16 96.14	91.71 94.16 96.13	2.2 2.7 2.1	2.2 2.5 2.1	2.2 2.7 2.1	3.9 3.4 2.2 2.7 2.1
1994 1995 1996	7,337.8 7,537.1 7,813.2	7,275.9 7,505.5 7,783.2	7,355.5 7,558.0 7,831.2	4.0 2.7 3.7	3.4 3.2 3.7	98.19 100.00	98.28 100.00	98.19 100.00	98.19 100.00	2.1	2.2	2.1	2.1 2.1 1.8
1997 1998	8,165.1 8,516.3	8,095.7 8,441.3	8,168.8 8,506.0	4.5 4.3	4.0 4.3	101.66 102.86	101.39 102.14	101.66 102.86	100.00 101.67 102.87	1.7 1.2	1.4	1.7 1.2	1.0
1999 1959: [8,861.0 2,254.4	8,813.7 2,256.3	2,269.3	4.0	4.4	104.32 21.97	103.65 21.48	104.37 22.01	21.98	1.4	1.5	1.5	
II III IV	2,313.3 2,312.4 2,320.0	2,295.8 2,325.0 2,316.4	2,328.3 2,328.4 2,336.9	10.9 2 1.3	7.2 5.2 –1.5	22.02 22.08 22.17	21.53 21.59 21.68	22.01 22.06 22.16	21.99 22.04 22.14	.8 1.1 1.7	.8 1.1 1.7	.1 .9 1.8	.1 .9 1.8
1960: I II	2,371.4 2,359.7	2,340.9 2,363.1	2,387.7 2,376.4	9.1 -1.9	4.3 3.8	22.22 22.32	21.72 21.82	22.26 22.34	22.24 22.31	.9	.8	1.8 1.4	1.8 1.4
III IV	2,364.1 2,333.7	2,360.5 2,371.4	2,381.4 2,351.8	.7 _5.0	4 1.9	22.42 22.52	21.92 22.02	22.42 22.48	22.39 22.45	1.8 1.8	1.8 1.9	1.4 1.1	1.4 1.1
1961: I II	2,347.2 2,391.1	2,373.2 2,398.5	2,366.3 2,409.4	2.3 7.7	.3 4.3	22.55 22.59	22.04 22.07	22.54 22.58	22.51 22.55	.5	.4	1.0 .8	1.0 .8
III IV	2,430.4 2,479.8	2,417.7 2,472.6	2,449.1 2,499.0	6.7 8.4	3.2 9.4	22.64 22.70	22.12 22.17	22.64 22.72	22.62 22.70	.9 1.0	.9 .9	1.1	1.1 1.4
1962: I II III	2,522.9 2,550.2 2,575.3	2,501.5 2,543.2 2,564.6	2,541.9 2,571.0 2,596.3	7.1 4.4 4.0	4.8 6.8 3.4	22.83 22.90 22.96	22.29 22.37 22.42	22.86 22.90 22.95	22.84 22.87 22.92	2.4 1.1 1.1	2.2 1.3 1.0	2.5 .6 .9	2.5 .6 1.0
IV 1963: I	2,581.8 2,612.4	2,582.9 2,597.6	2,605.6 2,635.1	1.0 4.8	2.9 2.3	23.03 23.12	22.50 22.59	23.02 23.10	23.00 23.07	1.4 1.4	1.4 1.6	1.3 1.3	1.3
II III	2,646.3 2,697.2	2,641.8 2,689.5	2,668.3 2,719.6	5.3 7.9	7.0 7.4 4.1	23.14 23.17	22.62 22.66	23.13 23.17	23.11 23.14	.3	.5	.6 .6	1.3 .6 .6 3.2
IV 1964: I	2,716.8 2,777.3	2,716.8 2,775.9	2,739.8 2,802.3	2.9 9.2	9.0	23.31 23.39	22.80 22.89	23.35 23.42	23.32 23.39	2.5	2.6 1.5	3.2	1.2
II III IV	2,810.2 2,848.0 2,855.3	2,809.7 2,844.1 2,851.1	2,834.3 2,872.9 2,878.6	4.8 5.5 1.0	5.0 5.0 1.0	23.47 23.58 23.69	22.97 23.07 23.17	23.47 23.57 23.69	23.45 23.54 23.66	1.2 2.0 1.9	1.4 1.8 1.7	.9 1.6 2.0	1.0 1.6 2.0
1965: I II	2,925.1 2,964.4	2,895.4 2,947.7	2,951.4 2,991.5	10.1 5.5	6.4 7.4	23.80 23.91	23.26 23.36	23.81 23.92	23.79 23.89	1.9 1.8	1.6 1.8	2.1 1.8	2.1 1.8
III IV	3,024.6 3,096.8	3,003.4 3,084.6	3,050.1 3,120.3	8.4 9.9	7.8 11.3	24.02 24.18	23.48 23.65	24.01 24.18	23.99 24.15	1.8 2.7	1.9 2.9	1.5 2.8	1.6 2.8
1966: I II	3,173.4 3,185.4 2,205.7	3,137.6 3,152.2	3,197.6 3,209.6	10.3 1.5	7.1 1.9	24.32 24.55 24.70	23.77 24.00	24.34 24.53 24.70	24.31 24.51 24.77	2.4 3.8	2.2 3.8	2.6 3.3 4.3	2.7 3.3 4.3 3.5
III IV	3,205.7 3,233.5	3,177.0 3,186.4	3,229.3 3,258.1	2.6 3.5	3.2 1.2	24.79 25.00	24.22 24.41	24.79 25.01	24.77 24.98	4.0 3.5		4.3 3.5	4.3 3.5

	Billions o	f chained (1996)	dollars	Percent change		Chain-type p	price indexes	Implicit pric	e deflators	Pe	ercent change from	n preceding perio	d
Year and quarter	Gross domestic	Final sales of	Gross national		Final sales of	Gross domestic	Gross domestic	Gross domestic	Gross national	Chain-type	price index	Implicit pric	e deflators
	product	domestic product	product	Gross domestic product	domestic product	product	purchases	product	product	Gross domestic product	Gross domestic purchases	Gross domestic product	Gross national product
1967: I	3,263.2	3,218.6	3,287.6	3.7	4.1	25.12	24.51	25.11	25.08	1.9	1.6	1.6	1.6
II	3,261.1	3,252.7	3,284.8	3	4.3	25.28	24.66	25.27	25.24	2.5	2.5	2.5	
III IV	3,284.6 3,309.1	3,268.5 3,297.6	3,310.4 3,334.4	2.9 3.0	1.9 3.6	25.20 25.52 25.80	24.89 25.16	25.53 25.82	25.51 25.79	2.5 3.8 4.5	3.9 4.3	4.3 4.6	1.6 2.5 4.3 4.5
1968: I	3,375.9	3,363.8	3,401.8	8.3	8.3	26.09	25.45	26.11	26.08	4.7	4.7	4.6	4.6
II	3,434.0	3,397.8	3,460.4	7.1	4.1	26.38	25.71	26.38	26.35	4.5	4.2	4.1	4.2
III	3,458.6	3,447.3	3,485.7	2.9	6.0	26.63	25.97	26.63	26.60	3.8	4.1	3.9	3.8
IV	3,473.9	3,469.2	3,500.8	1.8	2.6	26.99	26.33	26.99	26.97	5.6	5.6	5.7	5.6
1969: I	3,529.1	3,505.8	3,556.0	6.5	4.3	27.25	26.56	27.25	27.23	3.8	3.6	3.9	3.9
II	3,539.2	3,522.9	3,565.1	1.1	2.0	27.61	26.92	27.61	27.58	5.4	5.5	5.2	5.2
III	3,560.5	3,541.1	3,585.2	2.4	2.1	28.01	27.30	28.01	27.98	5.9	5.7	5.9	5.9
IV 1970: I	3,544.0 3,539.3	3,540.8 3,551.5	3,568.8 3,564.6	-1.8 5	0 1.2	28.36 28.75	27.65 28.04	28.37	28.34	5.2 5.6	5.3	5.2	5.9 5.2 5.8
II	3,546.1	3,545.2	3,572.3	.8	7	29.17	28.43	29.17	29.14	5.9	5.7	5.7	5.7
III	3,576.0	3,575.6	3,602.0	3.4	3.5	29.41	28.71	29.42	29.39	3.4	4.0	3.4	3.4
IV	3,536.1	3,566.5	3,560.1	-4.4	-1.0	29.81	29.11	29.81	29.78	5.5	5.6	5.5	5.5
1971: I II	3,631.9 3,649.7	3,608.9 3,631.3	3,660.2 3,679.6	11.3	4.8	30.28 30.70	29.56 29.98	30.28 30.70	30.25 30.67	6.5 5.7	6.4 5.7	6.5 5.6	6.5 5.6
III	3,675.8	3,660.2	3,703.2	2.9	3.2	31.03	30.33	31.03	31.00	4.3	4.8	4.4	4.4
IV	3,683.5	3,701.8	3,712.4	.8	4.6	31.30	30.60	31.30	31.27	3.5	3.7	3.5	3.5
1972: I II	3,755.6 3,840.6	3,760.7 3,819.4	3,785.7 3,870.4	8.1 9.4	6.5 6.4	31.77 31.97	31.06 31.29	31.75 31.96	31.72 31.93	6.1 2.6	6.1 3.0	5.8 2.7	5.9 2.7 4.2 5.2
III IV	3,877.2 3,943.3	3,852.1 3,941.0	3,909.4 3,975.5	3.9 7.0	3.5 9.6 8.7	32.29 32.68	31.63 32.01 32.46	32.29 32.71	32.26 32.67	4.1 4.9	4.4 4.9 5.7	4.2 5.2	
1973: I II III	4,040.9 4,081.4 4,066.8	4,023.9 4,042.6 4,050.4	4,077.8 4,120.6 4,111.8	10.3 4.1 -1.4	1.9 .8	33.14 33.69 34.32	33.07 33.67	33.12 33.67 34.28	33.09 33.64 34.24	5.7 6.8 7.7	7.7	5.2 6.9 7.4	5.2 6.9 7.4
IV	4,103.3	4,058.8	4,148.5	3.6	.8	34.89	34.27	34.98	34.94	6.7	7.3	8.4	8.4
1974: I	4,077.5	4,059.9	4,129.7	-2.5	.1	35.55	35.12	35.56	35.53	7.8	10.4	6.8	6.9
II	4,091.8	4,067.1	4,141.1	1.4	.7	36.31	36.09	36.36	36.32	8.8	11.5	9.3	9.3
III	4,048.9	4,054.0	4,093.9	-4.1	–1.3	37.39	37.16	37.41	37.38	12.5	12.4	12.1	12.1
IV	4,028.5	3,992.5	4,067.4	-2.0	–5.9	38.51	38.21	38.52	38.48	12.5	11.8	12.3	12.3
1975: I II	3,978.2 4,012.7	4,022.4 4,066.1	4,011.1 4,046.0	-4.9 3.5	3.0	39.39 39.95	39.04 39.61	39.39 39.95	39.36 39.92	9.4 5.8 7.7	8.9 6.0	9.4 5.8	9.5 5.8 7.5 7.5
III IV	4,080.7 4,129.4	4,100.9 4,146.3	4,116.7 4,172.1	7.0 4.9	4.4 3.5 4.5	40.70 41.43	40.30 41.01	40.68 41.42	40.64 41.39	7.7 7.3	7.1 7.2	7.5 7.5	
1976: I	4,222.1	4,204.9	4,264.0	9.3	5.8	41.92	41.50	41.93	41.89	4.9	4.9	5.0	5.0
II	4,253.6	4,216.5	4,297.2	3.0	1.1	42.40	41.99	42.39	42.35	4.7	4.8	4.5	4.5
III	4,270.8	4,238.6	4,315.1	1.6	2.1	43.02	42.64	43.01	42.97	5.9	6.3	6.0	6.0
IV 1977: I	4,303.6 4,355.4	4,298.3 4,338.5	4,349.1 4,407.0	3.1 4.9	5.8 3.8	43.79 44.52	43.37 44.19	43.81 44.52	43.77 44.48	7.3	7.0	7.6	7.6 6.7
Ⅱ	4,433.3	4,407.5	4,484.0	7.3	6.5	45.26	44.97	45.26	45.22	6.8	7.3	6.8	6.9
	4,513.7	4,453.2	4,564.0	7.5	4.2	45.89	45.66	45.80	45.76	5.7	6.3	4.9	4.9
	4,520.5	4,491.9	4,565.5	.6	3.5	46.65	46.43	46.73	46.69	6.7	6.9	8.3	8.3
IV 1978: I	4,520.5 4,536.2 4,713.6	4,491.9 4,499.5 4,678.9	4,587.6 4,757.1	1.4 16.6	.7 16.9	40.03 47.40 48.32	40.43 47.17 48.08	40.73 47.41 48.30	40.09 47.36 48.26	6.6 8.0	6.5 8.0	5.9 7.8	5.9 7.8
II III IV	4,761.7 4,828.0	4,724.8 4,786.3	4,808.9 4,881.8	4.1 5.7	4.0 5.3	49.15 50.11	48.00 48.91 49.81	49.11 50.08	48.20 49.08 50.05	7.1 8.0	7.1 7.5	6.9 8.2	6.9 8.2
1979: I	4,841.7	4,808.8	4,897.0	1.1	1.9	51.07	50.82	51.03	51.00	7.9	8.3	7.8	7.8
II	4,847.8	4,809.5	4,909.3	.5	.1	52.20	52.00	52.17	52.14	9.2	9.7	9.2	9.3
III IV	4,885.6 4,905.4	4,881.3 4,910.3	4,958.4 4,977.4	3.2 1.6	6.1 2.4	53.23 54.27	53.28 54.57	53.25 54.30	53.22 54.27	8.1 8.0	10.2 10.0	8.5 8.2	8.5 8.2 8.9
1980: I II III	4,926.8 4,829.0 4,823.3	4,929.1 4,832.7 4,896.5	4,999.5 4,896.2 4,886.8	1.8 -7.7 5	1.5 -7.6 5.4	55.44 56.68 57.94	56.05 57.44 58.72	55.47 56.68 57.92	55.44 56.65 57.89	8.9 9.3 9.2	11.3 10.3 9.2	8.9 9.0 9.1	9.0 9.1
IV	4,910.1	4,938.5	4,962.3	7.4	3.5	59.48	60.18	59.45	59.42	11.0	10.3	11.0	
1981: I	5,003.6	4,956.8	5,060.1	7.8	1.5	61.02	61.74	61.01	60.99	10.7	10.8	10.9	
II	4,969.3	4,967.8	5,022.7	-2.7	.9	62.10	62.84	62.11	62.08	7.3	7.3	7.4	7.4
III	5,030.0	4,976.8	5,086.1	5.0	.7	63.29	63.86	63.29	63.27	7.9	6.6	7.9	7.9
IV	4,972.5	4,948.4	5,034.5	-4.5	–2.3	64.42	64.99	64.42	64.40	7.3	7.2	7.3	7.3
1982: I	4,894.6	4,939.7	4,951.5	-6.1	7	65.26	65.79	65.25	65.24	5.4	5.0	5.3	5.3
II	4,916.9	4,935.5	4,980.0	1.8	3	66.09	66.51	66.08	66.06	5.2	4.5	5.2	5.1
III	4,893.5	4,898.2	4,946.8	-1.9	-3.0	67.00	67.39	67.00	66.98	5.6	5.4	5.7	5.7
IV	4,896.1	4,969.2	4,947.2	.2	5.9	67.71	68.07	67.72	67.70	4.3	4.1	4.4	4.4
1983: I	4,948.5	5,011.8	4,999.9	4.3	3.5	68.31	68.51	68.27	68.25	3.6	2.6	3.3	3.3
II	5,063.6	5,086.7	5,118.5	9.6	6.1	68.95	69.12	68.92	68.89	3.8	3.6	3.8	3.8
III	5,152.6	5,172.1	5,208.5	7.2	6.9	69.54	69.68	69.54	69.51	3.5	3.3	3.7	3.7
IV 1984: I	5,257.6 5,374.1	5,239.4	5,315.6 5,427.1	8.4	5.3 3.6	70.14	70.17	70.16	70.13	3.5 4.8	2.8	3.6	3.6 4.6
II	5,465.9	5,383.2	5,519.0	7.0	7.5	71.54	71.57	71.52	71.50	3.3	3.3	3.2	3.2
	5,513.6	5,428.7	5,566.1	3.5	3.4	72.10	72.04	72.09	72.06	3.2	2.7	3.2	3.2
IV 1985: I	5,555.9 5,602.4	5,503.9 5,592.4 5,629.7	5,602.6 5,639.7	3.1 3.4 3.2	5.7 6.6 2.7	72.60 73.36 73.85	72.49 73.12 73.62	72.60 73.36 73.85	72.57 73.33 73.82	2.8 4.3 2.7	2.5	2.8 4.3 2.7	2.8 4.2 2.7
II	5,646.6	5,629.7	5,686.3	3.2	2.7	73.85	73.63	73.85	73.82	2.7	2.8	2.7	2.7
III	5,731.4	5,718.8	5,764.0	6.1	6.5	74.23	74.04	74.20	74.18	2.1	2.2	1.9	1.9
IV	5,778.8	5,745.4	5,815.1	3.4	1.9	74.75	74.69	74.74	74.72	2.8	3.6	2.9	3.0
1986: I	5,831.1	5,801.0	5,862.3	3.7	3.9	75.04	75.02	75.03	75.00	1.6	1.8	1.6	1.6
II	5,856.0	5,845.4	5,877.4	1.7	3.1	75.39	75.16	75.40	75.37	1.9	.7	2.0	1.9
III	5,911.3	5,929.3	5,935.1	3.8	5.9	75.85	75.68	75.84	75.81	2.5	2.8	2.4	2.4
IV	5,944.3	5,967.8	5,959.0	2.2	2.6	76.38	76.23	76.33	76.31	2.8	2.9	2.6	2.6
1987: I	5,990.7	5,962.8	6,007.2	3.2	3	77.02	77.02	76.99	76.97	3.4	4.2	3.5	3.5
II	6,056.1	6,045.8	6,076.9	4.4	5.7	77.54	77.64	77.54	77.51	2.7	3.3	2.9	2.9
III	6,108.3	6,118.8	6,127.9	3.5	4.9	78.09	78.23	78.09	78.07	2.8	3.1	2.9	2.9
IV	6,215.4	6,145.3		3.5 7.2	4.9 1.7	78.71	78.86			2.8 3.2	3.2	3.1	3.1

Table C.1.—Historical Measures of Real Gross Domestic Product, Real Gross National Product, and Real Gross Domestic Purchases—Continued [Quarterly estimates are seasonally adjusted at annual rates]

	Billions o	of chained (1996) dollars	Percent change		Chain-type	price indexes	Implicit pric	e deflators	Pe	ercent change from	n preceding period	ł
Year and quarter	Gross domestic	Final sales of	Gross national		Final sales of	Gross domestic	Gross domestic	Gross domestic	Gross national	Chain-type	price index	Implicit price	e deflators
quarter	product	domestic product	product	Gross domestic product	domestic product	product	purchases	product	product	Gross domestic product	Gross domestic purchases	Gross domestic product	Gross national product
1988: I	6,257.0	6,244.3	6,285.0	2.7	6.6	79.23	79.42	79.22	79.20	2.7	2.9	2.7	2.7
II	6,331.0	6,315.2	6,355.8	4.8	4.6	80.03	80.22	80.03	80.01	4.1	4.1	4.1	4.1
III	6,363.1	6,346.7	6,384.7	2.0	2.0	80.97	80.97	80.96	80.94	4.8	3.8	4.7	4.7
IV	6,445.0	6,427.3	6,469.2	5.2	5.2	81.61	81.69	81.59	81.57	3.2	3.6	3.1	3.2
1989: I	6,522.4	6,471.5	6,546.4	4.9	2.8	82.47	82.61	82.47	82.45	4.3	4.6	4.4	4.4
II	6,556.9	6,520.4	6,579.5	2.1	3.1	83.30	83.51	83.30	83.28	4.1	4.5	4.1	4.1
III	6,586.8	6,582.1	6,612.0	1.8	3.8	83.92	84.01	83.92	83.90	3.0	2.4	3.0	3.0
IV	6,608.7	6,595.6	6,641.0	1.3	.8	84.56	84.71	84.56	84.54	3.1	3.4	3.1	3.1
1990: I	6,689.2	6,678.7	6,719.3	5.0	5.1	85.53	85.79	85.52	85.51	4.7	5.2	4.6	4.7
II	6,705.4	6,671.3	6,737.1	1.0	4	86.51	86.57	86.50	86.47	4.7	3.7	4.6	4.6
III	6,695.4	6,675.2	6,721.0	6	.2	87.31	87.54	87.30	87.28	3.7	4.6	3.8	3.8
IV	6,643.9	6,659.6	6,695.0	-3.0	9	88.03	88.65	88.01	88.00	3.3	5.1	3.3	3.3
1991: I II III IV 	6,616.2 6,658.4 6,680.2 6,721.7	6,637.3 6,682.4 6,684.5 6,692.8	6,653.9 6,683.0 6,700.5 6,750.1	-1.7 2.6 1.3 2.5	-1.3 2.7 .1 .5	88.98 89.54 90.05 90.46	89.27 89.63 90.09 90.59	88.97 89.54 90.06 90.46	88.96 89.53 90.05 90.47	4.4 2.6 2.3 1.8	2.9 1.6 2.1 2.2	4.4 2.6 2.3 1.8	4.4 2.6 2.3 1.9
1992: I	6,792.9	6,798.5	6,819.7	4.3	6.5	91.04	91.13	91.03	91.04	2.6	2.4	2.5	2.5
II	6,859.3	6,839.5	6,885.1	4.0	2.4	91.51	91.66	91.51	91.52	2.1	2.3	2.1	2.1
III	6,912.1	6,895.1	6,934.6	3.1	3.3	91.82	92.11	91.81	91.82	1.3	2.0	1.3	1.3
IV	7,000.0	6,981.7	7,023.7	5.2	5.1	92.44	92.70	92.43	92.44	2.7	2.6	2.7	2.7
1993: I	6,986.9	6,951.9	7,019.5	7	-1.7	93.35	93.44	93.34	93.34	4.0	3.3	4.0	4.0
II	7,024.0	7,001.6	7,049.6	2.1	2.9	93.93	94.06	93.92	93.91	2.5	2.7	2.5	2.5
III	7,050.8	7,046.6	7,082.3	1.5	2.6	94.41	94.45	94.39	94.39	2.0	1.7	2.0	2.0
IV	7,155.0	7,141.1	7,169.8	6.0	5.5	94.97	94.99	94.98	94.97	2.4	2.3	2.5	2.5
1994: I	7,218.5	7,176.3	7,240.1	3.6	2.0	95.42	95.34	95.42	95.42	1.9	1.5	1.9	1.9
II	7,319.8	7,239.8	7,337.0	5.7	3.6	95.85	95.86	95.85	95.85	1.8	2.2	1.8	1.8
III	7,360.5	7,308.9	7,376.6	2.2	3.9	96.41	96.54	96.41	96.40	2.4	2.8	2.4	2.3
IV	7,452.3	7,378.4	7,468.2	5.1	3.9	96.85	96.96	96.85	96.85	1.8	1.8	1.9	1.9
1995: I	7,480.4	7,419.1	7,502.7	1.5	2.2	97.56	97.60	97.55	97.55	2.9	2.7	2.9	2.9
II	7,496.0	7,462.3	7,522.0	.8	2.3	97.96	98.12	97.95	97.95	1.6	2.1	1.7	1.7
III	7,555.0	7,543.4	7,566.7	3.2	4.4	98.39	98.49	98.38	98.38	1.8	1.5	1.8	1.8
IV	7,616.8	7,597.3	7,640.6	3.3	2.9	98.86	98.91	98.85	98.85	1.9	1.7	1.9	1.9
1996: I	7,671.4	7,664.6	7,698.7	2.9	3.6	99.46	99.48	99.45	99.45	2.5	2.3	2.5	2.5
II	7,800.5	7,770.9	7,818.3	6.9	5.7	99.77	99.77	99.77	99.77	1.3	1.2	1.3	1.3
III	7,843.3	7,793.5	7,854.7	2.2	1.2	100.21	100.14	100.20	100.20	1.8	1.5	1.7	1.7
IV	7,937.5	7,903.7	7,953.3	4.9	5.8	100.56	100.62	100.55	100.56	1.4	1.9	1.4	1.4
1997: I	8,033.4	7,981.1	8,038.1	4.9	4.0	101.14	101.09	101.15	101.16	2.4	1.9	2.4	2.4
II	8,134.8	8,042.0	8,144.0	5.1	3.1	101.53	101.23	101.53	101.54	1.5	.6	1.5	1.5
III	8,214.8	8,155.3	8,216.2	4.0	5.8	101.83	101.48	101.82	101.83	1.2	1.0	1.1	1.2
IV	8,277.3	8,204.3	8,277.2	3.1	2.4	102.15	101.76	102.12	102.13	1.3	1.1	1.2	1.2
1998: I	8,412.7	8,307.0	8,414.8	6.7	5.1	102.41	101.79	102.35	102.36	1.0	.1	.9	.9
II	8,457.2	8,410.4	8,456.6	2.1	5.1	102.70	101.99	102.68	102.69	1.1	.8	1.3	1.3
III	8,536.0	8,459.6	8,510.6	3.8	2.4	103.06	102.26	103.07	103.07	1.4	1.1	1.5	1.5
IV	8,659.2	8,588.3	8,641.9	5.9	6.2	103.28	102.51	103.33	103.34	.9	1.0	1.0	1.0
1999: I II III IV	8,737.9 8,778.6 8,900.6 9,026.9	8,685.2 8,757.9 8,855.8 8,955.9	8,723.3 8,764.3 8,885.5	3.7 1.9 5.7 5.8	4.6 3.4 4.5 4.6	103.79 104.13 104.41 104.94	102.92 103.40 103.85 104.44	103.83 104.19 104.46 104.99	103.84 104.19 104.47	2.0 1.3 1.1 2.0	1.6 1.9 1.7 2.3	2.0 1.4 1.1 2.0	2.0 1.4 1.0

Table C.1.—Historical Measures of Real Gross Domestic Product, Real Gross National Product, and Real Gross Domestic Purchases—Continued [Quarterly estimates are seasonally adjusted at annual rates]

1999

February 2000

This table presents data collected from other government agencies and private organizations, as noted. Quarterly data are shown in the middle month of the quarter.

