

Bureau of Economic Analysis

Survey of Current Business

Table of Contents April 1994

Special in this issue

33. Integrated Economic and Environmental Satellite Accounts

BEA has designed a new set of accounts to provide a statistical picture for analysis of the interaction of the economy and the environment. The new accounts extend the definition of capital in BEA's existing accounts to cover natural and environmental resources. They would supplement, not replace, the existing accounts.

50. Accounting for Mineral Resources: Issues and BEA's Initial Estimates

Mineral resources, when estimated as part of the supplemental accounts described in the companion article summarized above, add between 3 and 7 percent (depending on the valuation method) to the Nation's private stock of capital. From 1958 to 1991, in current dollars, additions to the stock more than offset depletion; in constant dollars, additions about offset depletion. Factoring mineral resources into measures of income and capital stock lowers the average rate of return in the mineral industry from 23 percent to between 4 and 5 percent.

73. Benchmark Input-Output Accounts for the U.S. Economy, 1987

The U.S. input-output (I-O) accounts present a detailed picture of how industries interact—providing input to, and taking output from, each other—to produce GDP. In preparing the 1987 benchmark I-O accounts, BEA developed a set of abbreviated procedures to speed up completion, and it initiated some improvements in the tables.

Regular features

1. Business Situation

U.S. economic activity slowed in the first quarter of 1994. Real GDP increased 2.6 percent, down from a 7.0-percent increase in the fourth quarter of 1993. At 2.3 percent, inflation remained moderate. In 1993, corporate profits increased \$59.4 billion, up from a \$37.7 billion increase in 1992.

117. Total and Per Capita Personal Income by State and Region

In the fourth quarter of 1993, personal income picked up, as farm income rebounded from a third-quarter drop that was due to floods in the Midwest, drought in the Southeast, and reduced subsidy payments. For the year 1993, per capita personal income in 42 States increased faster than prices.

127. Local Area Personal Income: Estimates for 1990–92 and Revisions to the Estimates for 1981–91

Estimates of personal income and per capita personal income for counties and metropolitan areas have been revised to incorporate newly available source data and changes in the definitions of county-based metropolitan areas.

31. Selected Monthly Estimates

Reports and statistical presentations

10. National Income and Product Accounts

C-1. Business Cycle Indicators

BEGINNING WITH THIS ISSUE

A new section presents monthly estimates for personal income, the disposition of personal income, and U.S. international transactions in goods and services. The three tables in this section, which will appear each month, are on pages 31–32.

The "Current Business Statistics" section has been discontinued. The list of sources for these series, which was published in last month's SURVEY, is reprinted beginning on page S-1 of this issue.

THE BUSINESS SITUATION

This article was prepared by Daniel Larkins, Larry R. Moran, and Ralph W. Morris. The Economy's uneven expansion continued in the first quarter of 1994, according to the advance estimates of the national income and product accounts (NIPA's). The growth of real gross domestic product (GDP) slowed to 2.6 percent from 7.0 percent in the fourth quarter of 1993 (chart 1). The deceleration was accounted for by sharply slower growth in the production of goods other than motor vehicles and by a downturn in the production of structures; the production of motor vehicles surged again in the first quarter, and the production of services registered another modest increase (table 1)

Real gross domestic purchases also grew less in the first quarter than in the fourth—4.1 percent after 6.7 percent. The slowdown was more than accounted for by final sales to domestic purchasers; inventory investment accelerated sharply (table 2). Within final sales, residential and non-residential fixed investment increased less than in the fourth quarter, as did personal consumption expenditures, and government purchases dropped after no change.

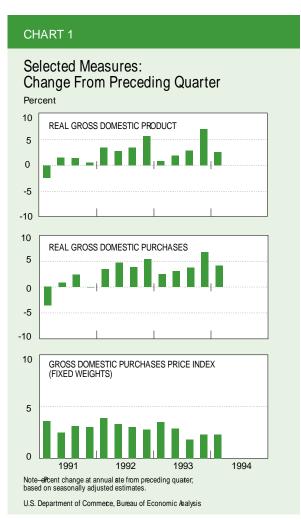
Exports and imports are the link between goods and services produced in the United States (GDP) and goods and services purchased by U.S. residents (gross domestic purchases). In the first quarter, exports turned down, and imports slowed sharply. In the fourth quarter, both exports and imports had increased substantially.

The fixed-weighted price index for gross domestic purchases increased 2.3 percent in the first quarter, the same rate as in the fourth quarter. The fixed-weighted price index for GDP increased 2.9 percent after increasing 2.3 percent. The difference between the fourth-quarter increases in the two indexes reflects a step-up in the prices of exports and a downturn in the prices of imports.

Northridge earthquake.—The Northridge earthquake struck southern California on the morning of January 17. The destruction it caused—and the reconstruction and relief efforts that resulted—

affected the components of first-quarter GDP and gross domestic purchases, but most of these effects are embedded in the source data that are used to estimate the components. Thus, the effects of the earthquake and reconstruction cannot be disentangled from the effects of unseasonably cold weather in much of the Nation or, indeed, from the effects of any other factor.

However, the Bureau of Economic Analysis did estimate the extent of the earthquake's damage to fixed capital. It is estimated that the earthquake caused the consumption of fixed capital (including residential capital) owned by business to increase \$41 billion in constant dollars



^{1.} Quarterly estimates in the NIPA's are expressed at seasonally adjusted annual rates, and quarterly changes are differences between these rates. Quarter-to-quarter percent changes are annualized. Real, or constant-dollar, estimates are expressed in 1987 dollars.

and \$47 billion in current dollars (at annual rates). Reflecting the increase in consumption of fixed capital, real net domestic product (NDP) decreased 1.1 percent in the first quarter; if there had been no earthquake, real NDP would

have increased about 2.4 percent. (NDP is GDP less the consumption of fixed capital.)

The consumption of fixed capital is deducted in the calculation of two components of personal income: Rental income of persons with cap-

Table 1.—Real Gross Domestic Product, by Major Type of Product

[Seasonally adjusted at annual rates]

		Billion	s of 1987	dollars	Percent change from preceding quarter					
	Change from preceding quarter						1993			
	Level	1993			1994			N/		
	1994:I	II	III	IV	I	"		IV	'	
Gross domestic product	5,259.0	23.9	36.2	87.3	33.4	1.9	2.9	7.0	2.6	
Goods Motor vehicles Other	2,161.0 240.5 1,920.5	8.9 -2.6 11.5	5.8 -10.2 16.0	56.0 21.7 34.3	30.1 25.4 4.7	1.7 -4.9 2.5	1.1 -18.6 3.5	11.2 53.0 7.5	5.8 56.3 1.0	
Services	2,617.7	12.2	19.2	9.3	11.7	1.9	3.0	1.4	1.8	
Structures	480.3	2.8	11.1	22.1	-8.4	2.5	10.1	20.3	-6.7	

NOTE.—Most series are found in table 1.4 of the "Selected NIPA Tables." Output of motor vehicles is the sum of auto output and truck output from tables 8.4 and 8.6, respectively.

Table 2.—Real Gross Domestic Product, Real Gross Domestic Purchases, and Real Final Sales to Domestic **Purchasers**

[Seasonally adjusted at annual rates]

		Billion	s of 1987 o	dollars	Percent of	Percent change from preceding quarter			
	Change from preceding quarter					1993			1994
	Level 1993 1994			III	IV				
	1994:I	II	III	IV	I	ll ll	III	IV	,
Gross domestic product	5,259.0	23.9	36.2	87.3	33.4	1.9	2.9	7.0	2.6
Less: Exports of goods and services	605.0 709.3	5.2 20.5	-1.3 9.8	28.1 26.3	-15.0 4.8	3.6 13.3	9 6.0	20.4 16.4	-9.3 2.8
Equals: Gross domestic purchases	5,363.3	39.3	47.2	85.4	53.3	3.1	3.7	6.7	4.1
Less: Change in business inventories Farm Nonfarm	30.5 2 30.7	-16.3 -4.1 -12.2	-6.5 -8.8 2.3	2.0 8.5 –6.5	22.0 4.2 17.8				
Equals: Final sales to domestic purchasers	5,332.8	55.5	53.8	83.5	31.2	4.4	4.2	6.6	2.4
Personal consumption expenditures Nonresidential fixed investment Residential investment Government purchases	3,539.8 634.1 232.2 926.8	28.9 22.0 -5.2 9.8	36.9 10.5 5.9 .6	37.3 30.9 15.1 0	32.9 8.4 5.0 –14.9	3.4 16.6 -9.5 4.3	4.4 7.4 11.9 .3	4.4 22.5 31.7 0	3.8 5.5 9.1 –6.2

NOTE.—Dollar levels are found in tables 1.2 and 1.6 of the "Selected NIPA Tables." Percent changes are found in table 8.1.

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

[Seasonally adjusted at annual rates]

		Billions	s of 1987 o	dollars	Percent change from preceding qua				
	Lovel	Change from preceding quarter					1994		
	Level	1993		1994		l III	n./		
	1994:I	II	III	IV	I	"	""	IV	'
Output	240.5 138.0 102.5	−2.6 .9 −3.5	- 10.2 -9.9 3	21.7 11.5 10.2	25.4 13.0 12.4	- 4.9 3.0 -15.7	- 18.6 -28.4 -1.5	53.0 47.1 61.7	56.3 48.6 67.5
Final sales Autos Trucks	235.6 136.4 99.2	14.1 7.2 6.9	- 7.7 -4.9 -2.8	13.8 2.9 10.9	24.1 17.2 6.9	32.9 27.8 40.8		31.0 10.4 65.3	54.0 71.5 33.4
Change in business inventories Autos Trucks	4.9 1.6 3.3	- 16.7 -6.3 -10.4	−2.5 −5.1 2.6	7.9 8.7 8	1.4 -4.2 5.6				

NOTE.—Dollar levels for cars and trucks are found in tables 8.4 and 8.6, respectively, of the "Selected NIPA Tables."

ital consumption adjustment, and proprietors' income with inventory valuation and capital consumption adjustments. These incomes are not estimated on a constant-dollar basis in the NIPA's; the estimates reported below are in current dollars and are expressed at annual rates.

Earthquake damage to residential capital other than repairable damage reduced rental income of persons by \$31 billion, about one-third of which was offset by insurance benefits. Earthquake damage to fixed capital other than repairable damage reduced proprietors' income by \$2½ billion, about half of which was offset by insurance benefits.

The source data used to estimate first-quarter corporate profits are not yet available; however, other data indicate that profits were reduced by about \$29 billion by the earthquake. Non-repairable damage to corporate equipment and structures amounted to \$13½ billion, about one-third of which was offset by insurance benefits. In addition, benefits paid by insurance companies reduced profits by about \$20 billion.

Motor vehicles.—Motor vehicle output and sales jumped sharply for the second consecutive quarter; inventories also increased. The first-quarter jump in output was about the same as the jump in the fourth quarter, and it was evenly split between autos and trucks. The first-quarter jump in sales was about twice the fourth-quarter jump, and it was mostly accounted for by autos. The increase in inventories was much smaller than in the fourth quarter, and it was more than accounted for by trucks.

Output increased 56.3 percent in the first quarter after increasing 53.0 percent in the fourth (table 3). Truck output increased 67.5 percent after increasing 61.7 percent; auto output increased 48.6 percent after increasing 47.1 percent.

Final sales increased 54.0 percent in the first quarter after increasing 31.0 percent in the fourth. Auto sales increased 71.5 percent after increasing 10.4 percent. Domestic-car sales accounted for nearly three-fourths of the first-quarter increase in new-car sales. In units, domestic-car sales increased to 7.5 million from 7.1 million, and imported-car sales increased to 2.0 million from 1.9 million. Truck sales increased 33.4 percent after increasing 65.3 percent. Light domestic trucks accounted for nearly all of the first-quarter increase; sales of minivans, sport utilities, and full-size pickups remained very strong. In units, light domestic trucks increased to 5.9 million from 5.5 million, light imported trucks increased

to 0.2 million from 0.1 million, and "other" trucks were unchanged at 0.4 million.

About half of the first-quarter jump in motor vehicle sales was accounted for by consumers. Business and net exports accounted for most of the rest.

Sales to consumers increased 29.3 percent after increasing 26.3 percent; auto sales accounted for three-fourths of the first-quarter jump. The strength in first-quarter sales to consumers is consistent with recent improvements in consumer attitudes and incomes. The Index of Consumer Sentiment (prepared by the University of Michigan's Survey Research Center) jumped from 84.0 in the fourth quarter to 93.0 in the first, its highest level in 5 years. Real disposable personal income increased 2.7 percent, the fourth consecutive increase; over the past four quarters, it has increased 3.9 percent. In addition, interest rates on new-vehicle loans remained low; for example, the rate on 48-month new car loans at commercial banks averaged 7.54 percent in February.

The first-quarter increase in motor vehicle inventories was more than accounted for by trucks. Auto inventories decreased in the first quarter after increasing in the fourth; based on units, the inventory-sales ratio for domestic new cars was unchanged at 2.5—just above the traditional industry target of 2.4.

Prices

The fixed-weighted price index for gross domestic purchases increased 2.3 percent in the first quarter, the same rate as in the fourth quarter (table 4). A slowdown in food prices and a downturn in energy prices roughly offset an acceleration in prices paid by the Federal Government for employee services.

Prices of personal consumption expenditures increased 2.1 percent after increasing 2.8 percent. A slowdown in food prices mainly reflected downturns in the prices of fresh fruits and vegetables and slowdowns in the prices of seafood and poultry. Gasoline and oil contributed the most to the downturn in energy prices, but electricity and gas also contributed; fuel oil and coal turned up. Slowdowns were widespread in prices of other personal consumption expenditures; two exceptions were transportation services and durable goods excluding both motor vehicles and "furniture and household equipment."

Prices of nonresidential fixed investment increased 1.8 percent after increasing 1.2 percent. Prices of nonresidential structures in-

creased somewhat less in the first quarter than in the fourth. Prices of producers' durable equipment increased after little change. Prices of transportation equipment posted the largest increase in 3 years, and prices of information processing equipment decreased again, reflecting a decrease in computer prices.

Prices of residential investment increased 2.2 percent after increasing 3.2 percent. The first-quarter increase was substantially below the 3.9-percent average rate of increase over the preceding six quarters and substantially above the

1.0-percent average rate of increase over the six quarters before that.

Prices of government purchases increased 3.7 percent after increasing 1.0 percent. Prices paid by the Federal Government increased 4.6 percent after increasing 0.5 percent; the step-up was attributable to a pay raise for Federal employees.² Prices paid by State and local governments increased 3.0 percent after increasing 1.5 percent; prices of goods turned up, and prices of serv-

First-Quarter 1994 Advance GDP Estimate: Source Data and Assumptions

The advance GDP estimate for the first quarter is based on the following major source data, some of which are subject to revision. (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 (3), and exports and imports of machinery and equipment (2);

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

Change in business 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 purchases: Military outlays (3), other Federal outlays (2), State and local construction put in place (2), and State and local employment (3);

GDP prices: Consumer Price Index (3), Producer Price Index (3), price indexes for nonpetroleum merchandise exports and imports (3), and values and quantities of petroleum imports (2).

The Bureau of Economic Analysis (BEA) made assumptions for the source data that were not available. A table detailing these assumptions is available on the Department of Commerce's Economic Bulletin Board or from BEA; the assumptions are summarized in table A.

Table A.—Summary of Major Data Assumptions for Advance Estimate, 1994:I

[Billions of dollars, seasonally adjusted at annual rates]

		1993			1994	
	October	November	December	January	February	March
Fixed investment: Nonresidential structures: Buildings, utilities, and farm:						
Value of new nonresidential construction put in place	135.6	138.7	139.0	132.2	129.6	136.8 ¹
Manufacturers' shipments less exports, aircraft industry, nondefense Manufacturers' shipments, other than aircraft industry Residential structures:	4.3 344.2	3.1 366.9	5.2 375.5	1.0 355.4	2.5 373.0	11.5 ² 370.3 ²
Value of new residential construction put in place: 1-unit structures 2-or-more-unit structures	139.5 10.5	144.5 11.2	150.8 11.3	150.6 10.6	151.4 10.8	155.6 ¹ 11.2 ¹
Change in business inventories nonfarm: Change in inventories for manufacturing and trade (except nonmerchant wholesalers) for industries other than motor vehicles and equipment in trade	6.1	37.0	-32.9	15.1	53.1	35.0 ¹
Net exports: Exports of merchandise:						
U.S. exports, excluding gold, balance-of-payments basis	457.2	459.9	486.8	457.3	440.6	456.9 ¹
U.S. imports, excluding gold, balance-of-payments basis Net merchandise trade (exports less imports)	611.9 -154.7	599.3 -139.3	595.1 -108.3	593.5 -136.2	603.2 -162.6	610.1 ¹ -153.2 ¹
Government purchases: State and local: Structures:						
Value of new construction put in place	116.1	120.7	124.6	112.0	110.2	118.8 1

^{1.} Assume

for aircraft. Shipments of complete civilian aircraft, the usual source data, are available only through February.

^{2.} In the NIPA's, an increase in the rate of Federal employee compensation is treated as an increase in the price of employee services purchased by the Federal Government.

Aircraft industry shipments, which were available through March, were used (along with exports and imports) to estimate the first-quarter change in producers' durable equipment

ices increased somewhat more than in the fourth quarter.

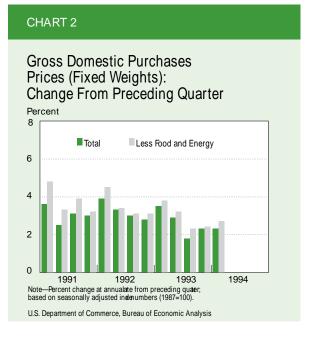
The price index for GDP, which measures the prices paid for goods and services produced in the United States, increased 2.9 percent after increasing 2.3 percent. This index, unlike the index for gross domestic purchases, includes prices of exports and excludes prices of imports. Export prices increased more in the first quarter than in the fourth. All major end-use categories of exports except nonautomotive capital

Table 4.—Price Indexes (Fixed Weights): Change From Preceding Quarter

[Percent change at annual rates; based on seasonally adjusted index numbers (1987=100)]

		1993		1994
	II	III	IV	I
Gross domestic product	2.8	2.1	2.3	2.9
Less: Exports of goods and services	2.8 3.8	.6 –2.7	.7 1.1	3.7 -1.6
Equals: Gross domestic purchases	2.9	1.8	2.3	2.3
Less: Change in business inventories				
Equals: Final sales to domestic purchasers	2.9	1.8	2.3	2.4
Personal consumption expenditures Food	2.9 2.3 -1.5 3.4 2.5 3.8 1.8 5.0 2.6	1.4 .3 -4.2 2.0 1.9 3.4 1.0 4.6 2.5	2.8 3.2 2.4 2.8 1.2 3.2 .1 3.2 1.0	2.1 1.1 -1.5 2.5 1.8 2.5 1.3 2.2 3.7
Addenda: Merchandise imports Petroleum and products Other merchandise	4.1 16.1 3.0	-3.4 -36.6 .5	.3 -27.5 3.2	-1.7 -32.0 1.2

NOTE.—Percent changes in major aggregates are found in table 8.1 of the "Selected NIPA Tables." Most index number levels are found in tables 7.1 and 7.2.

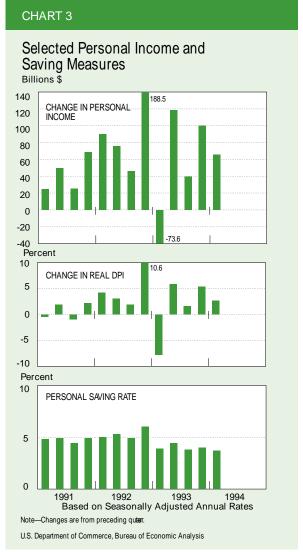


and consumer goods contributed to the step-up. Import prices turned down. The price of imported petroleum and products posted its third straight drop of roughly 30 percent; all other major end-use categories of imports except industrial supplies and materials contributed to the downturn.

Personal income

Real disposable personal income (DPI) increased 2.7 percent in the first quarter after increasing 5.4 percent in the fourth (chart 3). The deceleration was more than accounted for by a slowdown in current-dollar DPI, which increased 4.1 percent after increasing 7.8 percent. The personal saving rate—saving as a percentage of current-dollar DPI—decreased 0.3 percentage point to 3.7 percent, its lowest level in the current expansion.

Personal income increased \$65.4 billion in the first quarter after increasing \$100.0 billion in the



fourth (table 5). Proprietors' income and rental income of persons more than accounted for the slowdown.

Farm proprietors' income increased \$3.6 billion after increasing \$31.6 billion. Federal subsidy payments to farm proprietors decreased \$4.1 billion after increasing \$14.5 billion. If the subsidies and the adjustments for the effects of last year's floods and drought on fourth-quarter income are excluded, farm proprietors' income increased \$4.5 billion in the first quarter after increasing \$11.0 billion in the fourth; the slowdown reflected weaker increases in farm prices and lower livestock production.

Nonfarm proprietors' income increased \$5.0 billion after increasing \$13.0 billion. The deceleration reflected slowdowns in residential construction and in retail sales. Rental income of persons decreased \$12.9 billion after increasing \$2.7 billion. As mentioned earlier, nonfarm proprietors' income and rental income in the first

quarter were reduced by adjustments for damage resulting from the Northridge earthquake.

Wage and salary disbursements increased \$51.1 billion after increasing \$34.2 billion. Wages and salaries in both private industry and government increased more in the first quarter than in the fourth. In private industry, a step-up to \$44.5 billion from \$31.6 billion was concentrated in the service and distributive industries; manufacturing also contributed, reflecting bonus payments to employees in the motor vehicle industry. In government, a step-up to \$6.6 billion from \$2.6 billion mainly reflected the Federal pay raise; the rest was accounted for by an adjustment to State and local government compensation that reflected rescue and cleanup efforts associated with the earthquake.

Transfer payments increased \$14.8 billion after increasing \$11.3 billion. The step-up was due to cost-of-living adjustments (COLA's) to benefits under social security and several other Federal

Table 5.—Personal Income and Its Disposition

[Billions of dollars; seasonally adjusted at annual rates]

	Level	Cha	nge fron qua		ling		Level	Cha	nge fron qua		ding
	1994:I		1993		1994		1994:I		1993		1994
		II	III	IV	1			II	III	IV	ı
Wage and salary disbursements	3,200.7 789.5 595.8 193.7	108.4 24.4 20.6 3.8	32.7 4.3 1.2 3.1	34.2 9.9 6.3 3.6	51.1 10.2 8.0 2.2	In farm proprietors' income: Agricultural subsidy payments Uninsured losses to residential and business property and crop		-7.4	-11.0	14.5	-4.1
Distributive industries Service industries Government	733.5 1,075.8 602.0	26.2 55.6 2.2	5.3 16.6 6.5	5.7 15.9 2.6	13.4 21.1 6.6	losses due to Midwest floods and Southeast drought ¹		0	-9.3	6.1	3.2
Other labor income	371.9	8.1	8.1	8.2	9.0	Uninsured losses to business					
Proprietors' income with IVA and CCAdj Farm Nonfarm	475.6 60.0 415.6	-4.7 -8.7 4.0	-16.9 -22.2 5.2	44.5 31.6 13.0	8.6 3.6 5.0	Due to Midwest floods		0	7 0	.7 0	0 -1.4
Rental income of persons with CCAdj Personal dividend income Personal interest income	3.5 160.7 700.2	5.2 .8 –2.3	1.0 1.2 2.6	2.7 .4 1.0	-12.9 1.3 3.5	In rental income of persons with CCAdj: Uninsured losses to nonfarm					
Transfer payments to persons	944.6	11.1	13.0	11.3	14.8	residential and business property: 1					
Less: Personal contributions for social insurance	279.1	7.9	2.3	2.4	9.9	Due to Midwest floods Due to Northridge, California earthquake		0	-1.9 0	1.9 0	0 -19.5
Personal income	5,578.1	118.5	39.5	100.0	65.4	·					
Less: Personal tax and nontax payments	715.7	23.9	8.0	10.2	16.5	In transfer payments to persons: Social security retroactive payments		0	0	1.2	-1.2
Equals: Disposable personal income	4,862.4	94.7	31.5	89.8	48.9	Cost-of-living increases in Federal transfer payments		0	0	0	8.9
Less: Personal outlays	4,680.4	63.9	60.4	76.1	60.3	Emergency unemployment		8	.2	-2.5	_4.7
Equals: Personal saving Addenda: Special factors in personal income:	182.0	30.8	-29.0	13.7	-11.4	Midwest floods Northridge, California earthquake		0 0	.3	-2.3 1 0	-4.7 2 1.4
In wages and salaries: Federal Government and Postal Service pay adjustments Profit sharing and bonus pay (including accelerated bonuses) .			1.6 0	-1.0 .4	2.6 1.7	In personal contributions for social insurance: Social security rate and base changes and increase in the premium for supplementary medical insurance		0	0	0	6.2

NOTE.—Most dollar levels are found in table 2.1 of the "Selected NIPA Tables." IVA Inventory valuation adjustment CCAdj Capital consumption adjustment

These estimates mainly reflect adjustments to account for uninsured losses to residential and business property; however, some of the estimates include relatively small amounts reflecting other items

retirement and income support programs; the COLA's, which became effective in January, added \$8.9 billion to transfer payments. Emergency unemployment benefits decreased \$4.7 billion after decreasing \$2.5 billion.