	4000	4000		00						10	00					
	1998	1999	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
					Consu	mer and	producer	prices, (m	onthly da	ta season	ally adjus	ted) 1				
Consumer price index for all urban consumers, 1982–84=100: All items Less food and energy Services	163.0 173.4 184.2	166.6 177.0 188.8	164.2 175.0 186.0	164.4 175.6 186.3	164.6 175.7 186.5	164.7 175.8 186.9	165.0 176.0 187.5	166.2 176.7 188.1	166.2 176.9 188.3	166.2 177.0 188.5	166.7 177.3 189.0	167.2 177.5 189.3	167.9 178.1 189.8	168.2 178.4 190.2	168.4 178.8 190.9	168.8 179.0 191.1
Producer price index, 1982=100: Finished goods Less food and energy Finished consumer goods Capital equipment Intermediate materials Crude materials	130.7 143.7 128.9 137.6 123.0 96.8	133.1 146.1 132.1 137.6 123.2 98.2		131.3 145.9 129.7 137.7 121.1 90.4	131.7 145.6 130.2 137.6 121.1 90.9	131.1 145.7 129.5 137.7 120.7 88.8	131.5 145.6 130.0 137.5 121.1 89.1	132.2 145.7 130.9 137.7 121.9 91.3	132.4 145.8 131.2 137.7 122.3 96.9	132.4 145.6 131.2 137.4 122.7 97.2	132.7 145.7 131.7 137.3 123.5 97.3	133.4 145.6 132.6 137.2 124.2 102.2	134.7 146.6 134.2 137.6 124.7 106.5	134.5 147.0 133.8 138.0 125.1 104.8	134.8 147.0 134.3 137.9 125.5 109.0	135.2 147.2 134.8 138.1 125.8 104.7
						Ν	Noney, int	erest rate	s, and sto	ock prices			1			
Money stock (monthly and quarterly data seasonally adjusted): ² Percent change: M1 Ratic:			0.79 .89	0.40 .85	-0.21 .55	0.16 .47	0.85 .22	0.58 .74	-0.32 .40	-0.33 .37	-0.14 .47	0.26 .49	-0.81 .42	0.46 .43	0.85 .46	1.54 .76
Gross domestic product to M1 Personal income to M2	8.113 1.743	8.387 1.717	8.225 1.731	1.716	1.717	8.281 1.718	1.718	1.714	8.276 1.713	1.721	1.718	8.460 1.717	1.711	1.724	8.531 1.723	1.715
Interest rates (percent, not seasonally adjusted): ² Federal funds rate Discount rate on new 91-day Treasury bills Yield on new high-grade corporate bonds 10-Year U.S. Treasury bonds Yield on municipal bonds, 20-bond average Mortgage commitment rate Average prime rate charged by banks	5.35 4.81 6.44 5.26 5.09 6.94 8.35	4.97 4.66 7.00 5.65 5.43 7.43 8.00		4.68 4.42 6.13 4.65 4.98 6.72 7.75	4.72 5.01 6.79	4.76 4.45 6.33 5.00 5.03 6.81 7.75	4.81 4.48 6.52 5.23 5.10 7.04 7.75	4.74 4.28 6.58 5.18 5.08 6.92 7.75	4.74 4.51 6.86 5.54 5.18 7.15 7.75	4.76 4.59 7.21 5.90 5.37 7.55 7.75	4.99 4.60 7.20 5.79 5.36 7.63 8.00	5.07 4.76 7.36 5.94 5.58 7.94 8.06	5.22 4.73 7.38 5.92 5.69 7.82 8.25	5.20 4.88 7.51 6.11 5.92 7.85 8.25	5.42 5.07 7.35 6.03 5.86 7.74 8.37	5.30 5.23 7.55 6.28 5.95 7.91 8.50
Index of stock prices (not seasonally adjusted): ³ 500 common stocks, 1941–43=10	1,084.31	1,326.06	1,144.43	1,190.05	1,248.77	1,246.58	1,281.66	1,334.76	1,332.07	1,322.55	1,380.99	1,327.49	1,318.17	1,300.01	1,391.00	1,428.68
			Lab	or market	s (thousa	nds, mont	thly and q	uarterly d	ata seaso	onally adju	sted, unle	ess otherv	vise noted	i) ¹		
Civilian labor force Labor force participation rates (percent): Males 20 and over Females 20 and over 16–19 years of age Civilian employment Ratio, civilian employment to working-age	137,673 76.8 60.4 52.8 131,463	139,368 76.7 60.7 52.0 133,488	76.8 60.5 52.4	76.8 60.6 52.8		76.9 60.7 52.9	76.7 60.7 52.0	139,086 76.7 60.8 52.0 133,054	76.6 60.7 51.9	76.6 60.9 51.4	139,336 76.6 60.7 51.8 133,399	76.6 60.7 51.2		76.5 60.7 52.1	139,834 76.5 60.7 52.1 134,098	76.6 60.7 52.3
population (percent) Persons engaged in nonagricultural activities Employees on nonagricultural payrolls Goods-producing industries Services-producing industries Average weekly hours, manufacturing (hours) Average weekly overtime hours, manufacturing (hours)	64.1 128,085 125,826 25,347 100,480 41.7 4.6	64.3 130,207 128,610 25,240 103,370 41.7 4.6	25,298	64.2 129,276 127,186 25,354 101,832 41.7 4.5	127,378 25,315	25,329	64.2 129,686 127,813 25,285 102,528 41.5 4.5	64.2 129,713 128,134 25,288 102,846 41.6 4.3	64.2 129,900 128,162 25,199 102,963 41.7 4.6	64.2 130,068 128,443 25,180 103,263 41.7 4.7	128,816 25,247	25,148	129,048	64.2 130,702 129,332 25,198 104,134 41.8 4.7	64.3 130,788 129,554 25,260 104,294 41.7 4.6	64.4 131,141 129,869 25,277 104,592 41.7 4.7
Number of persons unemployed	4.0 6,210	4.6 5,880		4.5 6,028	4.5 6,007	4.5 6,108	4.5 5,828	4.3 6,032	4.6 5,823	4.7 5,934	4.7 5,937	4.7 5,842	5,825	4.7 5,757	4.0 5,736	4.7 5,688
Unemployment rates (percent): Total	4.5 1.2 14.5	4.2 1.1 13.4	4.4 1.2 14.4	4.4 1.1 14.0	4.3 1.1 13.5	4.4 1.1 13.8	4.2 1.1 13.6	4.3 1.1 13.2	4.2 1.1 13.4	4.3 1.2 14.3	4.3 1.1 13.5	4.2 1.0 13.2		4.1 1.0 13.2	4.1 1.0 13.0	4.1 1.0 12.8
Nonfarm business sector, 1992=100:	110.2		111 5			112.2			112.4			113.8				

112.2

109.8 123.3

112.4

111.0 124.7

113.8

110.9 126.2

Table D.1.—Domestic Perspectives

1998

See footnotes at the end of the table

Output per hour of all persons

Unit labor costs Hourly compensation 110.2

108.6 119.7

111.5

109.4 122.0

Table D.1.—Domestic Perspectives—Continued

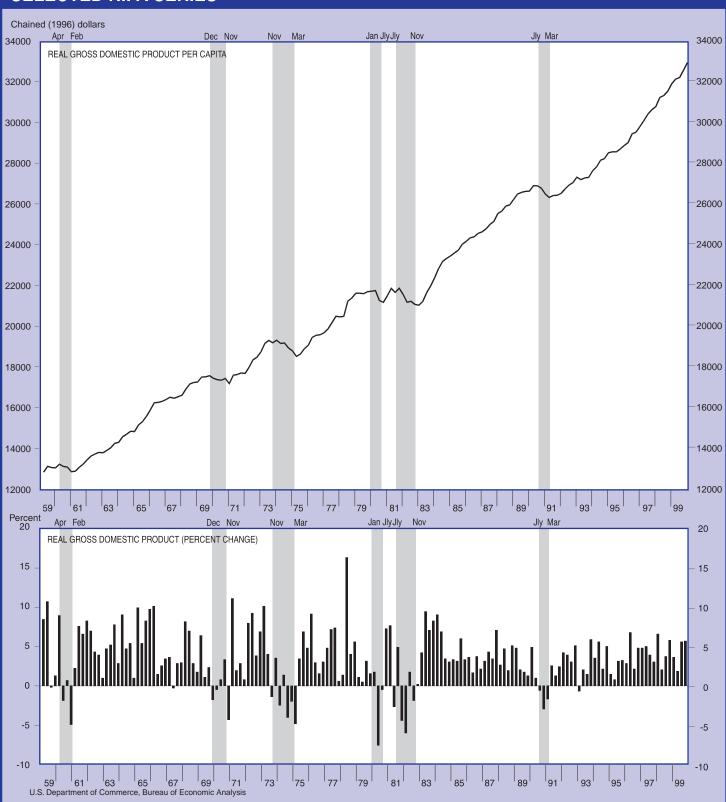
	1998	1999	19	98						1999)					
	1000	1000	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
					Co	nstruction	(monthly d	ata season	ally adjuste	ed at annua	al rates)4					
Total new private construction put in place (billions of dollars) Residential Nonresidential	520.1 294.3 181.9	547.0 321.7 184.0	534.7 306.3 186.6	541.6 310.3 190.0	543.5 315.8 185.8	548.7 318.5 189.0	555.4 323.1 189.3	547.9 322.2 184.4	546.9 321.8 184.2	546.9 320.9 182.9	546.0 320.3 183.3	541.8 319.7 181.0	540.9 320.0 180.9	543.8 322.7 180.8	325.7	554.5 330.5 183.3
Housing starts (thousands of units): Total 1-unit structures	1,617 1,271	1,663 1,332	1,654 1,375	1,750 1,383	1,820 1,393	1,752 1,380	1,746 1,394	1,577 1,260	1,668 1,389	1,607 1,305	1,680 1,332	1,655 1,289	1,637 1,295	1,642 1,339		1,712 1,402
New 1-family houses sold (thousands of units)	886	904	985	958	908	909	885	952	914	932	929	912	860	919	861	900
				Manufactu	ring and tra	ade, invent	ories and s	ales (millio	ns of dolla	rs, monthly	data seas	onally adju	sted) 4			
Inventories: Total manufacturing and trade Manufacturing Merchant wholesalers Retail trade	1,095,042 466,798 287,484 340,760		1,095,041 471,000 285,615 338,426	1,095,042 466,798 287,484 340,760	1,095,209 464,867 286,698 343,644	1,098,308 464,198 288,638 345,472	1,103,619 463,578 289,360 350,681	1,105,654 463,194 289,636 352,824	1,108,901 463,742 290,216 354,943	1,112,311 462,690 291,367 358,254	1,115,790 465,043 293,982 356,765	1,119,251 464,351 295,558 359,342	1,124,016 465,669 298,469 359,878	1,127,772 467,522 299,793 360,457	1,137,494 469,656 302,947 364,891	
Sales: Total manufacturing and trade Manufacturing Merchant wholesalers Retail trade	9,333,267 4,052,248 2,535,008 2,746,011		788,042 341,423 212,157 234,462	796,583 344,247 215,550 236,786		803,481 343,724 216,138 243,619	812,055 349,065 219,595 243,395	812,237 347,568 219,921 244,748	821,761 350,624 223,909 247,228	829,593 354,702 227,863 247,028	834,062 357,301 227,293 249,468	844,439 361,844 229,827 252,768	842,647 358,709 231,135 252,803	846,797 360,201 233,048 253,548	857,765 364,518 236,805 256,442	
				Industi	rial producti	ion indexes	and capa	city utilizati	ion rates (r	nonthly dat	a seasonal	ly adjusted) 2			
Industrial production indexes, 1992=100: Total By industry: Durable manufactures Nondurable manufactures	132.4 160.7 111.6	137.2 172.8 111.8	133.8 165.4 111.6	133.8 166.2 111.1	134.1 166.3 111.3	134.5 166.8 112.3	135.1 168.1 111.8	135.5 169.4 111.5	136.2 170.8 111.9	136.6 172.2 111.3	137.4 173.8 111.0	137.7 174.4 111.5	138.1 175.0 111.8	139.4 176.4 113.1	177.7	140.5 177.9 114.0
By market category: Consumer goods	116.2	117.2	115.6	115.1	116.3	117.2	116.7	116.5	116.8	117.0	116.8	117.6	117.1	118.9		119.1
Capacity utilization rates (percent): Total industry Manufacturing	81.8 80.9	80.7 79.8	80.9 80.2	80.6 79.9	80.4 79.6	80.4 79.7	80.5 79.6	80.4 79.5	80.5 79.7	80.5 79.6	80.7 79.7	80.7 79.7	80.6 79.7	81.2 80.2	81.2 80.4	
				Credit	market borr	rowing (bill	ons of dol	ars, quarte	rly data se	asonally ac	djusted at a	innual rate	S) ²			
All sectors, by instrument: Total Open market paper U.S. government securities Municipal securities Corporate and foreign bonds Bank loans, n.e.c. Other loans and advances Mortgages Consumer credit	2,126.5 193.1 418.3 96.8 535.6 145.0 158.5 511.4 67.6	······	619.1 89.6 440.9 143.0 262.7			2,519.6 161.1 517.0 100.7 765.7 62.1 189.8 594.0 129.2			467.0 48.0 564.8			570.1 74.8 380.2 99.6 231.5				

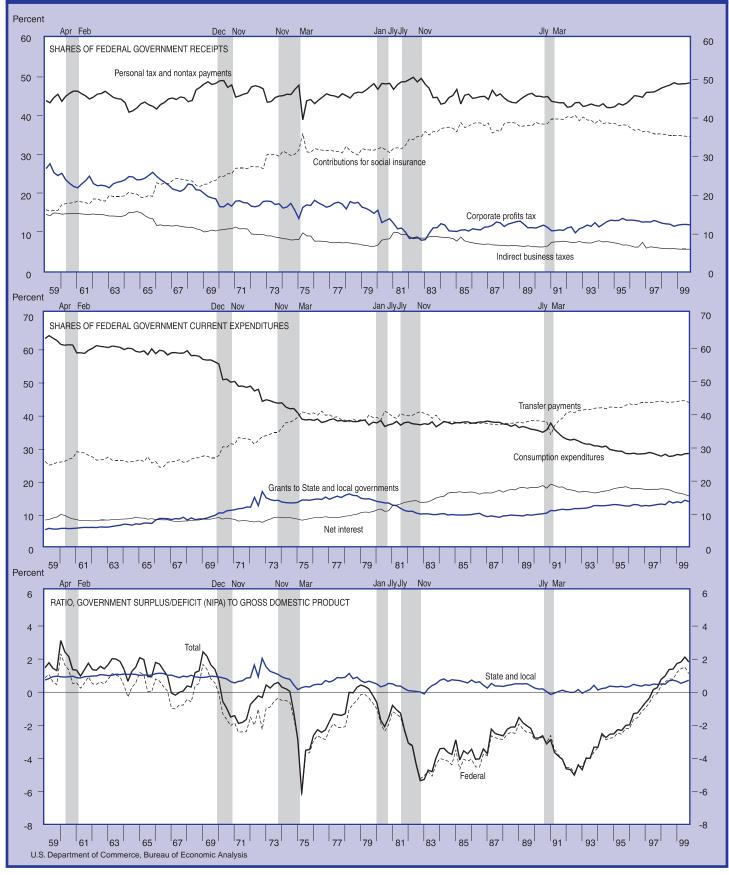
Sources: 1. Bureau of Labor Statistics 2. Federal Reserve Board

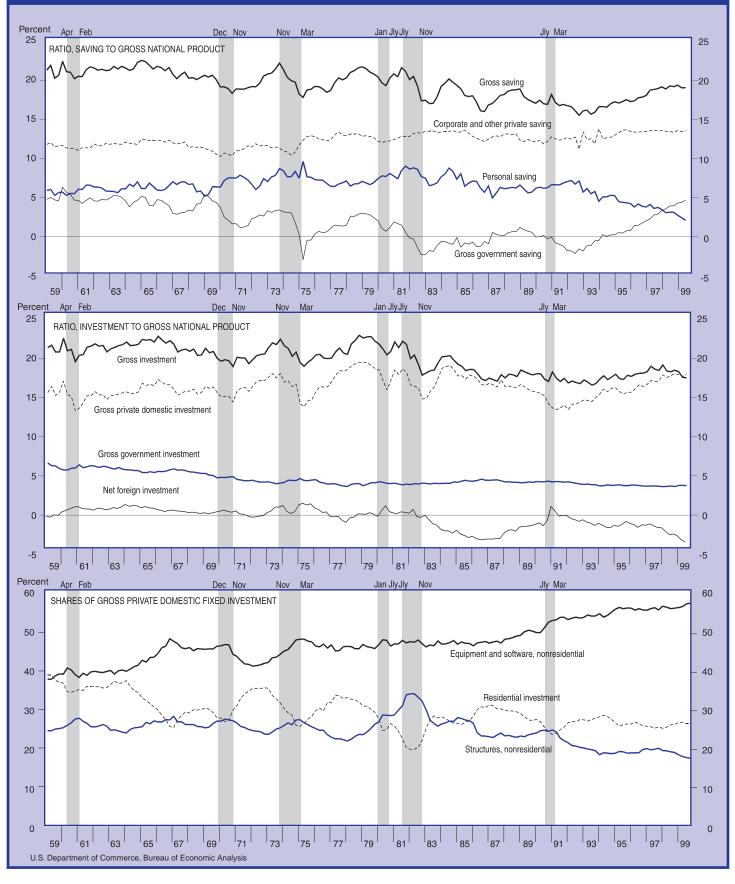
Standard and Poor's, Inc.
 Bureau of the Census n.e.c. Not elsewhere classified

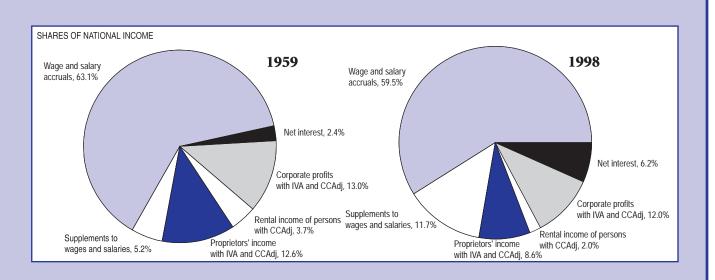
E. Charts

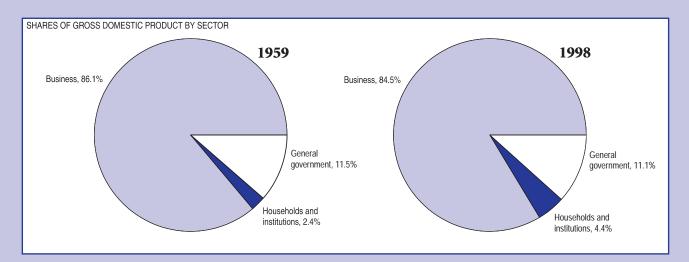
Percent changes shown in this section are based on quarter-to-quarter changes and are expressed at seasonally adjusted annual rates; likewise, levels of series are expressed at seasonally adjusted annual rates as appropriate.

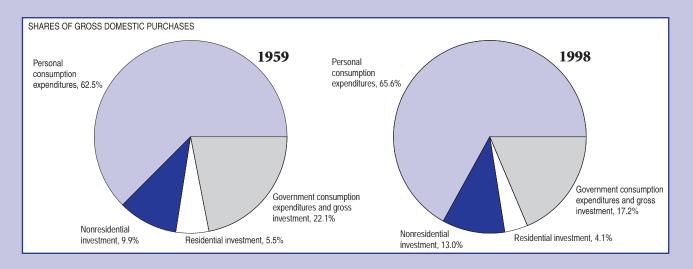


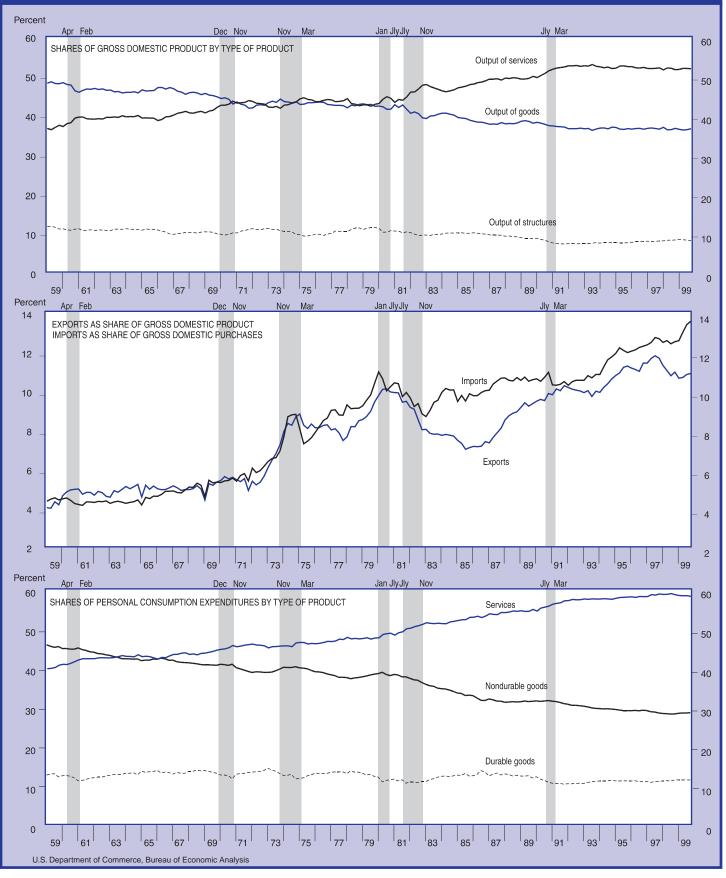


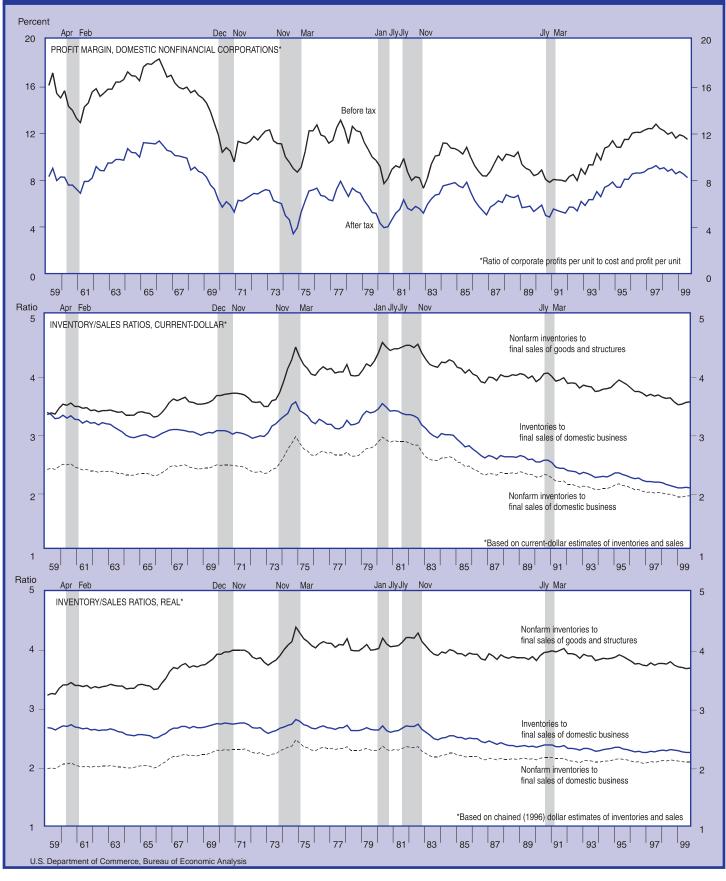




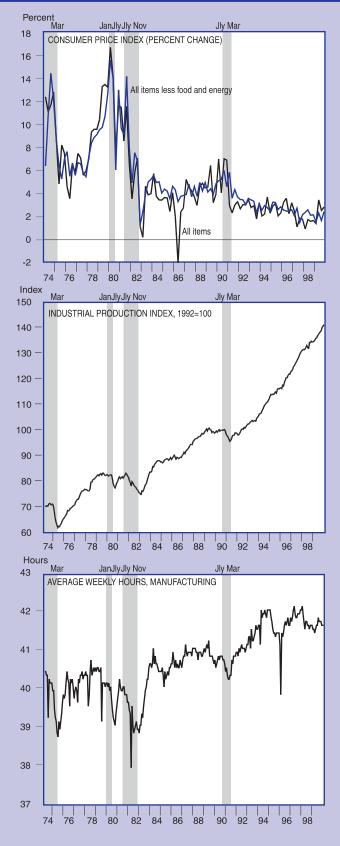


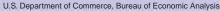






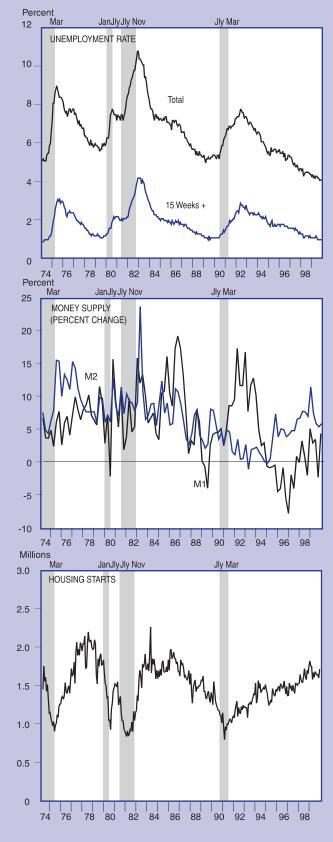
OTHER INDICATORS OF THE DOMESTIC ECONOMY

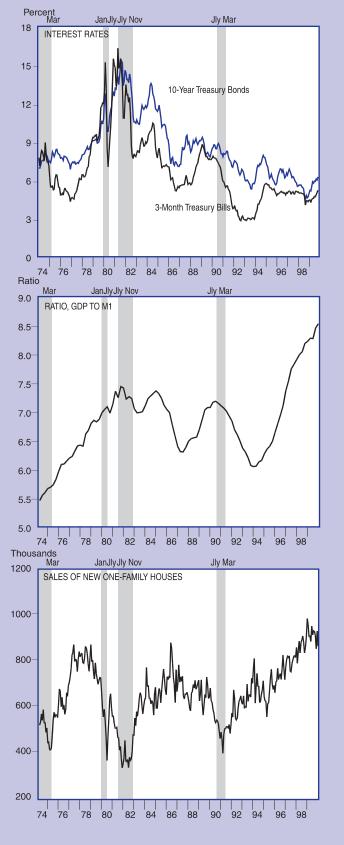


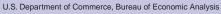




OTHER INDICATORS OF THE DOMESTIC ECONOMY







International Data

F. Transactions Tables

Table F.1 includes the most recent estimates of U.S. international trade in goods and services; the estimates were released on January 20, 2000 and include "preliminary" estimates for November 1999 and "revised" estimates for October 1999. The sources for the other tables in this section are as noted.

Table F.1.-U.S. International Transactions in Goods and Services

[Millions of dollars; monthly estimates seasonally adjusted]

				,				· ·								
	1997	1998		1998							1999					
	1997	1990	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct. r	Nov. ^p
Exports of goods and services	938,543	933,907	79,617	79,126	78,161	77,833	77,025	77,047	78,062	77,893	78,557	78,815	82,171	82,025	82,334	82,891
Goods	679,715 51,507 158,226 294,549 74,029 77,366 33,505 -9,468	670,246 46,397 148,266 299,612 73,157 79,261 35,444 -11,892	57,193 4,018 12,371 26,117 6,156 6,620 3,119 -1,208	56,926 3,866 12,483 25,696 6,341 6,647 3,500 -1,608	56,005 3,992 11,832 25,470 6,186 6,530 3,181 -1,186	55,263 3,641 11,269 25,619 6,049 6,573 3,066 -953	54,704 3,602 11,383 24,895 5,969 6,805 3,163 -1,113	54,326 3,559 11,430 24,900 5,845 6,517 3,113 -1,038	55,269 3,741 11,606 25,085 6,174 6,737 2,919 -994	55,121 3,736 11,746 24,954 6,086 6,501 3,240 -1,143	55,472 3,842 11,720 24,842 6,501 6,544 3,225 -1,202	55,890 3,812 11,527 25,741 6,098 6,653 3,090 -1,032	59,139 3,933 12,523 27,357 6,692 6,582 2,909 -855	58,934 4,032 13,127 26,723 6,203 6,911 3,086 -1,149	58,927 4,039 13,312 26,359 6,311 6,749 3,058 -900	59,543 3,818 13,860 26,599 6,249 6,959 2,745 -687
Services	258,828 73,301 20,789 27,006 33,781 85,566 17,561 824	263,661 71,250 19,996 25,518 36,808 92,116 17,155 818	22,424 5,953 1,627 2,253 3,266 7,821 1,435 69	22,200 5,904 1,626 2,197 3,314 7,672 1,417 70	22,156 6,081 1,590 2,125 3,314 7,747 1,229 70	22,570 5,973 1,621 2,128 3,144 7,879 1,757 68	22,321 6,031 1,659 2,129 3,105 8,037 1,291 69	22,721 6,134 1,715 2,244 3,088 8,179 1,292 69	22,793 6,183 1,731 2,239 3,122 8,159 1,289 70	22,772 6,097 1,743 2,212 3,123 8,146 1,380 71	23,085 6,157 1,766 2,280 3,120 8,226 1,430 106	22,925 6,093 1,760 2,252 3,106 8,247 1,399 68	23,032 6,052 1,768 2,342 3,104 8,213 1,485 68	23,091 6,177 1,804 2,327 3,107 8,236 1,373 67	23,407 6,342 1,871 2,368 3,120 8,344 1,293 69	23,348 6,241 1,838 2,368 3,124 8,432 1,276 69
Imports of goods and services	1,043,273	1,098,189	93,975	93,789	92,402	93,979	95,540	96,358	96,945	99,376	103,275	104,155	106,124	106,177	107,897	109,394
Goods	876,366 39,694 213,767 253,282 139,812 193,811 29,338 6,662	917,178 41,243 200,140 269,557 149,054 216,515 35,387 5,282	78,183 3,432 16,549 22,948 13,045 18,402 3,217 592	78,464 3,445 16,241 23,132 13,377 18,470 3,278 522	77,064 3,515 15,289 22,466 13,887 18,362 3,278 267	78,612 3,528 15,537 23,082 13,989 18,911 3,393 171	79,876 3,516 15,388 23,645 14,306 19,447 3,364 213	80,006 3,384 16,037 23,038 14,611 18,925 3,784 226	80,603 3,548 16,965 23,279 13,706 19,351 3,483 271	83,020 3,635 17,974 24,199 14,588 18,908 3,503 213	86,651 3,759 18,199 25,460 15,473 19,919 3,563 277	87,312 3,674 18,670 25,492 15,466 20,204 3,610 197	89,271 3,669 19,932 25,134 15,727 20,246 4,095 468	89,145 3,709 20,251 24,928 15,360 20,266 3,768 863	90,743 3,637 20,839 25,844 15,075 20,930 3,904 514	91,988 3,720 20,753 26,180 15,531 21,168 3,716 920
Services Travel Passenger fares Other transportation Royalties and license fees Other private services Direct defense expenditures ² U.S. Government miscellaneous services	166,907 52,051 18,138 28,959 9,390 43,909 11,698 2,762	181,011 56,105 19,797 30,457 11,292 47,670 12,841 2,849	15,792 4,832 1,771 2,760 950 4,108 1,120 251	15,325 4,602 1,695 2,588 974 4,082 1,135 249	15,338 4,697 1,659 2,501 999 4,086 1,151 245	15,367 4,742 1,627 2,508 1,040 4,064 1,157 229	15,664 4,890 1,678 2,528 1,061 4,113 1,168 226	16,352 5,215 1,809 2,690 1,075 4,158 1,178 227	16,342 5,057 1,767 2,695 1,077 4,321 1,186 239	16,356 4,951 1,758 2,739 1,070 4,398 1,197 243	16,624 4,952 1,791 2,928 1,050 4,446 1,210 247	16,843 5,033 1,833 2,961 981 4,519 1,265 251	16,853 5,028 1,801 3,108 968 4,456 1,240 252	17,032 5,130 1,822 3,033 972 4,477 1,345 253	17,154 5,233 1,833 3,017 1,012 4,499 1,309 251	17,406 5,277 1,862 3,078 1,039 4,594 1,306 250
Memoranda: Balance on goods Balance on services Balance on goods and services	-196,652 91,921 -104,731	-246,932 82,650 -164,282	-20,990 6,632 -14,358	-21,539 6,875 -14,664	-21,059 6,818 -14,241	-23,350 7,203 -16,147	-25,173 6,657 -18,516	-25,681 6,369 -19,312	-25,334 6,451 -18,883	-27,899 6,416 -21,483	-31,179 6,461 -24,718	-31,422 6,082 -25,340	-30,132 6,179 -23,953	-30,211 6,059 -24,152	-31,815 6,253 -25,562	-32,444 5,942 -26,502

^p Preliminary r Revised.