Personal contributions for social insurance, which are subtracted in deriving the personal income total, increased \$9.9 billion after increasing \$2.4 billion. The first-quarter increase was boosted \$6.2 billion by several program changes: An increase in the social security taxable wage base for employees and in the social security taxable earnings base for the self-employed from \$57,600 to \$60,600; the removal of the \$135,000 cap on the medicare taxable wage base; and an increase in the monthly premium for supplementary medical insurance.

Personal tax and nontax payments increased \$16.5 billion after increasing \$10.2 billion. The first-quarter increase in Federal income tax payments reflected the effects of tax rate changes and other provisions of the Omnibus Budget Reconciliation Act of 1993, as well as the growth in wages and salaries. The increase was restrained by the annual revision of the withholding tables to reflect the inflation indexing provisions of earlier tax law.

Corporate Profits and Property Income in 1993

Profits from current production—profits before tax plus inventory valuation adjustment (IVA) and capital consumption adjustment (CCAdj)—increased \$59.4 billion in 1993, to \$466.6 billion, after increasing \$37.7 billion in 1992 (table 6).³

Profits from the domestic operations of nonfinancial corporations increased \$42.2 billion after increasing \$44.4 billion. In both years, real gross product of these corporations increased about 4 percent. Moreover, profits per unit increased substantially in both years, as unit labor costs increased much less than unit prices.

Profits from the domestic operations of financial corporations increased \$20.7 billion after decreasing \$2.0 billion. The upturn was more than accounted for by property and casualty insurance carriers, whose profits had turned negative in 1992 in the wake of Hurricanes Andrew and Iniki.

Profits from the rest of the world decreased \$3.6 billion after decreasing \$4.6 billion. In both years, payments (outflows) increased more than receipts

(inflows), reflecting the stronger growth in the U.S. economy than in many foreign economies.

Cash flow from current production, a profits-related measure of internally generated funds available to corporations for investment, increased \$25.4 billion after increasing \$21.4 billion. Cash flow as a percentage of nonresidential fixed investment was 85.4 percent in 1993, down from 89.7 percent in 1992, but still much higher than its 72.1-percent average in the 1980's.

Current-production measures of profits are not available for individual industries because estimates of the CCAdj by industry do not exist; profits before tax (PBT) with IVA is the best available measure. Most manufacturing industries posted smaller increases in 1993 than in 1992; however, profits from petroleum refining increased much more than in 1992. In contrast to the slowdown in manufacturing profits, profits in trade and in the transportation and utilities group turned up.

Related measures.—PBT increased \$54.0 billion after increasing \$33.1 billion. The difference be-

Table 6.—Corporate Profits

Table 6.—Corporate Pro	fits		
	Level	Change	
	1993	1992	1993
	Billio	ons of doll	ars
Profits from current production Domestic Financial Nonfinancial Rest of the world IVA CCAdj Profits before tax Profits before tax Iva liability Profits after tax Cash flow from current production	466.6 407.9 87.4 320.5 58.7 -7.1 24.3 449.4 174.0 275.4 532.4	37.7 42.3 -2.0 44.4 -4.6 -10.2 14.9 33.1 16.5 16.6 21.4	59.4 63.0 20.7 42.2 -3.6 -1.8 7.2 54.0 27.7 26.3
Profits by industry: Profits before tax with IVA Domestic Financial Nonfinancial Manufacturing Trade Transportation and public utilities Other Rest of the world Receipts (inflows) Payments (outflows)	442.3 383.6 99.0 284.6 131.7 54.4 57.8 40.6 58.7 71.3 12.6	22.8 27.4 -2.6 30.1 25.7 -1.1 -2.4 7.8 -4.6 1.7 6.3	52.2 55.8 20.9 34.8 16.2 8.1 5.8 4.6 -3.6 6.1 9.6
		Dollars	
Unit prices, costs, and profits of domestic nonfinancial corporations: Unit price Unit labor cost Unit nonlabor cost Unit profits from current production	1.164 .768 .287 .109	0.012 .004 004 .013	0.015 .006 002 .010

NOTE.—Dollar levels of these and other profits series are found in tables 1.14, 1.16, 6.16C, and 7.15 of the "Selected NIPA Tables."

^{3.} According to the revised estimates (released April 28, 1994), profits increased \$39.4 billion in the fourth quarter of 1993; the preliminary estimates, released March 31, had shown a \$42.0 billion increase.

IVA Inventory valuation adjustment CCAdj Capital consumption adjustment

tween the increase in PBT and the increase in profits from current production in 1993 reflected an increase in the CCAdj that more than offset a decrease in the IVA.

The ccadj is the difference between the predominantly tax-based depreciation measure that underlies PBT and BEA's estimate of the consumption of fixed capital. The ccadj increased \$7.2 billion in 1993.

The IVA is an estimate, with the sign reversed, of the inventory profits that are included in PBT. Inventory profits increased \$1.8 billion in 1993.

Property income

Corporate property income includes net interest payments as well as profits from current production. For domestic nonfinancial corporations, net interest payments decreased \$1.6 billion in

Table 7.—Property Income of Domestic Nonfinancial Corporations and Related Series, 1959–93

[Billions of dollars]

		Pro	perty inc	ome			
Year			s from co production		Net	Domes- tic in-	Net reproducible
	Total	Total	Profits tax li- ability	Profits after tax	interest	come	assets ¹
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1959	45.8 43.4 44.7 52.7 58.6 65.4 76.4 82.3 80.5 86.1 106.0 98.9 120.2 139.0 162.6 182.4 178.9 208.9 194.0 236.6 302.2 312.1 302.0 350.0 396.0 396.0 401.8 404.9 375.2 413.6 454.2	42.6 40.0 40.8 48.2 53.8 60.0 70.3 74.9 71.8 76.0 71.3 57.1 67.2 77.0 83.6 70.6 91.5 132.0 146.1 138.1 120.7 136.9 111.5 159.9 214.3 221.4 203.8 244.2 275.2 276.4 233.9 278.3 320.5	20.7 19.2 19.5 20.6 22.8 24.0 27.2 29.5 27.8 33.6 33.3 27.2 29.9 33.8 40.2 41.5 53.0 67.0 63.9 67.1 69.6 93.5 101.7 99.5 93.9 93.5 101.7 99.5 93.9 98.2 117.0	21.9 20.8 21.3 27.5 31.0 36.1 43.1 43.9 42.4 43.9 29.9 37.2 43.2 43.2 43.2 50.0 68.5 72.1 79.0 68.5 53.7 73.0 10.4 140.1 151.5 128.2 150.8 172.6 155.7 165.2 180.1 120.3 150.1	3.1 3.5 4.0 4.5 4.8 5.3 6.1 7.4 8.8 10.1 13.2 22.5 28.3 28.7 27.5 30.6 36.3 45.1 58.2 71.9 90.7 90.7 98.3 105.8 121.6 146.6 146.6 141.3 135.3 135.3	217.2 224.6 230.1 252.8 269.7 292.0 322.8 356.2 372.8 409.3 443.3 452.8 487.3 543.2 612.0 655.7 700.6 1,147.4 1,032.6 1,147.4 1,373.6 1,404.0 1,508.2 1,711.4 1,815.3 1,815.3 1,815.3 1,815.3 1,815.3 1,815.3 1,815.3 1,815.3 1,815.3 1,210.2 2,210.2 2,210.2 2,210.2 2,210.2 2,210.2 2,210.2 2,210.2 2,210.2 2,210.2 2,210.9	392.0 406.9 417.7 431.0 448.6 471.0 503.4 551.0 603.9 660.4 729.3 800.2 871.0 955.2 1,076.2 1,273.1 1,468.0 1,612.9 1,779.3 2,000.4 4,2283.1 2,606.0 2,938.1 3,180.3 3,300.2 3,435.8 3,606.7 3,744.1 3,889.6 4,101.4 4,327.7 4,516.6 4,634.0 4,698.8 4,827.1

^{1.} Structures, equipment, and inventories, valued at current replacement cost. Data are averages of end-of-year values for adjacent years.

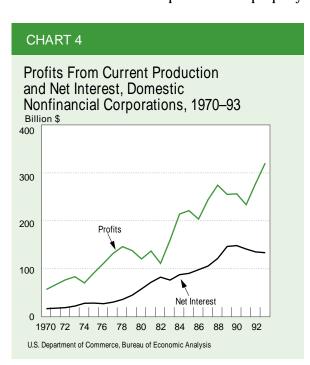
NOTE.—Property income is profits from current production plus net interest. Profits from current production is corporate profits with inventory valuation adjustment and capital consumption adjustment. Profits after tax is also shown with inventory valuation adjustment and capital consumption adjustment. Current data on most series are shown in table 1.16 of the "Selected NIPA Tables." The value of structures and equipment through 1992 are from Fixed Reproducible Tangible Wealth in the United States, 1925–89. (Washington DC: U.S. Government Printing Office, 1993) and from SURVEY OF CURRENT BUSINESS 73 (September 1993): 64–65. Data on structures and equipment for 1993 and all data on inventories are unpublished BEA estimates.

1993, to \$133.7 billion, after decreasing \$6.0 billion in 1992.

Chart 4 and table 7 provide a perspective on the recent changes in both types of property income. From 1970 to 1990, both types trended up, but net interest, which increased at an average annual rate of 11.4 percent, generally increased much faster than profits, which increased at an average annual rate of 7.8 percent. As a result, the share of net interest in property income rose from 23.0 percent in 1970 to 36.7 percent in 1990.

Since 1990, however, net interest has decreased each year (at an average rate of 3.4 percent); the downtrend reflects the ebbing of the wave of leveraged buyouts that were so prominent in the 1980's, the efforts by corporations to restructure balance sheets, and falling interest rates. Profits, in contrast, decreased only in 1991; in 1992 and 1993, profits increased at an average rate of 17.1 percent. As a consequence, the share of net interest in property income slid to 29.4 percent in 1993.

Further perspective on recent changes in property income can be gained by examining the relationship of property income to the stock of net reproducible assets and to domestic income. Net reproducible assets consist of fixed capital stock and inventories, both of which are measured at current replacement cost; these assets increased 2.7 percent in 1993 after increasing 1.2 percent in 1992. From 1970 to 1990, in contrast, these assets grew at an average rate of 9.0 percent. Domestic income of corporations is property



income plus compensation of employees; it increased 5.7 percent in 1993 after increasing 5.5 percent in 1992.

The ratio of property income to the stock of net reproducible assets is the average rate of return on these assets. The use of property income, rather than profits alone, as the numerator of this ratio captures the total return to investment (profits plus interest) regardless of whether the investment was financed by equity or by debt.⁴

The ratio of property income to domestic income is property income's share of domestic income—that is, the fraction of domestic income that is not used to compensate labor. Property

Table 8.—Rate of Return, Income Share, and Average Product of Capital, Domestic Nonfinancial Corporations, 1959–93

				[Percent	t]				
		Ra	te of ret	urn		Share	of dom	nestic in	come
		Prop	erty inc	ome			Property		
Year			s from coroduction		Net		Prof- its from		Aver-
	Total	Total Total Total Proficits tax State Proficits tax State Proficits tax State Proficits tax Pr	Net inter- est	prod- uct of cap- ital					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1959	11.7 10.7 10.7 12.2 13.1 13.9 15.2 14.9 13.3 13.0 11.6 9.3 9.8 8.2 10.1 9.1 9.1 8.2 8.2 8.2 8.2 8.2 8.2 8.3 9.1 9.1 9.1 9.1 8.3 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1	10.9 9.8 9.8 9.8 9.8 11.2 12.0 12.7 14.0 13.6 6.2 14.7 7.3 14.6 14.7 7.3 14.6 14.7 7.3 14.6 14.7 7.3 14.6 14.7 7.3 14.8 16.2 16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	5.3 4.7 4.8 5.1 5.4 5.4 5.1 5.4 4.6 5.1 3.4 3.5 3.3 3.3 3.4 3.4 3.5 1.8 2.8 2.1 1.8 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	5.6 5.1 6.4 6.9 7.7 8.6 8.2 2.3 4.5 3.7 4.3 3.9 3.1 3.9 3.1 3.9 4.1 3.9 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	0.8 9.9 9.11 1.11 1.12 1.3 1.5 1.5 1.18 2.1 2.1 2.1 2.2 2.2 2.0 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	21.1 19.3 19.4 20.8 21.7 22.4 23.7 23.1 21.0 19.0 16.4 17.5 18.0 17.7 17.3 15.1 17.2 17.5 18.0 17.7 17.5 18.0 17.7 17.5 18.0 17.7 17.5 18.0 17.7 17.5 18.0 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	19.6 17.8 17.7 19.1 19.0 21.8 21.0 21.8 21.0 19.2 18.6 16.1 11.2 10.8 13.1 14.6 14.1 19.9 10.6 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8	1.4 1.5 1.7 1.8 1.8 1.8 1.9 2.1 2.4 2.5 3.0 3.7 3.5 3.7 4.3 3.5 3.4 4.1 5.2 5.1 5.1 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	0.555 .554 .552 .587 .604 .621 .641 .645 .616 .619 .567 .572 .517 .477 .491 .503 .476 .494 .462 .500 .509 .509 .509 .509 .509 .509 .509
1989 1990 1991 1992 1993	9.3 9.0 8.1 8.8 9.4	5.9 5.7 5.0 5.9 6.6	2.3 2.1 1.8 2.1 2.4	3.6 3.6 3.3 3.8 4.2	3.4 3.3 3.0 2.9 2.8	17.3 16.7 15.4 16.1 16.8	11.0 10.6 9.6 10.9 11.8	6.3 6.1 5.8 5.3 4.9	.538 .539 .526 .547 .560

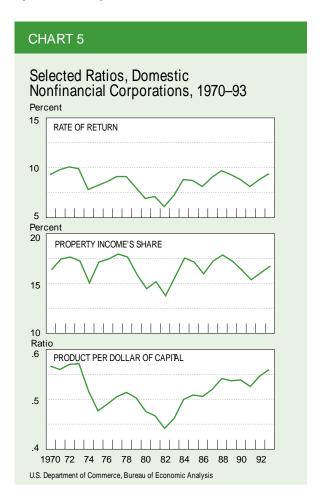
Source: Table 7.

income's share is related to the rate of return by a third ratio—the ratio of domestic income to the value of net reproducible assets, which measures the average annual product per dollar of capital.⁵

The three ratios are plotted for 1970–93 in chart 5 and are reported, along with related ratios, for 1959–93 in table 8. Property income's rate of return (column 1) and its share of domestic income (column 6) appear to have shifted to lower levels around 1970. The rate of return fell from an average of 12.8 percent in 1959–69 to an average of 8.6 percent in 1970–93; the share of domestic income fell from an average of 21.2 percent to an average of 16.6 percent.

In 1993, property income's rate of return and its share of domestic income continued to rebound from cyclical decreases in 1991 that took the ratios to their lowest levels in almost a decade. Higher profits were responsible for the rebounds in both ratios.

^{5.} It should be noted that this ratio is not appropriate for use in productivity analysis; for productivity analysis, the denominator should measure capital services, not capital stock.



^{4.} Rates of return can be calculated in many other ways; several are discussed in some detail in the box "Rates of Return" in Survey of Current Business 69 (April 1989): 8.

NOTE.—Columns 1–5 are percentages of the stock of net reproducible assets (structures, equipment, and inventories) valued at current replacement cost. Columns 6–8 are percentages of domestic income. Column 9 is calculated as the ratio of column 1 to column 1 or column 6.

NATIONAL INCOME AND PRODUCT ACCOUNTS

Selected NIPA Tables

New estimates in this issue: "Advance" estimates for the first quarter of 1994.

The selected set of national income and product accounts (NIPA) tables shown in this section presents quarterly estimates, which are updated monthly. (In most tables, the annual estimates are also shown.) These tables are available on the day of the gross domestic product (GDP) news release on printouts and diskettes on a subscription basis or from the Commerce Department's Economic Bulletin Board. For order information, write to the National Income and Wealth Division (BE-54), Bureau of Economic Analysis, Washington, DC 20230 or call (202) 606–5304.

Tables containing the estimates for 1929–87 are available in the two-volume set *National Income and Product Accounts of the United States*; see inside back cover for order information. For 1988–92, the complete official time series of NIPA estimates can be found as follows:

	1988	1989	1990-92
Most tables	,,	July 1992 Survey	Aug. 1993 Survey Sept. 1993 Survey
Tables 3.15-3.20 and 9.1-9.6 Tables 7.1, 7.2, and 8.1	" Sept. 1993 Survey	Sept. 1992 SURVEY Sept. 1993 SURVEY	"
Tables 7.3-7.12	Apr. 1993 Survey	Apr. 1993 Survey	"

Summary NIPA series back to 1929 are in the September 1993 Survey. Errata to published NIPA tables appear in the September 1992, April 1993, October 1993, and March 1994 issues. NIPA tables are also available, most beginning with 1929, on diskettes or magnetic tape. For more information on the presentation of the estimates, see "A Look at How Bea Presents the NIPA's" in the February 1994 Survey.

Note.—This section of the Survey is prepared by the National Income and Wealth Division and the Government Division.

Table 1.1.—Gross Domestic Product

[Billions of dollars]

Seconally adjusted at annual rates

	Seasonally adjusted at annual rates							
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	I
Gross domestic product	6,038.5	6,377.9	6,194.4	6,261.6	6,327.6	6,395.9	6,526.5	6,609.4
Personal consumption expenditures	4,139.9	4,391.8	4,256.2	4,296.2	4,359.9	4,419.1	4,492.0	4,549.4
Durable goods Nondurable goods Services		1,350.0	516.6 1,331.7 2,407.9	1,335.3	1,344.8	1,352.4	562.8 1,367.5 2,561.8	
Gross private domestic investment	796.5	891.7	833.3	874.1	874.1	884.0	934.5	978.0
Fixed investment	789.1 565.5 172.6	876.1 623.7 178.7	821.3 579.5 171.1	839.5 594.7 172.4	861.0 619.1 177.6	876.3 624.9 179.1	927.6 656.0 185.8	943.8 664.7 178.9
equipment Residential Change in business	392.9 223.6	445.0 252.4	408.3 241.8	422.2 244.9	441.6 241.9	445.8 251.3	470.2 271.6	485.8 279.1
inventories Nonfarm Farm	7.3 2.3 5.0	21.1	9.5	34.6 33.0 1.5	13.1 16.8 -3.7	7.7 22.6 –14.9	6.9 12.0 –5.0	34.2 33.7 .5
Net exports of goods and services	-29.6	-63.6	-38.8	-48.3	-65.1	-71.9	-69.1	-82.4
ExportsImports	640.5 670.1	661.7 725.3		651.3 699.6	660.0 725.0	653.2 725.1	682.4 751.5	668.8 751.2
Government purchases	1,131.8	1,158.1	1,143.8	1,139.7	1,158.6	1,164.8	1,169.1	1,164.4
Federal	448.8 313.8 135.0 683.0	443.4 303.4 140.1 714.6	452.4 315.7 136.7 691.4	442.7 304.8 137.9 697.0	447.5 307.6 140.0 711.1	443.6 301.9 141.7 721.2	440.0 299.2 140.7 729.2	434.0 292.8 141.2 730.3

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

Table 1.2.—Gross Domestic Product in Constant Dollars

	[Bi	illions of	1987 do	lars]				
				Seasonal	y adjuste	ed at ann	nual rates	 S
	1992	1993	1992		19	93		1994
			IV	_	=	III	IV	I
Gross domestic product	4,986.3	5,136.0	5,068.3	5,078.2	5,102.1	5,138.3	5,225.6	5,259.0
Personal consumption expenditures	3,341.8	3,453.2	3,397.2	3,403.8	3,432.7	3,469.6	3,506.9	3,539.8
Durable goods Nondurable goods Services	456.6 1,062.9 1,822.3	490.0 1,088.1 1,875.2	1,081.8	1,076.0	484.2 1,083.1 1,865.4	493.1 1,093.0 1,883.5		
Gross private domestic investment	732.9	820.3	763.0	803.0	803.6	813.4	861.4	896.7
Fixed investment	726.4 529.2 150.6	806.0 591.8 151.5	754.3 543.7 148.0	773.7 562.3 148.2	790.6 584.3 151.1	806.9 594.8 151.2		866.2 634.1 148.9
equipment Residential Change in business	378.6 197.1	440.2 214.2		414.1 211.4	433.2 206.2	443.6 212.1	470.0 227.2	485.1 232.2
inventories Nonfarm	6.5 2.7 3.8	14.3 19.7 –5.3	8.7 7.5 1.2	29.3 29.3 0	13.0 17.1 –4.1	6.5 19.4 –12.9	8.5 12.9 -4.4	30.5 30.7 2
Net exports of goods and services	-33.6	-76.5	-38.8	-59.9	-75.2	-86.3	-84.5	-104.2
ExportsImports	578.0 611.6	598.3 674.8	591.6 630.3	588.0 647.9	593.2 668.4	591.9 678.2	620.0 704.5	605.0 709.3
Government purchases	945.2	938.9	946.9	931.3	941.1	941.7	941.7	926.8
Federal National defense Nondefense State and local	373.0 261.2 111.8 572.2	354.9 242.4 112.5 584.0	373.7 261.3 112.4 573.2	357.6 246.0 111.5 573.7	359.4 246.4 113.0 581.6	353.7 240.1 113.7 588.0	349.0 237.1 111.8 592.8	338.0 228.4 109.6 588.9

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

Table 1.3.—Gross Domestic Product by Major Type of Product

			5	Seasonal	y adjuste	ed at ann	nual rates	3
	1992	1993	1992		19	93		1994
			IV	ı	II	III	IV	I
Gross domestic product	6,038.5	6,377.9	6,194.4	6,261.6	6,327.6	6,395.9	6,526.5	6,609.4
Final sales of domestic product	6,031.2					6,388.2 7.7		6,575.2 34.2
Goods ¹		2,421.9						
Final sales Change in business inventories	2,305.5 7.3	2,406.3 15.6				2,401.7 7.7		
Durable goods Final sales Change in business inventories		1,047.9 1,037.0 10.9	1,008.3	1,003.5	1,037.8	1,032.9	1,073.7	1,087.9
Nondurable goods Final sales Change in business inventories	1,334.9	1,374.0 1,369.3	1,370.5 1,357.3	1,378.9 1,359.3	1,367.5 1,357.1	1,361.6	1,388.0 1,392.1	1,401.7 1,397.6
Services 1		3,410.5						
Structures	504.6		520.8					

^{1.} Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services.

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

[Billions of dollars]

Gross domestic product	6,038.5	6,377.9	6,194.4	6,261.6	6,327.6	6,395.9	6,526.5	6,609.4
Less: Exports of goods and servicesPlus: Imports of goods and	640.5	661.7						668.8
services	670.1	725.3	693.5	699.6	725.0	725.1	751.5	751.2
Equals: Gross domestic purchases ¹	6,068.2	6,441.5	6,233.2	6,309.9	6,392.7	6,467.8	6,595.6	6,691.8
Less: Change in business inventories	7.3	15.6	12.0	34.6	13.1	7.7	6.9	34.2
Equals: Final sales to domestic purchasers 2	6,060.8	6,425.9	6,221.2	6,275.4	6,379.5	6,460.1	6,588.7	6,657.6

^{1.} Purchases by U.S. residents of goods and services wherever produced. 2. Final sales to U.S. residents of goods and services wherever produced.

Table 1.7.—Gross Domestic Product by Sector

[Billions of dollars]

Gross domestic product	6,038.5	6,377.9	6,194.4	6,261.6	6,327.6	6,395.9	6,526.5	6,609.4
Business	5,114.4	5,404.5	5,254.4	5,303.0	5,359.0	5,416.6	5,539.5	5,607.9
Nonfarm		82.4	4,639.6 499.1 83.6	4,674.0 510.8 83.8	4,751.0 512.7 83.3	4,812.8 517.4 73.2	4,926.4 522.8 89.2	4,967.7 541.0 98.1
Households and institutions	267.0	286.3	275.7	280.3	284.7	288.1	292.3	297.8
Private households Nonprofit institutions	10.1 256.9	11.1 275.2			11.0 273.7	11.3 276.8	11.5 280.8	
General government	657.1	687.1	664.3	678.4	683.9	691.2	694.7	703.7
FederalState and local	199.8 457.3	207.0 480.1	198.7 465.6		206.2 477.7	208.3 483.0	207.1 487.6	210.8 492.9
Addendum: Gross domestic business product less housing	4,608.9							

Table 1.4.—Gross Domestic Product by Major Type of Product in Constant Dollars

[Billions of 1987 dollars]

			5	Seasonal	y adjuste	ed at ann	nual rates	3
	1992	1993	1992		19	93		1994
			IV	1	II	III	IV	ı
Gross domestic product	4,986.3	5,136.0	5,068.3	5,078.2	5,102.1	5,138.3	5,225.6	5,259.0
Final sales of domestic product	4,979.8 6.5	5,121.7 14.3						
Goods 1	2,005.7	2,083.8	2,057.7	2,060.2	2,069.1	2,074.9	2,130.9	2,161.0
Final salesChange in business inventories	1,999.2 6.5	2,069.5 14.3						
Durable goods Final sales Change in business inventories	914.0 911.7 2.4	970.6	942.6	951.2 938.2 13.0	964.9		1,022.2 1,010.5	1,020.9
Nondurable goods	1,091.7 1,087.6	1,102.6 1,098.9	1,116.0	1,109.0 1,092.7	1,100.2 1,091.1	1,092.4 1,099.8	1,108.7	1,113.3 1,109.7
Services 1		2,586.4						
Structures	445.8			452.7				

^{1.} Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services.

Table 1.6.—Relation of Gross Domestic Product, Gross Domestic Purchases, and Final Sales to Domestic Purchasers in Constant **Dollars**

[Billions of 1987 dollars]

Gross domestic product	4,986.3	5,136.0	5,068.3	5,078.2	5,102.1	5,138.3	5,225.6	5,259.0
Less: Exports of goods and services	578.0 611.6						620.0 704.5	
Equals: Gross domestic purchases 1								5,363.3
Less: Change in business inventories	6.5	14.3	8.7	29.3	13.0	6.5	8.5	30.5
Equals: Final sales to domestic purchasers 2	5,013.4	5,198.2	5,098.4	5,108.8	5,164.3	5,218.1	5,301.6	5,332.8

^{1.} Purchases by U.S. residents of goods and services wherever produced. 2. Final sales to U.S. residents of goods and services wherever produced.

Table 1.8.—Gross Domestic Product by Sector in Constant Dollars [Billions of 1987 dollars]

Gross domestic product	4,986.3	5,136.0	5,068.3	5,078.2	5,102.1	5,138.3	5,225.6	5,259.0
Business	4,267.6	4,408.0	4,346.2	4,353.9	4,374.1	4,408.4	4,495.4	4,527.3
Nonfarm Nonfarm less housing Housing Farm Statistical discrepancy		3,915.8 405.3 74.4	3,839.3 400.7 79.7	78.2	3,883.7 404.4 76.2	3,924.0 406.1 67.5	4,010.6 408.1 75.7	4,036.6 410.0 79.7
Households and institutions	209.1	217.0	212.4	213.5	216.8	218.4	219.4	221.1
Private households Nonprofit institutions	8.8 200.4							
General government	509.5	511.1	509.8	510.8	511.3	511.5	510.8	510.6
FederalState and local	150.5 359.0	147.2 363.9	148.8 361.0				145.1 365.7	143.9 366.7
Addendum: Gross domestic business product less housing	3,864.9							

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

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

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

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

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

			5	Seasonal	y adjuste	ed at ann	nual rates	3
	1992	1993	1992		19	93		1994
			IV	ı	II	III	IV	ı
Gross domestic product	6,038.5	6,377.9	6,194.4	6,261.6	6,327.6	6,395.9	6,526.5	6,609.4
Plus: Receipts of factor income from the rest of the world ¹	129.2	131.7	122.3	122.8	131.9	135.1	137.2	
income to the rest of the world 2	121.9	131.6	124.8	122.4	132.3	128.7	142.8	
Equals: Gross national product	6,045.8	6,378.1	6,191.9	6,262.1	6,327.1	6,402.3	6,520.9	
Less: Consumption of fixed capital	657.9	671.3	648.0	663.2	663.3	679.7	679.0	734.5
consumption allowances Less: Capital consumption	605.7	630.0	612.1	622.3	624.8	636.3	636.4	664.9
adjustment	-52.1	-41.3	-36.0	-40.9	-38.4	-43.4	-42.6	-69.5
Equals: Net national product	5,387.9	5,706.8	5,543.9	5,598.8	5,663.9	5,722.6	5,841.9	
Less: Indirect business tax and nontax liability Business transfer	502.8	530.5	515.7	515.6	526.2	532.4	547.7	549.7
payments Statistical discrepancy Plus: Subsidies less current	27.6 23.6	27.9 15.2	28.1 32.1	27.0 34.4	27.8 12.0	28.4 13.3	28.3 1.2	28.3
surplus of government enterprises	2.7	7.0	7.7	17.1	6.1	-5.3	10.3	7.2
Equals: National income	4,836.6	5,140.3	4,975.8	5,038.9	5,104.0	5,143.2	5,275.0	
Less: Corporate profits with inventory valuation and capital consumption								
adjustments Net interest Contributions for	407.2 442.0	466.6 445.6	439.5 447.7	432.1 450.1	458.1 443.2	468.5 444.6	507.9 444.5	
social insurance Wage accruals less	555.6	585.3	564.6	568.9	585.9	590.5	595.9	613.7
disbursements Plus: Personal interest income	-20.0 694.3	20.0 695.2	-80.0 694.5	80.0 695.4	0 693.1	0 695.7	0 696.7	0 700.2
Personal dividend incomeGovernment transfer	140.4	158.3	152.3	157.0	157.8	159.0	159.4	160.7
payments to persons	836.8	890.2	855.4	873.0	883.7	896.4	907.5	922.6
payments to persons	21.6	21.9	22.0	21.4	21.8	22.1	22.3	22.0
Equals: Personal income	5,144.9	5,388.3	5,328.3	5,254.7	5,373.2	5,412.7	5,512.7	5,578.1
Addenda: Net domestic product Domestic income Gross national income	5,380.7 4,829.4 6,022.2	5,706.6 5,140.1 6,362.9	4,978.3	5,038.4	5,104.5	5,136.8		

^{1.} Consists largely of receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.

Table 1.10.—Relation of Gross Domestic Product, Gross National Product, Net National Product, and National Income in Constant Dollars

[Billions of 1987 dollars]

				Seasonal	ly adjuste	ed at anr	nual rates	3
	1992	1993	1992		19	93		1994
			IV	- 1	II	III	IV	I
Gross domestic product	4,986.3	5,136.0	5,068.3	5,078.2	5,102.1	5,138.3	5,225.6	5,259.0
Plus: Receipts of factor income from the rest of the world ¹	105.5 97.7							
Equals: Gross national product	4,994.0	5,138.6	5,068.4	5,080.7	5,104.1	5,145.8	5,223.7	
Less: Consumption of fixed capital	595.0	598.6	584.0	595.0	592.5	604.4	602.4	648.9
Equals: Net national product	4,399.0	4,540.0	4,484.4	4,485.8	4,511.6	4,541.4	4,621.3	
Less: Indirect business tax and nontax liability plus business transfer payments less subsidies plus current surplus of government enterprises Statistical discrepancy	402.0 19.7							428.0
Equals: National income	3,977.3	4,110.1	4,048.6	4,045.9	4,087.0	4,111.4	4,196.0	
Addenda: Net domestic product Domestic income Gross national income	3,969.5	4,107.5	4.048.5	4,043.4	4.085.0	4,103.9	4,623.2 4,197.8 5,222.7	

^{1.} Consists largely of receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.

Table 1.11.—Command-Basis Gross National Product in Constant Dollars

[Billions of 1987 dollars]

Gross national product	4,994.0	5,138.6	5,068.4	5,080.7	5,104.1	5,145.8	5,223.7	
Less: Exports of goods and services and receipts of factor income from the rest	200 5	700.0	000.4	000.4	000.4	200.0	700.5	
of the world	683.5 689.3	703.0 719.5	690.4 692.4				728.5 746.8	
Equals: Command-basis gross national product	4,999.8	5,155.0	5,070.3	5,094.8	5,118.4	5,164.9	5,241.9	
$\begin{tabular}{lll} \begin{tabular}{ll} \be$	100.9	102.3	100.3	102.0	102.1	102.7	102.5	

^{1.} Exports of goods and services and receipts of factor income deflated by the implicit price deflator for parts of goods and services and navments of factor income

^{2.} Consists largely of payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.

Consists largely of payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.

imports of goods and services and payments of factor income.

2. Ratio of the implicit price deflator for exports of goods and services and receipts of factor income to the corresponding implicit price deflator for imports with the decimal point shifted two places to the right.

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

Table 1.14.—National Income by Type of Income

[Simono or dollaro]								
			8	Seasonal	y adjuste	ed at ann	nual rates	
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	I
National income	4,836.6	5,140.3	4,975.8	5,038.9	5,104.0	5,143.2	5,275.0	
Compensation of employees	3,582.0	3,772.2	3,658.6	3,705.1	3,750.6	3,793.9	3,839.2	3,907.2
Wages and salaries Government Other	2,953.1 567.5 2,385.6	3,100.5 589.7 2,510.8	3,015.8 574.2 2,441.6	584.1	3,082.7 586.3 2,496.3	3,115.4 592.8 2,522.6	3,149.6 595.4 2,554.2	3,200.7 602.0 2,598.8
Supplements to wages and salaries Employer contributions	629.0	671.7	642.8	650.7	668.0	678.5	689.6	706.5
for social insurance Other labor income	306.3 322.7	321.0 350.7	311.3 331.5	312.2 338.5	321.4 346.6	323.8 354.7	326.7 362.9	334.5 371.9
Proprietors' income with IVA and CCAdj	414.3	443.2	431.2	444.1	439.4	422.5	467.0	475.6
FarmProprietors' income with	43.7	46.0	47.6	55.7	47.0	24.8	56.4	60.0
IVACCAdj	51.2 -7.5	53.1 -7.1	54.8 -7.2	62.8 -7.1	54.1 -7.1	32.1 -7.3	63.5 -7.0	67.0 -7.0
Nonfarm Proprietors' income IVA	370.6 358.0 5	397.3 385.3 -1.0	383.6 362.2 7.8	388.4 376.4 -1.6	392.4 380.3 -1.2	397.6 385.4 4	410.6 399.2 9	415.6 405.2 -1.0
CCAdj	13.1	13.0	13.7	13.7	13.3	12.7	12.3	11.5
Rental income of persons with CCAdj	-8.9	12.6	-1.2	7.5	12.7	13.7	16.4	3.5
Rental income of persons CCAdj	57.4 -66.3	75.2 –62.6	57.4 -58.6	71.3 –63.8	73.2 -60.4	77.2 -63.5	79.0 -62.6	89.1 -85.6
Corporate profits with IVA and CCAdj	407.2	466.6	439.5	432.1	458.1	468.5	507.9	
Corporate profits with IVA Profits before tax Profits tax liability Profits after tax Dividends Undistributed profits IVA	390.1 395.4 146.3 249.1 150.5 98.6 -5.3	442.3 449.4 174.0 275.4 169.0 106.4 -7.1	414.8 409.9 155.0 254.9 162.9 92.0 4.9	407.0 419.8 160.9 258.9 167.5 91.4 –12.7	433.4 445.6 173.3 272.3 168.5 103.9 –12.2	444.8 443.8 169.5 274.3 169.7 104.6 1.0	295.9 170.3	171.7
CCAdj	17.1	24.3	24.7	25.1	24.7	23.8	23.9	20.6
Net interest	442.0	445.6	447.7	450.1	443.2	444.6	444.5	
Addenda: Corporate profits after tax with IVA and CCAdj Net cash flow with IVA and CAdj Undistributed profits	260.9 507.0	292.6 532.4	284.5 518.2	271.2 505.9	284.8 521.5	299.1 543.3	559.0	
with IVA and CCAdj Consumption of fixed capital Less: IVA Equals: Net cash flow	396.6 -5.3 512.3	123.6 408.8 -7.1 539.5	121.7 396.5 4.9 513.2	103.7 402.2 -12.7 518.7	116.3 405.2 -12.2 533.7	129.3 414.0 1.0 542.3	145.1 413.9 -4.3 563.3	432.8 -17.7

Table 1.16.—Gross Domestic Product of Corporate Business in Current Dollars and Gross Domestic Product of Nonfinancial Corporate Business in Current and Constant Dollars

Corporate Business	1		I					
				Seasonal			nual rates	
	1992	1993	1992		19	93		1994
			IV	ı	II	III	IV	1
				Billions o	of dollars			
Gross domestic product of corporate business	3,571.7	3,784.1	3,668.8	3,678.4	3,759.2	3,803.8	3,895.2	
Consumption of fixed capital	396.6	408.8	396.5	402.2	405.2	414.0	413.9	432.8
Net domestic product	3,175.1	3,375.3	3,272.3	3,276.2	3,354.0	3,389.8	3,481.3	
Indirect business tax and nontax liability plus business transfer payments less subsidies	359.6	378.4	368.3	365.1	377.2	380.4	391.2	392.6
Domestic income	2,815.5	2,996.9	2,904.0	2,911.1	2,976.8	3,009.4	3,090.1	
Compensation of employees	2,337.4 1,940.9	2,460.2 2,038.4	2,390.3 1,983.9		2,448.7 2,029.0	2,475.7 2,048.7		2,556.5 2,109.8
and salaries Corporate profits with	396.5	421.8	406.3	405.3	419.7	427.0	435.0	446.7
IVA and CCAdj Profits before tax Profits tax liability Profits after tax Dividends	344.9 333.2 146.3 186.9 127.3	407.9 390.7 174.0 216.6 155.0	384.8 355.2 155.0 200.2 147.4	373.0 360.7 160.9 199.8 156.7	400.0 387.5 173.3 214.3 152.9	405.8 381.1 169.5 211.6 152.5	192.5 240.8	
Undistributed profits	59.6	61.6	52.8	43.2	61.4	59.1	82.9	
IVA CCAdj Net interest	-5.3 17.1 133.2	-7.1 24.3 128.7	4.9 24.7 128.9	-12.7 25.1 129.9	-12.2 24.7 128.1	1.0 23.8 127.9	-4.3 23.9	-17.7 20.6
Gross domestic product of financial corporate business	328.3	366.8	337.2	346.7	363.3	371.6	385.8	
Gross domestic product of nonfinancial corporate business	3,243.4	3,417.3	3,331.6	3,331.7	3,395.9	3,432.2	3,509.4	
Consumption of fixed capital	352.7	362.2	351.7	356.8	359.0	367.0	366.0	
Net domestic product	2,890.7	3,055.1	2,979.9	2,975.0	3,036.8	3,065.1	3,143.3	
Indirect business tax and nontax liability plus business transfer payments less subsidies	327.7	345.2	336.0	333.0	344.0	347.0	356.9	358.3
Domestic income	2,563.1		2,643.9		2,692.8			330.3
Compensation of employeesWages and salaries	2,149.5	2,255.6 1,866.4	2,195.9 1,820.0	2,215.0		2,267.1	2,295.7	2,336.6 1,925.5
Supplements to wages and salaries Corporate profits with IVA and CCAdj	367.0	389.2	375.9	374.7	387.4	393.8	400.9	411.2
Profits before tax Profits tax liability Profits after tax Dividends	278.3 255.1 98.2 156.9 105.2	320.5 291.6 117.0 174.7 126.3	314.1 273.2 105.8 167.4 120.7	292.1 268.4 106.4 162.0 127.4	315.0 291.2 117.6 173.6 125.4	318.2 281.8 112.5 169.3 124.0	325.2 131.4 193.7	
Undistributed profits IVA CCAdj Net interest	51.7 -5.3 28.5 135.3	48.4 -7.1 35.9 133.7	46.7 4.9 36.0 133.9	34.6 -12.7 36.4 134.9	48.2 -12.2 36.0 133.1	45.3 1.0 35.4 132.8	65.3 -4.3 35.9	-17.7 33.5
Net interest	130.5	100.7			987 dolla		104.0	
Gross domestic product of nonfinancial corporate business	2,822.3	2,936.3	2,887.4	2,867.5	2,916.6	2,948.9	3,012.1	
Consumption of fixed capital Net domestic product	318.4	324.2 2,612.1	317.2	321.0 2,546.5	321.4 2,595.2	327.9 2,620.9	326.5	342.3
payments less subsidies Domestic income	258.7 2,245.2	270.2 2,341.9	264.5 2,305.7	265.7 2,280.8	268.4 2,326.8	271.6 2,349.3	275.1 2,410.5	277.8

Table 2.1.—Personal Income and Its Disposition

		פווטווטן	ons or dollarsj						
			9	Seasonal	y adjuste	ed at ann	nual rates	3	
	1992	1993	1992		19	93		1994	
			IV	ı	II	III	IV	I	
Personal income	5,144.9	5,388.3	5,328.3	5,254.7	5,373.2	5,412.7	5,512.7	5,578.1	
Wage and salary disbursements Commodity-producing	2,973.1	3,080.5	3,095.8	2,974.3	3,082.7	3,115.4	3,149.6	3,200.7	
industries Manufacturing	756.5 577.6	763.6 577.3	783.3 602.0	740.7 559.7	765.1 580.3	769.4 581.5	779.3 587.8	789.5 595.8	
Distributive industries	682.0	706.6	709.9	682.9	709.1	714.4	720.1	733.5	
Service industries Government	967.0 567.5	1,020.6 589.7	1,028.4 574.2	966.6 584.1	1,022.2 586.3	1,038.8 592.8	1,054.7 595.4	1,075.8 602.0	
Other labor income	322.7	350.7	331.5	338.5	346.6	354.7	362.9	371.9	
Proprietors' income with inventory valuation and capital consumption adjustments	414.3	443.2	431.2	444.1	439.4	422.5	467.0	475.6	
Farm Nonfarm	43.7 370.6	46.0 397.3	47.6 383.6	55.7 388.4	47.0 392.4	24.8 397.6	56.4 410.6	60.0 415.6	
Rental income of persons with capital consumption									
adjustment	-8.9	12.6	-1.2	7.5	12.7	13.7	16.4	3.5	
Personal dividend income	140.4	158.3	152.3	157.0 695.4	157.8	159.0	159.4	160.7	
Personal interest income Transfer payments to	694.3	695.2	694.5	695.4	693.1	695.7	696.7	700.2	
personsOld-age, survivors, disability, and health	858.4	912.1	877.4	894.4	905.5	918.5	929.8	944.6	
insurance benefits Government unemployment	413.9	438.4	420.8	433.1	435.0	439.4	446.1	457.6	
insurance benefits Veterans benefits Government employees	39.2 19.3	34.1 20.0	37.8 19.0	34.5 20.0	34.4 20.2	35.1 20.1	32.3 19.6	26.9 19.9	
retirement benefits Other transfer payments Aid to families with	108.3 277.7	115.5 304.1	110.2 289.7	112.8 294.0	114.6 301.3	116.4 307.5	118.3 313.5	119.0 321.2	
dependent children Other	23.3 254.4	23.9 280.2	23.5 266.2	23.6 270.4	24.1 277.2	24.0 283.5	24.1 289.4	23.9 297.3	
Less: Personal contributions for social insurance	249.3	264.3	253.3	256.6	264.5	266.8	269.2	279.1	
Less: Personal tax and									
nontax payments	644.8	681.6	670.7	657.1	681.0	689.0	699.2	715.7	
Equals: Disposable personal income	4,500.2	4,706.7	4,657.6	4,597.5	4,692.2	4,723.7	4,813.5	4,862.4	
Less: Personal outlays	4,261.5	4,516.8	4,377.9	4,419.7	4,483.6	4,544.0	4,620.1	4,680.4	
Personal consumption expenditures Interest paid by persons Personal transfer payments	4,139.9 111.1	4,391.8 114.0	4,256.2 111.3	4,296.2 112.5	4,359.9 112.7	4,419.1 114.1	4,492.0 116.8	4,549.4 119.3	
to rest of the world (net)	10.4	11.0	10.5	11.0	11.0	10.8	11.2	11.7	
Equals: Personal saving	238.7	189.9	279.7	177.9	208.7	179.7	193.4	182.0	
Addenda: Disposable personal income: Total, billions of 1987									
dollars Per capita:		3,700.9		3,642.6			3,757.9	3,783.3	
Current dollars	17,615 14,219	18,225 14,330	18,153 14,490	17,876 14,163	18,196 14,326	18,265 14,341	18,561 14,491	18,705 14,554	
millions)	255.5	258.3	256.6	257.2	257.9	258.6	259.3	259.9	
percentage of disposable personal income	5.3	4.0	6.0	3.9	4.4	3.8	4.0	3.7	
NOTE Percent changes from pre	oodina na	ried for a	looted ite	ma in thia	table are	ahoun in	table 0.1		

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

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

[Billions of dollars]

			S	Seasonall	y adjuste	ed at ann	nual rates	3
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	I
Personal consumption expenditures	/ 130 Q	4,391.8	1 256 2	1 206 2	/ 350 Q	1 110 1	4.492.0	4,549.4
expenditures	4,133.3	4,331.0	4,230.2	4,230.2	4,333.3	4,413.1	4,432.0	4,343.4
Durable goods	497.3	537.9	516.6	515.3	531.6	541.9	562.8	577.4
Motor vehicles and parts Furniture and household	204.3	222.3	213.7	211.7	220.8	221.7	235.1	250.0
equipment Other	194.5 98.5			203.3 100.3		214.0 106.2	220.8 106.9	219.8 107.6
Nondurable goods	1,300.9	1,350.0	1,331.7	1,335.3	1,344.8	1,352.4	1,367.5	1,376.1
Food	633.7 228.2 103.4 13.8 321.8	237.3 103.7 15.1	236.1 105.2 13.9		654.1 235.2 103.6 14.9 337.2	660.0 238.2 102.4 15.4 336.4	102.9	
Services	2,341.6	2,503.9	2,407.9	2,445.5	2,483.4	2,524.8	2,561.8	2,595.9
Housing Household operation Electricity and gas Other household	600.0 234.4 105.8		245.0	617.6 245.7 111.1	625.1 246.7 109.8	631.1 255.2 116.4	637.8 257.3 116.2	647.5 256.5 116.8
operation Transportation Medical care Other	128.7 155.4 628.4 723.5	170.0	162.4 646.9	134.5 166.3 662.2 753.8	136.9 169.1 675.4 767.1	138.7 170.9 686.9 780.7	141.1 173.8 699.2 793.7	139.6 176.7 710.0 805.2

Table 2.3.—Personal Consumption Expenditures by Major Type of Product in Constant Dollars

[Billions of 1987 dollars]

Personal consumption expenditures	3,341.8	3,453.2	3,397.2	3,403.8	3,432.7	3,469.6	3,506.9	3,539.8
Durable goods	456.6	490.0	473.4	471.9	484.2	493.1	510.9	522.9
Motor vehicles and parts Furniture and household	182.3							
equipment Other	194.8 79.5							
Nondurable goods	1,062.9	1,088.1	1,081.8	1,076.0	1,083.1	1,093.0	1,100.2	1,106.7
Food	520.5 193.7 83.9 11.9 252.9	199.5 84.9 13.0	200.0 84.4 11.9	194.8 83.9 12.9	197.8 84.1 12.6	200.6 86.2 13.2	204.6 85.4 13.1	205.5 84.6 14.5
Services	1,822.3	1,875.2	1,842.0	1,855.9	1,865.4	1,883.5	1,895.8	1,910.2
Housing Household operation Electricity and gas Other household	484.2 211.7 95.3	218.9 99.0	216.6 98.5	217.9 99.1	215.6 96.2	220.8 100.6	221.3 100.3	222.8 101.2
operation Transportation	116.4 122.7							
Medical careOther	449.2 554.4	463.4	453.2	458.0	461.1	465.1	469.3	472.7
Outer	554.4	314.0	301.7	300.0	37 1.0	317.5	301.3	300.2