2. Contains goods that cannot be separately identified. Source: U.S. Department of Commerce, Bureau of Economic Analysis and Bureau of the Census

Reflects adjustments necessary to bring the Census Bureau's component data in line with the concepts and definitions used to prepare BEA's international and national accounts.

Table F.2.-U.S. International Transactions

[Millions of dollars]

			livillions	Ji uullai 3j										
				No	ot seasonal	ly adjusted					Seasonally	adjusted		
Line	(Credits +; debits -) ¹	1998		1998			1999			1998			1999	
			Ш	Ш	IV	I	r	<i>p</i>	Ш	III	IV	I	r	<i>P</i>
	Current account													
1	Exports of goods and services and income receipts	1,192,231	299,641	288,254	303,581	293,632	302,257	308,910	298,463	291,493	299,985	295,932	301,369	312,189
2	Exports of goods and services	933,907	232,905	226,261	241,003	229,124	235,175	239,619	231,889	229,284	236,904	231,904	234,512	242,626
3 4	Goods, balance of payments basis ² Services ³	670,246 263,661	168,021 64.884	157,386 68,875	174,468 66,535	163,344 65,780	168,453 66,722	166,436 73,183	165,198 66,691	164,259 65,025	170,124 66,780	164,292 67,612	165,862 68,650	173,578 69.048
5	Transfers under U.S. military agency sales contracts ⁴	17,155	4,489	3,979	4,081	4,340	4,099	4,257	4,489	3,979	4,081	4,340	4,099	4,257
6 7	Travel Passenger fares	71,250 19,996	18,119 5,000	20,354 5,733	17,125 4,682	15,809 4,651	18,271 5,049	21,661 6,051	18,260 5,185	17,149 5,052	17,938 4,843	18,138 4,995	18,437 5,240	18,322 5,332
8	Other transportation	25,518	6,261	6,367	6,689	6,362	6,727	6,951	6,268	6,339	6,575	6,501	6,731	6,921
9 10	Royalties and license fees ⁵	36,808 92,116	8,716 22,108	8,866 23,377	10,571 23,178	9,124 25,288	9,063 23,266	9,189 24,871	9,002 23,296	9,029 23,278	9,894 23,240	9,337 24,095	9,365 24,531	9,317 24,696
11	U.S. Government miscellaneous services	818	191	199	209	206	247	203	191	199	209	206	247	203
12 13	Income receipts Income receipts on U.Sowned assets abroad	258,324 256,467	66,736 66,273	61,993 61,528	62,578 62,113	64,508 64,038	67,082 66,611	69,291 68,821	66,574 66,111	62,209 61,744	63,081 62,617	64,028 63,558	66,857 66,386	69,563 69,093
14	Direct investment receipts	102,846	27,095	22,779	25,168	27,313	28,890	29,539	26,744	23,124	25,639	26,910	28,486	29,916
15 16	Other private receipts U.S. Government receipts	150,001 3,620	38,412 766	37,744 1,005	36,019 926	35,760 965	37,072 649	38,426 856	38,412 955	37,744 876	36,019 959	35,760 888	37,072 828	38,426 751
17 18	Compensation of employees	1,857	463 - 341,493	465 - 351,539	465 - 351,384	470 - 342,780	471 - 371,764	470 - 397,886	463	465 - 344,182	464 - 348,180	470	471	470 - 390,934
18	Imports of goods and services and income payments Imports of goods and services	-1,368,718 -1,098,189	-273,914	-282,050	-283,536	-275,023	-299,857	-397,000	- 340,977 -273,850	-275,008	-280,166	-354,246 -285,878	-371,066 -299,597	- 390,934 -316,451
20	Goods, balance of payments basis ²	-917,178	-227,633	-232,395	-239,118	-230,903	-249,336	-268,109	-228,698	-229,228	-233,711	-238,495	-250,274	-265,723
21 22	Services ³	-181,011	-46,281	-49,655	-44,418	-44,120	-50,521	-54,955 -3,850	-45,152	-45,780	-46,455	-47,383	-49,323	-50,728
22	Direct defense expenditures Travel	-12,841 -56,105	-3,061 -15,193	-3,276 -17,234	-3,406 -12,016	-3,503 -12,543	-3,593 -16,063	-18,636	-3,061 -14,168	-3,276 -14,070	-3,406 -14,131	-3,503 -14,847	-3,593 -14,960	-3,850 -15,191
24 25	Passenger fares	-19,797	-5,325	-5,722	-4,518	-4,691	-5,711	-6,147	-4,958	-5,085	-5,125	-5,114	-5,316	-5,456
	Other transportation Rovalties and license fees 5	-30,457 -11,292	-7,533 -2,587	-7,820 -2,685	-7,957 -3,081	-7,554 -3,162	-8,290 -3,073	-9,230 -2,881	-7,590 -2,694	-7,700 -2,721	-7,849 -2,923	-7,726 -3,176	-8,362 -3,197	-9,102 -2,921
26 27 28	Royalties and license fees ⁵ Other private services ⁵ U.S. Government miscellaneous services	-47,670 -2,849	-11,915 -667	-12,153 -765	-12,695 -745	-11,985 -682	-13,062 -729	-13,455 -756	-12,014 -667	-12,163 -765	-12,276 -745	-12,335 -682	-13,166 -729	-13,452 -756
29	Income payments	-270,529	-67,579	-69,489	-67,848	-67,757	-71,907	-74,822	-67,127	-69,174	-68,014	-68,368	-71,469	-74,483
30 31	Income payments on foreign-owned assets in the United States Direct investment payments	-263,423 -43,441	-65,898 -11,089	-67,631 -11,540	-65,907 -10,800	-66,024 -11,596	-70,138 -15,023	-72,871 -14,517	-65,376 -10,567	-67,381 -11,290	-66,188 -11,081	-66,504 -12,076	-69,611 -14,496	-72,613 -14,259
32	Other private payments	-128,863	-31,849	-33,314	-32,408	-31,759	-31,960	-34,207	-31,849	-33,314	-32,408	-31,759	-31,960	-34,207
33 34	U.S. Government payments Compensation of employees	-91,119 -7,106	-22,960 -1,681	-22,777 -1,858	-22,699 -1,941	-22,669 -1,733	-23,155 -1,769	-24,147 -1,951	-22,960 -1,751	-22,777 -1,793	-22,699 -1,826	-22,669 -1,864	-23,155 -1,858	-24,147 -1,870
35	Unilateral current transfers, net	-44,075	-9,494	-10,607	-13,831	-10,420	-10,744	-11,179	-9,886	-10,787	-13,474	-10,340	-11,212	-11,204
36 37	U.S. Government grants ⁴ U.S. Government pensions and other transfers	-13,057 -4,350	-2,168 -919	-2,807 -865	-5,742 -1,541	-2,200 -893	-2,760 -857	-2,700 -997	-2,168 -1,095	-2,807 -1,106	-5,742 -1,071	-2,200 -1,104	-2,760 -1,116	-2,700 -1,107
38	Private remittances and other transfers 6 Capital and financial account	-26,668	-6,407	-6,935	-6,548	-7,327	-7,127	-7,482	-6,623	-6,874	-6,661	-7,036	-7,336	-7,397
	Capital account													
39	Capital account transactions, net	617	160	148	166	166	178	166	160	148	166	166	178	166
40	Financial account U.Sowned assets abroad, net (increase/financial outflow (-))	-292,818	-121,852	-63,492	-44,586	-18,746	-156.044	-102,510	-120,517	-62,097	-50,607	-15,148	-154,713	-101,483
41	U.S. official reserve assets, net	-6,784	-1,945	-2,026	-2,369	4,068	1,159	1,950	-1,945	-2,026	-2,369	4,068	1,159	1,950
42 43	Gold 7 Special drawing rights	-149		188	-227	563	-190	-185			-227	563	-190	-185
44 45	Reserve position in the International Monetary Fund Foreign currencies	-5,118 -1,517	-1,031 -986	-2,078 -136	-1,924 -218	3 3,502	1,413 -64	2,268 -133	-1,031 -986	-2,078 -136	-1,924 -218	3 3,502	1,413 -64	2,268 -133
46	U.S. Government assets, other than official reserve assets, net	-429	-483	185	-50	119	-392	-673	-483	185	-50	119	-392	-673
47 48	U.S. credits and other long-term assets Repayments on U.S. credits and other long-term assets ⁸	-4,676 4,102	-1,156 699	-1,285 1,332	-1,043 938	-1,304 1,545	-2,167 1,887	-1,591 1,020	-1,156 699	-1,285 1,332	-1,043 938	-1,304 1,545	-2,167 1,887	-1,591 1,020
49	U.S. foreign currency holdings and U.S. short-term assets, net	145	-26	138	55	-122	-112	-102	-26	138	55	-122	-112	-102
50 51	U.S. private assets, net Direct investment	-285,605 -132,829	-119,424 -44.507	-61,651 -22,981	-42,167 -24,752	-22,933 -44,983	-156,811 -32,897	-103,787 -45,562	-118,089 -43,172	-60,256 -21,586	-48,188 -30,773	-19,335 -41,385	-155,480 -31,566	-102,760 -44,535
51 52 53	Foreign securities U.S. claims on unaffiliated foreigners reported by U.S. nonbanking concerns	-102,817 -25.041	-32,886 -14,327	14,994 -20,320	-70,809 16,202	8,132 -13,853	-64,579 -16,816	-26,511 -32,098	-32,886 -14,327	14,994 -20,320	-70,809 16,202	8,132 -13,853	-64,579 -16,816	-26,511 -32,098
54	U.S. claims reported by U.S. banks, not included elsewhere	-24,918	-27,704	-33,344	37,192	27,771	-42,519	-32,098 384	-27,704	-33,344	37,192	27,771	-42,519	-32,098 384
55	Foreign-owned assets in the United States, net (increase/financial inflow(+))	502,637		94,776	147,893	88,636	275,220		162,466	93,547	149,805	88,860	274,271	207,153
56 57	Foreign official assets in the United States, net	-21,684 -3,625	-10,551 -20,064	-46,489 -30,905	24,352 33,398	4,708 6,793	-628 -916	12,106 14,812	-10,551 -20,064	-46,489 -30,905	24,352 33,398	4,708 6,793	-628 -916	12,106 14,812
57 58 59	U.S. Treasury securities ⁹	-9,957 6,332	-20,318 254	-32,811 1,906	31,836 1,562	800 5,993	-6,708 5,792	12,880 1,932	-20,318 254	-32,811 1,906	31,836	800 5,993	-6,708 5,792	12,880 1,932
60	Other U.S. Government liabilities ¹¹	-3,113	-807	-224	-1,054	-1,594	-647	-1,163	-807	-224	1,562 -1,054	-1,594	-647	-1,163
61 62	Other ¹⁰ Covernment liabilities ¹¹ U.S. liabilities reported by U.S. banks, not included elsewhere Other foreign official assets ¹²	-11,469 -3,477	9,488 832	-12,866 -2,494	-7,133 -859	-589 98	1,437 -502	-1,832 289	9,488 832	-12,866 -2,494	-7,133 -859	-589 98	1,437 -502	-1,832 289
63	Other foreign assets in the United States, net Direct investment	524,321 193,375	173,826 21,755	141,265	123,541 118,593	83,928 22,725	275,848	196,071 45,498	173,017 20,946	140,036 24,906	125,453 120,505	84,152 22,949	274,899 154,373	195,047 44,474
64 65	U.S. Treasury securities	46,155	25,759	26,135 -1,438	24,391	-8,781	155,322 -5,407	9,713	25,759	-1.438	24,391	-8,781	-5,407	9,713
66 67	U.S. securities other than U.S. Treasury securities U.S. currency	218,026 16,622	71,785 2,349	20,103 7,277	49,328 6,250	61,540 2,440	79,067 3,057	93,062 4,697	71,785 2,349	20,103 7,277	49,328 6,250	61,540 2,440	79,067 3,057	93,062 4,697
68 69	U.S. currency U.S. liabilities to unaffiliated foreigners reported by U.S. nonbanking concerns U.S. liabilities reported by U.S. banks, not included elsewhere	9,412 40,731	18,040 34,138	11,875	-53,210	20,188 -14,184	8,871	12,136	18,040	11,875	-53,210 -21,811	20,188	8,871	12,136 30,965
69 70	Statistical discrepancy (sum of above items with sign reversed)	40,731 10,126	9,763	77,313 42,460	-21,811 - 41,839	-10,488	34,938 - 39,103	30,965 - 5,678	34,138 10,291	77,313 31,878	-37,695	-14,184 - 5,224	34,938 - 38,827	- 15,887
70a	Of which seasonal adjustment discrepancy			,	,	,	,		528	-10,582	4,144	5,264	276	-10,209
71	Memoranda: Balance on goods (lines 3 and 20)	-246,932		-75,009	-64,650	-67,559		-101,673	-63,500	-64,969	-63,587	-74,203	-84,412	-92,145
72 73	Balance on goods (lines 3 and 20) Balance on services (lines 4 and 21) Balance on goods and services (lines 2 and 19)	82,650 -164,282	18,603 -41,009	19,220 -55,789	22,117 -42,533	21,660 -45,899	16,201 64,682	18,228 -83,445	21,539 -41,961	19,245 -45,724	20,325 -43,262	20,229 -53,974	19,327 -65,085	18,320 -73,825
74	Balance on income (lines 12 and 29) Unilateral current transfers, net (line 35) Balance on current account (lines 1, 18, and 35 or lines 73, 74, and 75) ¹³	-12,205	-843	-7,496	-5,270	-3,249	-4,825	-5,531	-553	-6,965	-4,933	-4,340	-4,612	-4,920
75 76	Balance on current account (lines 1, 18, and 35 or lines 73, 74, and 75) ¹³	-44,075 -220,562	-9,494 -51,346	-10,607 -73,892	-13,831 -61,634	-10,420 -59,568	-10,744 -80,251	-11,179 -100,155	-9,886 -52,400	-10,787 -63,476	-13,474 -61,669	-10,340 -68,654	-11,212 -80,909	-11,204 -89,949
	, ,													

^p Preliminary. r Revised.

¹ Revised. 1. Credits, +: Exports of goods and services and income receipts; unilateral current transfers to the United States; capital account transactions receipts; financial inflows--increase in foreign-owned assets (U.S. liabilities) or decrease in U.S.-owned assets (U.S. claims). Debits, -: Imports of goods and services and income payments; unilateral current transfers to foreigners; capital account transactions payments; financial outflows--decrease in foreign-owned assets (U.S. liabilities) or increase in U.S.-owned assets (U.S. liabilities).

2. Excludes exports of goods under U.S. military agency sales contracts identified in Census export documents, and reflects various other adjustments (for valuation, coverage, and timing) of Census statistics to balance of payments basis; see table 2 in "U.S. International Transactions, Third Quarter 1999" in the January 2000 SURVEY.
3. Includes some goods: Mainly military equipment in line 5; major equipment, other materials, supplies, and petroleum products purchased abroad by U.S. military agencies in line 22; and fuels purchased by airline and steamship operators in lines 8 and 25.

4. Includes transfers of goods and services under U.S. military grant programs.

Table F.3.—U.S. International Transactions, by Area

[Millions of dollars]

			•		•								
		W	estern Europ	e	Eu	opean Unior	14	U	nited Kingdo	n	Europ	ean Union (6	5) ¹⁵
Line	(Credits +; debits –) ¹		2000			2000			2000			2000	
		I	<i>r</i>	Ш	I	r	III	I	<i>r</i>	III	I	<i>r</i>	<i>P</i>
	Current account												
1 2	Exports of goods and services and income receipts Exports of goods and services	94,152 64,445	92,875 64,038	94,140 63,831	85,586 58,946	83,763 58,246	84,729 57,769	26,593 16,267	26,166 16,106	26,796 16,181	44,932 32,458	43,857 32,026	44,674 31,931
2	Goods, balance of payments basis ²	41,287	40,173	37,697	38,499	36,847	34,446	9,809	9,302	8,967	22,381	21,596	20,106
4	Services ³	23,158	23,865	26,134	20,447	21,399	23,323	6,458	6,804	7,214	10,077	10,430	11,825
5	Transfers under U.S. military agency sales contracts ⁴	1,169	1,025	1,262	589	592	791	118	97	87	169	150	323
6 7	Travel Passenger fares	4,788 1,481	5,784 1,748	7,055 2.081	4,402 1,426	5,306 1,693	6,462 2,009	1,601 493	1,975 566	2,188 625	2,030 734	2,424 869	3,238 1,098
8	Other transportation	1,784	1,785	1,914	1,540	1,551	1,662	385	391	417	724	744	824
9 10	Royalties and license fees ⁵	4,615 9,282	4,477 9,001	4,445 9,341	4,366 8,091	4,220 7,997	4,191 8,177	874 2,980	837 2,929	880 3,008	2,578 3,830	2,436 3,791	2,393 3,934
11	U.S. Government miscellaneous services	39	45	36	33	40	31	2,000	9	9	12	16	15
12 13	Income receipts Income receipts on U.Sowned assets abroad	29,707 29,670	28,837 28,800	30,309 30,272	26,640 26,606	25,517 25,483	26,960 26,926	10,326 10,309	10,060 10,042	10,615 10,597	12,474 12,459	11,831 11,817	12,743 12,729
14 15	Direct investment receipts	13,952	12,914	13,212	12,232	11,042	11,531	3,795	3,314	3,276	6,679	6,115	6,743
15 16	Other private receipts U.S. Government receipts	15,427 291	15,760 126	16,838 222	14,130 244	14,331 110	15,217 178	6,514	6,728	7,321	5,616 164	5,609 93	5,884 102
17	Compensation of employees	37	37	37	34	34	34	17	18	18	15	14	14
18	Imports of goods and services and income payments	-101,041	-110,488	-115,271	-91,871	-100,244	-104,133	-31,919	-34,799	-36,526	-47,166	-51,464	-52,930
19 20	Imports of goods and services Goods, balance of payments basis ²	-66,068 -48,566	-74,157 -52,424	-77,538 -54,252	-60,195 -44,717	-67,146 -47,919	-69,384 -48,921	-14,364 -8,823	-16,250 -9,612	-16,765 -9,918	-35,847 -28,096	-39,500 -29,920	-40,379 -30,237
21	Services ³	-17,502	-21,733	-23,286	-15,478	-19,227	-20,463	-5,541	-6,638	-6,847	-7,751	-9,580	-10,142
22	Direct defense expenditures	-1,935	-2,070	-2,280	-1,704	-1,775	-1,880	-166	-182	-180	-1,440	-1,490	-1,600
23 24	Travel Passenger fares	-3,593 -2,064	-6,192 -3,154	-7,013 -3,341	-3,284 -1,869	-5,568 -2,831	-6,230 -3,017	-1,108 -818	-1,601 -1,202	-1,697 -1,246	-1,619 -762	-2,861 -1,190	-3,089 -1,247
25	Other transportation	-2,554	-2,714	-3,104	-2,103	-2,248	-2,592	-555	-581	-714	-1,020	-1,102	-1,235
26 27	Royalties and license fees ⁵ Other private services ⁵	-2,087 -5,002	-1,942 -5,373	-1,747 -5,505	-1,788 -4,504	-1,626 -4,931	-1,452 -5,037	-601 -2,271	-477 -2,571	-337 -2,649	-963 -1,770	-897 -1,877	-899 -1,886
28	U.S. Government miscellaneous services	-267	-288	-296	-226	-248	-255	-22	-24	-24	-177	-163	-186
29 30	Income payments Income payments on foreign-owned assets in the United States	-34,973 -34,886	-36,331 -36,255	-37,733 -37,661	-31,676 -31,606	-33,098 -33,035	-34,749 -34,689	-17,555 -17,534	-18,549 -18,529	-19,761 -19,741	-11,319 -11,277	-11,964 -11,926	-12,551 -12,516
31	Direct investment payments	-9,059	-10,028	-9,752	-7,950	-9,056	-9,232	-2,312	-2,560	-2,718	-4,644	-5,550	-5,738
32 33 34	Other private payments U.S. Government payments	-15,750 -10,077	-16,246 -9,981	-17,719 -10,190	-14,368 -9,288	-14,749 -9,230	-16,051 -9,406	-10,041 -5,181	-10,783 -5,186	-11,693 -5,330	-3,658 -2,975	-3,352 -3,024	-3,688 -3,090
	Compensation of employees	-87	-76	-72	-70	-63	-60	-21	-20	-20	-42	-38	-35
35 36	Unilateral current transfers, net U.S. Government grants ⁴	- 30 -172	66 -100	- 22 -167	296	345	311	387	417	432	141	151	110
37 38	U.S. Government pensions and other transfers Private remittances and other transfers ⁶	-328 470	-329 495	-340 485	-293 589	-297 642	-299 610	-51 438	-50 467	-48 480	-161 302	-162	-171 281
30	Capital and financial account	470	490	400	209	042	010	430	407	400	302	313	201
	Capital account												
39	Capital account transactions, net	37	37	38	34	34	35	12	12	12	16	16	17
	Financial account												
40	U.Sowned assets abroad, net (increase/financial outflow (-))	-22,065	-143,513	-42,804	-17,814	-119,750	-34,648	6,178	-104,891	-26,888	-16,051	-18,111	-6,444
41 42	U.S. official reserve assets, net Gold 7	5,502	348	-103	-1,972	-159	-67						
43 44	Special drawing rights Reserve position in the International Monetary Fund												
44	Foreign currencies	5,502	348	-103	-1,972	-159	-67						
46 47	U.S. Government assets, other than official reserve assets, net U.S. credits and other long-term assets	206 62	61 -36	97	139 -37	9 29	-6 -195	-4	-2	-4	-16	6	1
48	Repayments on U.S. credits and other long-term assets 8	294	91	-196 288	196	35	190						
49	U.S. foreign currency holdings and U.S. short-term assets, net	-26	6	5	-20	3	-1	-4	-2	-4	-16	6	1
50 51	U.S. private assets, net Direct investment	-27,773 -21,262	-143,922 -8,262	-42,798 -32,331	-15,981 -17,296	-119,600 -8,218	-34,575 -30,982	6,182 2,679	-104,889 -9,303	-26,884 -21,157	-16,035 -11,464	-18,117 1,712	-6,445 -8,046
52 53	Foreign securities U.S. claims on unaffiliated foreigners reported by U.S. nonbanking	21,689	-49,590	-12,110	20,853	-51,891	-14,525	17,912	-46,591	-13,678	3,095	-8,034	-2,520
	concerns	-23,909	-7,476		-22,230	-6,161		-14,819	-8,520		-5,018	1,107	
54 55	U.S. claims reported by U.S. banks, not included elsewhere Foreign-owned assets in the United States, net (increase/financial inflow	-4,291	-78,594	1,643	2,692	-53,330	10,932	5,768	-40,475	7,951	-2,648	-12,902	4,121
	(+))	78,971	191,609	105,732	79,175	167,196	102,937	45,073	113,605	70,224	39,728	61,523	24,526
56 57	Foreign official assets in the United States, net U.S. Government securities	-4,419 (17)	-9,707	-1,057	(18) (18)	(18) (18)	(18) (18)	(18) (18)	(18) (18)	$\binom{18}{18}$	(18) (18)	(18) (18)	(18) (18)
58	U.S. Treasury securities 9	(17)	(17)	(17)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)	(18)
58 59 60	Other U.S. Covernment liabilities U	(17) -432	(17) -473	(¹⁷) –505	(¹⁸) –51	(¹⁸) –202	(¹⁸) –171	(¹⁸) –116	(¹⁸) –94	(¹⁸) –80	(¹⁸) 64	(¹⁸) 49	(¹⁸) –99
61	U.S. liabilities reported by U.S. banks, not included elsewhere	(17) (17)	(17) (17)	(17)	(¹⁸) (¹⁸)	(18) (18)	(18)	(18) (18)	(18)	(18)	(¹⁸) (¹⁸)	(18) (18)	(¹⁸) (¹⁸)
62 63	Other foreign official assets ¹² Other foreign assets in the United States, net	(17) 83,390	(17) 201,316	(¹⁷) 106,789	(18) (18)	(18) (18)	(18) (18)	(¹⁸) (¹⁸)	(18) (18)	(18) (18)	(18) (18)	(18) (18)	(¹⁸) (¹⁸)
64 65	Direct investment	21,839	140,447	31,623	20,375	141,856	29,727	1,316	79,370	15,155	16,457	62,635	9,966
65 66	U.S. Treasury securities U.S. securities other than U.S. Treasury securities	(¹⁷) 48.854	(¹⁷) 49,525	(¹⁷) 62,883	(¹⁸) 45,628	(¹⁸) 45,850	(¹⁸) 61,362	(¹⁸) 30,309	(¹⁸) 29,020	(¹⁸) 48,655	(¹⁸) 12,631	(¹⁸) 13,210	(¹⁸) 9,964
67	U.S. currency												
68	U.S. liabilities to unaffiliated foreigners reported by U.S. nonbanking concerns	19,506	18,265		16,341	16,491		21,863	11,765		-4,591	4,911	
69	U.S. liabilities reported by U.S. banks, not included elsewhere	(17)	(17)	(17)	-3,118	-36,799	12,019	-8,299	-6,456	6,494	15,167	-19,282	4,695
70	Statistical discrepancy (sum of above items with sign reversed) Memoranda:	-50,024	-30,586	-41,813	-55,406	-31,344	-49,231	-46,324	-510	-34,050	-21,600	-35,972	-9,953
71	Balance on goods (lines 3 and 20)	-7,279	-12,251	-16,555	-6,218	-11,072	-14,475	986	-310	-951	-5,715	-8,324	-10,131
72 73	Balance on goods (lines 3 and 20) Balance on services (lines 4 and 21) Balance on goods and services (lines 2 and 19)	5,656 -1,623	2,132 -10,119	2,848 -13,707	4,969 -1,249	2,172 8,900	2,860 -11,615	917 1,903	166 -144	367 584	2,326 -3,389	850 -7,474	1,683 8,448
74	Balance on income (lines 12 and 29)	-5,266	-7,494	-7,424	-5,036	-7,581	-7,789	-7,229	-8,489	-9,146	1,155	-133	192
75 76	Unilateral current transfers, net (line 35) Balance on current account (lines 1, 18, and 35 or lines 73, 74, and 75) ¹³	-30 -6,919	66 –17,547	–22 –21,153	296 -5,989	345 –16,136	311 –19,093	387 -4,939	417 8,216	432 -9,298	141 –2,093	151 –7,456	110 –8,146
	· · · · /												

Beginning in 1982, these lines are presented on a gross basis. The definition of exports is revised to exclude U.S. parents' payments to foreign affiliates and to include U.S. affiliates' receipts from foreign parents. The definition of imports is revised to include U.S. parents' payments to foreign affiliates and to exclude U.S. affiliates' receipts from foreign parents.
 Beginning in 1982, the "other transfers" component includes taxes paid by U.S. private residents to foreign governments and taxes paid by private nonresidents to the U.S. Government.
 At the present time, all U.S. Treasury-owned gold is held in the United States.
 Includes sales of foreign obligations to foreigners.
 Consists of bills, certificates, marketable bonds and notes, and nonmarketable convertible and nonconvertible

bonds and notes.
10. Consists of U.S. Treasury and Export-Import Bank obligations, not included elsewhere, and of debt securities of U.S. Government corporations and agencies.
11. Includes, primarily, U.S. Government liabilities associated with military agency sales contracts and other transactions arranged with or through foreign official agencies; see table 4 in "U.S. International Transactions, Third Quarter 1999" in the January 2000 SURVEY.
12. Consists of investments in U.S. corporate stocks and in debt securities of private corporations and State and local governments.

Table F.3.-U.S. International Transactions, by Area-Continued

[Millions of dollars]

| | | E | astern Europ | •
 |
 | Canada |
 | Lotin Amo | rica and Othe
 | n Western | | lonon
 |
 |
|---|---|---|---
--
--

---	---
--
--|
| | | E | 2000 | e
 |
 | Canada
2000 |
 | Laun Ame | Hemisphere
 | er western | | Japan
2000
 |
 |
| Line | (Credits +; debits -) 1 | | 2000 |
 |
 | 2000 |
 | | 2000
 | | | 2000
 |
 |
| | | I | r | Ш
 | I
 | r | Ш
 | I | r
 | III | I | <i>r</i>
 | <i>P</i>
 |
| | Current account | | |
 |
 | |
 | |
 | | |
 |
 |
| 1 | Exports of goods and services and income receipts | 2,653 | 2,770 | 3,239
 | 50,011
 | 53,800 | 50,240
 | 57,854 | 62,330
 | 65,270 | 25,346 | 23,678
 | 25,031
 |
| 2
3 | Exports of goods and services
Goods, balance of payments basis ² | 2,156
1,213 | 2,273
1,304 | 2,565
1,458
 | 45,304
40,070
 | 48,257
42,857 | 44,759
39,594
 | 43,520
32,125 | 46,284
34,060
 | 49,063
35,417 | 22,928
14,432 | 21,152
13,328
 | 22,729
13,586
 |
| 3 | Services ³ | 943 | 1,304
969 | 1,458
 | 40,070
5,234
 | 42,857
5,400 | 39,594
5,165
 | 11,395 | 34,060
12,224
 | 35,417
13,646 | 8.496 | 7,824
 | 9,143
 |
| 5 | Transfers under U.S. military agency sales contracts ⁴ | 67 | 81 | 94
 | 28
 | 34 | 25
 | 152 | 135
 | 99 | 501 | 173
 | 183
 |
| 6
7 | Travel
Passenger fares | 258
40 | 319
44 | 381
41
 | 1,674
438
 | 1,808
363 | 1,477
367
 | 4,347
1,255 | 4,897
1,375
 | 5,856
1,653 | 2,358
922 | 2,231
872
 | 2,923
1,117
 |
| 8 | Other transportation | 65 | 105 | 112
 | 585
 | 627 | 625
 | 820 | 874
 | 910 | 752 | 817
 | 840
 |
| 9
10 | Royalties and license fees 5
Other private services 5
U.S. Government miscellaneous services | 67
439 | 66
344 | 70
397
 | 424
2,064
 | 400
2,147 | 434
2,216
 | 610
4,170 | 672
4,193
 | 672
4,416 | 1,563
2,383 | 1,596
2,125
 | 1,689
2,380
 |
| 11 | U.S. Government miscellaneous services | 435 | 10 | 12
 | 2,004
 | 2,147 | 2,210
 | 4,170 | 4,133
 | 4,410 | 2,303 | 2,123
 | 2,300
 |
| 12 | Income receipts
Income receipts on U.Sowned assets abroad | 497
495 | 497
495 | 674
672
 | 4,707
4,687
 | 5,543 | 5,481
5,463
 | 14,334
14,297 | 16,046
16,008
 | 16,207
16,172 | 2,418
2,415 | 2,526
2,523
 | 2,302
2,298
 |
| 13
14 | Direct investment receipts | -45 | 13 | 159
 | 1,909
 | 5,524
2,831 | 2,787
 | 3,979 | 5,127
 | 4,886 | 1,003 | 871
 | 921
 |
| 15
16 | Other private receipts
U.S. Government receipts | 484
56 | 472
10 | 466
47
 | 2,778
 | 2,693 | 2,676
 | 10,212
106 | 10,754
127
 | 11,208
78 | 1,405
7 | 1,667
-15
 | 1,360
17
 |
| 17 | Compensation of employees | 2 | 2 | 2
 | 20
 | 19 | 18
 | 37 | 38
 | 35 | 3 | 3
 | 4
 |
| 18 | Imports of goods and services and income payments | -3,294 | -4,411 | -4,346
 | -52,743
 | -56,926 | -57,328
 | -58,343 | -63,021
 | -67,952 | -42,970 | -44,236
 | -47,341
 |
| 19
20 | Imports of goods and services
Goods, balance of payments basis ² | -2,874
-2,402 | -3,998
-3,096 | -3,934
-2,856
 | -50,640
-47,684
 | -54,264
-50,096 | -54,780
-49,408
 | -45,878
-37,327 | -49,579
-41,166
 | -53,709
-44,660 | -35,150
-31,098 | -35,203
-30,849
 | -37,984
-33,435
 |
| 20 | Services ³ | -472 | -902 | -1,078
 | -2,956
 | -4,168 | -5,372
 | -8,551 | -8,413
 | -9,049 | -4,052 | -4,354
 | -4,549
 |
| 22 | Direct defense expenditures | -50 | -47 | -80
 | -14
 | -16 | -20
 | -94 | -76
 | -79 | -328 | -378
 | -380
 |
| 23
24 | Travel
Passenger fares | -151
-57 | -458
-141 | -573
-161
 | -875
-125
 | -1,526
-189 | -2,531
-210
 | -4,028
-856 | -3,909
-713
 | -4,367
-805 | -790
-200 | -795
-227
 | -706
-230
 |
| 25 | Other transportation | -42 | -71 | -80
 | -727
 | -822 | -817
 | -605 | -620
 | -656 | -1,065 | -1,193
 | -1,405
 |
| 26
27 | Royalties and license fees ⁵ | -1
-155 | -3
-163 | -3
-160
 | -114
-1,055
 | –114
–1,447 | –119
–1,619
 | -67
-2,781 | -64
-2,899
 | -68
-2,942 | -627
-1,008 | -687
-1,039
 | -686
-1,109
 |
| 28 | Other private services ⁵
U.S. Government miscellaneous services | -16 | -19 | -21
 | -46
 | -54 | -56
 | -120 | -132
 | -132 | -34 | -35
 | -33
 |
| 29
30 | Income payments
Income payments on foreign-owned assets in the United States | -420
-401 | -413
-397 | -412
-397
 | -2,103
-2,024
 | -2,662
-2,586 | -2,548
-2,474
 | -12,465
-11,087 | -13,442
-11,960
 | -14,243
-12,555 | -7,820
-7,797 | -9,033
-9,017
 | -9,357
-9,343
 |
| 31 | Direct investment payments | -2 | -4 | -5
 | -641
 | -1,239 | -984
 | -282 | -492
 | -484 | 65 | -1,768
 | -1,606
 |
| 32
33
34 | Other private payments
U.S. Government payments | -97
-302 | -91
-302 | -92
-300
 | -1,176
-207
 | -1,099
-248 | -1,168
-322
 | -8,503
-2,302 | -8,941
-2,527
 | -9,297
-2,774 | -2,859
-5,003 | -2,118
-5,131
 | -2,187
-5,550
 |
| | Compensation of employees | -19 | -16 | -15
 | -79
 | -76 | -74
 | -1,378 | -1,482
 | -1,688 | -23 | -16
 | -14
 |
| 35
36 | Unilateral current transfers, net
U.S. Government grants ⁴ | - 856
-424 | - 871
-442 | - 996
-581
 | -174
 | -145 | -175
 | - 3,379
-380 | - 3,445
-421
 | - 3,615
-493 | -101 | -53
 | -71
 |
| 37
38 | U.S. Government pensions and other transfers
Private remittances and other transfers ⁶ | -12
-420 | -11
-418 | -10
-405
 | -120
-54
 | -121
-24 | -126
-49
 | -154
-2,845 | -156
-2,868
 | -158
-2,964 | -26
-75 | -25
-28
 | -23
-48
 |
| 50 | | 420 | -410 | 405
 | -04
 | -24 |
 | -2,045 | -2,000
 | -2,304 | -15 | -20
 | 40
 |
| | Capital and financial account | | |
 |
 | |
 | |
 | | |
 |
 |
| | Capital and financial account
Capital account | | |
 |
 | |
 | |
 | | |
 |
 |
| 39 | | 6 | 6 | 6
 | 28
 | 36 | 31
 | 62 | 59
 | 54 | 6 | 6
 | 6
 |
| | Capital account Capital account transactions, net Financial account | | - | -
 |
 | |
 | |
 | | | -
 | 6
 |
| 40 | Capital account
Capital account transactions, net
Financial account
U.Sowned assets abroad, net (increase/financial outflow ()) | -1,518 | 6
622 | 6
-759
 | 2,889
 | 4,023 | -706
 | 11,682 | -16,356
 | -38,596 | -994 | 7,605
 | 6
-15,174
-30
 |
| 40
41
42 | Capital account Capital account transactions, net Financial account U.S. owned assets abroad, net (increase/financial outflow ()) U.S. official reserve assets, net Gold 7 | -1,518 | 622 | -759
 | 2,889
 | 4,023 | -706
 | 11,682 | -16,356
 | -38,596 | | -
 | 6
- 15,174
-30
 |
| 40
41
42
43
44 | Capital account Capital account Capital account transactions, net Financial account U.S. owned assets abroad, net (increase/financial outflow (-)) U.S. official reserve assets, net Gold ⁷ Special drawing rights | -1,518 | 622 | -759
 | 2,889
 | 4,023 | -706
 | 11,682 | -16,356
 | -38,596 | - 994
-2,000 | 7,605
 |
 |
| 40
41
42
43
44
45 | Capital account Capital account Capital account transactions, net Financial account U.S. owned assets abroad, net (increase/financial outflow (-)) U.S. official reserve assets, net Gold 7 Special drawing rights Reserve position in the International Monetary Fund Foreign currencies | -1,518 | 622 | _759

 | 2,889
 | 4,023 | _706

 | 11,682 | -16,356
 | -38,596 | - 994
-2,000
 | 7,605
-412

-412
 | -30

-30
 |
| 40
41
42
43
44
45
46
47 | Capital account Capital account Capital account transactions, net Financial account U.S. owned assets abroad, net (increase/financial outflow (-)) U.S. official reserve assets, net Gold 7 Special drawing rights Reserve position in the International Monetary Fund Foreign currencies U.S. Government assets, other than official reserve assets, net U.S. Government assets, other non-term assets | -1,518 | 622 | _759

 | 2,889
 | 4,023 | _706
 | 11,682 | -16,356

 | -38,596 | - 994
-2,000

-2,000
12 | 7,605
412
 | -30
 |
| 40
41
42
43
44
45
46
47
48 | Capital account Capital account Capital account transactions, net Financial account U.S. official reserve assets, net Gold 7 Special drawing rights Reserve position in the International Monetary Fund Foreign currencies U.S. Government assets, other than official reserve assets, net U.S. credits and other long-term assets Repayments on U.S. credits and other long-term assets * | - 1,518 | 622
 | - 759
 | 2,889
 | 4,023 | _706
 | 11,682

 | - 16,356
 | -38,596 | - 994
-2,000
 | 7,605
-412
-412
-412
30
 | -30
30
8
 |
| 40
41
42
43
44
45
46
47
48
49
50 | Capital account Capital account transactions, net Financial account U.S. official reserve assets, net (increase/financial outflow (-)) U.S. official reserve assets, net Gold 7 Special drawing rights Reserve position in the International Monetary Fund Foreign currencies U.S. Government assets, other than official reserve assets, net U.S. Government assets, other than official reserve assets, net U.S. foreign currency holdings and U.S. short-term assets * U.S. foreign currency holdings and U.S. short-term assets, net U.S. private assets, net | -1,518
19
164
160
-15
-1,499 | 622
 | - 759
119
139
21
-1
1
640
 | 2,889
 | 4,023 | -706
 | 11,682

170
-602
765
7
11,512 | - 16,356

 | -38,596
 | -994
-2,000
 | 7,605
-412

-412
30

30
7,987
 | -30
-30
-8

 |
| 40
41
42
43
44
45
46
47
48
49
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13. Conceptually, line 76 is equal to "net foreign investment" in the national income and product accounts (NIPA's). However, the foreign transactions account in the NIPA's (a) includes adjustments to the international transactions accounts for the treatment of gold, (b) includes adjustments for the different geographical treatment of transactions with U.S. territories and Puerto Rico, and (c) includes services furnished without payment by financial

pension plans except life insurance carriers and private noninsured pension plans. 14. The "European Union" includes the "European Union (6)," United Kingdom, Denmark, Ireland, Greece, Spain, and Portugal. Beginning with the first quarter of 1995, the "European Union" also includes Austria, Finland, and Sweden.

Table F.3.-U.S. International Transactions, by Area-Continued

[Millions of dollars]

			Australia		Other cou	ntries in Asia a	nd Africa		nal organization	ns and
Line	(Credits +; debits -) ¹		2000			2000		l	2000	
		I	<i>1</i>	Ш	I	r	Ш	I	2000	<i>p</i>
1	Current account Exports of goods and services and income receipts Exports of goods and services	4,834 3,734	5,458 4,102	5,593 4,337	51,342 45,919	53,930 47,922	58,028 51,148	7,440 1,118	7,416 1,147	7,369 1,187
3 4	Goods, balance of payments basis ² Services ³ Transfers under U.S. military agency sales contracts ⁴	2,543 1,191	2,758 1,344	2,938 1,399	31,674 14,245	33,973 13,949	35,746 15,402	 1,118	 1,147	1,187
5 6 7	Transfers under U.S. military agency sales contracts *	51 342 123	95 416 154	99 425 163	2,372 2,042 392	2,556 2,816 493	2,495 3,544 629			
8 9 10	Other transportation Royalties and license fees ⁵ Other private services ⁵ U.S. Government miscellaneous services	81 187 406	86 187 405	91 199 421	2,160 1,165 6,034	2,286 1,174 4,542	2,294 1,181 5,177	115 493 510	147 491 509	165 499 523
11 12 13 14	Income receipts	1,100 1,098 365	1 1,356 1,354 585	1 1,256 1,254 520	80 5,423 5,406 2,792	82 6,008 5,991 3,367	82 6,880 6,862 3,962	6,322 5,970 3,358	6,269 5,916 3,182	6,182 5,828 3,092
15 16 17 18	Other private receipts U.S. Government receipts Compensation of employees Imports of goods and services and income payments	733 2 _ _2,259	769 2 _ _2,475	734 2 _ _2,786	2,325 289 17 - 79,349	2,414 210 17 - 87,337	2,599 301 18 - 99,867	2,396 216 352 - 2,781	2,543 191 353 - 2,870	2,545 191 354 - 2,995
19 20	Imports of goods and services	-1,888 -1,093	-2,176 -1,372	-2,383 -1,447	-71,961 -62,733	-79,916 -70,333	-92,113 -82,051	-564 	-564	-623
21 22 23 24	Services - Direct defense expenditures	-795 -18 -301 -166	-804 -8 -310 -141	-936 -10 -427 -154	-9,228 -1,064 -2,805 -1,223	-9,583 -998 -2,873 -1,146	-10,062 -1,001 -3,019 -1,246	-564	-564 	-623
25 26 27 28	Other transportation	-46 -7 -249	-47 -10 -277	-52 -10 -268	-2,230 -74 -1,642	-2,525 -73 -1,778	-2,766 -75 -1,752	-285 -185 -93	-298 -180 -86	-350 -173 -100
29 30 31	Income payments Income payments on foreign-owned assets in the United States Direct investment payments	-8 -371 -369 -153 -145	-11 -299 -297 -44 -172	-15 -403 -401 -112 -206	-190 -7,388 -7,243 -159 -2,381	-190 -7,421 -7,320 -3 -2,438	-203 -7,754 -7,668 -169 -2,580	-1 -2,217 -2,217 -1,365 -848	-2,306 -2,306 -1,445 -855	-2,372 -2,372 -1,405 -958
32 33 34 35	U.S. Government payments Compensation of employees Unilateral current transfers, net	-71 -2 - 39	81 2 36	-83 -2 - 39	-4,703 -145 - 3,414	-4,879 -101 - 3,569	-4,919 -86 - 3,728	-4 - 2,427	-6 - 2,691	-9 - 2,533
36 37 38	U.S. Government grants ⁴ U.S. Government pensions and other transfers Private remittances and other transfers ⁶ Capital and financial account	-10 -29	-10 -26	9 -30	-967 -119 -2,328	-1,423 -121 -2,025	-1,273 -121 -2,334	-257 -124 -2,046	-374 -84 -2,233	-186 -210 -2,137
39	Capital account Capital account Capital account	2	2	2	25	32	29			
40 41	Financial account U.Sowned assets abroad, net (increase/financial outflow (-)) U.S. official reserve assets, net	-2,357	-4,709	5,526	-2,448	-2,172	-2,621	- 3,935 566	- 1,544 1,223	- 7,376 2,083
42 43 44 45	Gold 7 Special drawing rights Reserve position in the International Monetary Fund Foreign currencies							563 3	-190 1,413	-185 2,268
46 47 48	U.S. Government assets, other than official reserve assets, net U.S. credits and other long-term assets	6	-6	-2	11 -209 326	-218 -303 213	-520 -778 355	-267 -267	-289 -289	-248 -248
49 50 51 52	U.S. foreign currency holdings and U.S. short-term assets, net U.S. private assets, net Direct investment Foreign securities	6 -2,363 -3,389 -82	-6 -4,703 -265 -974	-2 5,528 -331 -114	-106 -2,459 -6,725 -1,217	-128 -1,954 -3,808 1,118	-97 -2,101 -3,018 3,094	-4,234 -3,193 49	-2,478 -3,008 -111	-9,211 -2,924 480
52 53 54 55	U.S. claims on unaffiliated foreigners reported by U.S. nonbanking concerns U.S. claims reported by U.S. banks, not included elsewhere	430 678 691	-43 -3,421 3,893	5,973 1,000	-92 5,575 13,028	-1,034 1,770 3,249	-2,177 5,839	-7 -1,083 5,753	22 619 6,259	-7,198 431 17,596
56 57 58 59	Foreign official assets in the United States, net U.S. Government securities U.S. Treasury securities ⁹	$\binom{18}{18}$ $\binom{18}{18}$ $\binom{18}{18}$	$\binom{18}{18}$ $\binom{18}{18}$ $\binom{18}{18}$	$\binom{18}{18}$ $\binom{18}{18}$ $\binom{18}{18}$	$\binom{18}{18}$ $\binom{18}{18}$ $\binom{18}{18}$	$\binom{18}{18}$ $\binom{18}{18}$ $\binom{18}{18}$	$\binom{18}{18}$ $\binom{18}{18}$ $\binom{18}{18}$	······		
60 61 62	Other U.S. Government liabilities ¹¹ U.S. liabilities reported by U.S. banks, not included elsewhere Other foreign official assets ¹²	(18) (18)	-35 (¹⁸) (¹⁸)	$\begin{pmatrix} -44\\ (^{18})\\ (^{18})\\ (^{18}) \end{pmatrix}$	-737 $(^{18})$ $(^{18})$ $(^{18})$	-215 $(^{18})$ $(^{18})$ $(^{18})$	-681 (18) (18)			(18)
63 64 65 66 67	Other foreign assets in the United States, net Direct investment U.S. Treasury securities	(¹⁸) 167 (¹⁸) 42	(¹⁸) 425 (¹⁸) 157	(¹⁸) 217 (¹⁸) 1,155	(¹⁸) -48 (¹⁸) 3,119	(¹⁸) -400 (¹⁸) 3,532	(¹⁸) 514 (¹⁸) 2,413	5,753 1,197 (¹⁸) -148 2,440	6,259 1,232 (¹⁸) –130 3.057	17,596 1,267 (¹⁸) 493 4,697
67 68 69 70	U.S. currency	-175 649 - 872	1,879 1,467 – 2,133	328 9,296	805 9,889 20,816	1,892 -1,560 35,867	3,593 42,320	2,440 18 2,246 - 4,050	3,057 37 2,063 - 6,570	4,697 9,136 2,003 – 12,061
71 72 73 74	Memoranda: Balance on goods (lines 3 and 20) Balance on services (lines 4 and 21) Balance on goods and services (lines 2 and 19)	1,450 396 1,846	1,386 540 1,926	1,491 463 1,954	-31,059 5,017 -26,042	-36,360 4,366 -31,994	-46,305 5,340 -40,965			564 564
74 75 76	Balance on income (lines 12 and 29) Unilateral current transfers, net (line 35) Balance on current account (lines 1, 18, and 35 or lines 73, 74, and 75) ¹³	729 –39 2,536	1,057 -36 2,947	853 –39 2,768	-1,965 -3,414 -31,421	-1,413 -3,569 -36,976	-874 -3,728 -45,567	4,105 -2,427 2,232	3,963 -2,691 1,855	3,810 -2,533 1,841

The "European Union (6)" includes Belgium, France, Germany (includes the former German Democratic Republic (East Germany) beginning in the fourth quarter of 1990), Italy, Luxembourg, Netherlands, European Atomic Energy Community, European Coal and Steel Community, and European Investment Bank.
 Includes, as part of international and unallocated, the estimated direct investment Bank.
 Includes taxes withheld; current-cost adjustments associated with U.S. and foreign direct investment; small transactions in business services that are not reported by country; and net U.S. currency flows, for which geographic

source data are not available.

17. Details not shown separately; see totals in lines 56 and 63. 18. Details not shown separately are included in line 69.

NOTE.—The data in tables F.2 and F.3 are from tables 1 and 10 in "U.S. International Transactions, Third Quarter 1999" the January 2000 SURVEY OF CURRENT BUSINESS, which presents the most recent estimates from the U.S. international transactions accounts.

Table F.4—Private Service Transactions

[Millions of dollars]

	L		-1			0 "			
						Seasonally	adjusted		
Line		1997	1998		1998			1999	
				11	III	IV		<i>r</i>	<i>P</i>
1	Exports of private services	240,443	245,688	62,011	60,847	62,490	63,066	64,304	64,588
2 3	Travel (table F.2, line 6) Passenger fares (table F.2, line 7)	73,301 20,789	71,250 19,996	18,260 5,185	17,149 5,052	17,938 4,843	18,138 4,995	18,437 5,240	18,322 5,332
4	Other transportation (table F.2, line 8)	20,709	25,518	6,268	6,339	6,575	6,501	6,731	6,921
5	Freight	11,789	11,178	2,769	2,684	2,852	2,819	2,848	2,966
6	Port services	15,217	14,340	3,498	3,654	3,722	3,682	3,883	3,955
7 8	Royalties and license fees (table F.2, line 9)	33,781 25,024	36,808 26,761	9,002 6,542	9,029 6,491	9,894 7,223	9,337 6,640	9,365 6,603	9,317 6,493
9 9	AffiliatedU.S. parents' receipts	23,024	20,701	6,066	6,091	6,591	6,040	6,003	5,971
10	U.S. affiliates' receipts	1,803	2,049	476	400	632	559	600	522
11	Unaffiliated	8,757	10,047	2,460	2,538	2,671	2,697	2,762	2,824
12	Industrial processes ¹	3,552	4,138	1,018	1,053	1,094	1,093	1,097	1,097
13	Other ²	5,205	5,909	1,442	1,485	1,578	1,604	1,665	1,727
14 15	Other private services (table F.2, line 10) Affiliated services	85,566 27,272	92,116 28,321	23,296 7,114	23,278 7,184	23,240 7,036	24,095 7,454	24,531 7,086	24,696 7,316
16	U.S. parents' receipts	17,272	18,212	4,631	4,411	4,561	4,560	4,402	4,626
17	U.S. affiliates' receipts	10,001	10,109	2,483	2,773	2,475	2,894	2,684	2,690
18	Unaffiliated services	58,294	63,795	16,182	16,094	16,204	16,641	17,445	17,380
19	Education	8,343	8,964	2,251	2,310	2,243	2,312	2,309	2,351
20 21	Financial services Insurance, net	11,539 2,485	13,698 2,842	3,778 696	3,419 717	3,369 746	3,419 794	3,950 831	3,624 869
22	Premiums received	6,133	6,985	1,722	1,780	1,826	1,860	1,887	1,911
23	Losses paid	3,648	4,143	1,026	1,063	1,080	1,066	1,056	1,042
24	Telecommunications	3,949	3,689	926	900	908	882	872	818
25 26	Business, professional, and technical services Other unaffiliated services ³	22,467 9,511	24,338 10,264	6,017 2,513	6,164 2,583	6,299 2,640	6,544 2,690	6,746 2,737	6,892 2,826
27	Imports of private services	152,447	165,321	41,424	41,739	42,304	43,198	45,001	46,122
28	Travel (table F.2, line 23)	52,051	56,105	14,168	14,070	14,131	14,847	14,960	15,191
29	Passenger fares (table F.2, line 24)	18,138	19,797	4,958	5,085	5,125	5,114	5,316	5,456
30	Other transportation (table F.2, line 25)	28,959	30,457	7,590	7,700	7,849	7,726	8,362	9,102
31 32	Freight Port services	17,654 11,305	19,412 11,048	4,858 2,732	4,999 2,701	5,006 2,843	4,864 2,862	5,413 2,949	6,031 3,071
33	Royalties and license fees (table F.2, line 26)	9,390	11,292	2,694	2,721	2,923	3,176	3.197	2,921
34	Affiliated	6,967	8,374	2,050	2,037	2,271	2,514	2,519	2,208
35	U.S. parents' payments	989	1,169	273	298	308	304	310	307
36	U.S. affiliates' payments	5,978	7,205	1,777	1,739	1,963	2,210	2,209	1,901
37 38	Unaffiliated Industrial processes ¹	2,423 1,418	2,918 1,546	644 382	684 392	652 401	662 408	678 414	713 420
39	Other ²	1,006	1,372	262	292	252	254	264	292
40	Other private services (table F.2, line 27)	43,909	47,670	12,014	12,163	12,276	12,335	13,166	13,452
41	Affiliated services	17,728	19,095	4,856	4,974	4,998	5,033	5,620	5,742
42	U.S. parents' payments	8,927	9,730	2,424	2,453	2,565	2,581	2,744	2,726
43 44	U.S. affiliates' payments Unaffiliated services	8,801 26,181	9,365 28,575	2,432 7,158	2,521 7,189	2,433 7,278	2,452 7,302	2,876 7,546	3,016 7,710
44	Education	1,395	1,538	380	401	401	404	423	440
46	Financial services	3,563	3,771	1,010	932	902	834	949	1,072
47	Insurance, net	6,002	6,908	1,717	1,736	1,753	1,816	1,878	1,949
48 49	Premiums paid	15,233 9.231	18,581	4,572 2.855	4,770 3.034	4,910	4,998 3,183	5,054 3,175	5,095
49 50	Losses recovered Telecommunications	9,231 8,351	11,673 8,125	2,855	2.014	3,157 2.029	2,024	2.011	3,146 1.915
51	Business, professional, and technical services	6,358	7,684	1,884	1,968	2,025	2,024	2,160	2,211
52	Other unaffiliated services ³	511	549	135	138	148	121	124	123
	Memoranda:	100.05					-		aa (/=
53 54	Balance on goods (table F.2, line 71) Balance on private services (line 1 minus line 27)	-196,651 87,996	-246,932 80,367	-63,500	-64,969 19,108	-63,587	-74,203 19.868	-84,412 19,303	-92,145 18.466
54 55	Balance on goods and private services (line 1 minus line 27)	87,996 -108.655	80,367	20,587 -42,913	-45.861	20,186 -43,401	-54,335	-65,109	-73.679
		100,000	100,000	42,510	40,001	107,01	07,000	00,103	10,013

^p Preliminary.

Preliminally.
 Revised. echniques, processes, and formulas and other intangible property rights that are used in goods production.
 Copyrights, trademarks, franchises, rights to broadcast live events, and other intangible property rights.

Other unaffiliated services receipts (exports) include mainly expenditures of foreign govern-ments and international organizations in the United States. Payments (imports) include mainly ex-penditures of U.S. residents temporarily working abroad and film rentals.

NOTE.—The data in this table are from table 3 in "U.S. International Transactions, Third Quarter 1999" in the January 2000 SURVEY OF CURRENT BUSINESS, which presents the most recent estimates from the U.S. international transactions accounts.