Table 3.2.—Federal Government Receipts and Expenditures

			5	Seasonal	ly adjuste	ed at anr	nual rates	3
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	I
Receipts	1,183.0	1,269.5	1,221.1	1,218.4	1,268.0	1,275.9	1,315.7	
Personal tax and nontax receipts	490.8 478.0 11.3 1.4	521.3 506.7 13.0 1.6	511.8 498.3 12.1 1.4	502.1 489.1 11.6 1.5	520.7 506.0 13.2 1.5	527.1 512.7 12.8 1.5	535.1 519.0 14.4 1.7	549.0 532.5 14.6 1.9
Corporate profits tax accruals Federal Reserve banks Other	120.2 16.8 103.5	143.1 15.3 127.7	127.1 15.8 111.3	132.4 15.7 116.7	142.4 15.3 127.2	139.3 15.1 124.2	158.1 15.3 142.8	
Indirect business tax and nontax accruals	81.3 46.8 18.3 16.2	87.3 50.3 19.8 17.2	83.5 46.5 19.1 18.0	81.5 47.4 18.8 15.3	86.2 48.5 20.4 17.3	86.7 48.8 20.0 17.8	95.0 56.6 20.1 18.3	92.9 54.4 19.6 18.9
Contributions for social insurance	490.7	517.8	498.7	502.3	518.7	522.8	527.5	544.6
Expenditures	1,459.3	1,495.9	1,485.3	1,481.9	1,490.6	1,488.5	1,522.6	1,497.1
Purchases National defense Nondefense	448.8 313.8 135.0	443.4 303.4 140.1	452.4 315.7 136.7	442.7 304.8 137.9	447.5 307.6 140.0	443.6 301.9 141.7	440.0 299.2 140.7	434.0 292.8 141.2
Transfer payments (net) To persons To rest of the world (net)	624.5 608.2 16.3	651.9 636.1 15.8	641.7 617.1 24.6	642.0 628.9 13.1	645.6 632.7 12.9	652.8 639.1 13.7	667.2 643.7 23.5	665.2 652.3 12.8
Grants-in-aid to State and local governments	171.4	186.2	176.7	176.1	182.8	188.6	197.4	187.9
Net interest paid Interest paid To persons and business To rest of the world (net) Less: Interest received by government	187.1 219.9 178.7 41.2 32.8	180.8 217.5 175.0 42.5 36.7	181.3 216.4 175.0 41.4 35.1	178.3 214.1 172.4 41.6 35.7	182.5 219.0 176.9 42.1 36.5	182.2 219.9 176.7 43.2 37.7	180.4 217.2 174.0 43.2 36.7	174.8 212.4 169.1 43.2 37.5
Subsidies less current surplus of government enterprises . Subsidies	27.5 31.7 4.1	33.6 36.2 2.7	33.2 36.1 2.9	42.9 43.7	32.3 35.9 3.6	21.4 24.8 3.4	37.7 40.5 2.8	35.1 37.7 2.5
Less: Wage accruals less disbursements	0	0	0	0	0	0	0	0
Surplus or deficit (–), national income and product accounts	-276.3	-226.4	-264.2	-263.5	-222.6	-212.7	-207.0	
Social insurance funds Other	32.2 -308.5	41.3 -267.8	36.4 -300.6	30.2 -293.7	45.2 -267.8	44.7 -257.4	45.3 -252.3	57.2

Table 3.3.—State and Local Government Receipts and Expenditures

[Billions of dollars]

		Billions	of dollars	6]				
			S	Seasonall	y adjuste	ed at ann	ual rates	;
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	I
Receipts	837.8	888.1	861.6	860.2	881.0	894.2	917.0	
Personal tax and nontax receipts	154.0 116.7 18.3 19.0	160.3 120.8 19.7 19.9	158.8 120.8 18.8 19.2	155.0 116.4 19.2 19.5	160.3 121.0 19.5 19.8	162.0 122.1 19.8 20.0	164.1 123.6 20.2 20.3	166.6 125.5 20.5 20.6
Corporate profits tax accruals	26.0	31.0	27.9	28.5	30.8	30.1	34.4	
Indirect business tax and nontax accruals	421.5 200.8 177.7 43.0	443.1 211.7 186.9 44.5	432.2 205.7 181.4 45.1	434.1 206.5 183.9 43.6	440.0 209.3 186.5 44.3	445.7 212.8 187.9 45.0	452.7 218.2 189.3 45.2	456.7 220.2 190.8 45.7
Contributions for social insurance	64.9	67.4	65.9	66.5	67.2	67.7	68.3	69.0
Federal grants-in-aid	171.4	186.2	176.7	176.1	182.8	188.6	197.4	187.9
Expenditures	830.6	886.2	848.0	859.4	880.0	895.9	909.7	916.7
Purchases	683.0 457.3 225.7	714.6 480.1 234.5	691.4 465.6 225.7	697.0 472.1 224.9	711.1 477.7 233.4	721.2 483.0 238.3	729.2 487.6 241.6	730.3 492.9 237.4
Transfer payments to persons	228.6	254.1	238.4	244.1	251.0	257.2	263.9	270.2
Net interest paid Interest paid Less: Interest received by	-46.0 66.1	-45.3 68.7	-45.7 67.1	-45.5 67.7	-45.3 68.4	-45.2 69.0	-45.0 69.6	-44.9 70.2
government	112.1	113.9	112.8	113.2	113.7	114.2	114.6	115.1
Less: Dividends received by government	10.2	10.7	10.5	10.5	10.7	10.8	10.9	11.0
Subsidies less current surplus of government enterprises . Subsidies	-24.8 .4	-26.5 .5	-25.5 .4	-25.8 .4	-26.2 .5	-26.7 .5	-27.4 .5	-27.9 .5
government enterprises Less: Wage accruals less	25.2	27.0	25.9	26.2	26.6	27.1	27.9	28.4
disbursements	0	0	0	0	0	0	0	0
Surplus or deficit (–), national income and product accounts	7.2	1.8	13.5	.8	1.1	-1.7	7.2	
Social insurance funds Other	59.4 52.2	58.6 -56.7	59.6 -46.0	59.0 -58.2	58.9 -57.8	58.5 60.2	57.9 50.7	57.2

Table 3.7B.—Government Purchases by Type

		•		•				
			5	Seasonal	y adjuste	ed at anr	nual rates	3
	1992	1993	1992			1994		
			IV	I	II	III	IV	ı
Government purchases	1,131.8	1,158.1	1,143.8	1,139.7	1,158.6	1,164.8	1,169.1	1,164.4
Federal	448.8	443.4	452.4	442.7	447.5	443.6	440.0	434.0
National defense Durable goods Nondurable goods Services Compensation of	313.8 79.0 10.3 218.9	303.4 70.6 9.4 218.1	315.7 78.9 9.8 221.0	304.8 74.4 9.0 216.4	307.6 75.3 10.2 217.0	301.9 67.4 9.3 219.4		292.8 62.2 8.0 217.5
employees	135.7 90.7 45.0 83.2 5.6	137.0 91.0 46.0 81.2 5.3	133.7 89.2 44.5 87.3 6.0	137.2 91.5 45.7 79.1 5.0	136.4 91.2 45.2 80.6 5.0	137.9 90.7 47.2 81.5 5.8	136.3 90.5 45.8 83.5 5.2	138.1 91.6 46.5 79.4 5.2
Nondefense Durable goods Nondurable goods Commodity Credit Corporation	135.0 7.1 8.6	140.1 7.5 7.2	136.7 7.4 9.3	7.3 7.8	140.0 7.9 7.6	7.3 7.3	7.3 6.3	141.2 7.0 6.4
inventory change Other nondurables Services Compensation of	7 9.2 109.0	3 7.5 114.6	0 9.3 109.7	4 8.1 112.2	3 7.9 114.3	2 7.5 116.1	2 6.5 115.6	2 6.6 116.9
employees Other services Structures	64.1 44.9 10.3	70.0 44.6 10.8	65.0 44.7 10.3	69.0 43.2 10.5	69.8 44.6 10.1	70.4 45.7 11.0		72.6 44.3 10.9
State and local	683.0	714.6	691.4	697.0	711.1	721.2	729.2	730.3
Durable goods	37.6 60.2 485.3	39.3 62.2 506.9	38.2 60.7 493.5	38.7 61.7 499.6	39.2 63.0 504.4	39.7 62.3 509.9	513.9	519.9
employees Other services Structures	457.3 28.0 99.8	480.1 26.8 106.2	465.6 27.9 99.0	472.1 27.5 97.1	477.7 26.6 104.5	483.0 26.9 109.4	487.6 26.3 113.6	492.9 27.0 107.0

Table 3.10.—National Defense Purchases

[Billions of dollars]

		י פווטווטן	or dollars	2]				
National defense purchases	313.8	303.4	315.7	304.8	307.6	301.9	299.2	292.8
Durable goods	79.0	70.6	78.9	74.4	75.3	67.4	65.1	62.2
Military equipment	73.2 22.7 14.3 12.1 3.8 6.6 13.6 5.8	66.3 20.9 12.1 10.7 3.0 6.3 13.3 4.3	72.6 21.9 14.2 11.6 3.9 7.1 14.0 6.3	70.5 20.8 13.5 11.1 4.2 6.6 14.2 3.9	70.5 22.5 12.9 11.3 3.2 6.8 13.9 4.8	63.1 20.1 11.6 10.0 2.3 6.4 12.6 4.3	60.9 20.1 10.4 10.1 2.1 5.6 12.5 4.2	58.2 19.3 10.4 9.1 2.2 5.5 11.8 4.0
Nondurable goods	10.3	9.4	9.8	9.0	10.2	9.3	9.1	8.0
Petroleum products Ammunition Other nondurable goods	3.5 3.4 3.4	3.2 3.6 2.7	3.0 3.6 3.2	3.0 3.5 2.5	3.4 4.0 2.7	3.3 3.1 2.9	2.9 3.8 2.5	2.5 3.1 2.4
Services	218.9	218.1	221.0	216.4	217.0	219.4	219.8	217.5
Compensation of employees	135.7 90.7 45.0 83.2 26.5 23.4 10.0 13.3	137.0 91.0 46.0 81.2 26.6 23.2 9.1 12.8	133.7 89.2 44.5 87.3 27.5 24.3 10.0 13.4	137.2 91.5 45.7 79.1 27.2 22.1 9.1 11.6	136.4 91.2 45.2 80.6 26.6 21.9 9.6 12.2	137.9 90.7 47.2 81.5 25.5 24.9 9.1 13.3	136.3 90.5 45.8 83.5 27.1 24.0 8.6 14.1	138.1 91.6 46.5 79.4 24.5 24.5 8.1 14.2
material Travel of persons Other	5.8 6.2 –2.0	5.2 6.3 –2.1	6.1 7.2 –1.1	5.0 6.3 –2.2	5.3 6.4 –1.5	5.6 6.5 -3.3	5.0 6.0 -1.3	4.5 4.8 –1.3
Structures	5.6	5.3	6.0	5.0	5.0	5.8	5.2	5.2
Military facilities	3.5 2.1	3.2 2.1	3.8 2.2	3.0 2.0	3.0 2.1	3.6 2.2	3.0 2.2	3.0 2.2

Includes utilities, communications, rental payments, maintenance and repair, and payments to contractors to operate installations.

Table 3.8B.—Government Purchases by Type in Constant Dollars

[Billions of 1987 dollars]

	[Di		1001 401	iaioj				
			5	Seasonall	y adjuste	ed at ann	ual rates	3
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	I
Government purchases	945.2	938.9	946.9	931.3	941.1	941.7	941.7	926.8
Federal	373.0	354.9	373.7	357.6	359.4	353.7	349.0	338.0
National defense	261.2	242.4	261.3	246.0	246.4	240.1	237.1	228.4
	73.2	63.6	72.6	67.2	67.4	60.9	58.9	55.8
	9.4	8.7	8.6	8.3	9.2	8.7	8.5	7.6
	173.6	165.6	174.7	166.1	165.5	165.4	165.3	160.6
employees	100.9	95.8	99.0	97.7	96.4	95.3	93.8	93.1
	66.4	63.4	65.4	64.4	63.8	63.1	62.2	61.8
	34.5	32.4	33.7	33.3	32.7	32.2	31.6	31.3
	72.7	69.8	75.7	68.4	69.0	70.1	71.5	67.6
	5.0	4.5	5.3	4.4	4.4	5.0	4.4	4.3
Nondefense Durable goods Nondurable goods Commodity Credit Corporation	111.8	112.5	112.4	111.5	113.0	113.7	111.8	109.6
	7.5	8.1	7.9	7.8	8.4	8.1	8.2	7.3
	7.9	6.5	8.4	7.2	6.9	6.4	5.4	5.6
inventory change Other nondurables Services Compensation of	4	3	0	2	2	3	3	2
	8.3	6.8	8.4	7.4	7.1	6.7	5.8	5.8
	87.4	88.6	87.2	87.3	88.9	89.8	88.4	87.4
employees Other services Structures	49.6	51.3	49.8	51.0	51.4	51.6	51.3	50.8
	37.8	37.3	37.4	36.3	37.4	38.2	37.2	36.7
	9.0	9.2	8.9	9.1	8.7	9.4	9.8	9.2
State and local	572.2	584.0	573.2	573.7	581.6	588.0	592.8	588.9
Durable goods Nondurable goods Services Compensation of	33.3	34.1	33.6	33.8	34.0	34.3	34.5	34.7
	52.1	53.5	52.7	53.0	53.4	53.8	54.0	54.4
	395.8	402.6	398.2	400.1	401.9	403.4	405.0	406.4
employees Other services Structures	359.0	363.9	361.0	362.0	363.4	364.5	365.7	366.7
	36.7	38.7	37.3	38.1	38.4	38.9	39.3	39.7
	91.1	93.8	88.6	86.9	92.4	96.5	99.3	93.3

Table 3.11.—National Defense Purchases in Constant Dollars

[Billions of 1987 dollars]

	[Bi	llions of	1987 dol	lars]				
National defense purchases	261.2	242.4	261.3	246.0	246.4	240.1	237.1	228.4
Durable goods	73.2	63.6	72.6	67.2	67.4	60.9	58.9	55.8
Military equipment	67.1 20.2 15.3 10.3 3.4 6.1 11.8 6.1	58.7 17.5 12.7 8.9 2.5 5.8 11.4 4.9	66.3 19.0 15.7 9.8 3.4 6.5 11.9 6.4	62.9 17.7 14.1 9.3 3.6 6.0 12.1 4.4	62.1 18.8 13.2 9.5 2.6 6.2 11.8 5.3	55.9 16.6 12.4 8.3 2.0 5.9 10.8 5.0	53.9 16.7 11.2 8.4 1.8 5.1 10.7 5.0	51.6 15.7 11.6 7.5 1.9 5.0 10.0 4.2
Nondurable goods	9.4	8.7	8.6	8.3	9.2	8.7	8.5	7.6
Petroleum products Ammunition Other nondurable goods	2.9 3.5 3.0	2.8 3.6 2.4	2.4 3.3 2.9	2.7 3.4 2.2	2.9 3.9 2.4	2.9 3.1 2.7	2.6 3.8 2.2	2.5 2.8 2.2
Services	173.6	165.6	174.7	166.1	165.5	165.4	165.3	160.6
Compensation of employees	100.9 66.4 34.5 72.7 23.6 20.6 8.4 10.0 6.1 5.6	95.8 63.4 32.4 69.8 23.4 20.1 7.4 9.6 5.4 5.4	99.0 65.4 33.7 75.7 24.1 21.2 8.2 9.9 6.6 6.4	97.7 64.4 33.3 68.4 23.8 19.4 7.4 8.7 5.3 5.4	96.4 63.8 32.7 69.0 23.4 19.1 7.8 9.1 5.4	95.3 63.1 32.2 70.1 22.4 21.4 7.4 10.0 5.8 5.6	93.8 62.2 31.6 71.5 24.2 20.5 6.9 10.6 5.3 5.1	93.1 61.8 31.3 67.6 21.7 21.0 6.4 10.6 4.6 4.1
Other	-1.6	-1.6	8	-1.6	-1.1	-2.5	-1.0	9
Structures	5.0	4.5	5.3	4.4	4.4	5.0	4.4	4.3
Military facilities Other	3.3 1.7	2.9 1.6	3.5 1.8	2.8 1.6	2.8 1.6	3.3 1.7	2.8 1.7	2.7 1.6

I. Includes utilities, communications, rental payments, maintenance and repair, and payments to contractors to operate installations.

^{2.} Includes depot maintenance and contractual services for weapons systems, other than research and development.

Includes compensation of foreign personnel, consulting, training, and education.

^{2.} Includes depot maintenance and contractual services for weapons systems, other than research and development.

Includes compensation of foreign personnel, consulting, training, and education.

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

			Se	asonally	/ adjust	ed at a	nnual rat	es
	1992	1993	1992		19	993		1994
			IV	I	II	III	IV	_
Receipts from rest of the world	769.7	793.4	777.0	774.1	791.8	788.3	819.6	
Exports of goods and services Merchandise ¹ Durable	640.5 448.7 300.8 147.9 191.7	461.5	654.7 462.0 311.1 150.9 192.8	651.3 453.2 306.9 146.3 198.0	458.6	653.2 452.2 307.4 144.8 200.9	682.4 482.0 330.2 151.8 200.4	
Receipts of factor income 2	129.2	131.7	122.3	122.8	131.9	135.1	137.2	
Capital grants received by the United States (net)	0	0	0	0	0	0	0	0
Payments to rest of the world .	769.7	793.4	777.0	774.1	791.8	788.3	819.6	
Imports of goods and services Merchandise Durable Nondurable Services	670.1 544.5 346.3 198.2 125.6	385.7	693.5 564.7 359.7 205.1 128.7	699.6 569.6 368.8 200.7 130.0	725.0 592.6 379.5 213.1 132.4	725.1 591.9 384.5 207.3 133.3	751.5 614.2 409.8 204.4 137.2	751.2 614.6 414.6 200.0 136.6
Payments of factor income 3	121.9	131.6	124.8	122.4	132.3	128.7	142.8	
Transfer payments (net)	32.7 10.4 16.3 6.0	32.8 11.0 15.8 6.0	41.2 10.5 24.6 6.1	29.7 11.0 13.1 5.6	29.9 11.0 12.9 6.0	30.9 10.8 13.7 6.3	40.8 11.2 23.5 6.0	30.8 11.7 12.8 6.3
Net foreign investment	-55.1	-96.2	-82.4	-77.6	-95.4	-96.4	-115.5	

^{1.} Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services.

Table 4.3.—Exports and Imports of Merchandise by End-Use Category
[Billions of dollars]

Exports of merchandise	448.7	461.5	462.0	453.2	458.6	452.2	482.0	465.8
Foods, feeds, and beverages	40.3	40.5	41.9	40.8	39.6	38.9	42.6	39.4
Industrial supplies and materials	105.2	103.2	104.9	103.0	103.0	102.4	104.3	100.9
Durable goods	36.9	37.6	37.2	37.2	37.6	38.1	37.6	36.9
Nondurable goods	68.4	65.5	67.7	65.8	65.4	64.2	66.7	64.1
Capital goods, except automotive	176.9	183.4	182.0	177.8	183.3	178.5	193.8	188.4
Civilian aircraft, engines, and parts	37.7	32.8	37.1	33.1	36.4	27.1	34.5	33.5
Computers, peripherals, and parts	28.8	29.3	30.0	28.8	28.0	29.6	30.7	31.2
Other	110.4	121.3	114.9	115.9	118.8	121.9	128.6	123.7
Automotive vehicles, engines, and parts	47.1	51.6	50.9	51.2	51.3	48.4	55.6	54.1
Consumer goods, except automotive	50.4	53.6	53.3	51.5	52.2	54.2	56.6	54.0
Durable goods	25.6	27.4	26.5	26.3	27.2	27.5	28.7	27.9
Nondurable goods	24.8	26.2	26.8	25.2	25.1	26.7	27.9	26.2
Other	28.9	29.3	28.9	28.8	29.3	29.9	29.1	28.9
Durable goods	14.5	14.6	14.5	14.4	14.6	14.9	14.6	14.5
Nondurable goods	14.5	14.6	14.5	14.4	14.6	14.9	14.6	14.5
Imports of merchandise	544.5	592.1	564.7	569.6	592.6	591.9	614.2	614.6
Foods, feeds, and beverages	27.9	28.1	27.6	27.4	27.5	28.3	29.0	28.8
Industrial supplies and materials, except								
petroleum and products	82.3	89.1	84.2	86.4	87.3	89.0	93.6	97.0
Durable goods	39.5	43.6	40.3	41.7	41.1	43.3	48.2	48.7
Nondurable goods	42.8	45.5	43.9	44.8	46.2	45.7	45.3	48.2
Petroleum and products	51.6	51.5	54.9	51.0	57.3	50.2	47.5	40.9
Capital goods, except automotive	134.2	152.3	141.8	142.6	150.7	152.6	163.1	168.7
Civilian aircraft, engines, and parts	12.6	11.3	13.0	10.5	11.8	10.5	12.4	10.3
Computers, peripherals, and parts	31.8	38.2	34.6	35.9	37.2	39.0	40.5	41.7
Other	89.8	102.8	94.2	96.2	101.7	103.1	110.2	116.7
Automotive vehicles, engines, and parts	91.8	102.4	95.1	100.5	102.1	100.1	106.9	105.9
Consumer goods, except automotive	123.0	134.3	126.5	128.9	132.9	137.6	137.7	137.3
Durable goods	63.9	70.2	65.2	67.7	68.2	71.5	73.3	73.2
Nondurable goods	59.1	64.1	61.3	61.2	64.7	66.2	64.4	64.1
Other	33.8	34.5	34.8	32.7	34.8	33.9	36.6	36.0
Durable goods	16.9	17.3	17.4	16.4	17.4	17.0	18.3	18.0
Nondurable goods	16.9	17.3	17.4	16.4	17.4	17.0	18.3	18.0
Addenda:								
Exports of agricultural products 1	44.0	43.6	45.5	43.4	43.1	42.4	45.4	43.0
Exports of nonagricultural products	404.7	418.0	416.4	409.9	415.5	409.8	436.6	422.9
=po.to or nonagnountain producto								
Imports of nonpetroleum products	492.9	540.6	509.9	518.5	535.3	541.7	566.8	573.7

^{1.} Includes parts of: exports of foods, feeds, and beverages, of nondurable industrial supplies and materials, and of nondurable consumer goods, except automotive.

Table 4.2.—Exports and Imports of Goods and Services and Receipts and Payments of Factor Income in Constant Dollars

[Billions of 1987 dollars]

	Seasonally adjusted at annual rat							
	1992	1993	1992		19	1993 II III IV 93.2 591.9 620.0 34.5 434.1 463.0 02.4 302.2 324.9 32.1 131.9 138.1 58.6 157.8 157.0 05.0 107.1 108.5 68.4 678.2 704.5 68.6 7574.9 598.9 72.1 381.0 404.5 93.6 193.9 194.4		
			IV	I	II	III	IV	_
Exports of goods and services Merchandise ¹ Durable Nondurable Services ¹	578.0 422.7 288.0 134.7 155.4	598.3 440.5 306.5 134.0 157.8	437.3	588.0 430.2 296.5 133.7 157.8		434.1 302.2 131.9	463.0 324.9 138.1	605.0 446.7 318.0 128.8 158.3
Receipts of factor income 2	105.5	104.7	98.9	98.3	105.0	107.1	108.5	
Imports of goods and services Merchandise Durable Nondurable Services Imports of goods and services Merchandise Services Imports of goods and services	611.6 511.9 332.5 179.4 99.7	571.4	530.3 348.0	647.9 545.9 360.5 185.5 102.0	565.7	574.9 381.0	598.9 404.5	604.0
Payments of factor income $^{\rm 3}$	97.7	102.2	98.8	95.8	103.0	99.6	110.4	

^{1.} Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services.

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

[Billions of 1987 dollars]

[BII	lions of	1987 a	oliarsj					
Exports of merchandise	422.7	440.5	437.3	430.2	434.5	434.1	463.0	446.7
Foods, feeds, and beverages	35.7 97.5 32.1 65.4 178.4 30.9 51.0 96.6 41.9 22.7 20.8 25.6 12.8	35.4 95.1 31.1 64.0 192.7 26.1 60.8 105.8 45.6 45.9 24.3 21.7 25.7 12.9	37.7 96.6 31.9 64.7 186.8 30.0 56.4 100.5 45.1 45.5 23.4 22.2 25.5 12.8 12.8	36.4 94.7 31.1 63.6 184.3 26.6 55.9 101.8 45.3 44.1 23.2 21.0 25.4 12.7 12.7	35.2 94.0 30.6 63.4 189.5 29.0 57.0 103.4 45.3 44.9 24.1 20.8 25.7 12.8 12.8	33.7 94.3 31.4 63.0 190.5 21.6 62.5 106.3 42.8 46.5 24.4 22.1 26.3 13.1 13.1	36.4 97.4 31.2 66.2 206.5 27.2 67.6 111.7 49.1 48.2 25.4 22.8 25.5 12.8	32.4 92.3 29.9 62.4 203.5 26.3 69.7 107.5 46.0 24.6 21.4 25.1 12.5 12.5
Imports of merchandise	511.9	571.4	530.3	545.9	565.7	574.9	598.9	604.0
Foods, feeds, and beverages Industrial supplies and materials, except petroleum and products Durable goods Nondurable goods Capital goods, except automotive Civilian aircraft, engines, and parts Computers, peripherals, and parts Other Automotive vehicles, engines, and parts Consumer goods, except automotive Durable goods Nondurable goods Other Durable goods Nondurable goods Nondurable goods Nondurable goods Nondurable goods Nondurable goods	26.0 72.0 34.1 37.9 51.2 148.4 10.3 59.7 78.3 79.7 105.2 55.6 49.6 29.5 14.7	25.8 78.0 37.2 40.8 56.5 179.3 9.0 82.5 87.8 87.4 114.7 60.8 53.9 29.7 14.9	25.6 73.3 34.8 38.5 52.8 160.0 10.5 68.2 81.3 81.9 106.7 50.5 50.5 30.1 15.0	26.1 75.3 35.3 40.0 53.4 165.3 8.5 73.1 83.8 87.0 110.2 58.6 51.6 28.5 14.2	25.6 76.0 34.9 41.1 57.8 175.8 9.4 79.0 87.4 87.4 113.0 58.9 54.1 30.0 15.0	25.7 78.8 37.6 41.1 56.7 181.4 85.8 87.2 85.3 117.8 62.0 55.8 29.3 14.6 14.6	25.8 81.9 41.1 40.8 58.1 194.5 9.8 92.0 92.7 89.8 117.6 63.6 54.0 31.2 15.6	25.6 83.9 40.6 43.3 55.2 202.6 8.1 96.4 98.2 88.5 117.5 63.5 54.0 30.7 15.3 15.3
Addenda: Exports of agricultural products ¹ Exports of nonagricultural products Imports of nonpetroleum products	39.7 382.9 460.8	38.5 402.0 514.8	41.1 396.1 477.6	38.7 391.5 492.5		37.3 396.8 518.2	39.1 423.9 540.7	35.4 411.3 548.8

^{1.} Includes parts of exports of foods, feeds, and beverages, of nondurable industrial supplies and materials, and of nondurable consumer goods, except automotive.