G. Investment Tables

Table G.1.—International Investment Position of the United States at Yearend, 1997 and 1998

[Millions of dollars]

			Cha	anges in po	sition in 199	98 (decrease	e (-))	
				Attribut	able to:			
Line	Type of investment	Position, 1997 ^r		Valua	ation adjustr	ments	T . 1	Position, 1998 ^p
			Financial flows	Price changes	Exchange rate changes ¹	Other changes ²	Total	
			(a)	(b)	(c)	(d)	(a+b+c+d)	
1 2	Net international investment position of the United States: With direct investment positions at current cost (line 3 less line 24) With direct investment positions at market value (line 4 less line 25)	-968,208 -1,066,262	-209,819 -209,819	-167,585 -319,300	45,380 56,282	61,064 1,633	-270,960 -471,204	-1,239,168 -1,537,466
3 4	U.Sowned assets abroad: With direct investment positions at current cost (lines 5+10+15) With direct investment positions at market value (lines 5+10+16)	4,508,626 5,288,892	292,818 292,818	101,041 315,522	43,704 54,584	-15,293 -3,833	422,270 659,091	4,930,896 5,947,983
5 6	U.S. official reserve assets	134,836	6,784	-628 ³ -628	5,024	-10 ⁴ -10	11,170	146,006 75,292
7	Gold Special drawing rights	75,929 10,027	149		427		-638 576	10,603
8 9	Reserve position in the International Monetary Fund Foreign currencies	18,071 30,809	5,118 1,517		922 3,675		6,040 5,192	24,111 36,001
10	U.S. Government assets, other than official reserve assets	81,960	429		-5	-2	422	82,382
11 12	U.S. credits and other long-term assets ⁵ Repayable in dollars	79,607 79,273	574 602			-2	572 601	80,179 79.874
13	Other ⁶	334	-28			-1	-29	305
14	U.S. foreign currency holdings and U.S. short-term assets	2,353	-145		-5		-150	2,203
15 16	U.S. private assets: With direct investment at current cost (lines 17+19+22+23) With direct investment at market value (lines 18+19+22+23)	4,291,830 5,072,096	285,605 285,605	101,669 316,150	38,685 49,565	-15,281 -3,821	410,678 647,499	4,702,508 5,719,595
47	Direct investment abroad:	4 00 4 000	400.000		4.057	40.405	110.010	
17 18	At current cost At market value	1,004,228	132,829 132,829	2,892	1,957 12,837	-18,465	119,213 356,034	1,123,442
19 20	Foreign securities	1,739,400	102,817	98,777	27,962		229,556	1,968,950
21	Bonds Corporate stocks	538,400	25,064 77,753	18,441 80,336			23,426 206,130	561,820 1,407,130
22	U.S. claims on unaffiliated foreigners reported by U.S. nonbanking concerns	562,396	25,041		5,610	3,175	33,826	596,222
23	U.S. claims reported by U.S. banks, not included elsewhere	985,806	24,918		3,156		28,083	1,013,889
24 25	Foreign-owned assets in the United States: With direct investment at current cost (lines 26+33) With direct investment at market value (lines 26+34)	5,476,834 6,355,154	502,637 502,637	268,626 634,822	-1,676 -1,698	-76,357 -5,466	693,230 1,130,295	6,170,064 7,485,449
26	Foreign official assets in the United States	835,709	-21.684	22.437		, i	344	836,053
27	U.Š. Government securities U.S. Treasury securities	614,530	-3,625				5,719	620,249
28 29	O.S. Treasury securities	589,792 24,738	-9,957 6,332	9,152			-805 6,524	588,98 31,26
30	Other U.S. Government liabilities 7	21,459	-3,113				-3,113	18,340
31 32	U.S. liabilities reported by U.S. banks, not included elsewhere Other foreign official assets	135,384 64,336	-11,469 -3,477	13,093		-409	-11,469 9,207	123,913 73,543
	Other foreign assets:							
33 34	With direct investment at current cost (lines 35+37+38+39+42+43) With direct investment at market value (lines 36+37+38+39+42+43)	4,641,125 5,519,445	524,321 524,321	246,189 612,385	-1,676 -1,698		692,886 1,129,951	5,334,01 6,649,396
25	Direct investment in the United States:	764.045	100 075	2 0 7 7		74.040	444.070	070 74-
35 36	At current cost At market value	764,045 1,642,365	193,375 193,375	-3,877 362,319	22	-74,848 -3,957	114,672 551,737	878,717 2,194,102
37	U.S. Treasury securities	662,228	46,155	18,961			65,116	727,344
38 39	U.S. currency U.S. securities other than U.S. Treasury securities	211,628	16,622 218,026	231,105	-6,005		16,622 443,126	228,250 2,021,820
40	Corporate and other bonds	715,196	170,539	21,019	-6,005		185,553	900,749
41 42	Corporate stocks U.S. liabilities to unaffiliated foreigners reported by U.S. nonbanking	863,498	47,487	210,086			257,573	1,121,07
43	U.S. liabilities reported by U.S. banks, not included elsewhere	453,555 970,975	9,412 40,731		-1,080 5,387	-1,100	7,232 46,118	460,787 1,017,093
		5 Also include						1,017,03

^p Preliminary.
^r Revised.

Represents gains or losses on foreign-currency-denominated assets due to their revaluation at current exchange rates.

2. Includes changes in coverage, statistical discrepancies, and other adjustments to the value and the second se

Reflects charges in the value of the onical gold stock due to includations in the interest price of gold.
 Reflects charges in gold stock from U.S. Treasury sales of gold medallions and commemo-rative and bullion coins; also reflects replenishment through open market purchases. These de-monetizations/monetizations are not included in international transactions capital flows.

5. Also includes paid-in capital subscriptions to international financial institutions and outstanding amounts of miscellaneous claims that have been settled through international agreements to be payable to the U.S. Government over periods in excess of 1 year. Excludes World War I debts that are not being serviced.

6. Includes indebtedness that the borrower may contractually, or at its option, repay with its currency, with a third country's currency, or by delivery of materials or transfer of services.
7. Primarily U.S. Government liabilities associated with military sales contracts and other transactions arranged with or through foreign official agencies.

NOTE .- The data in this table are from table 1 in "International Investment Position of the United States at Yearend 1998" in the July 1999 issue of the SURVEY OF CURRENT BUSINESS.

Table G.2.--U.S. Direct Investment Abroad: Selected Items, by Country and by Industry of Foreign Affiliate, 1996-98

[Millions of dollars]

		estment posi prical-cost ba		Capital c	outflows (inflo	ows (-))		Income	
	1996	1997	1998	1996	1997	1998	1996	1997	1998
All countries, all industries	795,195	865,531	980,565	84,426	99,517	121,644	93,594	103,892	90,242
By country									
Canada	89,592	96,031	103,908	7,181	7,493	10,259	9,258	10,548	8,104
Europe Of which:	389,378	420,108	489,539	40,148	51,698	74,538	44,286	48,757	49,308
France	41,281 54,118	35,800 38,490 64,361 153,108	39,188 42,853 79,386 178,648	4,463 1,956 6,308 16,421	2,543 1,627 14,327 22,411	2,895 2,025 14,996 34,428	3,224 3,797 9,632 12,220	2,575 3,339 12,370 13,126	2,450 4,787 12,594 11,582
Latin America and Other Western Hemisphere	155,925	178,505	196,655	18,138	21,966	18,020	17,762	21,408	16,908
Of which: Brazil Mexico	29,105 19,351	35,091 24,181	37,802 25,877	4,159 2,405	6,514 5,646	3,790 2,533	4,172 2,721	4,675 3,905	3,037 3,177
Africa	8,162	11,157	13,491	1,678	3,371	2,712	1,801	1,954	1,719
Middle East	8,294	8,803	10,599	467	601	2,062	1,412	1,328	757
Asia and Pacific Of which:	139,548	146,610	161,797	15,363	13,693	13,471	18,795	19,513	12,623
Australia Japan		29,910 33,725	33,676 38,153	3,787 –280	2,393 -371	3,659 3,844	2,851 3,475	3,598 3,516	1,898 2,179
International	4,295	4,317	4,578	1,451	694	582	278	383	823
By industry									
Petroleum	75,232	82,212	91,113	6,239	9,603	9,780	12,082	11,823	8,059
Manufacturing Food and kindred products Chemicals and allied products Primary and fabricated metals Industrial machinery and equipment Electronic and other electric equipment Transportation equipment Other manufacturing	31,024 74,858 16,309 30,336 31,832	280,332 32,465 77,112 15,924 32,293 31,624 34,907 56,006	304,690 33,871 83,589 17,098 34,755 34,531 35,615 65,231	24,325 2,095 5,796 6,064 2,752 3,440 708 3,470	28,097 3,806 7,210 444 4,381 2,992 4,419 4,845	26,680 1,670 7,072 1,109 2,810 2,670 1,692 9,658	34,342 4,452 9,529 1,358 4,637 4,280 3,409 6,677	38,283 4,910 10,050 1,406 5,669 4,700 5,048 6,500	31,416 4,262 9,930 1,278 4,213 2,763 2,385 6,586
Wholesale trade	67,125	64,432	75,188	6,498	846	9,130	9,068	9,538	10,794
Depository institutions	36,807	40,169	42,029	2,448	3,036	1,253	3,329	3,374	577
Finance, (except depository institutions), insurance, and real estate	254,739	293,116	337,600	31,601	41,388	44,445	28,938	31,912	30,702
Services	37,850	42,342	52,514	3,511	4,557	10,867	3,627	5,533	4,722
Other industries	53,155	62,925	77,432	9,804	11,990	19,490	2,209	3,429	3,972

NOTES.—In this table, unlike in the international transactions accounts, income and capital outflows are shown without a current-cost adjustment, and income is shown net of withholding taxes. In addition, unlike in the international investment position, the direct investment position is valued at historical cost.

The data in this table are from tables 16 and 17 in "U.S. Direct Investment Abroad: Detail for Historical-Cost Position and Related Capital and Income Flows, 1998" in the September 1999 issue of the SURVEY.

Table G.3.—Selected Financial and Operating Data for Nonbank Foreign Affiliates of U.S. Companies, by Country and by Industry of Foreign Affiliate, 1997

	Number of		Millions of dollars		Thousands of
	affiliates	Total assets	Sales	Net income	employees
All countries, all industries	22,871	3,397,262	2,356,416	155,267	8,018.0
By country					
Canada	2,073	294,943	274,205	13,654	941.9
Europe Of which:	11,209	1,914,373	1,214,194	77,854	3,333.9
France Germany Italy Netherlands Switzerland United Kingdom	1,297 1,424 783 1,104 545 2,532	144,057 213,029 66,091 179,751 93,348 923,207	130,883 234,508 74,035 130,053 67,620 337,907	3,424 7,531 2,311 17,014 9,155 18,020	483.7 627.4 205.5 169.4 L 977.2
Latin America and Other Western Hemisphere	3,583	458,889	268,912	30,849	1,629.2
Brazil	461 874	79,240 83,500	67,380 88,063	4,934 8,488	340.8 793.0
Africa	559	40,602	29,150	2,653	186.6
Middle East	355	39,411	24,950	2,603	77.4
Asia and Pacific	4,977	628,118	536,462	26,231	1,835.8
Of which: Australia Japan	904 990	96,250 266,028	68,519 205,072	3,899 5,925	304.2 396.7
International	115	20,926	8,545	1,422	13.2
By industry					
Petroleum	1,622	295,313	360,452	19,778	226.1
Manufacturing Food and kindred products Chemicals and allied products Primary and fabricated metals Industrial machinery and equipment Electronic and other electric equipment Transportation equipment Other manufacturing	8,528 789 2,065 760 1,090 908 530 2,386	884,113 112,875 220,923 47,209 123,273 84,525 131,550 163,757	1,086,129 127,710 207,988 44,679 178,257 110,625 244,199 172,671	61,660 8,810 17,900 2,043 9,033 6,905 6,198 10,772	4,592.9 598.0 622.4 244.7 634.1 774.5 724.2 995.0
Wholesale trade	5,045	223,451	422,285	15,218	588.0
Finance, (except depository institutions), insurance, and real estate	3,115	1,498,127	135,331	42,922	218.8
Services	2,873	154,234	128,639	6,843	988.9
Other industries	1,688	342,025	223,580	8,846	1,403.3

Notes.—Size ranges are given in employment cells that are suppressed. The size range is L=50,000-99,999.

The data in this table are from "U.S. Multinational Companies: Operations in 1997" in the July 1999 issue of the $\ensuremath{\mathsf{SURVEY}}$.

Table G.4.—Foreign Direct Investment in the United States: Selected Items, by Country of Foreign Parent and by Industry of Affiliate, 1996–98

[Millions of dollars]

		estment pos orical-cost b		Capital i	nflows (outfl	ows (-))		Income	
	1996	1997	1998	1996	1997	1998	1996	1997	1998
All countries, all industries	598,021	693,207	811,756	84,455	105,488	188,960	30,407	42,115	38,015
By country									
Canada	54,836	69,866	74,840	8,590	15,399	11,859	3,190	3,361	3,010
Europe	370,843	432,622	539,906	55,989	70,508	167,655	23,724	31,380	27,635
Of which: France Germany Netherlands United Kingdom	61,096 75,349	49,503 71,289 89,570 131,315	62,167 95,045 96,904 151,335	7,244 19,616 12,262 14,404	10,993 12,919 13,658 11,234	12,308 42,145 7,018 69,968	2,405 2,509 5,271 10,374	3,183 3,294 7,103 11,440	3,137 4,392 5,920 7,815
Latin America and Other Western Hemisphere	28,002	33,546	32,210	1,990	3,993	278	1,383	1,752	1,494
Of which: Brazil Mexico		742 3,315	609 4,029	64 47	64 330	-132 864	45 1	44 171	82 270
Africa	994	1,465	884	-101	435	-572	-136	-352	-89
Middle East	5,812	6,593	7,831	496	791	967	118	617	475
Asia and Pacific	137,533	149,115	156,085	17,493	14,361	8,773	2,129	5,356	5,489
Australia Japan		14,703 125,131	14,755 132,569	5,321 13,337	2,254 9,275	2,034 7,101	492 2,939	214 5,780	672 5,187
By industry									
Petroleum	43,483	42,085	53,254	8,852	2,805	57,355	4,160	4,555	1,443
Manufacturing Food and kindred products Chemicals and allied products Primary and fabricated metals Machinery Other manufacturing	28,088 79,515 18,576 39,093	273,122 26,710 88,831 23,366 46,636 87,580	329,346 18,112 101,351 22,512 59,260 128,112	37,538 1,981 8,081 5,397 2,868 19,211	36,086 -903 13,746 4,258 7,573 11,411	87,454 -5,020 10,325 1,041 18,475 62,632	15,694 1,819 5,014 1,024 1,166 6,671	18,628 1,532 5,556 1,572 2,805 7,162	20,696 1,056 6,190 1,744 2,718 8,988
Wholesale trade	73,506	87,630	96,261	7,974	14,729	11,004	2,256	3,972	5,247
Retail trade	13,765	16,718	18,778	2,708	2,622	1,946	509	487	579
Depository institutions	31,264	38,118	44,785	138	6,800	5,684	2,867	3,930	3,067
Finance, except depository institutions	37,531	43,413	50,858	6,186	7,140	5,812	855	1,979	-718
Insurance	56,124	70,492	80,378	6,747	12,097	6,817	2,382	4,681	4,019
Real estate	35,169	40,060	44,436	2,535	4,675	3,284	-59	789	948
Services	29,391	38,521	50,252	4,214	7,862	10,744	-14	916	1,358
Other industries	32,126	43,049	43,409	7,562	10,673	-1,139	1,757	2,178	1,376

NOTES.—In this table, unlike in the international transactions accounts, income and capital inflows are shown without a current-cost adjustment, and income is shown net of withholding taxes. In addition, unlike in the international investment position, the direct investment position is valued at historical cost.

The data in this table are from tables 16 and 17 in "Foreign Direct Investment in the United States: Detail for Historical-Cost Position and Related Capital and Income Flows, 1998" in the September 1999 issue of the SURVEY.

Table G.5.—Selected Financial and Operating Data of Nonbank U.S. Affiliates of Foreign Companies by Country of Ultimate Beneficial Owner and by Industry of Affiliate, 1997

			Millions of	of dollars			Millions of	of dollars
	Number of affiliates	Total assets	Sales	Net income	Gross product	Thousands of employees	U.S. exports of goods shipped by affiliates	U.S. imports of goods shipped to affiliates
All countries, all industries	9,474	3,034,404	1,717,240	42,547	384,883	5,164.3	140,924	261,482
By country								
Canada	945	309,080	139,409	3,693	34,464	601.6	7,787	14,356
Europe	4,071	1,809,319	940,672	31,107	245,919	3,213.9	62,392	94,512
Of which: France Germany Netherlands Switzerland United Kingdom	513 1,011 302 404 929	322,270 302,740 260,034 339,896 454,081	135,414 194,492 124,109 110,077 258,845	2,959 5,071 5,508 2,986 12,119	35,863 46,171 33,750 25,637 78,550	411.2 657.6 391.4 352.1 983.2	14,032 13,973 4,592 6,233 14,543	12,936 32,032 10,191 7,127 15,363
Latin America and Other Western Hemisphere	632	59,833	53,469	2,522	13,545	168.1	5,308	9,622
Africa	41	11,969	11,222	326	2,843	22.4	855	634
Middle East	307	28,841	25,246	1,151	7,295	92.7	814	5,534
Asia and Pacific Of which:	3,373	687,245	523,479	918	73,667	1,012.6	62,709	135,739
Australia Japan	135 2,587	55,514 582,570	26,132 446,422	-101 2,701	5,207 62,345	80.1 812.4	1,410 52,883	1,501 120,357
United States	105	128,117	23,742	2,829	7,151	52.9	1,058	1,084
By industry ¹								
Manufacturing Of which:	2,846	680,260	667,576	18,826	188,477	2,227.0	70,053	99,304
Food Frond Primary and fabricated metals Machinery Computers and electronic products Electrical equipment, appliances, and components Transportation equipment	214 339 373 359 333 104 260	43,894 190,326 67,516 47,246 53,182 22,574 49,211	47,082 141,744 65,075 56,680 73,413 26,203 72,607	183 4,280 1,744 1,390 -257 631 2,060	10,953 40,906 16,510 16,607 15,658 7,537 13,554	152.7 389.4 219.4 260.8 239.6 129.5 207.9	2,620 15,259 5,133 10,357 13,092 3,430 7,631	2,675 16,019 8,329 8,267 20,612 3,421 18,203
Wholesale trade	1,708	293,144	530,141	3,889	51,856	538.5	63,231	155,716
Retail trade	210	49,802	96,624	1,197	25,009	688.7	1,951	3,973
Information	236	144,497	80,845	2,445	27,120	293.4	888	374
Finance (except depository institutions) and insurance	570	1,534,492	175,822	11,220	26,331	219.8	(^D)	(D)
Real estate and rental and leasing	1,935	116,679	20,813	204	9,084	47.0	(^D)	(D)
Professional, scientific, and technical services	301	17,299	15,972	-570	5,981	82.6	361	567
Other industries	1.668	198,229	129,448	5,337	51,025	1,067.3	4,332	1,255

^D Suppressed to avoid disclosure of data of individual companies.
 The industry classification system used to classify the data for U.S. affiliates is based on the North American Industry Classification System. Prior to 1997, the affiliate data were classified

using an industry classification system based on the Standard Industrial Classification system.

NOTE.—The data in this table are from "Foreign Direct Investment in the United States: Prelimi-nary Results from the 1997 Benchmark Survey" in the August 1999 issue of the SURVEY.

H. International Perspectives_____

Quarterly data in this table are shown in the middle month of the quarter.

Table H.1.—International Perspectives

				1998							1999					
	1997	1998	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.
						Exchang	e rates pe	r U.S. doll	ar (not sea	asonally ad	justed) 1					
Canada (Can.\$/US\$) European Monetary Union (US\$/Euro) ² France (FFr/US\$) ² Germany (DM/US\$) ²	1.3849 5.8393 1.7348	1.4836 5.8995	1.5452 5.4925 1.6381	1.5404 5.6422 1.6827	1.5433 5.5981	1.5194 1.1591	1.4977 1.1203	1.5176 1.0886	1.4881 1.0701	1.4611 1.0630	1.4695 1.0377	1.4890 1.0370	1.4932 1.0605	1.4771 1.0497	1.4776 1.0706	1.4674 1.0328
Italy (L/US¢) ² Japan (¥/US¢) Mexico (Peso/US\$) United Kingdom (US\$/£)	1.7346 17.0381 1.2106 7.9177 1.6376	1.7597 17.3685 1.3099 9.1520 1.6573	1.0381 16.2096 1.2105 10.1594 1.6944	1.6627 16.6491 1.2029 9.9680 1.6611	1.6698 16.5323 1.1707 9.9070 1.6708	1.1329 10.1280 1.6498	1.1667 10.0060 1.6276	1.1947 9.7320 1.6213	1.1977 9.4300 1.6089	1.2200 9.3950 1.6154	1.2072 9.5150 1.5950	1.1933 9.3700 1.5751	1.1323 9.3980 1.6058	1.0688 9.3410 1.6247	1.0597 9.5750 1.6572	1.0465 9.4160 1.6205
Addendum: Exchange value of the U.S. dollar ³	104.44	116.48	115.85	115.73	114.98	115.16	116.84	118.22	117.57	117.34	117.93	117.97	117.00	116.38	115.88	116.08
					U	nemploym	ent rates (percent, m	onthly dat	a seasonal	ly adjusted	d)				
Canada France Germany Italy	9.2 12.5 11.5 12.3	8.3 11.8 11.1 12.3	8.0 11.7 10.6	8.0 11.6 10.7 12.4	8.0 11.5 10.7	7.8 11.5 10.6	7.8 11.4 10.6 12.3	7.8 11.4 10.6	8.3 11.3 10.6	8.1 11.4 10.5 11.8	7.6 11.3 10.5	7.7 11.2 10.5	7.8 11.3 10.5	7.5 11.1 10.5	7.2 11.0 10.5	10.8 10.4
Japan Mexico United Kingdom	3.4 3.7 5.5	4.1 3.2 4.7	4.3 3.1 4.6	4.4 2.6 4.6	4.4 2.6 4.6	4.4 2.8 4.5	4.6 3.2 4.6	4.8 2.7 4.5	4.8 2.7 4.5	4.6 2.4 4.5	4.9 2.6 4.4	4.9 2.3 4.3	4.7 2.5 4.2	4.6 2.2 4.2	4.6 2.4 4.2	4.5 2.3 4.1
Addendum: United States	4.9	4.5	4.5	4.4	4.4	4.3	4.4	4.2	4.3	4.2	4.3	4.3	4.2	4.2	4.1	4.1
					(Consumer	orices (mo	nthly data	seasonally	adjusted,	1995=100)				
Canada France Germany Italy Japan Mexico United Kingdom	103.22 103.23 103.34 106.13 101.84 162.09 105.66	104.25 104.01 104.30 108.22 102.50 187.91 109.27	104.60 104.02 104.21 108.60 103.29 195.42 110.36	104.60 103.91 104.21 108.80 103.19 198.88 110.29	104.31 104.02 104.31 108.80 102.79 203.73 110.29	104.50 103.70 104.11 108.90 102.29 208.88 109.62	104.69 104.02 104.31 109.10 101.89 211.68 109.82	105.08 104.43 104.41 109.30 101.99 213.65 110.09	105.65 104.64 104.81 109.60 102.49 215.61 110.83	105.94 104.64 104.81 109.80 102.49 216.91 111.10	106.04 104.64 104.91 109.80 102.19 218.33 111.10	106.33 104.43 105.41 110.10 101.79 219.78 110.76	106.61 104.54 105.31 110.20 102.09 221.01 111.03	106.90 104.74 105.11 110.40 102.39 223.15 111.50	107.0 104.8 105.0 110.8 102.6 224.6 111.7	106.9 104.8 105.2 111.0 102.0 226.6 111.8
Addendum: United States	105.34	106.97	107.56	107.75	107.89	108.02	108.08	108.28	109.07	109.07	109.07	109.40	109.72	110.18	110.4	110.5
			Real gros	s domesti	c product ((percent ch	nange from	preceding	g quarter, o	quarterly d	ata seasor	nally adjust	ed at ann	ual rates)		
Canada France Germany Italy Japan Mexico United Kingdom	4.0 2.0 1.5 1.5 1.4 6.8 3.5	3.1 3.3 2.1 1.3 –2.8 4.8 2.2	·····	4.8 2.6 -1.1 -1.0 -3.3 -4.3 .2	·····		4.2 1.4 1.8 .7 8.1 3.6 .9	······	·····	3.3 2.5 .2 1.3 .9 9.2 2.6	·····		······	······	·····	
Addendum: United States	4.5	4.3		5.9			.5			1.9						5.8

See footnotes at the end of the table.

Table H.1.—International Perspectives—Continued

						-										
	1997	1998		1998							1999					
	1991	1990	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
					Short-te	erm, 3-mo	onth, inter	est rates	(percent,	not seas	sonally a	djusted)				
Canada France Germany	3.53 3.46 3.33	5.04 3.56 3.54	5.27 3.56 3.57	5.13 3.59 3.63	4.99 3.32 3.38	4.99	5.02	5.00	4.71	4.58	4.80	4.77	4.89	4.81	5.00	5.03
Italy Japan Mexico United Kingdom	6.88 .60 21.27 6.83	4.99 .72 26.11 7.33	4.53 .61 37.49 7.13	3.95 .63 34.30 6.88	3.38 .62 34.35 6.37		.58 28.72 5.42	.20 23.86 5.29	.19 21.05 5.23	.08 21.02 5.25	.07 21.35 5.12	.08 20.78 5.07	.07 21.49 5.17	.12 21.34 5.32	20.30 5.94	18.68 5.78
Addendum: United States	5.07	4.81	4.08	4.44	4.42	4.34	4.45	4.48	4.28	4.51	4.59	4.60	4.76	4.73	4.88	5.07
	Long-term interest rates, government bond yields (percent, not seasonally adjusted)															
Canada France Germany Italy Japan	6.47 5.67 5.66 6.86 2.37	5.45 4.82 4.58 4.88 1.54	5.17 4.51 4.10 4.49 .88	5.39 4.43 4.10 4.38 .98	5.07 4.41 3.90 4.00 1.49	5.13 4.13 3.70 3.92 1.91	5.26 4.42 3.90 4.05 2.12	5.34 4.39 4.00 4.27 1.82	5.26 4.25 3.90 4.11 1.56	5.51 4.45 4.00 4.28 1.33	5.70 4.94 4.40 4.62 1.63	5.61 5.08 4.68 4.94 1.70	5.85 5.17 4.88 5.13 1.88	5.88 5.35 5.04 5.28 1.76	6.26 5.67 5.52	6.15 5.66 5.25
United Kingdom	7.04	5.52	5.00	4.91	4.50	4.29	4.45	4.66	4.59	4.91	5.16	5.33	5.38	5.65	5.83	5.28
United States	6.35	5.26	4.53	4.83	4.65	4.72	5.00	5.23	5.18	5.54	5.90	5.79	5.94	5.92	6.11	6.03
					S	hare pric	e indices	(not sea	sonally a	djusted, 1	995=100)				
Canada France	145.70 147.01 154.73 137.74 101.03 200.17 128.26	152.40 192.24 197.73 220.53 85.36 191.09 150.50	140.00 171.01 171.38 188.79 74.15 183.61 136.64	143.10 190.90 188.86 213.89 80.59 169.86 148.92	146.30 193.39 186.88 224.00 80.25 178.41 150.07	151.80 210.44 199.85 241.37 78.31 178.34 157.29	142.40 210.06 195.26 236.94 79.78 191.98 159.40	148.80 211.54 191.41 248.62 87.18 222.15 162.89	158.20 220.92 200.13 251.95 96.31 243.96 169.18	154.30 225.11 200.70 247.42 96.25 246.81 168.18	158.10 230.17 202.32 247.42 99.81 262.67 171.00	159.70 236.08 209.77 248.11 106.74 237.02 173.50	157.20 231.73 200.77 234.24 106.15 229.20 168.92	156.90 242.28 203.21 242.54 108.33 227.56 166.66	163.7 243.0 202.7 235.0 245.6 164.3	169.7 264.9 218.1 241.0 276.5 175.0
Addendum: United States	156.81	189.00	175.68	193.80	197.85	204.51	202.20	207.35	215.61	218.31	216.22	222.85	213.30	208.78	206.0	218.0

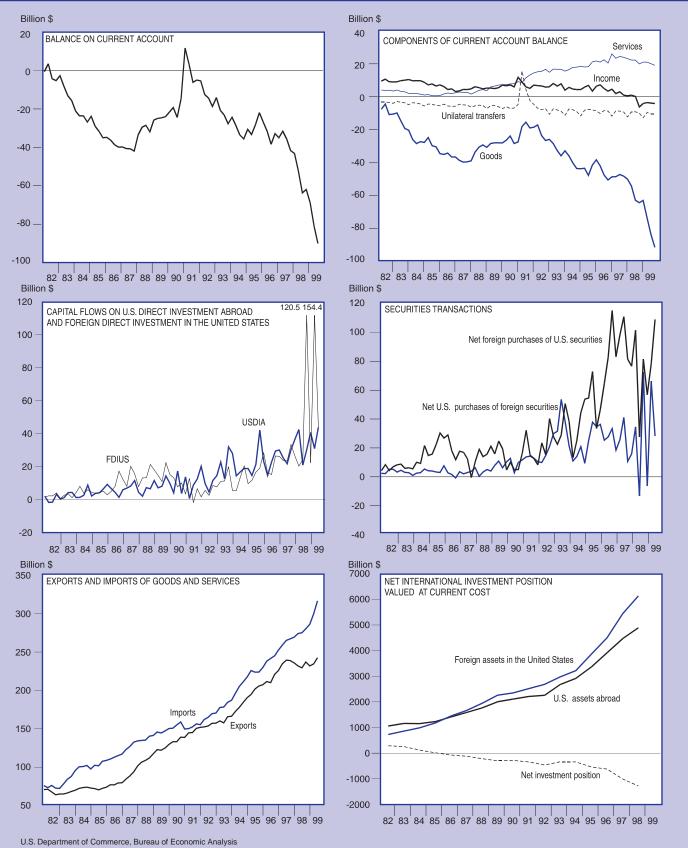
1. All exchange rates are from the Board of Governors of the Federal Reserve System.