 $^{2. \ \ \, \}text{Consists largely of receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.$

Consists largely of payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.

Consists largely of receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.

Consists largely of payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.

Table 5.1.—Gross Saving and Investment

			8	Seasonall	y adjuste	ed at ann	nual rates	3
	1992	1993	1992		19	93		1994
			IV	1	II	III	IV	ı
Gross saving	717.8	780.2	718.8	762.0	766.7	774.3	817.8	
Gross private saving Personal saving Undistributed corporate profits with inventory valuation and capital	986.9 238.7	1,004.8 189.9	969.4 279.7	1,024.8 177.9	988.3 208.7	988.7 179.7	1,017.5 193.4	182.0
consumption adjustments Undistributed profits Inventory valuation	110.4 98.6	123.6 106.4	121.7 92.0	103.7 91.4	116.3 103.9	129.3 104.6	145.1 125.6	
adjustmentCapital consumption	-5.3	-7.1	4.9	-12.7	-12.2	1.0	-4.3	-17.7
adjustment	17.1	24.3	24.7	25.1	24.7	23.8	23.9	20.6
Corporate consumption of fixed capital	396.6	408.8	396.5	402.2	405.2	414.0	413.9	432.8
Noncorporate consumption of fixed capital	261.3	262.5	251.5	261.0	258.1	265.7	265.1	301.7
disbursements	-20.0	20.0	-80.0	80.0	0	0	0	0
Government surplus or deficit (–), national income and product accounts Federal State and local	- 269.1 -276.3 7.2		- 250.6 -264.2 13.5		- 221.5 -222.6 1.1	- 214.4 -212.7 -1.7		
Capital grants received by the United States (net)	0	0	0	0	0	0	0	0
Gross investment	741.4	795.4	750.9	796.5	778.7	787.6	819.0	
Gross private domestic investment	796.5 –55.1	891.7 -96.2	833.3 -82.4	874.1 -77.6	874.1 -95.4	884.0 -96.4	934.5 -115.5	
Statistical discrepancy	23.6	15.2	32.1	34.4	12.0	13.3	1.2	

Table 5.4.—Fixed Investment by Type

[Billions of dollars]

		Sea	asonally	inual ra	tes		
1992	1993	1992		19	93		1994
		IV	I	II	III	IV	I
789.1	876.1	821.3	839.5	861.0	876.3	927.6	943.8
565.5	623.7	579.5	594.7	619.1	624.9	656.0	664.7
172.6 114.6	178.7 119.4	171.1 111.9	172.4 114.8		179.1 119.6	185.8 125.9	178.9 122.5
35.8 12.4 9.8	36.5 13.7 9.2	36.9 12.6 9.7	35.1 12.8 9.7	36.6 14.0 9.8	36.6 14.4 8.6	37.8 13.5 8.6	35.4 13.3 7.8
392.9 135.5	445.0 151.9	408.3 139.7	422.2 142.7			470.2 163.4	485.8 168.1
39.8 95.7 87.2	48.1 103.9 97.8	40.7 98.9 91.2	45.8 96.9 92.4	46.1 100.9 95.9	49.5 105.1 98.7	50.9 112.5 104.0	52.3 115.8 108.0
90.7 79.5	105.4 89.9	96.1 81.3	101.3 85.8	110.1 88.5	101.9 90.6	108.3 94.5	113.7 95.9
223.6	252.4	241.8	244.9	241.9	251.3	271.6	279.1
216.3 116.5 13.1 86.7 7.3	244.6 133.8 10.8 100.1 7.8	234.3 124.3 11.7 98.3 7.5	237.3 132.4 10.3 94.6 7.5	234.2 127.5 10.3 96.4 7.6	243.4 131.1 11.4 100.9 7.9	263.5 144.0 11.1 108.4 8.1	271.1 151.7 10.9 108.5 8.0
	789.1 565.5 172.6 114.6 35.8 12.4 9.8 392.9 135.5 39.8 95.7 87.2 90.7 79.5 223.6 216.3 116.5 13.1 86.7	789.1 876.1 565.5 623.7 172.6 178.7 114.6 119.4 35.8 36.5 12.4 13.7 9.2 392.9 445.0 135.5 151.9 39.8 48.1 95.7 103.9 87.2 97.8 90.7 105.4 79.5 89.9 223.6 252.4 216.3 244.6 116.5 133.8 86.7 100.1	1992 1993 1992 1V 789.1 876.1 821.3 565.5 623.7 579.5 172.6 178.7 171.1 114.6 119.4 13.7 12.6 9.8 9.2 9.7 392.9 445.0 408.3 135.5 151.9 139.7 39.8 48.1 40.7 95.7 103.9 98.9 87.2 97.8 91.2 90.7 105.4 96.1 79.5 89.9 81.3 223.6 252.4 241.8 216.3 244.6 234.3 116.5 133.8 124.3 13.1 10.8 11.7 86.7 100.1 98.3	1992 1993 1992 1V	1992 1993 1992 1995 1996 1997 1998	1992 1993 1992 1993 1995 1996 1997 1998	IV

^{1.} Includes new computers and peripheral equipment only.

Table 5.5.—Fixed Investment by Type in Constant Dollars
[Billions of 1987 dollars]

[Billions of 1987 dollars]											
	Seasonally adjusted at annua							tes			
	1992	1993	1992		19	93		1994			
			IV	I	II	III	IV	ı			
Fixed investment	726.4	806.0	754.3	773.7	790.6	806.9	852.9	866.2			
Nonresidential	529.2	591.8	543.7	562.3	584.3	594.8	625.7	634.1			
Structures	150.6	151.5	148.0	148.2	151.1	151.2	155.6	148.9			
farm Utilities Mining exploration, shafts, and	100.8 30.9	101.8 30.6	97.5 31.6	99.3 29.9	100.5 30.6	101.5 30.5	106.0 31.2	102.6 29.0			
wellsOther structures	10.0 8.9	11.1 8.1	10.3 8.6	10.4 8.6	11.4 8.7	11.7 7.5	10.9 7.5	10.6 6.8			
Producers' durable equipment Information processing and related	378.6	440.2	395.7	414.1	433.2	443.6	470.0	485.1			
equipment	159.9	195.2	168.5	178.6	186.8	200.9	214.6	222.4			
equipment ¹ OtherIndustrial equipment	71.2 88.7 72.7	100.4 94.8 80.2	77.2 91.3 75.7	89.5 89.0 76.7	94.5 92.3 78.8	105.1 95.9 80.5	112.4 102.2 84.7	117.2 105.2 87.9			
Transportation and related equipment Other	77.7 68.3	88.8 76.1	82.1 69.4	85.7 73.2	92.8 74.9	85.7 76.5	91.0 79.7	94.1 80.7			
Residential	197.1	214.2	210.6	211.4	206.2	212.1	227.2	232.2			
Structures Single family Multifamily Other structures	190.1 102.7 11.8 75.6	206.8 113.1 9.3 84.4	203.3 107.9 10.4 85.0	204.1 113.9 9.1 81.1	198.9 108.7 9.0 81.2	204.6 110.0 9.8 84.8	219.6 119.6 9.4 90.5	224.6 125.6 9.3 89.7			
Producers' durable equipment	7.0	7.4	7.2	7.3	7.3	7.5	7.7	7.6			

^{1.} Includes new computers and peripheral equipment only.

Table 5.10.—Change in Business Inventories by Industry

			Sea	asonally	adjuste	ed at an	nual ra	tes
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	ı
Change in business inventories	7.3	15.6	12.0	34.6	13.1	7.7	6.9	34.2
Farm	5.0	-5.5	2.4	1.5	-3.7	-14.9	-5.0	.5
Nonfarm Change in book value Inventory valuation adjustment	2.3 8.8 –6.4	21.1 31.2 –10.1	9.5 3.3 6.2	33.0 51.7 –18.7	16.8 34.8 –18.0	22.6 21.9 .7	12.0 16.2 -4.3	33.7 57.4 –23.7
Manufacturing Durable goods Nondurable goods	-6.0 -10.6 4.6	8 -1.7 .9	-14.2 -17.0 2.8	-1.8 -5.5 3.7	4.2 .4 3.9	2.9 2.6 .2	-8.7 -4.3 -4.4	7.2 5.3 1.8
Wholesale trade Durable goods Nondurable goods	6.1 3.9 2.2	4.2 1.3 2.8	13.5 3.8 9.7	.7 -3.2 3.9	6.8 .6 6.3	7.7 7.0 .7	1.4 1.0 .4	4.6 7.2 –2.6
Merchant wholesalers	6.3 4.4 1.8 2 5	3.9 1.0 2.9 .2 .3 1	15.0 5.5 9.5 -1.5 -1.7	3 -3.7 3.5 .9 .5	6.1 1.8 4.2 .8 -1.3 2.0		0 2 .2 1.4 1.2	2.3 5.4 -3.1 2.3 1.8 .5
Retail trade	6.5 4.8 7 5.5 1.6	12.2 8.7 3.2 5.5 3.5	10.5 6.5 -1.9 8.4 4.0	27.6 21.9 19.0 2.9 5.8	3.0 .4 6 1.0 2.6		12.8 12.9 2.9 10.0 1	13.8 12.3 7.5 4.8 1.6
Other Durable goods Nondurable goods	-4.3 3.8 -8.1	5.6 2.6 3.0	2 5.5 -5.8	6.5 1.9 4.6	2.8 1.4 1.4	6.7 5.6 1.1	6.5 1.4 5.1	8.1 5.3 2.8

Table 5.12.—Inventories and Final Sales of Domestic Business by Industry

[Billions of dollars]

[Billions	of dollar	Sj							
	Seasonally adjusted quarterly totals								
	1992		19	93		1994			
	IV	I	II	III	IV	I			
Inventories 1	1,099.0	1,119.5	1,119.6	1,130.9	1,134.8	1,149.9			
Farm	95.1	99.1	95.4	95.1	92.7	95.6			
Nonfarm Durable goods Nondurable goods	1,003.9 580.9 423.0	1,020.4 590.7 429.7	1,024.2 592.1 432.2	1,035.8 600.3 435.5	1,042.1 607.5 434.6	1,054.3 618.0 436.3			
Manufacturing Durable goods Nondurable goods	400.9 251.0 149.9	402.0 250.8 151.2	402.4 250.7 151.7	407.0 254.2 152.8	405.0 253.8 151.2	407.7 256.6 151.1			
Wholesale trade	247.9 155.4 92.5	249.6 155.9 93.7	251.3 156.6 94.7	254.6 159.1 95.5	256.7 160.3 96.4	258.9 163.1 95.8			
Merchant wholesalers Durable goods Nondurable goods Nonmerchant wholesalers Durable goods Nondurable goods	221.4 139.4 82.0 26.5 16.0 10.4	222.6 139.5 83.1 27.0 16.4 10.6	224.1 140.5 83.7 27.2 16.1 11.1	227.6 142.5 85.0 27.0 16.6 10.4	229.4 143.3 86.0 27.3 17.0 10.4	230.6 145.3 85.3 28.3 17.8 10.5			
Retail trade	269.5 129.4 62.5 67.0 140.1	280.1 137.0 68.2 68.7 143.1	281.2 138.0 69.3 68.7 143.3	282.7 138.2 66.9 71.3 144.5	286.6 143.0 68.5 74.5 143.6	291.4 146.4 70.7 75.8 145.0			
Other	85.6	88.7	89.3	91.5	93.8	96.3			
Final sales of domestic business 2 Final sales of goods and structures of	436.9	439.0	445.5	450.7	461.1	464.5			
domestic business 2	240.5	240.4	243.9	245.9	253.8	254.9			
Ratio of inventories to final sales of domestic business									
Inventories to final sales	2.52 2.30	2.55 2.32	2.51 2.30	2.51 2.30	2.46 2.26	2.48 2.27			
structures	4.17	4.24	4.20	4.21	4.11	4.14			

^{1.} Inventories are as of the end of the quarter.

Table 5.11.—Change in Business Inventories by Industry in Constant **Dollars**

[Billions of 1987 dollars]

·								
			Sea	asonally	adjuste	ed at an	nual ra	tes
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	ı
Change in business inventories	6.5	14.3	8.7	29.3	13.0	6.5	8.5	30.5
Farm	3.8	-5.3	1.2	0	-4.1	-12.9	-4.4	2
Nonfarm	2.7	19.7	7.5	29.3	17.1	19.4	12.9	30.7
Manufacturing Durable goods Nondurable goods	-4.7 -8.9 4.2	.5 5 1.0		8 -4.6 3.8	5.0 1.4 3.6	3.1 2.8 .3	-5.3 -1.7 -3.6	7.8 5.5 2.3
Wholesale trade Durable goods Nondurable goods	5.4 3.6 1.8	3.7 1.3 2.4	10.7 3.4 7.3	.7 -2.8 3.6	6.6 .6 6.1	6.4 6.3 .1	1.2 1.1 0	4.8 6.6 -1.9
Merchant wholesalers	5.6 4.0 1.6 2 4	3.5 .9 2.5 .3 .4 1	12.8 5.0 7.7 -2.1 -1.6 4	1 -3.3 3.2 .8 .4 .4	5.9 1.7 4.2 .7 -1.2 1.8	8.5 5.6 2.9 -2.1 .8 -2.8	4 3 1 1.6 1.4	2.6 4.8 -2.3 2.2 1.8 .4
Retail trade Durable goods Automotive Other Nondurable goods	5.9 4.3 6 4.9 1.6	10.7 7.6 2.9 4.8 3.1	9.7 5.9 -1.7 7.6 3.8	24.0 18.9 16.6 2.3 5.1	3.0 .8 5 1.2 2.3	4.8 1 -7.1 7.0 4.9	11.1 11.0 2.4 8.6 .1	11.5 10.3 6.2 4.1 1.2
Other Durable goods Nondurable goods	-3.9 3.4 -7.3	4.7 2.2 2.5	4 4.9 -5.3	5.4 1.6 3.8	2.4 1.2 1.2	5.0 4.8 .2	5.9 1.2 4.7	6.5 4.4 2.2

Table 5.13.—Inventories and Final Sales of Domestic Business by Industry in Constant Dollars

[Billions of	1987 dol	lars]								
	5	Seasonally adjusted quarterly total								
	1992		19	93		1994				
	IV	I	II	III	IV	ı				
Inventories 1	985.3	992.6	995.9	997.5	999.6	1,007.2				
Farm	88.1	88.1	87.1	83.9	82.8	82.7				
Nonfarm Durable goods Nondurable goods	897.2 525.3 371.8	904.5 528.6 375.9	908.8 529.6 379.2	913.6 533.0 380.6	916.8 535.9 380.9	924.5 542.7 381.8				
Manufacturing Durable goods Nondurable goods	365.9 231.9 134.0	365.7 230.7 135.0	366.9 231.1 135.8	367.7 231.8 135.9	366.4 231.4 135.0	368.4 232.8 135.6				
Wholesale trade	217.7 138.5 79.2	217.9 137.8 80.1	219.6 138.0 81.6	221.2 139.5 81.6	221.5 139.8 81.7	222.7 141.5 81.2				
Merchant wholesalers Durable goods Nondurable goods Nonmerchant wholesalers Durable goods Nondurable goods	193.8 124.0 69.8 23.9 14.6 9.4	193.8 123.1 70.6 24.2 14.7 9.5	195.3 123.6 71.7 24.3 14.4 9.9	197.4 125.0 72.4 23.8 14.6 9.2	197.3 124.9 72.4 24.2 14.9 9.3	197.9 126.1 71.8 24.7 15.4 9.4				
Retail trade Durable goods Automotive Other Nondurable goods	236.4 115.2 56.5 58.7 121.2	242.4 119.9 60.6 59.3 122.5	243.2 120.1 60.5 59.6 123.0	244.4 120.1 58.7 61.4 124.2	247.1 122.9 59.4 63.5 124.3	250.0 125.4 60.9 64.5 124.6				
Other	77.1	78.5	79.1	80.3	81.8	83.5				
Final sales of domestic business ² Final sales of goods and structures of domestic business ²	361.5 208.6	360.4 207.0	363.4 209.3	366.8 211.3	373.9 217.6	374.7 217.6				
Ratio of inventories to final sales of domestic business										
Inventories to final sales	2.73 2.48	2.75 2.51	2.74 2.50	2.72 2.49	2.67 2.45	2.69 2.47				
structures	4.30	4.37	4.34	4.32	4.21	4.25				

^{1.} Inventories are as of the end of the quarter. Quarter-to-quarter changes calculated from this table are at quarterly rates, whereas the constant-dollar change in business inventories component of GDP is stated at annual

^{2.} Quarterly totals at monthly rates. Final sales of domestic business equals final sales of domestic product less gross product of households and institutions and general government and includes a small amount of final sales by farm.

Quarterly totals at monthly rates. Final sales of domestic business equals final sales of domestic product less gross product of households and institutions and general government and includes a small amount of final

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

			5	Seasonal	y adjuste	ed at anr	nual rates	3
	1992	1993	1992		19	193		1994
			IV	ı	II	III	IV	I
National income without capital consumption adjustment	4,880.3	5,172.7	5,003.2	5,071.1	5,133.6	5,177.6	5,308.6	
Domestic industries	4,873.0	5,172.5	5,005.7	5,070.7	5,134.1	5,171.2	5,314.2	
Private industries	4,138.5	4,407.2	4,262.0	4,313.3	4,372.8	4,401.9	4,540.7	
Agriculture, forestry, and fisheries	100.9 38.5 212.8 895.3 501.7 393.6	40.1 228.0 928.2	40.1 218.1 919.0		925.8	39.6 231.6 922.5 520.8	41.1 236.4 954.8 543.9	
Transportation and public utilities	356.1 151.0 103.7 101.5	376.1 161.8 107.4 106.9	361.4 154.4 106.4 100.6	369.0 157.4 105.4 106.2	370.7 158.9 108.2 103.6	164.4 108.5	107.3	
Wholesale trade	283.6 416.7 748.9 1,085.8				299.8 441.1 805.9 1,158.9	449.1 818.2	457.3 838.8	
Government	734.5	765.3	743.8	757.4	761.3		'	
Rest of the world	7.3	.2	-2.5	.4	5			
ivear or rise would	1.3	<u>۔۔ </u>	_2.5	ı . *	5	0.4	_5.0	

Table 6.16C.—Corporate Profits by Industry

[Billions of dollars]

· ·	DIIIIONS	OI UOIIA	115]					
			Sea	asonally	adjuste	ed at an	nual ra	tes
	1992	1993	1992		19	93		1994
			IV	I	Ш	Ш	IV	ı
Corporate profits with inventory valuation and capital consumption adjustments	407.2	466.6	439.5	432.1	458.1	468.5	507.9	
Domestic industries	344.9	407.9	384.8	373.0	400.0	405.8	452.8	
FinancialNonfinancial	66.7 278.3	87.4 320.5	70.7 314.1	81.0 292.1	85.0 315.0	87.6 318.2	96.1 356.7	
Rest of the world	62.3 65.2	58.7 71.3	54.7 60.5	59.0 66.7	58.1 71.4	62.7 74.0	55.1 73.2	
world	3.0	12.6	5.8	7.7	13.3	11.3	18.1	
Corporate profits with inventory valuation adjustment	390.1	442.3	414.8	407.0	433.4	444.8	484.0	
Domestic industries Financial Federal Reserve banks Other Nonfinancial Manufacturing Durable goods Primary metal industries Fabricated metal products Industrial machinery and equipment Electronic and other electric equipment Motor vehicles and equipment Other Nondurable goods Food and kindred products Chemicals and allied products	78.1 17.8 60.3 249.8 115.5 48.3 .6 7.4 6.6 12.1 3.5 18.1 67.2 17.0	383.6 99.0 16.2 82.8 284.6 131.7 60.2 1.4 6.5 7.2 14.6 9.0 21.4 71.6 15.1	360.1 82.0 16.7 65.3 278.1 128.0 0 6.6 7.8 17.6 4.9 21.0 70.0 15.2	348.0 92.3 16.6 75.7 255.7 118.9 48.0 5 5.5 5.7 14.9 3.1 19.4 70.9 18.0	375.3 96.4 16.2 80.2 278.9 132.5 58.4 2.5 6.9 6.2 12.1 10.0 20.7 74.2 14.8 16.3	382.1 99.3 16.0 83.3 282.8 126.7 59.9 1.1 6.3 8.8 14.4 8.1 21.3 66.8 14.6	7.6 8.0	
Products Petroleum and coal products Other Transportation and public utilities Wholesale and retail trade Other Rest of the world	15.7 6.1 28.5 52.0 46.3 36.0 62.3	16.8 11.9 27.7 57.8 54.4 40.6 58.7	5.0 32.1 50.4 57.7 42.0 54.7	7.2 27.3 53.3 46.0 37.5 59.0	16.3 13.5 29.5 53.9 55.4 37.2 58.1	14.6 12.0 25.6 59.0 55.1 42.1 62.7	14.9	

Table 7.1.—Fixed-Weighted and Alternative Quantity and Price Indexes for Gross Domestic Product

	1						Į.i.uc		15, 1907=100]								
			L.	Se	asonally	adjuste	ed						Seasonally adjusted				
	1992	1993	1992		19	93		1994		1992	1993	1992		19	93		1994
			IV	_	II	Ш	IV	I				IV	I	II	Ш	IV	I
Gross domestic product: Current dollars	133.0	140.5	136.4	137.9	139.4	140.9	143.8	145.6	Nonresidential: Current dollars	113.6	125.3	116.4	119.5	124.4	125.5	131.8	133.5
Fixed 1987 weights Chain-type annual weights Benchmark-years weights	109.8 109.5 109.4	112.5	111.3	111.9 111.4 111.2	111.9		115.1 114.2 114.0		Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	106.3 103.3 104.1	113.3	109.2 105.7 106.7	113.0 108.4 109.4	112.4	119.5 113.4 114.5	125.7 119.0 120.1	127.4
Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	122.1 121.5 121.7	125.2	122.6 122.9	124.8 123.8 124.1	125.6 124.7 124.9	126.3 125.3 125.6	127.0 126.0 126.3		Price indexes: Fixed 1987 weights Chain-type annual weights	111.4 109.9	113.3			113.1		114.0 111.4	
Implicit price deflator Personal consumption expenditures: Current dollars	121.1			123.3 140.8	124.0 142.8	124.5 144.8	124.9 147.2		Benchmark-years weights Implicit price deflator	109.1 106.9	110.2 105.4	109.4 106.6	109.6 105.7		110.5 105.1	110.6 104.8	104.8
Quantity indexes: Fixed 1987 weights Chain-type annual weights	109.5 109.0	113.1 112.3	111.3	111.5 110.9	112.5	113.7 112.8	114.9 113.9	116.0	Structures: Current dollars Quantity indexes:	100.7	104.3	99.9	100.6		104.5	108.4	
Benchmark-years weights Price indexes: Fixed 1987 weights Chain-type annual weights	109.1 124.9 124.4	128.7 128.0	126.5 125.8	110.9 127.5 126.8	128.4 127.7	128.9 128.2	129.8 129.1	130.4	Fixed 1987 weights Chain-type annual weights Benchmark-years weights . Price indexes:	87.9 87.9 87.9	88.5	86.4 86.4 86.4	86.5 86.5 86.5	88.2 88.3 88.3	88.3 88.3 88.4	90.8 90.9 90.9	
Benchmark-years weights Implicit price deflator Durable goods: Current dollars	124.5 123.9 123.2	127.2	125.9 125.3 128.0	127.0 126.2 127.6	127.0	128.3 127.4 134.2	129.2 128.1 139.4	128.5	Fixed 1987 weights Chain-type annual weights Benchmark-years weights . Implicit price deflator	114.6 114.6 114.6 114.6	117.9 117.8	115.6 115.6		117.4 117.4	118.4 118.3	119.3 119.3 119.3 119.4	
Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	113.1 111.6 111.8	121.4 118.9	117.3 115.5	116.9 114.8	119.9	122.1 119.5	126.6 123.6 123.8	129.5	Producers' durable equipment: Current dollars	120.3			129.3			144.0	
Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	111.5 110.4 110.2	112.2 112.1	110.8 110.7	112.6 111.2 111.1	112.0 111.9	112.5 112.4	113.1		Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights .	116.0 111.8 112.8	127.0	116.4	126.9 120.4 121.7		135.9 127.2 128.6	144.0 134.5 136.0	
Implicit price deflator Nondurable goods: Current dollars	108.9	109.8		109.2 132.1	109.8	109.9		110.4	Price indexes: Fixed 1987 weights Chain-type annual weights	109.7 107.6	107.7	110.1 107.5	110.4 107.6	107.8	107.9	111.2 107.7	
Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	105.1 104.9 104.9		106.7	106.4 106.1 106.1	107.1 106.8 106.8	108.1 107.7 107.7	108.8 108.4 108.4		Benchmark-years weights . Implicit price deflator Residential:	106.7 103.8	106.9 101.1	106.7 103.2	106.8 102.0	101.9		106.9 100.0	
Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	123.0 122.7 122.7		123.5	124.9 124.5 124.5	125.0 124.6 124.7	124.5 124.2 124.3	125.1 124.8 124.8		Current dollarsQuantity indexes: Fixed 1987 weights	99.3 87.5	95.1	93.5	93.8	91.6	94.2	120.6	103.1
Implicit price deflator Services: Current dollars	122.4 143.0	124.1	123.1	124.1 149.4	124.2	123.7 154.2	124.3 156.5	124.3	Chain-type annual weights Benchmark-years weights Price indexes:	87.5 87.5	95.2	93.5 93.5	93.8 93.9	91.6 91.6	94.1 94.2	100.9	
Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	111.3 111.0	114.5	112.5 112.0	113.3 112.8 112.9	113.9 113.4	115.0 114.4 114.5	115.8 115.2	116.7	Fixed 1987 weights Chain-type annual weights Benchmark-years weights Implicit price deflator	113.4 113.5 113.4 113.4	117.8	114.8 114.9 114.8 114.9	115.9 115.8	117.3 117.2	118.6 118.5	119.5 119.5 119.4 119.5	
Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	129.1	133.9 134.2	130.9 131.2	132.1 132.4	133.5 133.8	135.2 134.5 134.7	135.9		Exports of goods and services: Current dollars Quantity indexes: Fixed 1987 weights	176.0 158.8	181.8 164.4		178.9 161.6		179.5 162.6	187.5 170.4	
Implicit price deflator Gross private domestic investment: Current dollars	128.5			131.8 116.7	133.1 116.7	134.0 118.0			Chain-type annual weights	155.9 156.8	160.0	159.0		159.2	157.8	164.9 166.0	
Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	97.8 96.2 96.5	105.9	99.9	107.2 104.4 104.9	107.2 104.1 104.6	104.6			Fixed 1987 weights	112.9 112.3		113.2 112.6	114.7 113.4 112.9 110.8	114.1	115.7 114.1 113.5 110.4	114.2 113.6	
Fixed 1987 weights									Imports of goods and services: Current dollars Quantity indexes:		143.0		138.0		143.0		
Fixed investment: Current dollarsQuantity indexes:	109.1	121.2		116.1				130.5	Fixed 1987 weights	120.6 116.6 117.7	126.7	124.3 119.5 120.9	122.3	125.8	133.8 127.0 128.4	138.9 131.6 133.1	
Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	100.5 98.4 98.9	107.6 108.3	101.9 102.6		105.9 106.6		113.3 114.1		Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	113.4 112.3	111.7	114.1 113.0	112.5 111.5		112.5 111.5	112.6 111.5	
Fixed 1987 weights	110.3	112.9 112.3	111.5 110.9	112.0 111.4	112.7 112.1	113.3 112.7	113.7 113.1		Implicit price deflator	109.6	107.5	110.0	108.0	108.5	106.9	106.7	105.9

Table 7.1.—Fixed-Weighted and Alternative Quantity and Price Indexes for Gross Domestic Product—Continued

<u> </u>				Se	asonall	/ adjust	ed	
	1992	1993	1992		-	93	-	1994
	1002	1000	IV	I	II	III	IV	1
Government purchases:								
Current dollarsQuantity indexes:	128.4	131.4	129.8	129.3	131.4	132.1	132.6	132.
Fixed 1987 weights Chain-type annual weights Benchmark-years weights	107.2 107.0 106.9	106.5 106.4 106.2	107.4 107.2 107.1	105.6 105.6 105.4	106.8 106.6 106.5	106.8 106.6 106.5	106.8 106.6 106.5	105.
Price indexes: Fixed 1987 weights	120.6	124.3	121.7	123.2	124.0	124.8	125.1	126.
Chain-type annual weights Benchmark-years weights Implicit price deflator	120.0 120.2 119.7	123.5 123.7 123.3	121.0 121.3 120.8	122.4 122.6 122.4	123.2 123.5 123.1	123.9 124.2 123.7	124.4 124.6 124.1	125.
Federal: Current dollars	116.6	115.2	117.5	115.0	116.3	115.2	114.3	112.
Quantity indexes:								
Fixed 1987 weights	96.9 96.6 96.3	92.2 92.2 92.0	97.1 96.8 96.5	92.9 92.9 92.7	93.4 93.4 93.2	91.9 91.9 91.6	90.7 90.8 90.5	87.
Price indexes: Fixed 1987 weights	121.8	126.2	122.8	125.1	125.8	126.8	127.0	128
Chain-type annual weights Benchmark-years weights Implicit price deflator	120.7 121.0 120.3	124.8 125.3 124.9	121.5 122.0 121.1	123.6 124.1 123.8	124.3 124.8 124.5	125.4 125.9 125.4	125.9 126.4 126.1	128
National defense:	107.4	102.0	108.1	104.4	105.3	102.4	102 5	100
Current dollarsQuantity indexes:		103.9				103.4	102.5	100
Fixed 1987 weights Chain-type annual weights Benchmark-years weights	89.4 88.6 88.7	83.0 82.5 82.7	89.5 88.5 88.6	84.2 83.8 83.9	84.4 84.0 84.1	82.2 81.6 81.8	81.2 80.8 80.9	78
Price indexes: Fixed 1987 weights	122.3	127.2	123.5	125.9	126.8	127.9	128.1	129
Chain-type annual weights Benchmark-years weights Implicit price deflator	121.2 121.2 120.1	125.8 125.9 125.1	122.2 122.2 120.8	124.4 124.5 123.9	125.3 125.4 124.8	126.6 126.6 125.7	126.9 127.0 126.2	128
Nondefense: Current dollarsQuantity indexes:	145.4	150.8	147.2	148.4	150.7	152.5	151.5	152
Fixed 1987 weights Chain-type annual weights	120.4 122.1	121.1 123.0	121.1 122.9	120.1 121.8	121.7 123.5	122.4 124.4	120.4 122.5	118
Benchmark-years weights Price indexes:	120.7	121.6	121.5	120.4	122.0	122.9	121.1	
Fixed 1987 weights Chain-type annual weights	120.2 119.1	123.0 122.3	120.9 119.7	122.5 121.6	122.5 121.8	123.4 122.5	123.6 123.3	125
Benchmark-years weights Implicit price deflator	120.5 120.8	123.8 124.5	121.2 121.6	123.0 123.6	123.3 123.9	124.0 124.6	124.8 125.9	128
State and local: Current dollars	137.5	143.9	139.2	140.4	143.2	145.2	146.8	147
Fixed 1987 weights	115.2	117.6	115.4	115.5	117.1	118.4	119.4	118
Chain-type annual weights Benchmark-years weights	115.0 115.1	117.3 117.4	115.3 115.3	115.4 115.4	116.8 116.9	118.0 118.1	118.9 119.0	
Price indexes: Fixed 1987 weights	119.6	122.8	120.9	121.8	122.7	123.2	123.6	124
Chain-type annual weights Benchmark-years weights	119.6 119.5	122.7 122.6	120.8 120.7	121.7 121.6	122.6 122.5	123.1 123.0	123.5 123.4	
Implicit price deflator	119.4	122.4	120.6	121.5	122.3		123.0	124

NOTE.—The quantity and price indexes in this table are calculated from weighted averages of the detailed output and prices used to prepare each aggregate and component. The fixed-weighted measures use as weights the composition of output in 1987. For the alternative indexes, the chain-type indexes with annual weights use weights for the preceding and current years, and the indexes with benchmark-years weights use weights of 1959, 1963, 1967, 1972, 1977, 1982, and 1987 and the most recent year. Percent changes from preceding period for selected items in this table are shown in table 8.1.

Table 7.2.—Fixed-Weighted and Alternative Quantity and Price Indexes for Gross Domestic Product, Final Sales, and Purchases

				Se	asonally	/ adjust	ed	
	1992	1993	1992		19	93		1994
			IV	I	II	III	IV	1
Gross domestic product:								
Current dollarsQuantity indexes:	133.0	140.5	136.4	137.9	139.4	140.9	143.8	145.6
Fixed 1987 weights	109.8	113.1 112.5	111.6	111.9	112.4 111.9	113.2	115.1	115.8
Chain-type annual weights Benchmark-years weights	109.5 109.4	112.3	111.3 111.1	111.4 111.2	111.7	112.5 112.3	114.2 114.0	
Price indexes: Fixed 1987 weights	122.1	125.9	123.5	124.8	125.6	126.3	127.0	127.9
Chain-type annual weights	121.5	125.9	122.6	123.8	124.7	125.3	126.0	
Benchmark-years weights	121.7 121.1	125.2 124.2	122.9 122.2	124.1 123.3	124.9 124.0	125.6 124.5	126.3 124.9	125.7
Implicit price deflator	121.1	124.2	122.2	123.3	124.0	124.5	124.5	123.7
Final sales of domestic product 1: Current dollars	133.6	141.0	137.0	138.0	139.9	141.5	144.4	145.7
Fixed 1987 weights	110.3	113.5	112.1	111.9	112.7	113.7	115.6	115.8
Chain-type annual weights Benchmark-years weights	109.9 109.9	112.8 112.7	111.6 111.5	111.3 111.2	112.2 112.1	112.9 112.8	114.6 114.5	
Price indexes:	122.2	126.0	122.6	124.9	125.7	126.4	127.1	120 0
Fixed 1987 weights	121.6	126.0 125.0	123.6 122.7	123.9	123.7	125.4	126.1	128.0
Benchmark-years weights	121.7 121.1	125.3 124.2	122.9 122.2	124.2 123.3	125.0 124.1	125.6	126.4 125.0	125.8
Implicit price deflator	121.1	124.2	122.2	123.3	124.1	124.5	125.0	123.0
Gross domestic purchases 2: Current dollars	129.6	137.6	133.1	134.7	136.5	138.1	140.8	142.9
Fixed 1987 weights	107.2	111.3	109.1	109.7	110.6	111.6	113.4	
Chain-type annual weightsBenchmark-years weights	106.7 106.7	110.2 110.3	108.4 108.5	108.9 108.9	109.6 109.7	110.4 110.5	112.0 112.1	
Price indexes: Fixed 1987 weights	122.0	125.6	123.4	124.4	125.3	125.9	126.6	127.3
Chain-type annual weights	121.5	124.9	123.4	123.8	123.3	125.9	125.9	
Benchmark-years weights	121.5	124.9	122.8	123.8	124.6	125.2	125.9	404.0
Implicit price deflator	120.9	123.6	122.1	122.8	123.5	123.8	124.2	124.8
Final sales to domestic purchasers 3: Current dollars	130.2	138.0	133.6	134.8	137.0	138.7	141.5	143.0
Fixed 1987 weights	107.7	111.6	109.5	109.7	110.9	112.1	113.8	114.5
Chain-type annual weightsBenchmark-years weights	107.1 107.2	110.5 110.6	108.7 108.9	108.8 108.9	109.9 110.0	110.8 111.0	112.4 112.5	
Price indexes:								
Fixed 1987 weights Chain-type annual weights	122.1 121.6	125.7 124.9	123.4 122.8	124.5 123.8	125.4 124.7	126.0 125.2	126.7 126.0	
Benchmark-years weights	121.5	124.9	122.8	123.8	124.7	125.2	126.0	
Implicit price deflator	120.9	123.6	122.0	122.8	123.5	123.8	124.3	124.8

Equals GDP less change in business inventories.
 Equals GDP less net exports of goods and services or equals the sum of personal consumption expenditures, gross private domestic investment, and government purchases.
 Equals gross domestic purchases less change in business inventories or equals the sum of personal

consumption expenditures, gross private domestic fixed investment, and government purchases.

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

Table 7.3.—Fixed-Weighted and Alternative Quantity and Price Indexes for Gross National Product and Command-Basis Gross National Product

			Seasonally adjusted						
	1992	1993	1992		19	93		1994	
			IV	ı	II	III	IV	ı	
Gross national product: Current dollars	133.0			137.8					
Fixed 1987 weights	109.9 109.6 109.5		111.2		112.3 111.8 111.7	112.5	114.0		
Fixed 1987 weights	122.1 121.4 121.6 121.1		122.5	124.7 123.8 124.0 123.3		125.2 125.5	126.0 126.3		
Less: Exports of goods and services and receipts of factor income: Current dollarsQuantity index, fixed 1987 weights	164.1 145.7	169.2 149.9		165.0 146.3	168.8 148.9		174.8 155.3		
Plus: Command-basis exports of goods and services and receipts of factor income: Current dollars	176.0 147.0	181.8 153.4		178.9 149.3	181.3 151.9		187.5 159.2		
Equals: Command-basis gross national product: Current dollars	133.0 110.0	140.3 113.4		137.8 112.1	139.2 112.6		143.5 115.3		

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

Table 7.4.—Price Indexes for Personal Consumption Expenditures by Major Type of Product, Fixed 1987 Weights

[Index numbers, 1987=100]

Personal consumption expenditures	124.9	128.7	126.5	127.5	128.4	128.9	129.8	130.4
Durable goods	111.5	113.8	112.1	112.6	113.5	114.1	114.9	115.4
Motor vehicles and parts Furniture and household equipment Other	112.2 104.0 124.2	115.8 104.3 126.8	113.3 104.2 124.3	113.9 103.9 126.1	115.3 104.2 127.2	104.3		117.9 105.3 128.3
Nondurable goods	123.0	124.9	123.8	124.9	125.0	124.5	125.1	125.2
Food	122.0 117.9 123.3 116.5 128.8	124.3 119.1 122.2 116.1 131.6	122.7 118.2 124.7 117.3 130.3	123.5 119.8 126.3 116.2 131.4	124.2 119.0 123.1 117.4 132.2	118.9 118.8	125.3 118.8 120.4 114.3 131.4	125.7 118.6 119.8 115.9 131.4
Services	129.5	134.7	131.6	132.8	134.2	135.2	136.3	137.4
Housing Household operation Electricity and gas Other household operation Transportation Medical care Other		127.8 115.6 114.6 116.4 135.5 148.5 137.2	125.4 113.9 112.7 114.9 131.9 144.0 134.4	126.5 113.5 112.2 114.6 134.4 145.9 135.4	127.6 115.3 114.2 116.2 134.9 147.9 136.6		116.0 118.0 136.7	130.3 117.4 115.5 119.2 138.2 152.0 140.0
Addenda: Price indexes for personal								
consumption expenditures: Chain-type annual weights Benchmark-years weights	124.4 124.5	128.0 128.1	125.8 125.9	126.8 127.0	127.7 127.9	128.2 128.3	129.1 129.2	

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

Table 7.6.—Price Indexes for Fixed Investment by Type, Fixed 1987 Weights

[Index numbers, 1987=100]

•								
				Sea	asonally	adjust	ed	
	1992	1993	1992		19	93		1994
			IV	I	II	=	IV	1
Fixed investment	112.0	114.7	112.8	113.5	114.4	115.2	115.7	116.2
Nonresidential	111.4	113.3	112.0	112.4	113.1	113.6	114.0	114.5
Structures	114.6	117.8	115.6	116.3	117.4	118.4	119.3	120.1
farmUtilitiesMining exploration, shafts, and	113.7 115.6	117.2 119.3	114.8 116.4		116.5 119.4	117.8 119.8	118.8 120.8	119.4 122.2
wellsOther structures	123.5 110.7	123.3 113.6	123.1 112.6	122.9 112.3	123.6 113.7	123.3 113.6	123.3 114.7	125.1 115.1
Producers' durable equipment	109.7	110.9	110.1	110.4	110.9	111.2	111.2	111.6
Information processing and related equipment	93.1	92.3	92.8	92.7	92.3	92.1	91.9	91.8
equipment ¹	59.6 107.9 120.2	53.0 109.6 122.5	57.0 108.5 120.9		53.6 109.5 122.3	52.2 109.7 123.2	50.5 110.2 123.4	49.5 110.5 123.2
equipment Other	116.8 117.1	119.2 119.1	117.3 118.0	118.4 118.2	119.1 119.1	119.6 119.4	119.6 119.6	121.4 119.8
Residential	113.4	117.7	114.8	115.8	117.2	118.5	119.5	120.1
Structures Single family Multifamily Other structures	113.6 113.4 111.3 114.7	118.1 118.3 115.6 118.6	115.0 115.2 112.5 115.7		117.5 117.3 114.6 118.7	118.8 119.2 116.4 119.1	119.8 120.4 117.6 119.7	120.5 120.7 117.8 121.0
Producers' durable equipment	104.9	105.5	104.9	104.5	105.4	105.9	106.3	106.8
Addenda: Price indexes for fixed investment: Chain-type annual weights Benchmark-years weights		112.9 112.3	111.5 110.9			113.3 112.7		

^{1.} Includes new computers and peripheral equipment only.

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

Table 7.9.—Price Indexes for Exports and Imports of Goods and Services and for Receipts and Payments of Factor Income, Fixed 1987 Weights

Exports of goods and services	113.7	115.4	114.3	114.7	115.5	115.7	115.9	116.9
Merchandise ¹ Durable Nondurable Services ¹	109.6 109.3 110.2 123.7	110.4 110.7 109.8 127.6	109.8	110.3 109.4	111.1	110.8	110.8 110.4	111.8 111.4 112.7 129.2
Receipts of factor income 2	122.5	125.7	123.7	124.9	125.6	126.1	126.5	
Imports of goods and services	115.1	115.0	115.9	114.5	115.6	114.8	115.1	114.6
Merchandise ¹ Durable Nondurable Services ¹	112.1 112.8 110.7 128.9	112.0 114.3 108.0 128.4	113.5	108.6	114.1	111.8 114.3 107.3 128.3	115.4 105.7	111.4 115.9 103.5 129.2
Payments of factor income 3	125.0	129.1	126.6	127.9	128.9	129.6	130.1	
Addenda: Price indexes for exports of goods and services: Chain-type annual weights Benchmark-years weights Price indexes for imports of goods and services:	112.9 112.3							
Chain-type annual weights Benchmark-years weights	113.4 112.3	112.8 111.7	114.1 113.0		113.4 112.4	112.5 111.5		

Exports and imports of certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services.

Consists largely of receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.

^{3.} Consists largely of payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.
NOTE.— Percent changes from preceding period for selected items in this table are shown in table 8.1.

Table 7.10.—Price Indexes for Exports and Imports of Merchandise by End-Use Category, Fixed 1987 Weights

[
			Seasonally adjusted									
	1992	1993	1992		19	93		1994				
			IV	I	II	III	IV	ı				
Exports of merchandise	109.6	110.4	109.7	110.0	110.5	110.5	110.7	111.8				
Foods, feeds, and beverages	114.5 108.3 116.5 104.6 105.8 122.1 58.9 116.5 112.3 118.0 114.5 120.9 113.0 113.0	116.1 109.2 125.2 101.9 105.9 125.6 52.1 117.9 113.2 119.8 115.0 124.0 113.9 113.9	111.7 108.8 118.7 104.4 105.8 123.5 56.3 117.0 113.0 118.8 115.0 122.1 113.4 113.4	113.1 109.1 122.3 103.1 105.8 124.6 54.9 117.1 113.3 119.6 115.4 123.3 113.4 113.4	113.1 110.4 127.5 102.6 106.0 125.4 52.7 117.9 113.3 119.7 114.9 123.9 114.1 114.1	118.2 109.1 126.2 101.3 105.7 125.1 51.2 118.1 119.7 114.8 124.1 113.8 113.8	120.1 108.3 124.9 100.8 106.0 126.8 49.7 118.6 113.3 120.1 114.8 124.8 114.1 114.1	124.8 110.5 128.0 102.5 106.0 127.2 48.9 118.6 113.8 120.4 115.2 124.9 115.3 115.3				
Imports of merchandise	112.1	112.0	113.1	111.6	112.7	111.8	111.9	111.4				
Foods, feeds, and beverages	108.1 114.2 115.3 113.1 100.8 107.3 122.2 61.4 116.5 114.8 118.3 116.9 120.1 114.7	107.9 114.3 117.0 111.5 91.4 108.0 125.6 55.6 118.4 116.9 119.4 120.7 116.0 115.9	107.2 114.4 114.7 114.0 104.0 108.0 123.5 59.0 117.8 115.9 119.8 117.9 122.3 115.8 115.8	105.7 114.8 117.6 111.9 95.5 106.9 124.6 57.8 116.5 115.1 118.8 117.9 119.8 114.8	106.6 115.0 117.4 112.4 99.1 107.7 125.4 56.3 117.8 116.5 119.7 120.9 115.8 115.8	108.8 113.4 115.5 111.1 88.5 108.6 125.2 55.0 119.3 117.0 119.5 118.4 120.8 116.0 116.0	110.7 114.0 117.3 110.4 81.6 109.0 126.9 53.4 120.1 118.9 119.7 118.6 121.1 117.3 117.3	110.9 115.4 120.0 110.6 74.1 108.8 127.2 52.4 120.1 119.5 119.5 118.5 120.7 117.4 117.4				
Addenda: Exports of agricultural products ¹ Exports of nonagricultural products Imports of nonpetroleum products	111.5 109.4 113.4	113.3 110.0 114.3	109.8 109.7 114.2	111.1 109.8 113.4	110.5 110.5 114.3	115.0 109.9 114.4	116.6 109.9 115.3	121.8 110.5 115.6				

^{1.} Includes parts of: exports of foods, feeds, and beverages, of nondurable industrial supplies and materials, and of nondurable consumer goods, except automotive.