2. As of January 1, 1999, the euro is reported in place of the individual euro-area currencies. These currency rates can be derived from the euro rate by using the following conversion rates: 1 euro = 6.55957 French francs, 1.95583 German marks, and 1936.27 Italian lire.
3. The rate shown for the United States is an index of the weighted average of the foreign exchange value of the U.S. dollar against the currencies of a broad group of major U.S. trading partners, January 1997=100: and

reflects revised trade weights. For more information, see "New Summary Measures of the Foreign Exchange Value of the Dollar," *Federal Reserve Bulletin* 84 (October 1998): 811–18. NOTE.—U.S. interest rates, unemployment rates, and GDP growth rates are from the Federal Reserve, the Bureau of Labor Statistics, and BEA, respectively. All other data (including U.S. consumer prices and U.S. share prices, both of which have been rebased to 1995 to facilitate comparison) are © OECD, January 2000, *OECD Main Economic Indicators* and are reproduced with permission of the OECD.

I. Charts

THE U.S. IN THE INTERNATIONAL ECONOMY



Regional Data

J. State and Regional Tables

The tables in this section include the most recent estimates of State personal income and gross state product. The sources of these estimates are noted.

The quarterly and annual State personal income estimates and the gross state product estimates are available on diskettes or CD-ROM. For information on State personal income, E-mail reis.remd@bea.doc.gov; write to the Regional Economic Information System, BE-55, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230; or call 202-606-5360. For information on gross state product, E-mail gspread@bea.doc.gov; write to the Regional Economic Analysis Division, BE-61, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230; or call 202-606-5340.

				Millions o	f dollars, se	asonally adj	usted at an	nual rates					Percent of	change 1	
Area name		19	97			19	98			1999		1998:III-	1998:IV-	1999:I-	1999:II-
	I	Ш	Ш	IV	I	II	Ш	IV	I	Ш	Ш	1998:IV	1999:l	1999:II	1999:III
United States	6,650,207	6,726,629	6,807,506	6,898,259	7,016,041	7,108,060	7,199,440	7,309,162	7,406,673	7,504,566	7,601,815	1.5	1.3	1.3	1.3
New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	399,830 115,126 26,877 187,831 31,755 24,886 13,354	403,744 116,357 27,112 189,367 32,233 25,223 13,452	408,242 117,455 27,267 191,863 32,759 25,372 13,524	415,615 119,755 27,715 194,969 33,436 25,877 13,864	419,963 121,057 27,865 197,207 33,646 26,152 14,037	426,088 122,052 28,406 200,905 34,124 26,370 14,230	433,011 123,950 28,936 204,031 34,937 26,762 14,394	440,347 126,664 29,271 206,866 35,796 27,172 14,578	443,257 127,236 29,236 209,219 35,587 27,335 14,644	450,901 129,428 30,017 212,737 36,190 27,564 14,965	457,711 131,570 30,390 215,906 36,692 28,007 15,147	1.7 2.2 1.2 1.4 2.5 1.5 1.3	.7 .5 1 6 .6 .5	1.7 1.7 2.7 1.7 1.7 .8 2.2	1.5 1.7 1.2 1.5 1.4 1.6 1.2
Mideast	1,287,567	1,293,436	1,309,439	1,325,328	1,345,232	1,364,051	1,380,603	1,389,923	1,420,878	1,435,616	1,453,918	.7	2.2	1.0	1.3
Delaware	20,631	20,639	21,094	21,422	21,892	22,118	22,225	22,796	23,078	23,191	23,541	2.6	1.2	.5	1.5
District of Columbia	18,760	18,805	19,028	19,085	19,191	19,408	19,687	19,817	20,235	20,450	20,709	.7	2.1	1.1	1.3
Maryland	143,770	145,016	146,589	148,983	150,778	153,116	155,299	157,464	159,802	161,725	163,589	1.4	1.5	1.2	1.2
New Jersey	257,066	258,617	261,795	265,466	270,299	273,177	278,572	280,078	288,406	291,133	294,092	.5	3.0	.9	1.0
New York	543,350	543,675	551,780	556,901	565,642	575,201	581,019	581,208	598,865	603,200	612,924	0	3.0	.7	1.6
Pennsylvania	303,989	306,686	309,153	313,471	317,430	321,031	323,801	328,561	330,493	335,917	339,062	1.5	.6	1.6	.9
Great Lakes	1,089,113	1,102,312	1,112,380	1,126,771	1,143,432	1,155,114	1,163,136	1,185,908	1,192,794	1,207,693	1,223,340	2.0	. 6	1.2	1.3
	325,749	330,416	333,657	338,040	342,467	346,668	350,023	356,961	361,142	366,399	371,323	2.0	1.2	1.5	1.3
	133,919	135,408	136,348	138,619	140,635	142,285	143,902	146,627	147,355	148,532	150,129	1.9	.5	.8	1.1
	240,467	243,025	245,370	247,430	253,117	254,683	253,375	258,980	259,761	262,359	265,883	2.2	.3	1.0	1.3
	266,151	269,084	271,385	275,181	278,627	280,966	283,518	288,569	290,063	293,306	297,072	1.8	.5	1.1	1.3
	122,827	124,378	125,620	127,501	128,587	130,512	132,318	134,771	134,472	137,098	138,932	1.9	–.2	2.0	1.3
Plains lowa lowa Kansas Minnesota Missouri Metraska Noth Dakota South Dakota South Dakota	438,635	444,771	449,351	454,161	460,014	466,078	470,605	482,185	484,446	492,615	496,817	2.5	.5	1.7	.9
	64,874	65,808	66,185	67,105	67,104	67,830	68,745	71,199	70,660	71,542	72,266	3.6	8	1.2	1.0
	61,007	62,081	62,782	63,581	64,435	65,385	65,973	67,625	67,566	68,751	69,264	2.5	1	1.8	.7
	120,365	122,372	123,869	125,434	128,013	129,951	130,696	134,286	135,399	137,966	140,045	2.7	.8	1.9	1.5
	126,067	127,093	128,381	129,637	130,680	132,228	133,834	135,080	136,906	138,775	139,964	.9	1.4	1.4	.9
	38,487	39,037	39,412	39,604	40,140	40,820	41,349	42,538	42,435	43,082	43,198	2.9	2	1.5	.3
	12,646	12,838	12,986	13,072	13,623	13,680	13,758	14,358	14,419	14,906	14,692	4.4	.4	3.4	-1.4
	15,190	15,541	15,736	15,729	16,019	16,185	16,250	17,099	17,062	17,594	17,388	5.2	2	3.1	-1.2
Southeast	1,458,318 88,240 48,531 357,463 175,822 79,087 87,638 48,597 169,449 76,523 120,173 173,146 33,649	1,472,319 88,927 49,268 361,282 177,615 80,058 88,570 49,213 171,121 77,139 120,999 174,227 33,900	1,488,852 89,599 49,629 366,450 179,751 80,819 89,247 49,609 172,593 78,010 122,280 176,798 34,066	1,509,533 90,626 50,338 370,723 182,310 81,777 90,811 50,330 175,453 79,071 124,284 179,473 34,337	$\begin{array}{c} \textbf{1,535,161}\\ \textbf{91,987}\\ \textbf{50,874}\\ \textbf{377,760}\\ \textbf{186,808}\\ \textbf{83,283}\\ \textbf{91,958}\\ \textbf{51,250}\\ \textbf{178,542}\\ \textbf{79,995}\\ \textbf{125,583}\\ \textbf{182,445}\\ \textbf{34,676} \end{array}$	1,557,124 92,976 51,403 383,881 189,851 84,440 93,334 51,828 180,852 81,170 127,546 184,931 34,911	1,580,149 94,041 51,790 389,957 193,919 85,430 93,822 52,680 183,188 82,960 129,172 187,900 35,290	1,601,518 95,265 52,984 395,019 196,882 86,183 94,605 53,374 185,561 84,033 130,676 191,467 35,469	1,620,186 95,780 53,182 396,747 201,289 87,280 94,707 53,518 188,551 84,595 132,161 196,815 35,562	1,638,193 97,014 53,759 403,978 203,893 88,019 95,555 54,094 190,432 86,002 133,735 195,755 35,955	1,657,547 98,145 53,827 411,109 206,991 89,326 96,399 54,754 188,436 87,303 135,935 198,751 36,570	1.4 1.3 2.3 1.5 .9 .9 .8 1.3 1.3 1.3 1.3 1.2 1.9 .5	1.2 .5 .4 .2 1.3 1.6 .7 1.1 2.8 .3	1.1 1.3 1.1 1.8 1.3 .8 .9 1.1 1.0 1.7 1.2 5 1.1	1.2 1.2 .1 1.5 1.5 .9 1.2 -1.0 1.5 1.6 1.5 1.7
Southwest	643,609	655,242	666,522	676,461	692,740	702,120	713,181	723,371	731,553	743,460	754,190	1.4	1.1	1.6	1.4
Arizona	97,748	99,234	100,914	102,744	104,765	106,967	109,091	111,522	111,051	115,051	117,435	2.2	4	3.6	2.1
New Mexico	32,780	33,202	33,404	33,689	34,239	34,543	34,800	35,431	35,190	36,063	36,471	1.8	7	2.5	1.1
Oklahoma	66,453	67,024	67,623	68,676	69,562	70,257	70,847	71,211	71,909	72,927	73,682	.5	1.0	1.4	1.0
Texas	446,628	455,782	464,580	471,352	484,174	490,352	498,443	505,206	513,403	519,419	526,601	1.4	1.6	1.2	1.4
Rocky Mountain	194,734	198,098	201,433	204,128	209,209	211,736	214,437	219,191	222,178	227,417	230,648	2.2	1.4	2.4	1.4
Colorado	101,986	104,199	106,206	108,182	111,925	113,255	114,793	117,823	119,334	122,654	124,766	2.6	1.3	2.8	1.7
Idaho	24,167	24,524	24,894	25,017	25,426	25,622	26,076	26,480	27,054	27,403	27,660	1.5	2.2	1.3	.9
Montana	17,007	17,182	17,349	17,565	17,547	17,786	17,728	18,246	18,476	18,964	19,024	2.9	1.3	2.6	.3
Utah	40,836	41,410	42,087	42,393	43,288	44,070	44,561	45,269	45,727	46,729	47,466	1.6	1.0	2.2	1.6
Wyoming	10,737	10,783	10,897	10,972	11,023	11,004	11,278	11,372	11,587	11,666	11,732	.8	1.9	.7	.6
Far West Alaska California Hawaii Nevada Oregon Washington	1,138,401	1,156,706	1,171,286	1,186,262	1,210,289	1,225,749	1,244,320	1,266,721	1,291,380	1,308,673	1,327,645	1.8	1.9	1.3	1.4
	14,984	15,237	15,275	15,393	15,805	15,749	15,762	15,978	16,154	16,114	16,236	1.4	1.1	2	.8
	828,154	842,113	853,136	863,952	881,119	892,504	906,175	923,802	941,435	956,059	969,041	1.9	1.9	1.6	1.4
	30,224	30,437	30,727	30,669	31,022	31,192	31,316	31,543	31,649	32,061	32,523	.7	.3	1.3	1.4
	43,671	44,255	44,662	45,450	46,344	47,203	48,135	49,497	50,522	51,156	52,435	2.8	2.1	1.3	2.5
	76,340	77,063	78,110	78,803	80,391	81,101	81,532	82,215	84,336	85,366	86,664	.8	2.6	1.2	1.5
	145,028	147,601	149,376	151,995	155,609	157,999	161,400	163,686	167,285	167,917	170,746	1.4	2.2	.4	1.7

Table J.1.—Quarterly Personal Income by State and Region

1. Percent changes are expressed at quarterly rates.

NOTE.—The personal income level shown for the United States is derived as the sum of the State estimates. It differs from the estimate of personal income in the national income and product accounts (NIPA's) because of differences in coverage, in the methodologies used to prepare the estimates, and in the timing of the availability

of source data. In particular, it differs from the NIPA estimate because, by definition, it omits the earnings of Federal civilian and military personnel stationed abroad and of U.S. residents employed abroad temporarily by private U.S. firms.

Source: Table 1 in "State Personal Income, Third Quarter 1999" in this issue of the SURVEY OF CURRENT BUSI-NESS.

Table J.2.—Annual Personal Income and Disposable Personal Income for States and Regions

		Р	ersonal incon	ne			Disposa	ble personal	income	
Area name	M	illions of dolla	irs	Percent	change	М	illions of dolla	irs	Percent	change
	1996	1997	1998	1996–97	1997–98	1996	1997	1998	1996–97	1997–98
United States	6,408,103	6,770,650	7,158,176	5.7	5.7	5,518,569	5,782,712	6,061,088	4.8	4.
New England		406,858	429,852	5.8	5.7	323,239	338,425	353,824	4.7	4
Connecticut		117,173	123,431	5.7	5.3	91,503	95,453	99,259	4.3	4
Maine	25,934	27,243	28,620	5.0	5.1	22,772	23,671	24,650	3.9	4
Massachusetts		191,008	202,252	6.1	5.9	149,777	157,389 28,254	164,889 29,849	5.1	4
New Hampshire Rhode Island	30,633 24,067	32,546 25,340	34,626 26,614	6.2 5.3	6.4 5.0	26,831 21,022	28,254 21,942	29,849 22,878	5.3 4.4	э 4
Vermont		13,549	14,309	4.2	5.6	11,333	11,717	12,299	3.4	5
Nideast	1,245,254	1,303,943	1,369,952	4.7	5.1	1,057,756	1,096,946	1,140,195	3.7	3
Delaware		20,946	22,258	6.2	6.3	16,796	17,699	18,647	5.4	5
District of Columbia		18,919	19,526	2.5	3.2	15,623	15,851	16,100	1.5	1
Maryland		146,090	154,164	5.8	5.5	117,094	122,434	128,282	4.6	4
New Jersey	247,381	260,736	275,531	5.4	5.7	210,191	219,885	229,892	4.6	4
New York		548,927	575,768	4.3	4.9	442,273	456,565	472,647	3.2	3
Pennsylvania	295,230	308,325	322,706	4.4	4.7	255,779	264,511	274,626	3.4	3
Great Lakes	1,054,547	1,107,644	1,161,898	5.0 5.4	4.9	902,103	939,326	977,559	4.1	4
Illinois		331,966	349,029	5.4	5.1 5.4	268,434	280,280	292,419	4.4 4.3	4
Indiana Michigan		136,073 244,073	143,362 255,039	5.0 4.5	4.5	111,656 199,607	116,414 206,608	121,876 214,329	4.3	4
Ohio		270,450	282,920	5.0	4.5	221,394	230,780	239,089	4.2	3
Wisconsin		125,081	131,547	5.2	5.2	101,011	105,244	109,846	4.2	4.
Plains	425,718	446,730	469,721	4.9	5.1	367,001	381,713	398,925	4.0	4
lowa		65,993	68,720	5.2	4.1	54,824	57,253	59,222	4.4	3
Kansas	58,690	62,363	65,854	6.3	5.6	50,703	53,488	56,057	5.5	4
Minnesota		123,010	130,737	4.9	6.3	97,774	101,468	107,358	3.8	5
Missouri		127,795	132,955	5.4	4.0	105,529	110,307	113,948	4.5	3.
Nebraska	37,652	39,135	41,212	3.9	5.3	32,903	33,827	35,446	2.8	4.
North Dakota South Dakota	12,983 15,076	12,885 15,549	13,855 16,388	8 3.1	7.5 5.4	11,620 13,649	11,389 13,982	12,230 14,665	-2.0 2.4	7. 4.
Southeast	1,401,506	1,482,256	1,568,488	5.8	5.8	1,225,384	1,286,377	1,350,586	5.0	5.
Alabama		89,348 49,442	93,567 51,763	5.0	4.7	75,473	78,809	82,148	4.4	4
Arkansas Florida		363,980	386,654	4.9 5.9	4.7	41,791 298,933	43,686 313,790	45,394 330,157	4.5 5.0	5
Georgia		178,875	191,865	6.5	7.3	145,199	153,506	163,232	5.7	6
Kentucky		80,435	84,834	6.4	5.5	65,938	69,749	73,168	5.8	4
Louisiana		89,067	93,430	4.7	4.9	76,061	78,903	82,179	3.7	4
Mississippi	47,150	49,437	52,283	4.9	5.8	42,827	44,697	47,079	4.4	5
North Carolina		172,154	182,036	6.8	5.7	139,842	148,266	155,290	6.0	4
South Carolina		77,686	82,039	5.8	5.6	64,545	67,858	71,340	5.1	5
Tennessee		121,934	128,244	5.4	5.2	102,991	107,789	112,656	4.7	4
Virginia	166,351	175,911	186,686	5.7 3.1	6.1 3.2	142,308	149,103	156,916	4.8	5
West Virginia		33,988	35,087			29,476	30,222	31,026	2.5	2.
Southwest	614,265	660,458	707,853	7.5 7.2	7.2 7.9	543,363 81.041	581,106	618,773	6.9	6.
Arizona New Mexico		100,160 33,269	108,087 34,753	4.5	4.5	28,249	86,119 29.307	92,333 30.524	6.3 3.7	7 4
Oklahoma		67,444	70,469	4.5	4.5	56,059	58,974	61,218	5.2	4
Texas		459,585	494,544	8.1	7.6	378,015	406,707	434,698	7.6	6.
Rocky Mountain	186,887	199,598	213,643	6.8	7.0	160,565	170,034	180,610	5.9	6.
Colorado	97,735	105,143	114,449	7.6	8.9	83,250	88,686	95,810	6.5	8
Idaho	23,418	24,651	25,901	5.3	5.1	20,420	21,347	22,275	4.5	4.
Montana		17,276	17,827	4.4	3.2	14,546	15,064	15,434	3.6	2
Utah Wyoming		41,681 10,847	44,297 11,169	7.3 5.0	6.3 3.0	33,433 8,915	35,657 9,281	37,627 9,463	6.7 4.1	5 2
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Far West Alaska	1,095,386 14,713	1,163,164 15,222	1,236,770 15,823	6.2 3.5	6.3 3.9	939,159 12,567	988,785 12,926	1,040,616 13,349	5.3 2.9	5 3
California		846,839	900,900	3.5 6.0	6.4	682,968	717,988	755,232	2.9	3 5
California Hawaii		30,514	31,268	2.5	2.5	25,911	26,398	26,843	1.9	1
Nevada		44,510	47,795	7.5	7.4	35,342	37.654	40,107	6.5	6
Oregon		77,579	81,310	6.0	4.8	62,206	65,177	67,866	4.8	4
Washington		148,500	159,674	7.8	7.5	120,166	128,640	137,220	7.1	6

NOTE.—The personal income level shown for the United States is derived as the sum of the State estimates. It differs from the national income and product accounts (NIPA's) because of differences in coverage, in the methodologies used to prepare the estimates, and in the timing of the availability of source data. In particular, it differs from the NIPA estimate because, by defini-

tion, it omits the earnings of Federal civilian and military personnel stationed abroad and of U.S. residents employed abroad temporarily by private U.S. firms. Source: Tables 1 and 2 in "State Personal Income, First Quarter 1999" in the August 1999 issue of the SURVEY.

Table J.3.-Per Capita Personal Income and Per Capita Disposable Personal Income for States and Regions

		Per capita pers	sonal income 1		Per	capita disposable	personal incor	ne 1
Area name		Dollars		Rank in U.S.		Dollars		Rank in U.S.
	1996	1997	1998	1998	1996	1997	1998	1998
United States	24,164	25,288	26,482		20,810	21,598	22,424	
New England	28,872	30,427	32,007		24,269	25,309	26,346	
Connecticut	33,979	35,863	37,700	1	28,035	29,215	30,317	
Maine	20,948	21,937	23,002	36	18,394	19,061	19,811	3
Massachusetts	29,591	31,239	32,902	3	24,623	25,740	26,824	
New Hampshire	26,418	27,766	29,219	7	23,140	24,104	25,188	
Rhode Island	24,356 22,179	25,667 23,017	26,924 24,217	15 30	21,274 19,328	22,225 19,905	23,145 20,815	1 2
Mideast	27.978	29,252	30,652		23,765	24,609	25,512	
Delaware	27,125	28,493	29,932	6	23,100	24,076	25,077	
District of Columbia	34,213	35,704	37,325	-	28,950	29,914	30,776	
Maryland	27,298	28,674	30,023	5	23,151	24,031	24,983	
New Jersey	30,892	32,356	33,953	2	26,248	27,286	28,329	
New York	29,015	30,250	31,679	4	24,378	25,160	26.005	
Pennsylvania	24,533	25,670	26,889	16	21,255	22,022	22,883	1
Great Lakes	24,055	25,158	26,290		20,578	21,335	22,119	
Illinois	26,393	27,688	28,976	8	22,494	23,377	24,277	
Indiana	22,234	23,202	24,302	29	19,160	19,849	20,660	3
Michigan	23,996	24,956	25,979	18	20,507	21,126	21,832	2
Ohio " Wisconsin	23,054 22,987	24,163 24,048	25,239 25,184	21 22	19,821 19,521	20,618 20,235	21,329 21,029	3 2 2 2
Plains	23,039	24,034	25,126		19,861	20,536	21,339	
lowa	22,032	23,120	24,007	32	19,246	20,058	20,689	3
Kansas	22,707	23,972	25,049	24	19,617	20,561	21,322	2
Minnesota	25,235	26,243	27,667	11	21,035	21,647	22,719	1
Missouri	22,586	23,629	24,447	28	19,656	20,395	20.952	
Nebraska	22,847	23,618	24,786	26	19,965	20,415	21,318	2
North Dakota	20,197	20,103	21,708	38	18,077	17,768	19,162	3
South Dakota	20,450	21,076	22,201	37	18,513	18,952	19,866	2 2 3 3
Southeast	21,787	22,751	23,793		19,049	19,744	20,488	
Alabama	19,838	20,672	21,500	40	17,588	18,234	18,876	3
Arkansas	18,808	19,595	20,393	46	16,682	17,314	17,884	4
Florida	23,834	24,799	25,922	19	20,723	21,379	22,134	
Georgia	22,900	23,882	25,106	23	19,798	20,495	21,359	4
Kentucky	19,475	20,570	21,551	39	16,983	17,837	18,587	4
Louisiana	19,609	20,458	21,385	42	17,526	18,123	18,810	4
Mississippi	17,398	18,098	18,998	50	15,803	16,363	17,107	5
North Carolina	22,053	23,168	24,122	31	19,134	19,953	20,578	3
South Carolina	19,651	20,508	21,387	41	17,272	17,913	18,598 20,745	4
Tennessee	21,800 24,950	22,699 26,109	23,615 27,489	33 13	19,406 21,344	20,066 22,130	20,745 23,105	2
Virginia West Virginia	18,116	18,724	19,373	49	16,193	16,649	17,131	1
Southwest	21,577	22,787	23,985		19,086	20,049	20,967	
Arizona	21,071	21,998	23,152	35	18,284	18,914	19,777	3
New Mexico	18,634	19,298	20,008	48	16,540	17,000	17,574	4
Oklahoma	19,342	20,305	21,056	45	17,008	17,755	18,292	4
Texas	22,345	23,707	25,028	25	19,861	20,980	21,999	1
Rocky Mountain	22,304	23,414	24,668		19,163	19,946	20,854	
Colorado	25,627	27,015	28,821	9	21,829	22,787	24,128	
ldaho	19,741	20,392	21,080	44	17,214	17,658	18,129	4
Montana	18,872	19,660	20,247	47	16,591	17,143	17,530	4
Utah Wyoming	19,214 21,524	20,185 22,596	21,096 23,225	43 34	16,533 18,570	17,267 19,333	17,920 19,678	4
Far West	24.969	26.127	27,367		21,408	22,210	23.027	
Alaska	24,310	24,969	25,771	20	20,765	21,203	21,741	2
California	25,142	26,314	27,579	12	21,503	22,310	23,119	1 1
Hawaii	25,086	25,598	26,210	17	21,824	22,145	22,500	i
Nevada	25,877	26,514	27,360	14	22,084	22,431	22,959	1
Oregon	22,894	23,920	24,775	27	19,467	20,096	20,678	3
Washington	24,958	26,451	28,066	10	21,774	22,914	24,119	1
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of the availability of source data. In particular, it differs from the NIPA estimate because, by defini-tion, it omits the earnings of Federal civilian and military personnel stationed abroad and of U.S. residents employed abroad temporarily by private U.S. firms. Source: Tables 1 and 2 in "State Personal Income, First Quarter 1999" in the August 1999 issue of the SURVEY.

Per capita personal income and per capita disposable personal income were computed using midyear population estimates from the Bureau of the Census.
 NOTE.—The personal income level shown for the United States is derived as the sum of the State estimates. It differs from the national income and product accounts (NIPA's) because of differences in coverage, in the methodologies used to prepare the estimates, and in the timing

Table J.4.—Gross State Product for States and Regions by Industry, 1997

[Millions of dollars]

				-	-							
State and region	Rank of total gross state product	Total gross state product	Agri- culture, forestry, and fishing	Mining	Construc- tion	Manufac- turing	Transpor- tation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Govern- ment
United States		8,103,234	131,745	120,515	328,806	1,378,869	676,313	562,755	712,890	1,570,308	1,656,849	964,184
New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	21 42 11 39 44 50	466,857 134,565 30,156 221,009 38,106 27,806 15,214	3,445 899 460 1,284 263 210 329	310 36 19 156 45 15 39	15,771 4,351 1,356 7,161 1,282 959 663	76,656 22,510 5,153 32,394 9,521 4,347 2,731	29,998 8,011 2,250 13,924 2,671 1,911 1,231	32,219 9,373 1,848 16,133 2,410 1,537 918	38,059 9,862 3,459 17,510 3,348 2,385 1,494	116,542 38,988 5,779 53,708 8,377 6,941 2,749	109,730 29,184 5,800 58,449 7,004 6,092 3,202	44,128 11,350 4,033 20,291 3,186 3,410 1,858
Mideast Delaware District of Columbia Maryland New Jersey New York Pennsylvania	41 	1,523,401 31,585 52,372 153,797 294,055 651,652 339,940	8,905 273 16 1,304 1,502 2,689 3,121	2,737 5 13 116 186 480 1,935	51,564 1,038 481 7,835 10,414 18,505 13,291	204,283 6,108 1,308 13,230 41,062 74,446 68,129	122,778 1,545 2,710 11,457 28,256 49,335 29,476	99,738 1,192 588 9,716 27,283 40,277 20,683	112,108 1,842 1,314 13,254 21,293 44,440 29,965	392,621 12,348 9,531 34,137 68,841 203,219 64,544	344,626 4,482 16,969 36,268 64,380 148,253 74,274	184,041 2,753 19,441 26,479 30,838 70,007 34,523
Great Lakes	4 15 9 7 19	1,295,671 393,532 161,701 272,607 320,506 147,325	17,478 5,110 2,883 2,698 3,947 2,840	4,860 1,268 846 1,246 1,210 290	54,174 16,385 7,845 11,052 12,515 6,378	316,788 71,671 50,155 70,234 83,850 40,878	100,547 35,807 12,369 18,230 23,955 10,186	94,731 30,972 10,036 20,831 23,338 9,553	115,023 31,881 14,807 25,735 29,669 12,930	217,559 79,466 21,351 41,850 50,967 23,924	242,173 82,375 25,676 51,635 57,798 24,690	132,337 38,597 15,732 29,095 33,256 15,657
Plains lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	29 31 18 17 36 49 46	538,494 80,479 71,737 149,394 152,100 48,812 15,786 20,186	21,360 5,612 2,933 3,631 2,855 3,506 1,072 1,751	3,164 193 1,021 679 453 125 451 241	23,831 3,287 3,040 6,693 7,146 2,088 784 793	102,629 19,617 12,784 28,271 31,195 6,681 1,389 2,692	49,367 6,177 7,608 11,485 15,521 5,394 1,629 1,554	42,281 5,701 5,822 12,568 11,564 3,839 1,463 1,324	48,237 6,579 7,039 13,004 14,033 4,148 1,523 1,911	85,150 11,889 9,432 27,515 22,615 7,429 2,128 4,141	99,193 12,327 12,298 29,839 29,825 8,663 2,908 3,332	63,280 9,096 9,759 15,710 16,892 6,939 2,438 2,447
Southeast Alabama Arkansas Florida Georgia Kentucky Louisiana Mississispi North Carolina South Carolina Tennessee Virginia West Virginia		1,763,114 103,109 58,479 380,607 229,473 100,076 124,350 58,314 218,888 93,259 146,999 211,331 38,228	31,716 2,145 2,775 6,691 4,066 2,723 1,292 1,659 5,118 1,280 1,745 1,961 2,61	32,479 1,600 606 1,027 2,659 19,797 540 298 215 480 1,102 3,154	76,652 4,304 2,333 17,876 8,910 4,101 5,395 2,355 9,643 4,500 6,012 9,439 1,785	315,895 22,115 14,006 29,108 40,035 27,360 19,566 13,198 57,971 23,289 31,281 31,282 6,684	157,072 9,172 6,129 33,388 25,274 8,087 11,037 5,865 16,578 7,057 11,759 18,056 4,672	121,470 6,687 3,689 28,533 20,947 6,014 7,078 3,383 14,328 5,619 11,299 11,839 2,053	171,379 10,535 6,170 42,487 9,033 10,232 5,985 19,427 9,925 16,267 17,278 3,423	286,834 13,657 6,929 83,763 37,774 11,646 16,068 6,898 33,045 12,894 21,233 38,537 4,391	333,401 17,155 8,862 91,196 42,441 15,217 9,725 34,351 14,626 29,856 43,411 6,434	236,216 15,738 6,980 46,538 28,439 13,239 13,758 8,705 28,130 13,824 17,067 38,426 5,371
Southwest Arizona New Mexico Oklahoma Texas	24 37 30 3	844,766 121,239 45,242 76,642 601,643	13,481 1,934 897 2,085 8,565	52,354 1,300 3,271 4,087 43,695	37,222 6,937 2,046 2,377 25,861	133,678 17,815 7,887 13,015 94,961	84,895 9,047 3,280 7,523 65,044	60,142 8,095 1,981 4,697 45,369	76,363 12,574 4,137 7,664 51,987	126,830 23,531 6,207 9,587 87,505	157,507 24,974 7,791 13,514 111,227	102,294 15,031 7,745 12,090 67,428
Rocky Mountain Colorado Idaho Montana Utah Utah Wyoming	22 43 47 35 48	247,372 126,084 29,149 19,160 55,417 17,561	5,924 2,147 1,730 1,019 612 416	11,026 2,708 273 880 1,654 5,512	13,354 6,910 1,669 965 3,132 679	31,372 14,480 5,809 1,486 8,601 996	25,517 13,762 2,492 2,241 4,709 2,312	15,282 8,223 1,838 1,241 3,383 595	24,137 12,229 2,961 1,956 5,791 1,201	39,172 21,885 3,644 2,593 9,119 1,930	48,933 27,850 4,860 3,773 10,735 1,715	32,656 15,891 3,873 3,005 7,682 2,205
Far West Alaska California Hawaii Nevada Oregon Washington	45 1 40 34 27 14	1,423,561 24,494 1,033,016 38,024 57,407 98,367 172,253	29,436 314 21,633 463 427 2,473 4,127	13,585 5,169 6,381 26 1,568 124 317	56,236 1,007 34,883 1,640 4,978 5,173 8,555	197,569 1,134 146,173 1,213 2,608 24,666 21,776	106,140 3,822 72,301 3,904 4,333 6,943 14,837	96,892 713 71,177 1,493 2,809 7,727 12,974	127,584 1,673 91,300 4,332 5,553 8,175 16,550	305,601 2,795 237,282 8,503 10,773 14,903 31,344	321,285 3,029 236,925 8,413 18,670 17,030 37,219	169,233 4,838 114,962 8,036 5,688 11,154 24,554

NOTE.—Totals shown for the United States differ from the national income and product account estimates of gross domestic product (GDP) because GSP is derived from gross domestic income, which differs from GDP by the statis-tical discrepancy. In addition, GSP excludes and GDP includes the compensation of Federal civilian and military personnel stationed abroad and government consumption of fixed capital for military structures located abroad and for military equipment except domestically located office equipment. GSP and GDP also have different revision

schedules. Source: Tables 6 and 7 in "Gross State Product by Industry, 1995–97" in the June 1999 issue of the SURVEY OF CURRENT BUSINESS.

K. Local Area Table_____

Table K.1.—Personal Income and Per Capita Personal Income by Metropolitan Area, 1995–97

		Persona	l income		Per c	apita pe	rsonal in	come 1	, ,		Personal	income		Per c	apita per	rsonal in	come 1
Area name	MI	llions of dol		Percent		Dollars		Rank in	Area nome	Mail	ions of dolla		Percent		Dollars		Rank in
Alea lidile			1	change				U.S.	Area name				change				U.S.
Inited States 2	1995 6.059.091	1996 6,408,103	1997	1996-97	1995	1996 24,164	1997 25,288	1997	Calavada Caringa CO	1995	1996	1997	1996-97	1995	1996	1997	1997
United States ² Metropolitan portion Nonmetropolitan portion	5,137,433	5,430,631 977,472	5,747,454	5.7 5.8 4.7	23,059 24,470	24,164 25,623 18,359	26,840		Colorado Springs, CO Columbia, MO	9,748 2,618	10,514 2,779	11,270 2,915	7.2 4.9	20,978 21,232	22,263 22,106	23,493 22,797	131 152
Consolidated Metropolitan	521,050	511,412	1,023,130	4.7	17,443	10,555	19,009		Columbia, NO Columbia, SC Columbus, GA-AL	10,429 5,021	11,121 5,331	11,820 5,700	4.9 6.3 6.9	21,252 21,259 18,468	22,100 22,344 19,624	23,435 20,929	132 134 232
Statistical Areas									Columbus OH	33,904 6,830	35,336 7,235	37,471 7,639	6.0 5.6	23,706 18,045	24,502 18,933	20,929 25,728 19,781	75 269
Chicago-Gary-Kenosha, IL-IN-WI Cincinnati-Hamilton, OH-KY-IN	235,526 44,660	47,149	262,357 50,006	5.7 6.1	27,296 23,427	28,555 24,574	25,855		Corpus Christi, TX Cumberland, MD-WV Dallas, TX*	1,715 80,161	1,788 86,962	1,874 95,191	4.8 9.5	17,027 27,081	17,859 28,637	18,919 30,481	203 291 22
Cleveland-Akron, OH Dallas-Fort Worth, TX Denver-Boulder-Greelev. CO	71,327 113,904 60,179	74,337 123,121 64,674	77,920 134,293 69,800	4.8 9.1 7.9	24,499 25,612 27,024	25,495 27,023 28,483	26,733 28,709 30,099		Danville, VA Davenport-Moline-Rock Island, IA-IL	1,928 7,632	1,987 8,056	2,082 8,541	4.8 6.0	17,609 21,359	18,193 22,561	19,126 23,906	288 123
Detroit-Ann Arbor-Flint, MI Houston-Galveston-Brazoria, TX	139,276 105,523		149,232 121,775	4.3 8.4	25,889 25,408	26,374 26,566	27,419		Dayton-Springfield, OH	21,960	22,576	23,685	4.9	22,918	23,607	24,877	96
Los Angeles-Riverside-Orange Coun- ty, CA	355,870	373,755	393,604	5.3	23,321	24,318	25,313		Daytona Beach, FL Decatur, AL	8,300 2,764	8,864 2,874	9,341 3,003	5.4 4.5	18,492 19,814	19,489 20,458	20,187 21,202	256 216
Miami-Fort Lauderdale, FL Milwaukee-Racine, WI	78,661 41,484	83,186	86,917 45,898	4.5	22,619 25,230	23,459	24,131 27,899		Decatur, IL Denver, CO*	2,512 50,303	2,665 54,103	2,753 58,471	3.3 8.1	21,629 27,553	23,126 29,055	24,107 30,743	117 20
New York-No. New Jersey-Long Is-									Des Moines, IA Detroit, MI*	10,522 115,080	11,167 118,194	11,830 123,417	5.9 4.4	24,883 26,009	26,102 26,506	27,403 27,619	45 44
land, NY-NJ-CT-PA Philadelphia-Wilmington-Atlantic City,	619,350		688,267	5.1	31,352				Dothan, AL Dover, DE	2,492 2,308	2,559 2,507	2,668 2,550	4.3 1.7	18,589 19,094	19,073 20,611	19,869 20,776	267 239
PA-NJ-DE-MD Portland-Salem, OR-WA	158,253 47,988	166,947 52,031	175,008 55,815		26,493 23,697	27,936 25,100	29,292 26,396		Dubuque, IA Duluth-Superior, MN-WI	1,832 4,708	1,931 4,950	2,016 5,167	4.4 4.4	20,746 19,794	21,849 20,839	22,874 21,723	149 191
Sacramento-Yolo, CA San Francisco-Oakland-San Jose, CA	37,445 200,245		41,621 232,660	5.9 7.9 9.2	23,326 30,562	24,099 32,571	34,634		Dutchess County, NY* Eau Claire, WI	6,404	6,776	7,144	5.4	24,522	25,805	27,085	54
Seattle-Tacoma-Bremerton, WA Washington-Baltimore, DC-MD-VA- WV	86,045 202,626		100,810 225,524	9.2 5.8	26,363 28,601	27,855 29,838			El Paso, TX	2,720 9,431	2,878 9,895	3,035 10,504	5.5 6.2	19,132 14,037	20,155 14,600	21,154 15,216	219 312
Metropolitan Statistical Areas ³	202,020	213,221	223,324	5.0	20,001	29,030	51,205		Elkhart-Goshen, IN Elmira, NY	3,781 1,825	3,873 1,906	3,998 1,968	3.2 3.3	22,718 19,423	22,969 20,459	23,423 21,312	135 210
Abilene, TX	2,300		2,566	5.9	18,800		21,202		Enid, OK Erie, PA	1,091 5,670	1,143 5,925 6,544	1,222 6,140 6,920	6.9 3.6	19,088 20,326 20,201	20,092 21,285 21,358	21,474 22,120 22,231	205 179 173
Akron, OH* Albany, GA	15,555 2,163 20,787	16,229 2,296 21,444	17,079 2,381 22,217	3.7	22,856 18,586 23,606	19,617	24,849 20,207 25,425	255	Eugene-Springfield, OR Evansville-Henderson, IN-KY Fargo-Moorhead, ND-MN	6,117 6,290 3,315	6,643 3,608	6,920 6,942 3,746	5.7 4.5 3.8	20,201 21,906 20,264	21,358 23,051 21,876	24,010	121 166
Albany-Schenectady-Troy, NY Albuquerque, NM Alexandria, LA	20,787 14,064 2,389	14,759	15,466	3.6 4.8 3.1	23,606 21,324 18,861	24,429 22,089 19,447	22,937	146	Fayetteville, NC	5,209	5,461	5,740	5.0	18,314	19,240	20,219	253
Allentown-Bethlehem-Easton, PA Altoona, PA	14,328 2,453		15,835	5.3 3.8	23,438 18,597	24,551	25,762 20,482	73	Fayetteville-Springdale-Rogers, AR Flagstaff, AZ-UT	5,053 1,939	5,413 2,076	5,799 2,178	7.1 4.9	19,923 16,663	20,704	21,655 18,184	198 298
Amarillo, TX Anchorage, AK	4,171 6,989	4,343	4,576 7,475	5.4	20,457	21,112 28,690	22,051	180	Flint, MI*	9,827 2,544	9,891 2,636	9,875 2,715	2 3.0	22,647 18,729	22,720 19,295	22,685	158 268
Ann Arbor, MI*	14.369	14.989	15,941	6.4	27,573	28,266	29,579	29	Florence, SC Fort Collins-Loveland, CO	2,280 4,810	2,426 5,259	2,566 5,613	5.8 6.7	18,617 22,174	19,697 23,750	20,622 24,852	242 98
Anniston, AL Appleton-Oshkosh-Neenah, WI	2,024 7,601	2,110 8,047	2,210 8,530	4.7 6.0	17,350 22,655	18,098 23,718	24,957	91	Fort Lauderdale, FL* Fort Myers-Cape Coral, FL	36,123 8,749	38,534 9,303	40,743 9,863	5.7 6.0	25,561 23,372	26,752 24,510	27,661 25,568	43 78
Asheville, NC Athens, GA	4,363 2,588	4,604 2,788	4,898 2,936	6.4 5.3 7.7	21,083 19,232	21,971 20,428	23,158 21,256 28,253	140 214	Fort Pierce-Port St. Lucie, FL	6,681	7,211	7,607	5.5	23,804	25,209	26,135	68
Atlanta, GA Atlantic-Cape May, NJ* Augusta-Aiken, GA-SC	87,823 8,999 8,763	95,356 9,431	102,678 9,722 9,476	7.7 3.1 4.3	25,603 27,188 19,398	26,993 28,339 20,106	29,083	36 33 236	Fort Smith, AR-OK Fort Walton Beach, FL	3,403 3,176	3,563 3,511	3,772 3,736	5.9 6.4	18,061 19,453	18,648 21,200	19,570 22,274	280 171
Augusta-Aiken, GA-SC Austin-San Marcos, TX Bakersfield, CA	22,572	9,086 24,580 11,004	27,194 11,449	10.6	22,524 17,201	23,665 17,801	25,420	84	Fort Wayne, IN Fort Worth-Arlington, TX*	10,859 33,743	11,288 36,159	11,886 39,102	5.3 8.1	23,072 22,689	23,805 23,798	24,891 25,150	94 88
Baltimore, MD*	61,948		68,758	5.5	25,157	26,399			Fresno, CA	15,106 1,814	15,850 1,884	16,367 1,984	3.3 5.3	17,959 17,465	18,573 18,341	18,958 19,126	290 288
Bangor, ME (NECMA) Barnstable-Yarmouth, MA (NECMA)	2,683 5,415	2,794	2,927 6,190	4.8 6.4	18,582 27,199	19,418 28,758	20,425	248	Gainesville, FL Galveston-Texas City, TX*	3,876 5,014	4,095 5,269	4,313 5,514	5.3 4.6	19,871 21,164	20,844 21,986	21,822 22,737	189 155
Baton Rouge, LA Beaumont-Port Arthur, TX	11,776 7,276	12,331 7,505	12,786 8,034	3.7 7.0	20,956 19,413	21,786 20,062	22,408 21,453	168 207	Gary, IN* Glens Falls, NY	13,236 2,317	13,943 2,410	14,689 2,484	5.4 3.1	21,363 18,961	22,460 19,754	23,593 20,386	128 250
Bellingham, WA Benton Harbor, MI Bergen-Passaic, NJ*	2,920 3,366	3,451	3,309 3,647	5.0 5.7	19,589 20,839	20,694 21,415	22.689	157	Goldsboro, NC Grand Forks, ND-MN	1,866 1,854	1,971 1,985	2,085 1,991	5.8 .3	16,877 17,854	17,640 19,206	18,611 19,657	295 275
Billings, MT	44,162 2,634	2,729	49,111 2,851	6.3 4.5	21,162	34,795	22,647	159	Grand Junction, CO Grand Rapids-Muskegon-Holland, MI	1,998 22,907	2,125 24,185	2,276 25,653	7.1 6.1	18,853 22,857	19,200 19,644 23,812	20,593 24,960	243 90
Biloxi-Gulfport-Pascagoula, MS	6,006 5.208		6,614 5.542	5.6 3.5	20,251	18,350		286 177	Great Falls, MT	1,602 2,715	1,659	1,710 3,117	3.1 6.4	19,824 18,355	20,538 19,369	21,630 20,038	199 260
Binghamton, NY Birmingham, AL Bismarck, ND	20,268	21,363	22,445	5.1	22,640	21,147 23,858 21,151	24,898	93	Green Bay, WI Greensboro-Winston-Salem-High	4,917	5,208	5,476	5.1	23,400	24,512	25,559	79
Bloomington, IN Bloomington-Normal, IL	2,135 3,181	2,269	2,369 3,545	4.4	18,544 22,944 23,349	19,587	20,316	251 87	Point, NC Greenville, NC	26,142 2,312	27,734 2,449	29,344 2,620	5.8 7.0	23,277 19,268	20,103	21,117	82 220
Boise City, ID Boston-Worcester-Lawrence-Lowell-	8,423		9,430	5.9					Greenville-Spartanburg-Anderson, SC	17,912		19,921	5.6	20,304	21,081	21,972	185
Brockton, MA-NH (NECMA) Boulder-Longmont, CO*	164,632 7,160	7,641	185,340 8,212	7.5	28,612 28,269	30,124 29,702	31,808 31,393	15 17	Hagerstown, MD* Hamilton-Middletown, OH*	2,396 6,809	2,537 7,176	2,661 7,624	4.9 6.2	18,890 21,305	22,181	20,800 23,309	238 137
Brazoria, TX* Bremerton, WA*	4,200 4,517	4,510 4,756	4,787 5,053	6.1 6.2	19,492 20,006	20,508 20,597	21,285 21,580	211 201	Harrisburg-Lebanon-Carlisle, PA Hartford, CT (NECMA)	14,369 32,012	15,247 33,500	15,923 35,453	4.4 5.8	23,525 28,899	30,268	25,899 32,035	14
Brownsville-Harlingen-San Benito, TX	3,641	3,850	4,095		11,967	12,357 16,697			Hattiesburg, MS Hickory-Morganton-Lenoir, NC	1,749 6,230	1,852 6,547	1,960 6,898	5.8 5.4	16,523 20,094 26,434	17,164 20,839	17,889 21,664	302 195
Bryan-College Station, TX Buffalo-Niagara Falls, NY	2,065 26,422	27,200	2,384 28,031	8.9 3.1	15,749 22,382	16,697	17,963	301 118	Honolulu, HI Houma, LA	23,078 3,085	23,296 3,315	23,836 3,663	2.3 10.5	26,434	26,681 17,510	27,259 19,146	50 287
Burlington, VT (NECMA) Canton-Massillon, OH	4,298 8,433	8,727	4,758 9,086	4.5 4.1	22,911 20,968	24,023	24,876	97 161	Houston, TX* Huntington-Ashland, WV-KY-OH	96,308 5,462	102,587 5,644	111,475 5,876	8.7 4.1	26,024 17,272	27,211 17,870	19,146 28,977 18,652	34 294
Casper, WY Cedar Rapids, IA Champaign-Urbana, IL	1,562 4,294 3,361		1,710 4,830	5.8 6.4 4.2	24,487	25,390	26,600	56 58 186	Huntsville, AL Indianapolis, IN	7,118	7,407 37,939	7,824	5.6	21,706	22,413	23,459 26,662	133 57
Charleston-North Charleston, SC Charleston, WV	9,397 5,597	3,554 9,855 5,844	3,703 10,472 6,046	4.2 6.3 3.5	15,749 22,382 22,911 20,968 24,487 23,979 20,118 17,857 22,011	18,851	19,601 23,850	279 124	lowa City, IA Jackson, MI	36,252 2,251 3,030	2,385 3,119	40,111 2,510 3,271	5.7 5.2 4 9	21,706 24,602 22,258 19,754 20,544 20,016 22,601	23,523	24.628	105
Charlotte-Gastonia-Rock Hill, NC-SC	30,999		35,792		24.083	25,237	26,480	62	lackson MS	8,533 1,946	8,973 2,051	9,456 2,186	4.9 5.4 6.6 6.9 7.1 2.8	20,544	21,288	21,057 22,227 21,988	174 183
Charlottesville, VA Chattanooga, TN-GA	3,546 9,409	3,755	3,958 10,387		24,083 24,930 21,279	25,996 22.268	27,029	62 55 138	Jackson, TN Jackson, TN Jacksonville, FL Jacksonville, NC	22,147 2,153	23,821 2,261	25.465	6.9 7.1			24,751 16,900	101 308
Chevenne WY	1,662 217,348	1,726 229,112	1,793 242,155	5.7	21,224 27,978	25,237 25,996 22,268 21,925 29,260	22,815 30,717	150 21 274	Jamestown, NY Janesville-Beloit, WI	2,538 3,228	2,616 3,301	2,421 2,689 3,444	2.8 4.3	17,985 21,799	18,579 22,024	19,260 22,915	285 148
Chicago, IL* Chico-Paradise, CA Cincinnati, OH-KY-IN*	3,426 37,850	3,614 39,973	3,809 42,382	5.4 6.0	23,855		19,715 26,373 17,248		Jersey City, NJ* Johnson City-Kingsport-Bristol, TN-VA	12,824	13,369	13,831	3.5	23,282	24,233	24,943	92
Clarksville-Hopkinsville, TN-KY Cleveland-Lorain-Elyria, OH*	3,069 55,772	3,245	3,410 60,841	5.1	16,351	16,715 26,046	17,248 27,314	306 49	Johnson City-Kingsport-Bristol, TN-VA Johnstown, PA	8,412 4,321	8,851 4,500	9,152 4,645	3.4 3.2	18,559 17,987	19,378	19,896 19,528	266 281
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See footnotes at the end of the table.

Table K.1.—Personal Income and Per Capita Personal Income by Metropolitan Area, 1995–97—Continued

	Personal income Per capita personal						-				Personal			Per c	apita ne	rsonal ind	come 1
Area name	Mill	ions of dolla		Percent	1010	Dollars	301101 111	Rank in	Area name	Milli	ons of doll		Percent	1010	Dollars		Rank in
Alca hame	1995	1996	1997	change 1996–97	1995	1996	1997	U.S. 1997		1995	1996	1997	change 1996–97	1995	1996	1997	U.S. 1997
Jonesboro, AR	1,328 2,717 9,639 2,007 40,847 2,936 4,819 13,738 2,370	1,404 2,872 10,057 2,124 43,133 3,073 5,074 14,260 2,336	1,487 3,065 10,438 2,211 45,714 3,302 5,348 14,888 2,412	5.9 6.7 3.8 4.1 6.0 7.5 5.4 4.4 3.3	17,867 18,924 21,820 19,828 24,233 21,082 16,563 21,482 23,780	18,581 19,724 22,693	19,456 20,817 23,481 21,677 26,627 23,124 17,861	283 237 132 194 59 142 303 154 119	Raleigh-Durham-Chapel Hill, NC Rapid City, SD Reading, PA	24,621 1,720 8,339 3,095 8,064 3,681 23,575 54,153 5,476 2,752	26,671 1,770 8,761 3,202 8,747 3,780 24,857 56,769 5,730 2,945	29,107 1,852 9,220 3,341 9,262 3,876 26,312 59,748 5,977 3,119	9.1 4.6 5.2 4.3 5.9 2.5 5.9 5.2 4.3 5.9	24,798 19,760 23,813 19,283 27,761 20,650	26,101 20,383 24,893 19,843 29,284 21,120 26,553 18,949 25,085	27,711 21,270 26,051 20,539 30,214 21,417 27,797 19,604 26,182	42 212 69 244 24 209 40 278 66 51
La Crosse, WI-MN Lafayette, LA Lafayette, IN Lake Charles, LA Lakeland-Winter Haven, FL Lancaster, PA Lansing-East Lansing, MI Laredo, TX Las Cruces, NM Las Vegas, NV-AZ	2,509 6,424 3,291 3,359 8,133 10,107 9,541 1,993 2,254 26,458	2,643 6,911 3,393 3,547 8,643 10,726 9,835 2,158 2,370 29,423	2,770 7,453 3,582 3,747 9,207 11,207 10,208 2,357 2,482 31,876	4.8 7.8 5.6 5.6 6.5 4.5 3.8 9.2 4.7 8.3	20,812 17,627 19,386 19,109 18,699 22,600 21,026 11,696 14,194 23,245	21,812 18,783 19,841 19,906 19,649 23,816 21,907	22,815 20,031 20,880 20,901 20,625	150 261 235 234 241 102 156	Rochester, NY Rockford, IL Rocky Mount, NC Sacramento, CA* Saginaw-Bay City-Midland, MI St. Cloud, MN St. Joseph, MO St. Louis, MO-IL Salem, OR*	26,383 7,839 2,618 34,184 8,840 2,888 1,855 63,014 6,055	27,410 8,165 2,809 35,895 9,103 3,081 1,947 65,847 6,471	28,374 8,528 2,937 38,101 9,485 3,164 2,035 69,547 6,796	3.5 4.4 4.6 6.1 4.2 2.7 4.5 5.6 5.0	24,310 22,432 18,414 23,452 21,969 18,230 19,056 24,785 19,362	25,247 23,128 19,554 24,236 22,604 19,285 20,059 25,824 20,310	26,170 24,024 20,214 25,335 23,570 19,627 20,939 27,177 20,927	67 120 254 85 129 277 230 53 233
Lawrenče, KS Lawton, OK Lewiston-Auburn, ME (NECMA) Ling, OH Ling, OH Ling, OH Ling, NE Ling,	1,603 1,603 1,882 1,979 9,650 3,069 5,058 11,717 3,852 213,656	1,695 1,932 2,067 10,275 3,129 5,429 12,446 4,105 223,742	1,820 1,993 2,120 11,033 3,248 5,752 13,089 4,374 234,469	7.4 3.2 2.6 7.4 3.8 5.9 5.2 6.6 4.8	18,161 16,323 19,292 22,237 19,744 22,081 21,629 18,941 23,662	18,896 16,801 20,329 23,374 20,142 23,482 22,726 19,939 24,706	19,976 17,487 20,939 24,838 20,997 24,602 23,707 21,025	364 304 230 100 227 106 125 224 76	Salinas, CA Salt Lake City-Ogden, UT San Angelo, TX San Antonio, TX San Diego, CA San Francisco, CA* San Jose, CA* San Luis Obispo-Atascadero-Paso Robles, CA	8,357 24,016 1,930 29,796 60,432 60,217 50,602 4,575	8,631 25,953 2,027 31,526 63,908 64,159 55,607 4,897	9,227 27,849 2,146 33,716 67,998 68,671 61,345 5,223	6.9 7.3 5.9 6.9 6.4 7.0 10.3 6.7	19,802 19,053 20,474 22,882 36,668 32,289	24,890 21,121 19,898 21,276 23,903 38,813 34,880	25,747 22,264 20,968 22,379 24,965 41,128	74 172 228 169 89 1 4 162
Los Angeles-Long Beach, CA* Louisville, KY-IN Lubbock, TX Lynchburg, VA Macison, GA Madison, WI Mansfield, OH McAllen-Edinburg-Mission, TX Medford-Ashland, OR	22,950 4,571 4,087 6,183 10,339 3,328 5,265 3,325	24,043 4,853 4,261 6,583 10,958 3,456 5,660 3,553	25,353 5,082 4,465 6,884 11,550 3,619 6,058 3,744	5.4 4.7 4.8 4.6 5.4 4.7 7.0 5.4	23,317 19,757 20,037 20,039 25,254 18,993 11,044 20,109	24,307 20,980 20,729 21,114 26,379 19,719	25,493 22,032 21,543 21,770 27,361 20,673 12,005	80 181 202 190 47 240 316 187	Santa Barbara-Santa Maria-Lompoc, CA Santa Cruz-Watsonville, CA* Santa Fe, NM Santa Rosa, CA* Sarasota-Bradenton, FL Savannah, GA	9,685 6,117 3,351 10,632 15,134 5,884	10,197 6,535 3,495 11,447 16,109 6,280	10,760 7,010 3,680 12,439 17,020 6,544	5.5 7.3 5.3 8.7 5.7	25,401 26,059 24,765 25,636	26,675 27,733 25,507 27,295 30,460 22,363	27,839 29,406 26,319 29,188 31,792	39 30 64 32 16 143
Melbourne-Titusville-Palm Bay, FL Merped, CA Miami, FL* Middlesex-Somerset-Hunterdon, NJ* Milwaukee-Waukesha, WI* Minneapolis-St. Paul, MN-WI Missoula, MT Mobile, AL	9,265 25,271 2,987 42,538 34,966 37,232 74,448 1,734 9,498	9,765 26,569 3,269 44,653 37,105 39,023 79,350 1,831 10,064	10,342 28,043 3,394 46,174 39,514 41,131 84,193 1,910 10,604	5.9 5.5 3.8 3.4 6.5 5.4 6.1 4.3 5.4	20,609 23,746 15,546 20,605 32,461 25,492 27,315 19,850 18,415	21,531 24,725 17,113 21,207 34,027 26,695 28,739 20,735 19,327	22,505 25,905 17,485 21,688 35,734 28,176 30,123 21,496 20,119	26 204 257	Scranton-Wilkes-Barre-Hazleton, PA Seattle-Bellevue-Everett, WA* Sharon, PA Sheboygan, WI Sherman-Denison, TX Shreweport-Bossier City, LA Sioux City, IA-NE Sioux Falls, SD South Bend, IN	12,754 63,953 2,227 2,437 1,869 7,554 2,456 3,669 5,697	13,309 68,967 2,342 2,539 2,017 7,782 2,646 3,955 5,841	13,770 76,064 2,435 2,637 2,135 8,064 2,730 4,203 6,074	4.2 3.5 10.3 4.0 3.9 5.9 3.6 3.2 6.3 4.0	20,199 29,088 18,256 22,456 19,069 19,953 20,436 23,417 22,214	21,228 30,916 19,162 23,215 20,144 20,532 21,905 24,797 22,693	22,177 33,373 19,950 24,009 21,006 21,259 22,633 26,030 23,537	176 13 265 122 226 213 160 70 130
Modesto, CA Monmouth-Ocean, NJ* Monroe, LA Montgomery, AL Muncie, IN Myrtle Beach, SC Naples, FL Nassau-Suffolk, NY*	7,310 29,420 2,706 6,549 2,389 3,056 5,934 27,528 84,441	7,762 31,048 2,856 6,872 2,438 3,326 6,503 28,986 89,022	8,238 32,680 7,185 2,527 3,591 6,969 31,057 92,861	6.1 5.3 1.5 4.6 3.7 8.0 7.2 7.1 4.3	17,879 28,000 18,474 20,867 20,131 19,380 32,836 25,205 31,890	19,466 21,716 20,635 20,301 35,001 25,995	30,275 19,723 22,498 21,504 21,185 36,210 27,324	276 23 271 165 203 218 7 48 10	Spokane, WA Springfield, IL Springfield, MA (NECMA) State College, PA Steubenville-Weirton, OH-WV Stockton-Lodi, CA Sumter, SC Syracuse, NY	8,219 4,536 6,019 13,307 2,499 2,492 9,764 1,624 15,978	8,604 4,814 6,328 13,812 2,651 2,561 10,252 1,719 16,411	9,037 5,031 6,686 14,496 2,793 2,564 10,854 1,800 16,949	5.0 4.5 5.7 5.0 5.4 .1 5.9 4.7 3.3	20,478 22,339 20,481 22,461 19,185 17,887 18,646 15,225 21,363	21,300 23,616 21,314 23,397 20,070 18,539 19,286 16,070 22,069	22,293 24,679 22,206 24,576 21,028 18,794 20,092 16,883	170 103 175 107 223 293 259 309 145
New Haven-Bridgeport-Stamford-Dan- bury-Waterbury, CT* New London-Norwich, CT (NECMA) New Orleans, LA New York, NY*	58,754 6,552 27,906 268,292 61,710 7,682	62,869 6,840 28,837 284,422	66,562 7,084 30,281 298,085 68,094 8,314	5.9 3.6 5.0 4.8 5.0 3.6	36,233 26,270 21,293 31,189 31,906	38,727 27,441 22,038 32,991	40,928 28,466 23,148 34,459 35,038	2 35 141 11 9	Syrause, MA Tacoma, WA* Tallahassee, FL Tampa-SL Petersburg-Clearwater, FL Terre Haute, IN Texarkana, TX-Texarkana, AR Toledo, OH Topeka, KS Trenton, NJ*	13,978 13,372 5,111 48,799 2,771 2,212 13,881 3,728 10,696	10,411 14,130 5,419 51,926 2,829 2,336 14,291 3,896 11,169	14,973 5,730 55,356 2,895 2,469 14,850 4,027	5.3 6.0 5.7 6.6 2.3 5.7 3.9 3.4 8.1	20,658 19,902 22,440 18,513 18,035 22,727 22,637	21,551 21,002 23,654 18,914 18,918 23,422 23,652	22,511 22,032 24,879 19,458	163 181 95 282 263 113
Norfolk-Virginia Beach-Newport News, VA-NC	31,034 62,115 4,052 5,063 20,341 4,204 15,878	32,448 66,771 4,358 5,366 21,381 4,453 17,086	33,958 71,260 4,652 5,887 22,335 4,719 18,267	4.7 6.7 9.7 4.5 6.0 6.9	17,986 21,414 20,086 21,874 23,711	20,927 22,665 25,127	19,723 24,386 21,659 23,607 26,570	271 111 197 127 60	Tucson, AZ Tucson, AZ Tuscaloosa, AL Tyler, TX Utica-Rome, NY Vallejo-Fairfield-Napa, CA* Ventura, CA* Victoria, TX	16,030 14,616 16,334 2,992 3,425 5,966 10,562 17,463 1,675	17,309 3,127 3,685 6,061 11,174 18,145 1,793	18,511 3,299 3,943 6,239 11,935 19,173 1,888	5.0 6.9 5.5 7.0 2.9 6.8 5.7	19,375 21,921 18,884 21,209 19,394 22,023 24,804	20,375 22,956 19,692 22,432	21,068 24,206 20,514 23,696 20,944 24,406 26,563	221 114 245 126 229
Orange County, CA* Orlando, FL Ovensboto, KY Panama City, FL Parkersburg-Marietta, WV-OH Pensacola, FL Peoria-Pekin, IL Philadelphia, PA-NJ* Phoenix-Mesa, AZ Pine Buitf, AR	70,598 29,398 1,725 2,541 2,963 6,810 7,659 131,272 58,249 1,381	75,099 31,780 1,802 2,830 3,081 7,380 8,071 138,525 63,395 1,435	80,214 34,194 1,910 2,985 3,203 7,802 8,495 144,970 68,597 1,488	6.0 5.5 4.0 5.7 5.3	27,447 21,171 19,058 17,914 19,558 18,060 22,219 26,505 21,887 16,538	19,866 19,569 20,370 19,189 23,398 27,994	20,392 21,252 19,759 24,650 29,347 24,137	136 225 249 215 270 104 31 116	Vineland-Millville-Bridgeton, NJ* Visalia-Tulare-Porterville, CA Waco, TX Washington, DC-MD-VA-WV* Waterloo-Cedar Falls, IA Wausau, WI West Palm Beach-Boca Raton, FL Wheeling, WV-OH	2,859 5,508 3,750 138,283 2,484 2,479 34,157 2,868	2,918 5,802 3,915 145,507 2,583 2,644 37,065 2,988	3,054 5,998 4,139 154,105 2,730 2,806 39,269 3,040	5.3 4.7 3.4 5.7 5.9 5.7 6.1 5.9 1.7	20,227 15,985	20,662 16,740 19,467 31,981 21,127 21,775	21,663 17,116 20,446 33,433 22,456 22,037	196 307 247 12 167 146 3 273
Pittsburgh, PA Pittsfield, MA (NECMA) Pocatello, ID Portland, ME (NECMA) Portland-Vancouver, OR-WA* Providence-Warwick-Pawtucket, RI	56,561 3,289 1,247 6,196 41,933	59,485 3,464 1,318 6,591 45,559	61,928 3,643 1,376 7,049 49,019	4.1 5.2 4.4 6.9	23,703 24,386 17.063	25,054 25,781	26,243 27,200 18,596	65 52 296	Wichita, KS Wichita Falls, TX Williamsport, PA Wilmington-Newark, DE-MD* Wilmington, NC Yakima, WA	11,502 2,676 2,208 15,123 4,040 3,846	12,177 2,791 2,299 16,073 4,388 4,101	13,028 2,944 2,377 17,262 4,710 4,179	7.0 5.5 3.4 7.4 7.3 1.9	22,137 19,804 18,441 27,582 20,175 18,150	19,343 29,033 21,228	20,111 30,851 22,122	109 206 258 19 178 284
(NECMA) Provo-Orem, UT Pueblo, CO Punta Gorda, FL Racine, WI*	21,200 4,750 2,396 2,567 4,252	21,913 5,138 2,519 2,764 4,489	23,054 5,456 2,689 2,895 4,767	5.2 6.2 6.7 4.7 6.2	23,380 14,821 18,529 19,941 23,151	19,252 21,229 24,349	16,567 20,274 21,861 25,711	80 310 252 188 77	Yolo, CA* Yolo, CA* York, PA Youngstown-Warren, OH Yuba City, CA Yuma, AZ	3,262 8,172 12,122 2,330 2,057	3,396 8,581 12,390 2,417 1,938	3,519 8,953 12,855 2,485 2,019	3.6 4.3 3.8 2.8 4.2	22,086 22,408 20,215 17,217	22,735 23,305 20,736 17,748	23,188 24,138 21,621	139 115 200 299