Table 7.11.—Price Indexes for Government Purchases by Type, Fixed 1987 Weights

[Index numbers, 1987=100]												
			Seasonally adjusted									
	1992	1993	1992		19	93		1994				
			IV	I	II	III	IV	ı				
Government purchases	120.6	124.3	121.7	123.2	124.0	124.8	125.1	126.2				
Federal	121.8	126.2	122.8	125.1	125.8	126.8	127.0	128.4				
National defense Durable goods Nondurable goods Services Compensation of employees Military Civilian Other services Structures	122.3 113.7 115.6 127.1 134.6 136.6 130.6 116.4 114.0	127.2 117.6 113.1 132.9 143.1 143.8 141.7 118.5 117.7	123.5 115.3 117.8 128.0 135.1 136.6 132.0 117.8 116.2	125.9 117.1 113.0 131.2 140.6 142.3 137.1 117.8 117.2	126.8 117.9 115.9 132.1 141.7 143.3 138.3 118.5 117.4	127.9 117.9 112.6 134.0 144.7 143.9 146.5 118.8 117.3	128.1 117.6 110.8 134.4 145.4 145.7 144.9 118.8 118.8	129.2 117.8 106.1 136.5 148.6 148.6 148.5 119.3 119.7				
Nondefense Durable goods Nondurable goods Commodity Credit Corporation	120.2 101.2	123.0 93.1	120.9 96.9	122.5 94.0	122.5 94.0	123.4 94.1	123.6 90.3	125.8 92.1				
inventory change	107.9 124.5 129.3 117.9 113.7	105.9 129.0 136.4 118.7 116.5	106.0 125.5 130.6 118.4 114.8	106.0 128.0 135.2 118.1 115.1	106.3 128.3 135.7 118.1 116.2	106.0 129.3 136.4 119.3 116.8	105.2 130.4 138.2 119.5 117.7	106.7 133.3 143.0 119.8 118.3				
State and local Durable goods Nondurable goods Services Compensation of employees Other services Structures	119.6 113.2 115.4 122.6 127.5 69.3 109.5	122.8 115.3 116.0 126.1 132.1 60.5 113.1	120.9 113.6 114.9 124.0 129.2 67.0 111.6	121.8 114.5 116.2 125.0 130.6 63.9 111.5	122.7 115.4 117.9 125.7 131.6 60.3 113.0	123.2 115.8 115.6 126.6 132.7 60.1 113.3	123.6 115.6 114.2 127.2 133.5 57.8 114.4	124.6 116.6 115.5 128.1 134.6 57.7 114.8				
Addenda: Price indexes for government purchases: Chain-type annual weights	120.0 120.2	123.5 123.7	121.0 121.3	122.4 122.6	123.2 123.5	123.9 124.2						
defense purchases: Chain-type annual weights Benchmark-years weights Price indexes for Federal nondefense	121.2 121.2	125.8 125.9	122.2 122.2	124.4 124.5	125.3 125.4	126.6 126.6						
purchases: Chain-type annual weights Benchmark-years weights Price indexes for State and local purchases:	119.1 120.5	122.3 123.8	119.7 121.2	121.6 123.0	121.8 123.3	122.5 124.0						
Chain-type annual weights Benchmark-years weights	119.6 119.5	122.7 122.6	120.8 120.7	121.7 121.6	122.6 122.5	123.1 123.0						

Table 7.12.—Price Indexes for National Defense Purchases, Fixed 1987 Weights

			Seasonally adjusted							
	1992	1993	1992		19	93		1994		
			IV	I	II	III	IV	1		
National defense purchases	122.3	127.2	123.5	125.9	126.8	127.9	128.1	129.2		
Durable goods	113.7	117.6	115.3	117.1	117.9	117.9	117.6	117.8		
Military equipment Aircraft Missiles Ships Vehicles Electronic equipment Other Other durable goods	114.4 118.4 98.6 118.4 120.9 109.2 116.6 106.5	118.8 125.7 98.3 121.7 128.0 109.8 118.2 106.1	116.2 121.8 97.4 119.2 124.1 109.6 117.9 106.3	118.2 124.8 99.1 120.7 126.0 109.7 118.2 106.3	119.1 125.3 99.9 121.4 130.8 109.6 118.2 106.2	119.0 127.0 96.8 122.7 126.9 109.6 117.9 105.8	118.8 125.8 97.5 122.1 128.3 110.0 118.3 106.0	118.9 127.5 91.0 123.3 131.0 110.3 118.8 106.3		
Nondurable goods	115.6	113.1	117.8	110.8	106.1					
Petroleum products Ammunition Other nondurable goods	119.7 108.5 117.9	112.5 111.4 115.3	124.2 111.5 116.8	111.1 111.3 116.7	119.7 111.1 116.2	110.8 112.6 114.3	108.3 110.5 113.8	94.0 111.0 114.7		
Services	127.1	132.9	128.0	131.2	132.1	134.0	134.4	136.5		
Compensation of employees	134.6 136.6 130.6 116.4	143.1 143.8 141.7 118.5	135.1 136.6 132.0 117.8	140.6 142.3 137.1 117.8	141.7 143.3 138.3 118.5	144.7 143.9 146.5 118.8	145.4 145.7 144.9 118.8	148.6 148.5 149.3		
development Installation support ¹ Weapons support ² Personnel support ³ Transportation of material Travel of persons Other	111.9 113.5 120.5 134.7 104.6 110.6	113.1 115.7 124.4 136.0 105.2 116.4	113.5 114.5 122.1 136.8 104.5 111.3	113.8 113.8 123.1 134.9 104.9 115.6	113.6 115.4 124.0 136.4 104.8 115.6	113.2 116.8 124.4 136.0 105.8 116.2	111.7 116.9 126.1 136.9 105.3 118.2	112.5 117.0 127.7 136.7 105.3 119.2		
Structures	114.0	117.7	116.2	117.2	117.4	117.3	118.8	119.7		
Military facilities	106.1 128.6	108.3 135.0	107.5 132.2	108.1 133.9	108.0 134.8	107.7 135.0	109.4 136.0	110.7 136.2		
Addenda: Price indexes for national defense purchases: Chain-type annual weights	121.2 121.2	125.8 125.9	122.2 122.2	124.4 124.5	125.3 125.4	126.6 126.6	126.9 127.0			

^{1.} Includes utilities, communications, rental payments, maintenance and repair, and payments to contractors to operate installations.

Table 7.13.—Implicit Price Deflators for the Relation of Gross Domestic Product, Gross National Product, Net National Product, and National Income

[Index numbers, 1987=100]

Gross domestic product	121.1	124.2	122.2	123.3	124.0	124.5	124.9	125.7
Plus: Receipts of factor income from the rest of the world ¹		125.8	- 1		125.6			
rest of the world 2	124.8	128.7	126.3	127.7	128.4	129.2	129.4	
Equals: Gross national product	121.1	124.1	122.2	123.3	124.0	124.4	124.8	
Less: Consumption of fixed capital	110.6	112.2	111.0	111.5	111.9	112.5	112.7	113.2
Equals: Net national product	122.5	125.7	123.6	124.8	125.5	126.0	126.4	
Less: Indirect business tax and nontax liability plus business transfer payments less subsidies plus current surplus of government enterprises	131.3 119.8		131.0 120.9					
Equals: National income	121.6	125.1	122.9	124.5	124.9	125.1	125.7	
Addenda: Net domestic product Domestic income	122.5 121.7	125.8 125.1	123.7 123.0	124.9 124.6		126.1 125.2	126.5 125.8	

^{1.} Consists largely of receipts by U.S. residents of interest and dividends and reinvested earnings of foreign affiliates of U.S. corporations.

Table 7.14.—Implicit Price Deflators for Gross Domestic Product by Sector

[Index numbers, 1987=100]

				Se	asonally	/ adjust	ed	
	1992	1993	1992		19	93		1994
			IV	ı	Ш	III	IV	ı
Gross domestic product	121.1	124.2	122.2	123.3	124.0	124.5	124.9	125.7
Business	119.8	122.6	120.9	121.8	122.5	122.9	123.2	123.9
Nonfarm	120.1 119.5 125.5 106.1 119.8	127.3	120.8	121.6 126.9 107.1	126.8 109.3	122.7 127.4 108.3	128.1 117.8	123.9 123.1 131.9 123.0 123.9
Households and institutions	127.7	131.9	129.8	131.3	131.3	131.9	133.2	134.7
Private households Nonprofit institutions	115.7 128.2	119.4 132.5	117.4 130.4					121.7 135.3
General government	129.0	134.4	130.3	132.8	133.8	135.1	136.0	137.8
FederalState and local	132.8 127.4							146.5 134.4
Addendum: Gross domestic business product less housing	119.3							

Table 7.15.—Current-Dollar Cost and Profit Per Unit of Constant-Dollar Gross Domestic Product of Nonfinancial Corporate Business

[Dollars]

	-	-						
Current-dollar cost and profit per unit of constant-dollar gross domestic product 1	1.149	1.164	1.154	1.162	1.164	1.164	1.165	
Consumption of fixed capital	.125	.123	.122	.124	.123	.124	.122	
Net domestic product	1.024	1.040	1.032	1.037	1.041	1.039	1.044	
Indirect business tax and nontax liability plus business transfer payments less subsidies	.116 .908 .762	.118 .923 .768	.116 .916 .761		.118 .923 .770		.925	
consumption adjustments Profits tax liability Profits after tax with inventory valuation and capital	.099 .035	.109 .040	.109 .037	.102 .037	.108 .040	.108 .038	.118 .044	
consumption adjustments Net interest	.064 .048	.069 .046	.072 .046	.065 .047	.068 .046	.070 .045	.075 .044	

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

^{2.} Includes depot maintenance and contractual services for weapons systems, other than research and development.

^{3.} Includes compensation of foreign personnel, consulting, training, and education.

^{2.} Consists largely of payments to foreign residents of interest and dividends and reinvested earnings of U.S. affiliates of foreign corporations.

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

[Percent]

					•	•											
			Sea	sonally	adjuste	d at an	nual ra	tes				Sea	sonally	adjuste	d at an	nual ra	tes
	1992	1993	1992		199	93		1994		1992	1993	1992		19	93		1994
			IV	I	II	III	IV	I				IV	- 1	II	III	IV	_
Gross domestic product: Current dollars	5.5 2.6 2.3 2.4	5.6 3.0 2.7 2.7	9.2 5.7 5.5 5.5	4.4 .8 .4 .4	4.3 1.9 1.8 1.8	4.4 2.9 2.2 2.2	8.4 7.0 6.2 6.2		Structures: Current dollars Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	-5.5 -6.0 -6.0 -6.0	3.5 .6 .7	.7 -2.1 -1.9 -1.9	3.1 .5 .6	12.6 8.1 8.4 8.4	3.4 .3 .3	15.8 12.2 11.9 11.9	-16.1
Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights .	3.3 3.1 3.2	3.1 2.9 2.9	3.1 2.8 2.9	4.3 4.1 4.1	2.8 2.7 2.7	2.1 2.1 2.1 2.1	2.3 2.4 2.4		Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights .	.6 .6	2.8 2.8 2.8	2.7 2.8 2.8	2.5 2.4 2.4	3.8 3.9 3.9	3.4 3.3 3.3	3.2 3.3 3.3	2.5
Personal consumption expenditures: Current dollars Quantity indexes:	6.0	6.1	9.9	3.8	6.1	5.5	6.8	5.2	Producers' durable equipment: Current dollars	5.3	13.3	10.3	14.3	19.7	3.9	23.8	13.9
Fixed 1987 weights	2.6 2.3 2.5	3.3 3.0 3.1	5.6 5.1 5.2	.8 .6 .6	3.4 3.2 3.2	4.4 4.0 4.0	4.4 3.9 3.9		Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights .	6.9 4.7 5.7	16.3 13.5 13.8	11.5 11.6 11.9	19.9 14.5 14.5	19.8 19.1 19.1	10.0 4.7 4.7	26.0 25.0 25.0	13.5
Fixed 1987 weights Chain-type annual weights Benchmark-years weights Durable goods:	3.7 3.6 3.6	3.0 2.9 2.9	3.1 2.9 3.0	3.4 3.3 3.3	2.9 2.9 2.9	1.4 1.5 1.5	2.8 2.8 2.8		Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights .	1.3 .5 .8	1.1 .1 .2	2 -1.1 9	1.2 .3 .3	1.8 .8 .8	1.0 .3 .3	.1 5 5	1.3
Current dollarsQuantity indexes:	8.6	8.2	13.1	-1.0	13.3	8.0	16.3		Residential: Current dollarsQuantity indexes:	17.9	12.9	37.5	5.2	-4.8	16.5	36.4	11.5
Fixed 1987 weights	7.0 6.7 6.8	7.3 6.5 6.6	13.2 12.1 12.2	-1.3 -2.2 -2.2	10.8 10.4 10.4	7.6 6.4 6.4	15.2 14.1 14.1	9.7	Fixed 1987 weights	16.3 16.3 16.3	8.7 8.7 8.7	32.8 32.9 32.8	1.5 1.6 1.6	-9.5 -9.4 -9.4	11.9 11.8 11.8	31.7 31.9 31.9	
Fixed 1987 weights	2.2 1.8 2.0	2.0 1.7 1.7	1.1 1.0 1.1	1.8 1.4 1.4	3.3 2.8 2.8	2.0 1.8 1.8	2.6 2.4 2.4		Fixed 1987 weights Chain-type annual weights Benchmark-years weights	1.3 1.4 1.4	3.8 3.8 3.8	3.7 3.6 3.6	3.5 3.4 3.4	5.0 5.1 5.1	4.6 4.3 4.3	3.2 3.1 3.1	2.2
Current dollarsQuantity indexes: Fixed 1987 weights Chain-type annual weights	3.4 1.4 1.4	3.8 2.4 2.2	7.3 7.0	1.1 -2.1 -2.2	2.9 2.7 2.5	2.3 3.7 3.5	4.5 2.7 2.5	2.4	Exports of goods and services: Current dollars Quantity indexes: Fixed 1987 weights Chain-type annual weights	6.5 6.4 5.6	3.3 3.5 2.6	8.8 8.8 8.1	-2.1 -2.4 -2.7	5.5 3.6 3.3	-4.1 9 -3.4	19.1 20.4 19.3	-7.7 -9.3
Benchmark-years weights Price indexes: Fixed 1987 weights Chain-type annual weights	1.4 2.1 2.0	2.3 1.6 1.5	7.0 1.3 1.1	-2.2 3.5 3.4	2.5 .5 .4	3.5 -1.6 -1.3	2.5 1.8 1.9	.3	Benchmark-years weights	6.0 1.2	2.7 2.7 1.5	8.2 1.4	-2.7 -2.7 1.5 .8	3.3 2.8 2.4	-3.4 -3.4 .6	19.3 19.3 .7	3.7
Benchmark-years weights Services: Current dollars	2.1 6.9	1.5 6.9	1.2	3.4 6.4	6.3	-1.3 6.8	1.9 6.0		Benchmark-years weights Imports of goods and services:	1.0	1.0	.9		2.4	0	.3	
Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	2.2 2.0 2.1	2.9 2.7 2.8	2.9 2.6 2.8	3.1 2.8 2.8	2.1 2.0 2.0	3.9 3.8 3.8	2.6 2.5 2.5	3.1	Current dollars Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	7.9 8.7 7.2 7.9	8.2 10.3 8.7 8.9	5.6 5.0 5.2	3.6 11.6 9.8 9.8	15.3 13.3 11.8 11.8	6.0 3.8 3.8	15.4 16.4 15.3 15.3	2 2.8
Fixed 1987 weights Chain-type annual weights Benchmark-years weights	5.0 4.8 4.9	4.0 3.9 4.0	4.6 4.4 4.5	3.7 3.7 3.7	4.3 4.2 4.2	2.9 2.9 2.9	3.4 3.4 3.4		Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	1.2 .6 .8	1 5 5		-4.7 -5.3 -5.3	3.8 3.2 3.2	-2.7 -3.1 -3.1	1.1 .2 .2	-1.6
Gross private domestic investment: Current dollars Quantity indexes:	8.1	12.0	16.4		0	4.6	24.9		Government purchases: Current dollars	3.0	2.3	1.7	-1.4	6.8	2.2	1.5	-1.6
Fixed 1987 weights	8.5 7.4 7.9	11.9 10.2 10.3	13.3 13.8 13.8	19.3	.3 -1.2 -1.2	5.0 2.0 2.0	25.8 25.1 25.1	17.4	Fixed 1987 weights	1 2 2	7 6 6		-6.4 -5.9 -5.9	4.3 4.0 4.0	.3 0 0	0 .1 .1	-6.2
Fixed 1987 weights Chain-type annual weights Benchmark-years weights Fixed investment:									Fixed 1987 weights	3.4 3.1 3.2	3.1 2.9 3.0	2.6 2.5 2.5	5.0 4.6 4.6	2.6 2.7 2.7	2.5 2.4 2.4	1.0 1.5 1.5	
Current dollarsQuantity indexes: Fixed 1987 weights	5.8 6.2	11.0 11.0	15.3 14.0	9.2	10.6 9.0	7.3 8.5	25.6 24.8	7.2 6.4	Federal: Current dollars Quantity indexes: Fixed 1987 weights	.7	-1.2	4 2.5	-8.3	4.4	-3.4	-3.2	
Chain-type annual weights Benchmark-years weights Price indexes:	5.1 5.6	9.4 9.5	14.1 14.3	7.7 7.7	8.2 8.2	5.7 5.7	24.1 24.1		Chain-type annual weights Benchmark-years weights Price indexes:	-3.5 -3.4 -3.5	-4.6 -4.5		-16.2 -15.0 -15.0	2.0 2.2 2.2	-6.2 -6.5 -6.5		
Fixed 1987 weights	1.1 .8 .9	2.4 1.8 1.8	1.7 1.1 1.2	2.2 1.7 1.7	3.3 2.7 2.7	2.7 2.1 2.1	1.9 1.4 1.4		Fixed 1987 weights Chain-type annual weights Benchmark-years weights	4.5 4.2 4.4	3.6 3.4 3.5	2.1 1.8 2.0	7.5 7.2 7.2	2.3 2.3 2.3	3.3 3.5 3.5	.5 1.5 1.5	
Current dollarsQuantity indexes: Fixed 1987 weights	1.7 2.9	10.3 11.8	7.4 7.6	10.9 14.4	17.4 16.6	3.8 7.4	21.4 22.5		National defense: Current dollars Quantity indexes: Fixed 1987 weights	-2.7 -7.1	-3.3 -7.2	-1.3 -4.6	-13.1 -21.4	3.7	-7.2 -9.8	-3.5 -4.9	-8.3 -13.9
Chain-type annual weights Benchmark-years weights Price indexes:	1.2 2.0	9.6 9.8	7.4 7.6	10.3 10.3	16.0 16.0	3.4 3.4	21.2 21.2		Chain-type annual weights Benchmark-years weights Price indexes:	–7.1 –7.1	-6.8 -6.7	-3.0 -2.9	-19.6 -19.6	.8 .8	-10.6 -10.6	-4.1 -4.1	
Fixed 1987 weights Chain-type annual weights Benchmark-years weights	1.1 .5 .7	1.7 .9 1.0	.8 .1 .2	1.6 1.0 1.0	2.5 1.8 1.8	1.9 1.2 1.2	1.2 .6 .6		Fixed 1987 weights Chain-type annual weights Benchmark-years weights	4.9 4.7 4.8	4.0 3.8 3.9		8.1 7.6 7.6	3.0 2.9 2.9	3.5 4.0 4.0	.5 1.0 1.0	3.7

Table 8.1.—Percent Change From Preceding Period in Selected Series—Continued

[Percent]

[Percent]											
			Sea	easonally adjusted at annual rates							
	1992	1993	1992		19	93		1994			
			IV	I	II	III	IV	ı			
Nondefense: Current dollars	9.4	3.8	1.8	3.6	6.2	4.9	-2.8	1.4			
Quantity indexes: Fixed 1987 weights	6.2	.6	4	-3.2	5.5	2.5	-6.5	-7.6			
Chain-type annual weights Benchmark-years weights Price indexes:	6.2 6.2	.8 .8	1 1	-3.5 -3.5	5.5 5.5	2.9 2.9					
Fixed 1987 weights Chain-type annual weights Benchmark-years weights	3.1 3.1 3.1	2.4 2.7 2.7	1.9 1.9 1.9	5.7 6.3 6.3	0 .8 .8	2.9 2.3 2.3	.6 2.6 2.6	7.3			
State and local: Current dollars	4.5	4.6	3.1	3.3	8.3	5.8	4.5	.6			
Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	2.2 2.1 2.1	2.1 2.0 2.0	0 .1 .1	.3 .4 .4	5.6 5.2 5.2	4.5 4.2 4.2	3.3 3.1 3.1	-2.6 			
Fixed 1987 weights Chain-type annual weights Benchmark-years weights	2.5 2.4 2.4	2.6 2.6 2.6	2.9 2.9 2.9	3.0 2.9 2.9	2.9 3.0 3.0	1.8 1.6 1.6		3.0			
Addenda: Final sales of domestic product: Current dollars	5.2	5.5	9.1	2.9	5.7	4.8	8.5	3.5			
Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	2.3 2.0 2.1	2.8 2.6 2.5	5.8 5.6 5.5	8 -1.1 -1.1	3.2 3.0 3.0	3.4 2.7 2.7	6.8 6.1 6.1	.9			
Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	3.3 3.1 3.2	3.1 2.9 3.0	3.2 2.7 2.8	4.3 4.1 4.1	2.8 2.7 2.7	2.1 2.1 2.1	2.3 2.4 2.4	2.9			
Gross domestic purchases: Current dollars	5.7	6.2	9.1	5.0	5.4	4.8	8.1	6.0			
Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights Price indexes:	2.9 2.5 2.7	3.8 3.3 3.3	5.4 5.1 5.1	2.5 1.7 1.7	3.1 2.7 2.7	3.7 3.0 3.0	6.7 6.0 6.0	4.1			
Fixed 1987 weights	3.3 3.1 3.2	2.9 2.8 2.8	2.8 2.7 2.7	3.5 3.4 3.4	2.9 2.8 2.8	1.8 1.7 1.7		2.3			
Final sales to domestic purchasers: Current dollars Quantity indexes:	5.4	6.0	9.0	3.5	6.8	5.2	8.2	4.2			
Fixed 1987 weights	2.5 2.2 2.4	3.7 3.2 3.2	5.5 5.2 5.2	.8 .3 .3	4.4 4.0 4.0	4.2 3.5 3.5		2.4			
Fixed 1987 weights	3.3 3.1 3.2	2.9 2.8 2.8	2.8 2.7 2.7	3.5 3.3 3.3	2.9 2.8 2.8	1.8 1.7 1.7		2.4			
Gross national product: Current dollars	5.4	5.5	8.5	4.6	4.2	4.8	7.6				
Quantity indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	2.5 2.2 2.3	2.9 2.6 2.6	5.0 4.9 4.8	1.0 .6 .6	1.9 1.7 1.7	3.3 2.7 2.7	5.4				
Price indexes: Fixed 1987 weights Chain-type annual weights Benchmark-years weights	3.3 3.1 3.2	3.1 2.9 2.9	3.1 2.7 2.8	4.3 4.1 4.1	2.8 2.7 2.7	2.1 2.1 2.1	2.4				
Command-basis gross national product: Quantity index, fixed 1987 weights	2.5	3.1	4.7	1.9	1.9	3.7	6.1				
Disposable personal income: Current dollars	6.4 2.9	4.6 1.9	15.1 10.6	-5.1 -7.8	8.5 5.8	2.7 1.6	7.8 5.4	4.1 2.7			

NOTE.—Except for disposable personal income, the quantity and price indexes in this table are calculated from weighted averages of the detailed output and prices used to prepare each aggregate and component. The fixed-weighted measures use as weights the composition of output in 1987. For the alternative indexes, the chain-type indexes with annual weights use weights for the preceding and current years, and the indexes with benchmark-years weights use weights of 1959, 1963, 1967, 1972, 1977, 1982, and 1987 and the most recent year.

Table 8.2.—Selected Per Capita Product and Income Series in Current and Constant Dollars and Population of the United States

[Dollars]

	[Dollais]														
		Seasonally adjusted at annual rates													
	1992	1993	1992		19	193		1994							
		[IV	I	II	III	IV	ı							
Current dollars:															
Gross domestic product			24,143	24,346	24,538	24,732	25,166	25,426							
product	24,697 20,864			24,536 20,837											
income Personal consumption	17,615	18,225	18,153	17,876	18,196	18,265	18,561	18,705							
expenditures Durable goods Nondurable	16,205 1,947	17,006 2,083			16,907 2,062										
goods 5,092 Services 9,166		5,227 9,695				5,229 9,763									
Constant (1987) dollars:															
Gross domestic product	19,518	19,888	19,754	19,744	19,786	19,869	20,150	20,231							
product Disposable personal	19,548	19,897	19,755	19,754	19,793	19,898	20,143								
income Personal consumption	14,219	14,330	14,490	14,163	14,326	14,341	14,491	14,554							
expenditures Durable goods Nondurable	13,081 1,787	13,372 1,897													
goods Services	4,161 7,133	4,213 7,261													
Population (mid- period, thousands)	255,472	258,254	256,569	257,197	257,872	258,612	259,334	259,949							

Table 8.3.—Auto Output

[Billions of dollars]

		Seasonally adjusted at annual ra											
	1992	1993	1992		19	93		1994					
			IV	-	II	III	IV	I					
Auto output	133.2	142.5	136.4	142.8	145.9	134.6	146.7	166.3					
Final sales Personal consumption expenditures New autos Net purchases of used autos Producers' durable equipment New autos Net purchases of used autos Net exports Exports Imports Government purchases	133.5 126.7 87.3 39.5 37.6 62.2 -24.6 -32.8 14.3 47.0 2.0	134.3 91.3 43.0 39.1 67.0 -28.0 -37.7 14.5 52.2	40.6 37.1 62.7 -25.6 -32.6 15.9 48.4	127.7 86.8 40.9 36.9 61.8 -24.9 -35.3 14.5	133.6 90.3 43.3 42.2 72.6 -30.4 -37.0 14.9	135.4 90.2 45.2 38.9 67.4 -28.5 -39.3 13.2	140.7 98.1 42.6 38.2 66.4 -28.2 -39.2 15.4	40.7 71.5 -30.8 -32.0					
Change in business inventories of new and used autos New	- .3 .3 6	4.9 3.4 1.4		11.4 12.0 7	5.0 1.6 3.5		5.5 3.5 2.0	5.1 6.1 -1.0					
Addenda: Domestic output of new autos ¹ Sales of imported new autos ²	104.1 60.1												

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

Table 8.5.—Truck Output

[Billions of dollars]

Truck output 1	83.3	101.3	93.7	100.0	97.0	98.0	110.3	127.2
Final sales	82.2	101.8	92.0	92.4	102.0	99.9	113.1	123.1
Personal consumption expenditures	43.3	52.3	47.8	49.7	52.0	50.0	57.7	61.2
Producers' durable equipment	37.1	49.2	41.1	45.3	48.2	48.6	54.8	60.2
Net exports	-5.1	-5.4	-4.6	-6.7	-6.4	-4.8	-3.6	-3.5
Exports	5.6	5.8	6.0	5.2	5.7	5.4	6.9	6.6
Imports	10.7	11.2	10.7	11.9	12.1	10.2	10.5	10.1
Government purchases	6.9	5.6	7.7	4.1	8.2	6.0	4.2	5.2
Change in business inventories	1.2	5	1.7	7.7	-5.0	-1.9	-2.8	4.2

^{1.} Includes new trucks only.