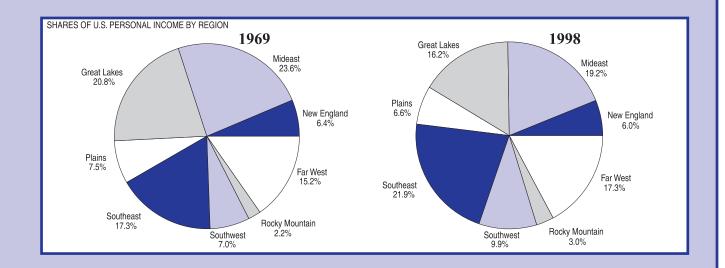
Per capita personal income was computed using Census Bureau midyear population estimates. Estimates for 1995–97 reflect county population estimates available as of March 1999.
 The personal income level shown for the United States is derived as the sum of the county estimates. It differs from the national income and product accounts (NIPA's) because of differences in coverage, in the methodolo gies used to prepare the estimates, and in the timing of the availability of source data. In particular, it differs from the NIPA estimate because, by definition, it omits the earnings of Federal civilan and military personnel stationed

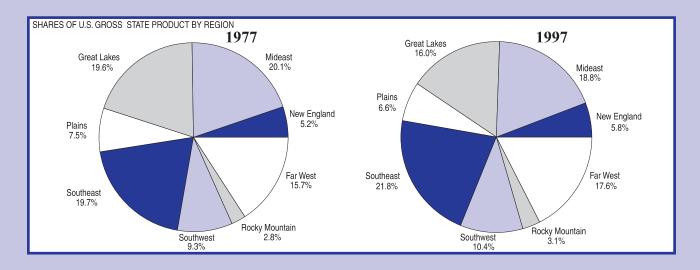
abroad and of U.S. residents employed abroad temporarily by private U.S. firms. 3. Includes Metropolitan Statistical Areas, Primary Metropolitan Statistical Areas (PMSA's designated by *), and New England County Metropolitan Areas (NECMA's). The New Haven-Bridgeport-Stamford-Danbury-Waterbury, CT NECMA is presented as a PMSA (part of the New York CMSA). Source: Table 1 in "Local Area Personal Income, 1982–97" in the May 1999 issue of the SURVEY OF CURRENT PURPLICE

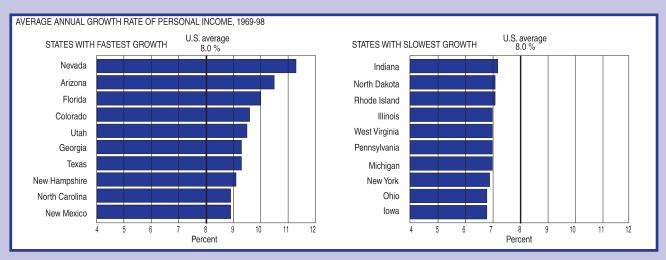
BUSINESS.

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SELECTED REGIONAL ESTIMATES

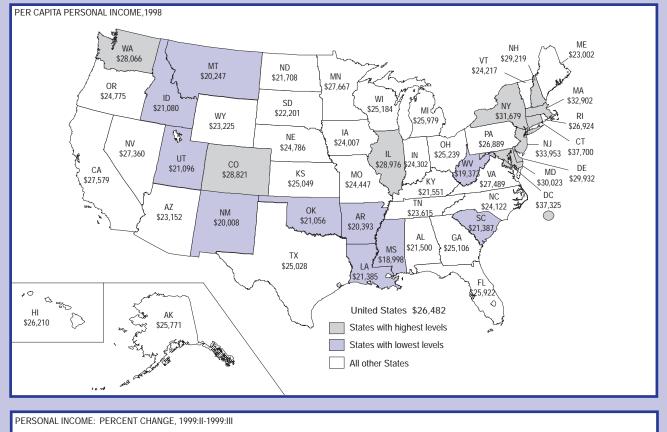


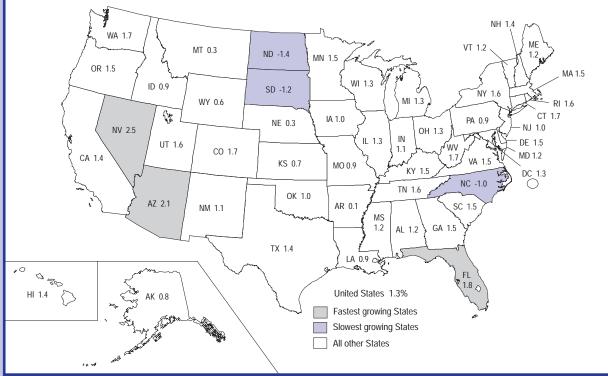




U.S. Department of Commerce, Bureau of Economic Analysis

SELECTED REGIONAL ESTIMATES





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

Appendix A Additional Information About the NIPA Estimates

Statistical Conventions

Changes in current-dollar GDP measure changes in the market value of goods and services produced in the economy in a particular period. For many purposes, it is necessary to decompose these changes into quantity and price components. To compute the quantity indexes, changes in the quantities of individual goods and services are weighted by their prices. (Quantity changes for GDP are often referred to as changes in "real GDP.") For the price indexes, changes in the prices for individual goods and services are weighted by quantities produced. (In practice, the current-dollar value and price indexes for most GDP components are determined largely using data from Federal Government surveys, and the real values of these components are calculated by deflation at the most detailed level for which all the required data are available.)

The annual changes in quantities and prices are calculated using a Fisher formula that incorporates weights from 2 adjacent years. For example, the 1997-98 annual percent change in real GDP uses prices for 1997 and 1998 as weights, and the 1997-98 annual percent change in the GDP price index uses quantities for 1997 and 1998 as weights. Because the Fisher formula allows for the effects of changes in relative prices and in the composition of output over time, the resulting quantity or price changes are not affected by the substitution bias that is associated with changes in quantities and prices calculated using a fixed-weighted formula.¹ These annual changes are "chained" (multiplied) together to form time series of quantity and price; the percent changes that are calculated from these time series are not affected by the choice of reference period.

The quarterly changes in quantities and prices are calculated with weights from two adjacent quarters. As part of an annual or comprehensive revision, the quarterly indexes through the most recent complete year are adjusted to ensure that the average of the quarterly indexes conforms to the corresponding annual index.

In addition, BEA prepares measures of real GDP and its components in a dollar-denominated form, designated *"chained (1996) dollar estimates."* These estimates are computed by multiplying the 1996 currentdollar value of GDP, or of a GDP component, by the corresponding quantity index number. For example, if a current-dollar GDP component equaled \$100 in 1996 and if real output for this component increased by 10 percent in 1997, then the "chained (1996) dollar" value of this component in 1997 would be \$110 (\$100 \times 1.10). Note that percentage changes in the chained (1996) dollar estimates and the percentage changes calculated from the quantity indexes are identical, except for small differences due to rounding.

Because of the formula used for calculating real GDP, the chained (1996) dollar estimates for detailed GDP components *do not add* to the chained-dollar value of GDP or to any intermediate aggregates. A "*residual*" line is shown as the difference between GDP and the sum of the most detailed components shown in each table. The residual generally is small close to the base period but tends to become larger as one moves further from it. Accurate measures of component contributions to the percentage changes in real GDP and its major components are shown in NIPA tables 8.2–8.6.

BEA also publishes the "implicit price deflator" (IPD), which is calculated as the ratio of currentdollar value to the corresponding chained-dollar value, multiplied by 100; the values of the IPD and of the corresponding "chain-type" price index are very close.

For quarters and months, the estimates are presented at annual rates, which show the value that would be registered if the rate of activity measured for a quarter or a month were maintained for a full year. Annual rates are used so that time periods of different lengths—for example, quarters and years—may be compared easily. These annual rates are determined simply by multiplying the estimated rate of activity by 4 (for quarterly data) or 12 (for monthly data).

Percent changes in the estimates are also expressed at annual rates. Calculating these *changes* requires a variant of the compound interest formula:

$$r = \left[\left(\frac{X_t}{X_o} \right)^m - 1 \right] \times 100,$$

where r is the percent change at an annual rate;

- X_t is the level of activity in the later period;
- x_{\circ} is the level of activity in the earlier period;
- m is the yearly periodicity of the data (for example, 1 for annual data, 4 for quarterly, or 12 for monthly); and
- n is the number of periods between the earlier and later periods (that is, t o).

Quarterly and monthly NIPA estimates are seasonally adjusted, if necessary. Seasonal adjustment removes from the time series the average impact of variations that normally occur at about the same time and in about the same magnitude each year—for example, weather, holidays, and tax payment dates. After seasonal adjustment, cyclical and other short-term changes in the economy stand out more clearly.

^{1.} In addition, because the changes in quantities and prices calculated using these weights are symmetric, the product of a quantity index and the corresponding price index is generally equal to the current-dollar index.

Reconciliation Tables

Table 1.—Reconciliation of Changes in BEA-Derived Compensation Per Hour with BLS Average Hourly Earnings

[Percent change from perceding period]

		1998	Seasonally adjusted at annual rates						
	1997		1998			1999			
			Ш	Ш	IV	I	П	111	
BEA-derived compensation per hour of all persons in the nonfarm business sector (less housing) ¹	3.6	5.2	5.6	6.2	4.6	4.2	4.8	5.4	
Less: Contribution of supplements to wages and salaries per hour	5	5	6	5	5	0	2	3	
Plus: Contribution of wages and salaries per hour of persons in housing and in nonprofit institutions	1	3	1	3	1	1	1	3	
Less: Contribution of wages and salaries per hour of persons in government enterprises, unpaid family workers, and self-employed	1	2	1	1	1	3	.1	.5	
Equals: BEA-derived wages and salaries per hour of all employees in the private nonfarm sector	4.0	5.6	6.1	6.4	5.0	4.3	4.7	4.9	
Less: Contribution of wages and salaries per hour of nonproduction workers in manufacturing	.1	1	.7	.4	.4	.4	.4	.4	
Less: Other differences ²	0	1.6	1.1	2.3	1.5	0	.7	.8	
Equals: BLS average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls	3.9	4.1	4.3	3.7	3.2	4.0	3.6	3.7	
Addendum: BLS estimates of compensation per hour in the nonfarm business sector ³	3.6	5.2	5.6	6.2	4.6	4.2	4.8	4.7	

^P Preliminary. 1. Includes BLS data on compensation and hours of nonfarm proprietors and hours worked of unpaid family workers. 2. Includes BEA use of non-BLS data and differences in detailed weighting. Annual estimates also include differences in BEA and BLS benchmark procedures; quarterly estimates also include

differences in seasonal adjustment procedures. 3. These estimates differ from the BEA-derived estimates (first line) because the BLS estimates include compensation and hours of tenant-occupied housing. BLS Bureau of Labor Statistics

Table 2.--Relation of Net Exports of Goods and Services and Net Receipts of Income in the NIPA's to Balance on Goods, Services, and Income in the ITA's

[Billions of dollars]

		1997	1998	Seasonally adjusted at annual rates						
	Line			1998			1999			
				Ш	III	IV	I	II		
Exports of goods, services, and income receipts, ITA's	1	1,197.2	1,192.2	1,193.9	1,166.0	1,199.9	1,183.7	1,205.5	1,248.8	
Less: Gold, ITA's	2 3 4	5.7 0 .8	5.5 0 .8	4.4 0 .6	5.2 0 .8	7.1 0 1.2	2.9 0 .8	3.3 -1.1 .9	6.0 -2.6 .9	
Plus: Adjustment for grossing of parent/affiliate interest payments Adjustment for U.S. territories and Puerto Rico Services furnished without payment by financial intermediaries except life insurance	5 6	4.5 38.1	5.0 42.3	4.9 40.9	5.2 41.4		4.3 47.2	4.4 48.1	4.6 47.3	
carriers	7	17.3 1.250.6	18.5	18.4 1,253.0	18.8	18.9	19.2 1,250.7	19.4 1.274.3	19.9	
Equals: Exports of goods and services and income receipts, NIPA's	8	1,200.0	1,231.0	1,253.0	1,225.5	1,202.7	1,230.7	1,274.3	1,310.2	
Imports of goods, services, and income payments, ITA's	9	1,298.7	1,368.7	1,363.9	1,376.7	1,392.7	1,417.0	1,484.3	1,563.7	
Less: Gold, ITA's Statistical differences ¹ Other items	10 11 12	6.6 0 0	6.5 0 0	5.5 0 0	7.3 0 0	6.6 0 0	3.2 0 0	3.2 .9 0	7.6 .8 0	
Plus: Gold, NIPA's Adjustment for grossing of parent/affiliate interest payments Adjustment for U.S. territories and Puerto Rico Imputed interest paid to rest of world	13 14 15 16	-3.6 4.5 24.3 17.3	-3.1 5.0 28.5 18.5	-3.1 4.9 28.3 18.4	-2.9 5.2 26.2 18.8	33.1	-2.3 4.3 31.7 19.2	-2.4 4.4 32.8 19.4	-2.5 4.6 32.3 19.9	
Equals: Imports of goods and services and income payments, NIPA's	17	1,334.7	1,411.1	1,407.0	1,416.8	1,441.0	1,466.7	1,534.4	1,609.8	
Balance on goods, services, and income, ITA's (1-9)	18	-101.5	-176.5	-170.0	-210.7	-192.8	-233.3	-278.8	-314.9	
Less: Gold (2-10+13) Statistical differences (3-11) ¹ Other items (4-12)	19 20 21	-4.5 0 .8	-4.1 0 .8	-4.2 0 .6	-5.0 0 .8	-2.4 0 1.2	-2.6 0 .8	-2.3 -2.0 .9	-4.1 -3.4 .9	
Plus: Adjustment for U.S. territories and Puerto Rico (6-15)	22	13.8	13.8	12.6	15.2	13.3	15.5	15.3	15.0	
Equals: Net exports of goods and services and net receipts of income, NIPA's (8-17)	23	-84.1	-159.5	-154.0	-191.3	-178.3	-216.0	-260.1	-293.6	

Consists of statistical revisions in the NIPA's that have not yet been incorporated into the ITA's (1999:III) and statistical revisions in the ITA's that have not yet been incorporated into the NIPA's (1999:II-1999:III).

ITA's International transactions accounts NIPA's National income and product accounts

Appendix B Suggested Reading

BEA's Mission and Strategic Plan

BEA'S mission statement and the latest update to BEA'S strategic plan for improving the accuracy, reliability, and relevance of the national, regional, and international accounts are available on BEA'S Web site (see the box below). The initial development and implementation of the strategic plan is described in the following articles in the SURVEY OF CURRENT BUSINESS.

"Mid-Decade Strategic Review of BEA'S Economic Accounts: Maintaining and Improving Their Performance" (February 1995)

"Mid-Decade Strategic Review of вел's Economic Accounts: An Update" (April 1995)

"вел's Mid-Decade Strategic Plan: A Progress Report" (June 1996)

Methodology

BEA has published a wealth of information about the methodology used to prepare its national, regional, and international estimates.

National

National income and product accounts (NIPA's)

NIPA Methodology Papers: This series documents the conceptual framework of the NIPA's and the methodology used to prepare the estimates.

An Introduction to National Economic Accounting (NIPA Methodology Paper No. 1, 1985) [Also appeared in the March 1985 issue of the SURVEY] Corporate Profits: Profits Before Tax, Profits Tax Liability, and Dividends (NIPA Methodology Paper No. 2, 1985)

Foreign Transactions (NIPA Methodology Paper No. 3, 1987) [Revised version forthcoming]

GNP: An Overview of Source Data and Estimating Methods (NIPA Methodology Paper No. 4, 1987) [Largely superseded by "A Guide to the NIPA'S" (March 1998 SURVEY)]

Government Transactions (NIPA Methodology Paper No. 5, 1988)

Personal Consumption Expenditures (NIPA Methodology Paper No. 6, 1990)

The methodologies described in these papers are subject to periodic improvements that are typically introduced as part of the annual and comprehensive revisions of the NIPA's; these improvements are described in the SURVEY articles that cover these revisions. The most recent comprehensive revision of the NIPA's is described in the following series of SURVEY articles.

"A Preview of the 1999 Comprehensive Revision of the National Income and Product Accounts":

"Definitional and Classificational Changes" (August 1999)

"New and Redesigned Tables" (September 1999)

"Statistical Changes" (October 1999)

"Improved Estimates of the National Income and Product Accounts for 1959–98: Results of the Comprehensive Revision" (December 1999)

"Annual Revision of the U.S. National Income and Product Accounts": This series of SURVEY articles, the latest of which was published in the August 1998 issue, describes the annual NIPA revisions and the improvements in methodology.

"A Guide to the NIPA'S" (March 1998 SURVEY) provides the definitions of the major NIPA aggregates and components; discusses the measures of real output and prices; explains how production is classified and how the NIPA's are presented; describes the statistical conventions that are used; and lists the principal source data and methods used to prepare the estimates of gross domestic product (GDP).

Information on the sources and methods used to prepare the national estimates of personal income, which provide the basis for the State estimates of personal income, can be found in *State Personal Income*, 1929–97 (1999).

"BEA'S Chain Indexes, Time Series, and Measures of Long-Term Economic Growth" (May 1997) is the most recent in a series of SURVEY articles that describe the conceptual basis for the chain-type measures of real output and prices used in the NIPA'S.

"Reliability of the Quarterly and Annual Estimates of GDP and Gross Domestic Income" (December 1998

Availability

Most of the items listed here are available on BEA'S Web site at <www.bea.doc.gov>. In addition, see the BEA Catalog of Products for the availability of printed publications. The Catalog is available on BEA'S Web site; a printed copy can be obtained by writing to the Public Information Office, BE-53, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230, or by calling 202–606–9900.

SURVEY) evaluates the reliability of these estimates by examining the record of revisions to them.

Wealth and related estimates

Fixed Reproducible Tangible Wealth in the United States, 1929–94 (1999) discusses the conceptual and statistical considerations underlying the BEA wealth estimates and explains the derivation of the estimates.

Gross product by industry

"Improved Estimates of Gross Product by Industry, 1959–94" (August 1996 SURVEY) describes the most recent comprehensive revision of the estimates of gross product by industry.

"Gross Product by Industry, 1947–96" (November 1997 SURVEY) and "Gross Product by Industry, 1995–97" (November 1998 SURVEY) present the most recent revisions to the estimates of gross product by industry and briefly describe changes in methodology.

Input-output accounts

"Benchmark Input-Output Accounts for the U.S. Economy, 1992" (November 1997 SURVEY) describes the preparation of the 1992 input-output (I-o) accounts and the concepts and methods underlying the U.S. I-O accounts.

"Annual Input-Output Accounts of the U.S. Economy, 1996" (January 2000 SURVEY) presents annual 1-0 tables for 1996 that update the 1992 benchmark 1-0 accounts.

Satellite accounts

Satellite accounts that extend the analytical capacity of the national accounts by focusing on a particular aspect of activity are presented in the following SURVEY articles.

"Integrated Economic and Environmental Satellite Accounts" and "Accounting for Mineral Resources: Issues and BEA's Initial Estimates" (April 1994)

"A Satellite Account for Research and Development" (November 1994)

"U.S. Transportation Satellite Accounts for 1992" (April 1998)

"U.S. Travel and Tourism Satellite Accounts for 1992" (July 1998)

International

International transactions accounts (ITA's)

The Balance of Payments of the United States: Concepts, Data Sources, and Estimating Procedures (1990) describes the methodologies used in preparing the estimates in the ITA's and of the international investment position of the United States. These methodologies are subject to periodic improvements that are typically introduced as part of the annual revisions of the ITA's.

"U.S. International Transactions, Revised Estimates": This series of SURVEY articles, the latest of which was published in the July 1999 issue, describes the annual ITA revisions and the improvements in methodology.

Direct investment

International Direct Investment: Studies by the Bureau of Economic Analysis (1999) presents a collection of previously published studies on U.S. direct investment abroad and foreign direct investment in the United States. In addition, it includes the following guides to BEA's statistics and methodologies used to prepare the estimates.

"Methodology for U.S. Direct Investment Abroad" (U.S. Direct Investment Abroad: 1994 Benchmark Survey, Final Results (1998))

"A Guide to BEA Statistics on U.S. Multinational Companies" (March 1995 SURVEY)

"Methodology for Foreign Direct Investment in the United States" (Foreign Direct Investment in the United States: 1992 Benchmark Survey, Final Results (1995))

"A Guide to bea Statistics on Foreign Direct Investment in the United States" (February 1990 SURVEY)

Surveys of international services

U.S. International Transactions in Private Services: A Guide to the Surveys Conducted by the Bureau of Economic Analysis (1998) provides information on the 11 surveys that BEA conducts on these transactions—including classifications, definitions, release schedules, and methods used to prepare the estimates—and samples of the survey forms.

Regional

Personal income

State Personal Income, 1929–97 (1999) includes a description of the methodology used to prepare the estimates of State personal income. [Also available on the CD-ROM *State Personal Income*, 1929–97]

Local Area Personal Income, 1969–92 (1994) includes a description of the methodology used to prepare the estimates of local area personal income. [Also available on the CD-ROM Regional Economic Information System, 1969–97]

Gross state product

"Comprehensive Revision of Gross State Product by Industry, 1977–94" (June 1997 SURVEY) summarizes the sources and methods for BEA's estimates of gross state product.

"Gross State Product by Industry, 1977–96" (June 1998 SURVEY) and "Gross State Product by Industry, 1995–97" (June 1999 SURVEY) present the most recent revisions to the estimates of gross state product by industry and briefly describe changes in methodology.