Table 8.4.—Auto Output in Constant Dollars

[Billions of 1987 dollars]

•											
		Seasonally adjusted at annual ra									
	1992	1993	1992		19		1994				
			IV	I	II	III	IV	1			
Auto output	117.4	121.1	120.1	122.5	123.4	113.5	125.0	138.0			
Final sales Personal consumption expenditures New autos Net purchases of used autos Producers' durable equipment New autos Net purchases of used autos Net exports Exports Imports Government purchases	117.8 113.9 77.9 36.0 32.8 55.5 -22.7 -30.5 12.7 43.3 1.7	115.5 79.5 36.0 34.7 58.4 -23.7 -34.1 12.7	35.9 32.7 55.5 -22.8 -30.4 14.1	112.2 76.5 35.7 32.6 54.5 –21.9		115.4 78.2 37.2 34.6 58.5 -23.9 -35.4 11.6	118.8 84.4 34.0 57.1 -23.2 -34.9 13.6	-27.7 14.5			
Change in business inventories of new and used autos New	- .4 .1 6	3.4 2.2 1.2	. 5 .6 –.1	8.5 9.1 6	2.2 7 3.0	−2.9 −3.7 .8	5.8 4.2 1.6	1.6 2.58			
Addenda: Domestic output of new autos ¹ Sales of imported new autos ²	92.8 53.6	96.3 55.8	96.8 53.6	99.9 52.5	96.5 57.3	85.8 60.4	102.9 53.2	111.2 55.5			

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

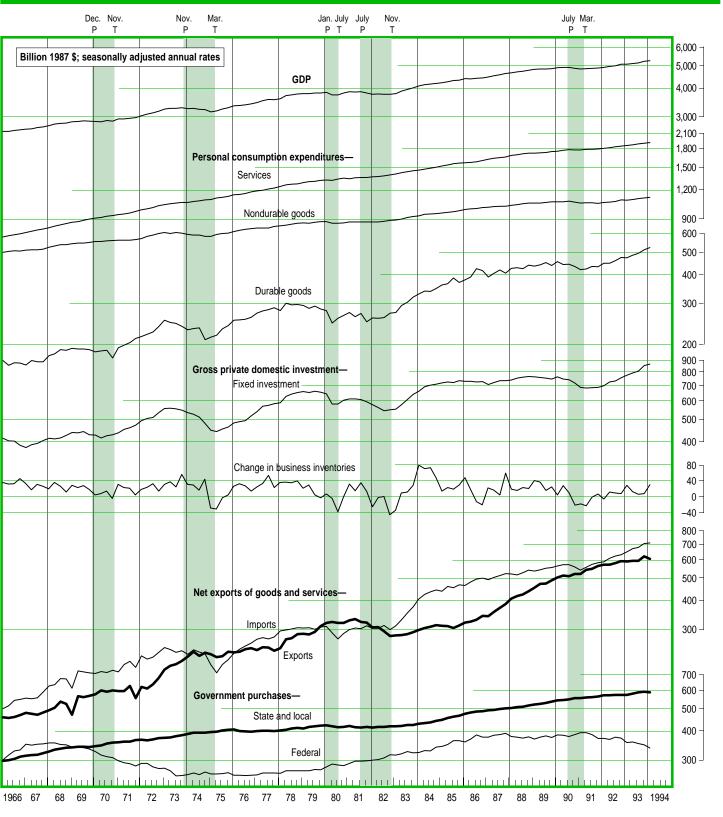
Table 8.6.—Truck Output in Constant Dollars

[Billions of 1987 dollars]

Truck output 1	71.4	83.5	79.5	83.7	80.2	79.9	90.1	102.5
Final sales	70.4	83.8	78.1	77.3	84.2	81.4	92.3	99.2
Personal consumption expenditures	37.1	43.3	40.7	42.0	43.3	40.9	46.9	49.5
Producers' durable equipment	31.8	40.4	34.8	37.6	39.6	39.5	44.8	48.4
Net exports	-4.4	-4.5	-3.9	-5.7	-5.4	-4.0	-2.9	-2.9
Exports	4.8	4.8	5.1	4.4	4.6	4.4	5.7	5.3
Imports	9.1	9.2	9.1	10.1	10.0	8.4	8.6	8.1
Government purchases	5.9	4.6	6.6	3.4	6.7	4.9	3.5	4.2
Change in business inventories	1.0	4	1.4	6.3	-4.1	-1.5	-2.3	3.3

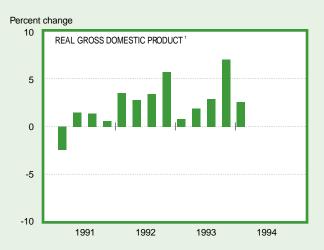
^{1.} Includes new trucks only.

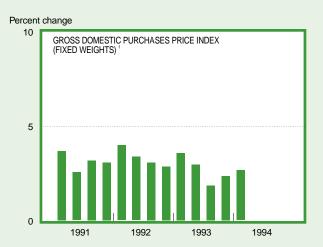
REAL GDP AND ITS COMPONENTS: TRENDS AND CYCLES

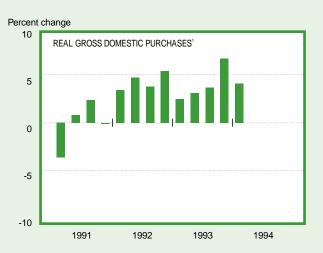


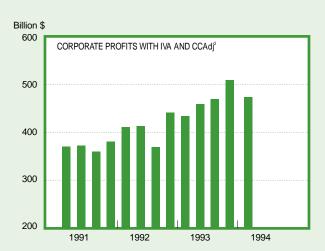


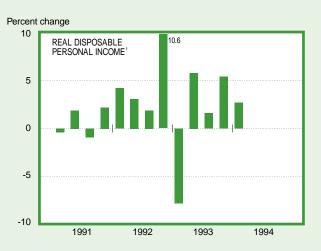
SELECTED SERIES: RECENT QUARTERS













- Percent change at annual rate from preceding quarter; based on seasonally adjusted estimates.
 Seasonally adjusted annual rate; IVA is inventory valuation adjustment, and CCAdj is capital consumption adjustment.
 Personal saving as percentage of disposable personal income; based on seasonally adjusted estimates.

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

Selected Monthly Estimates

Table 1.—Personal Income

[Billions of dollars; monthly estimates seasonally adjusted at annual rates]

	1992	4000	1993										1994			
	1992	1993	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. r	Feb. r	Mar. P
Personal income	5,144.9	5,388.3	5,249.1	5,289.2	5,365.6	5,380.4	5,373.6	5,365.1	5,432.3	5,440.6	5,478.7	5,511.2	5,548.1	5,501.1	5,600.0	5,633.1
Wage and salary disbursements Private industries Commodity-producing industries Manufacturing Distributive industries Service industries Government	2,973.1 2,405.6 756.5 577.6 682.0 967.0 567.5	3,080.5 2,490.8 763.6 577.3 706.6 1,020.6 589.7	2,976.3 2,393.9 742.7 561.0 684.3 967.0 582.3	2,975.8 2,392.9 740.8 559.6 683.0 969.0 583.0	3,068.3 2,483.8 765.2 582.1 704.9 1,013.6 584.5	3,093.8 2,507.3 766.7 580.3 713.1 1,027.5 586.4	3,086.0 2,497.9 763.3 578.4 709.2 1,025.4 588.1	3,101.6 2,511.3 766.8 579.5 713.2 1,031.3 590.3	3,124.3 2,531.8 769.4 581.2 717.3 1,045.1 592.6	3,120.4 2,524.9 772.1 583.7 712.8 1,040.0 595.5	3,137.7 2,543.3 774.6 584.0 719.0 1,049.7 594.4	3,147.1 2,552.0 779.4 587.5 718.4 1,054.1 595.1	3,164.0 2,567.2 783.9 591.8 722.9 1,060.4 596.8	3,191.5 2,590.6 785.6 592.1 731.4 1,073.6 600.9	3,197.8 2,595.6 790.3 597.2 731.4 1,073.8 602.2	3,212.9 2,610.1 792.6 598.1 737.6 1,079.8 602.8
Other labor income	322.7	350.7	338.5	341.2	343.9	346.6	349.3	352.0	354.7	357.4	360.1	362.9	365.8	368.8	371.9	375.1
Proprietors' income with IVA and CCAdj Farm Nonfarm	414.3 43.7 370.6	443.2 46.0 397.3	436.9 48.2 388.7	470.2 82.0 388.2	449.4 59.7 389.7	437.9 45.2 392.7	430.8 36.0 394.8	403.8 10.6 393.1	430.5 31.1 399.4	433.2 32.7 400.4	449.8 43.9 406.0	470.4 60.0 410.4	480.8 65.3 415.4	464.7 54.1 410.6	478.0 62.2 415.8	484.1 63.6 420.5
Rental income of persons with CCAdj	-8.9	12.6	9.5	8.1	14.3	12.0	11.9	7.1	16.1	17.9	16.8	16.4	15.9	-43.7	24.6	29.5
Personal dividend income	140.4	158.3	157.1	157.2	157.5	157.8	158.2	158.6	159.0	159.3	159.4	159.4	159.5	159.7	160.4	162.0
Personal interest income	694.3	695.2	695.3	695.2	694.1	693.1	692.0	693.6	695.7	697.8	697.3	696.7	696.2	697.9	700.1	702.5
Transfer payments to persons Old-age, survivors, disability, and health insurance benefits Government unemployment insurance benefits	858.4 413.9 39.2 405.2	912.1 438.4 34.1 439.6	892.6 432.5 32.9 427.2	898.3 432.5 36.0 429.7	901.7 434.7 34.0 433.0	904.5 435.1 32.8 436.7	910.2 435.3 36.4 438.4	914.3 438.9 34.3 441.1	919.4 438.4 36.2 444.7	921.8 441.0 34.7 446.2	925.9 444.1 32.0 449.8	927.5 444.3 31.8 451.4	936.2 450.0 32.9 453.2	940.7 455.0 28.6 457.1	946.2 458.4 27.0 460.7	947.0 459.3 25.1 462.6
Less: Personal contributions for social insurance	249.3	264.3	256.9	256.9	263.5	265.3	264.9	265.9	267.4	267.0	268.3	269.1	270.2	278.4	278.9	280.0
Addenda: Total nonfarm income Total farm income ¹	5,080.1 64.8	5,320.0 68.3	5,179.0 70.1	5,185.1 104.0	5,283.7 81.9	5,312.8 67.6	5,315.0 58.6	5,332.2 33.0	5,378.7 53.6	5,385.4 55.3	5,412.1 66.6	5,428.4 82.8	5,459.9 88.3	5,423.9 77.2	5,514.6 85.4	5,546.1 87.0

P Preliminary.

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

CCAdj Capital consumption adjustment IVA Inventory valuation adjustment

Table 2.—The Disposition of Personal Income

[Monthly estimates seasonally adjusted at annual rates]

			livionthly 6	estimates	seasonali	y adjusted	at annu	iai ratesj								
	4000	1000						1993							1994	
	1992	1993	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. r	Feb. r	Mar. P
						В	illions of de	ollars, unles	ss otherwise	e indicated						
Personal income	5,144.9	5,388.3	5,249.1	5,289.2	5,365.6	5,380.4	5,373.6	5,365.1	5,432.3	5,440.6	5,478.7	5,511.2	5,548.1	5,501.1	5,600.0	5,633.1
Less: Personal tax and nontax payments	644.8	681.6	657.3	659.0	677.8	683.1	682.0	685.5	690.7	690.9	694.8	698.7	704.1	712.9	715.3	718.9
Equals: Disposable personal income	4,500.2	4,706.7	4,591.9	4,630.1	4,687.8	4,697.3	4,691.6	4,679.6	4,741.6	4,749.7	4,783.9	4,812.5	4,844.0	4,788.3	4,884.7	4,914.2
Less: Personal outlays	4,261.5	4,516.8	4,435.1	4,409.8	4,459.4	4,481.9	4,509.4	4,527.6	4,544.0	4,560.4	4,604.7	4,618.7	4,636.9	4,635.1	4,693.5	4,712.6
Personal consumption expenditures Durable goods Nondurable goods Services	4,139.9 497.3 1,300.9 2,341.6	4,391.8 537.9 1,350.0 2,503.9	4,311.6 508.2 1,345.0 2,458.4	4,286.1 506.7 1,327.2 2,452.2	4,335.8 526.6 1,342.3 2,466.9	4,358.7 532.7 1,344.1 2,481.8	4,385.3 535.6 1,348.1 2,501.6	4,403.3 540.0 1,349.6 2,513.7	4,419.2 544.1 1,350.5 2,524.6	4,434.8 541.6 1,357.1 2,536.1	4,477.9 559.4 1,366.3 2,552.1	4,490.8 562.1 1,366.0 2,562.7	4,507.4 566.8 1,370.0 2,570.5	4,504.3 567.7 1,359.9 2,576.7	4,562.5 577.3 1,383.9 2,601.2	4,581.4 587.3 1,384.3 2,609.8
Interest paid by personsPersonal transfer payments to rest of the world (net)	111.1 10.4	114.0 11.0	112.4 11.0	112.7 11.0	112.7 11.0	112.2 11.0	113.1 11.0	113.5 10.8	114.0 10.8	114.8 10.8	115.6 11.2	116.6 11.2	118.3 11.2	119.2 11.7	119.3 11.7	119.5 11.7
Equals: Personal saving	238.7	189.9	156.8	220.4	228.4	215.4	182.3	152.0	197.7	189.3	179.2	193.9	207.2	153.2	191.2	201.6
Addenda: Disposable personal income: Total, billions of 1987 dollars ¹ Per capita: Current dollars 1987 dollars Population (thousands)	3,632.5 17,615 14,219 255,472	3,700.9 18,225 14,330 258,254	3,636.5 17,854 14,139 257,190	3,660.4 17,988 14,220 257,403	3,694.2 18,196 14,339 257,631	3,697.7 18,216 14,339 257,870	3,691.2 18,176 14,301 258,115	3,678.5 18,113 14,238 258,356	3,721.3 18,335 14,389 258,612	3,726.3 18,348 14,395 258,869	3,740.2 18,463 14,435 259,106	3,755.5 18,557 14,481 259,336	3,778.1 18,663 14,556 259,556	3,741.1 18,434 14,402 259,757	3,798.2 18,791 14,612 259,947	3,810.5 18,890 14,648 260,143
Personal consumption expenditures: Total, billions of 1987 dollars Durable goods Nondurable goods Services Implicit price deflator, 1987=100	3,341.8 456.6 1,062.9 1,822.3 123.9	3,453.2 490.0 1,088.1 1,875.2 127.2	3,414.5 465.5 1,082.2 1,866.9 126.3	3,388.4 464.4 1,067.4 1,856.6 126.5	3,416.7 479.5 1,079.0 1,858.3 126.9	3,431.2 485.2 1,081.7 1,864.3 127.0	3,450.2 487.9 1,088.8 1,873.6 127.1	3,461.2 491.8 1,089.8 1,879.6 127.2	3,468.2 494.9 1,090.0 1,883.3 127.4	3,479.2 492.5 1,099.1 1,887.7 127.5	3,500.9 506.6 1,100.4 1,894.0 127.9	3,504.4 509.9 1,098.3 1,896.1 128.1	3,515.5 516.3 1,101.8 1,897.3 128.2	3,519.2 515.8 1,094.1 1,909.3 128.0	3,547.7 523.0 1,113.6 1,911.1 128.6	3,552.4 530.0 1,112.3 1,910.2 129.0
Personal saving as percentage of disposable personal income ²	5.3	4.0	3.9	4.4	4.7	4.4	3.9	3.8	3.8	4.0	3.9	4.0	3.8	3.8	3.7	
							Percent of	change fron	n preceding	period						
Personal income, current dollars	6.1	4.7	0.4	0.8	1.4	0.3	-0.1	-0.2	1.3	0.2	0.7	0.6	0.7	-0.8	1.8	0.6
Disposable personal income: Current dollars	6.4 2.9	4.6 1.9	.5 .2	.8 .7	1.2 .9	.2 .1	1 2	3 3	1.3 1.2	.2 .1	.7 .4	.6 .4	.7 .6	-1.1 -1.0	2.0 1.5	.6 .3
Personal consumption expenditures: Current dollars 1987 dollars	6.0 2.6	6.1 3.3	.5 .2	6 8	1.2	.5 .4	.6 .6	.4 .3	.4 .2	.4 .3	1.0	.3 .1	.4 .3	1 .1	1.3	.4 .1

Equals farm proprietors' income, farm wages, farm other labor income, and agricultural net interest.

Revised.

1. Disposable personal income in 1987 dollars equals the current-dollar figure divided by the implicit price deflator for personal consumption expenditures.

Monthly estimates equal the centered 3-month moving average of personal saving as a percentage of the centered 3-month moving average of disposable personal income.Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Table 3.—U.S. International Transactions in Goods and Services

[Millions of dollars; monthly estimates seasonally adjusted]

	1992	1993						1993							1994			
	1992	1993	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan. r	Feb. P	Mar.		
Exports of goods and services	619,848	643,563	51,829	54,090	53,568	53,746	52,563	52,399	52,731	53,660	54,957	54,735	57,250	54,296	52,902			
Foods Foods, feeds, and beverages Industrial supplies and materials Capital goods, except automotive Automotive vehicles, engines, and parts Consumer goods (nonfood), except automotive Other goods Adjustments I	440,138 40,209 109,307 176,709 47,080 50,382 24,476 -8,026	456,771 40,391 111,953 183,037 51,691 53,413 24,288 -8,002	36,253 3,447 8,683 14,251 4,380 4,237 1,931 -675	38,382 3,468 9,238 15,579 4,307 4,351 1,951 -513	37,841 3,411 9,109 15,226 4,424 4,242 2,067 -638	38,249 3,310 9,676 15,278 4,298 4,501 1,866 -681	36,977 3,151 8,833 15,255 4,115 4,291 1,994 -662	36,577 3,223 9,327 14,336 3,792 4,442 1,989 -532	37,224 3,053 8,967 15,296 4,170 4,491 2,073 -826	38,134 3,432 9,581 14,999 4,125 4,597 2,151 -751	39,371 3,499 9,893 15,579 4,521 4,559 2,041 -721	39,451 3,472 9,681 15,565 4,740 4,791 1,987 -785	41,469 3,666 9,792 17,186 4,635 4,666 2,288 -765	38,528 3,314 8,977 16,097 4,425 4,515 1,979 -778	37,165 3,174 8,605 15,242 4,497 4,425 1,956 -734			
Services Travel Passenger fares Other transportation Royalties and license fees Other private services Transfers under U.S. military agency sales contracts ² U.S. Government miscellaneous services	179,710 53,861 17,353 22,773 20,238 53,601 11,015 869	186,792 56,501 17,849 23,508 20,414 56,434 11,259 827	15,576 4,722 1,519 1,891 1,628 4,735 1,027 54	15,708 4,668 1,491 2,026 1,646 4,774 1,039 63	15,727 4,796 1,522 2,000 1,725 4,588 1,002 94	15,497 4,690 1,491 1,942 1,746 4,543 985 99	15,586 4,700 1,517 1,951 1,752 4,606 963 97	15,822 4,911 1,542 1,916 1,732 4,683 971 68	15,507 4,705 1,475 1,893 1,725 4,703 947 60	15,526 4,669 1,459 1,951 1,718 4,761 912 56	15,586 4,726 1,476 2,052 1,709 4,728 832 63	15,284 4,531 1,416 1,938 1,705 4,829 802 63	15,781 4,874 1,507 2,009 1,705 4,836 787 63	15,767 4,898 1,539 2,005 1,719 4,703 838 66	15,737 4,857 1,509 1,983 1,721 4,764 835 69			
Imports of goods and services	659,575	720,324	55,464	61,038	60,252	58,647	60,886	59,290	59,775	61,843	63,417	62,190	61,398	60,938	62,608			
Foods, feeds, and beverages Industrial supplies and materials Capital goods, except automotive Automotive vehicles, engines, and parts Consumer goods (nonfood), except automotive Other goods Adjustments ¹	536,276 27,857 138,273 134,193 91,779 122,973 17,590 3,611	589,210 28,050 145,021 152,788 102,447 133,852 18,354 8,699	44,992 2,174 11,052 11,718 8,347 10,264 1,278 160	50,168 2,389 12,643 12,379 8,850 11,489 1,598 821	49,331 2,240 12,643 12,426 8,777 11,094 1,481 671	48,059 2,304 12,265 12,302 8,159 10,671 1,605 753	50,076 2,341 12,753 13,094 8,589 11,307 1,614 378	48,334 2,316 12,096 12,822 7,769 11,001 1,529 800	48,871 2,331 11,734 12,456 8,523 11,680 1,373 774	50,702 2,437 12,193 13,004 8,742 11,612 1,518 1,196	52,015 2,563 12,493 13,653 8,995 11,740 1,547 1,025	50,802 2,348 12,283 13,283 8,811 11,504 1,687 887	50,217 2,343 11,561 13,966 8,912 11,080 1,740 616	49,878 2,457 11,566 14,181 8,466 11,266 1,538 403	51,051 2,379 12,092 13,965 8,823 11,431 1,572 789			
Services Travel Passenger fares Other transportation Royalties and license fees Other private services Direct defense expenditures ² U.S. Government miscellaneous services	123,299 39,872 10,943 23,454 4,986 27,988 13,766 2,290	131,114 42,329 11,256 24,511 4,748 33,595 12,286 2,388	10,472 3,447 911 1,870 361 2,618 1,066 199	10,869 3,494 933 2,149 369 2,668 1,058 198	10,921 3,521 944 2,088 393 2,718 1,067 191	10,588 3,366 894 2,003 401 2,674 1,060 190	10,811 3,376 905 2,093 407 2,791 1,050 190	10,956 3,503 911 2,080 410 2,843 1,000 210	10,904 3,457 918 2,020 411 2,901 983 213	11,141 3,634 960 2,044 412 2,905 975 212	11,402 3,715 1,008 2,133 409 2,954 984 199	11,388 3,698 1,004 2,085 409 3,013 983 196	11,181 3,613 951 2,036 409 2,995 983 194	11,061 3,555 948 1,987 414 2,989 972 196	11,556 3,708 994 1,989 683 3,026 961 195			
Memoranda: Balance on goods	-96,138 56,411 -39,727	-132,439 55,678 -76,761	-8,739 5,104 -3,635	-11,787 4,839 -6,948	-11,491 4,806 -6,684	-9,810 4,909 -4,901	-13,098 4,775 -8,323	-11,757 4,866 -6,891	-11,647 4,603 -7,044	-12,568 4,385 -8,183	-12,643 4,184 -8,460	-11,351 3,896 -7,455	-8,748 4,600 -4,148	-11,350 4,707 -6,643	-13,886 4,181 -9,706			

P Preliminary.
r Revised.

^{1.} 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.
2. Contains goods that cannot be separately identified.
Source: U.S. Department of Commerce, Bureau of Economic Analysis and Bureau of the Census.

Integrated Economic and Environmental Satellite Accounts

The existing systems of national economic accounts—including national income and product accounts, input-output accounts, and balance sheets—are without question premier tools for analysis and decisionmaking. Since their origins over 50 years ago, they have been refined, extended, and updated to reflect changes in the economy and to respond to changing analytical and policy concerns. Continuing this evolution, this article and its companion "Accounting for Mineral Resources: Issues and Bea's Initial Estimates," beginning on page 50, present new work by Bea on an accounting framework that covers the interactions of the economy and the environment. To do so, this framework provides new breakdowns that are relevant to the analysis of these interactions and extends the existing accounts' definition of capital to cover natural and environmental resources. The framework takes the form of a satellite account—an account that supplements, rather than replaces, the existing accounts.

This article presents the analytical and economic accounting background for the new work, an overview of the satellite accounting framework, and a long-term plan to implement the framework. Because it introduces a topic that has both economic and environmental dimensions, some parts of the article may appear elementary—perhaps even oversimplified—to readers familiar with the economic (and economic accounting) dimensions, while other parts may appear elementary to those familiar with the environmental dimensions.

The second article discusses the conceptual and methodological issues in mineral resource accounting and presents estimates of mineral stocks and changes in those stocks for the past several decades. It is a technically oriented article that describes in some detail the alternative valuation methods and the source data and estimating procedures used to prepare the new estimates.

Over the years, the national economic accounts have benefited from discussion and critique of concepts, source data, and estimating methods. The same is to be expected for the <code>IEESA</code>'s, as <code>BEA</code>'s new integrated economic and environmental satellite accounts are being called. I invite your comments.

Carol S. Carson Director, Bureau of Economic Analysis

 $T^{\,\scriptscriptstyle{ ext{HE ECONOMY}}}$ and the natural environment interact at many points, and these interactions raise analytical questions.

- The Nation's wealth includes natural resources, such as oil and gas reserves and timber, that are used in production. At what rate are these resources being used?
- The income of producers in the mineral industries includes a return to the drilling rigs, mining equipment, and other structures and equipment engaged in them and a return to the mineral. What share is attributable to the mineral?
- Economic activity adds to the proved stock of natural resources by exploration and technological innovation. How much of the use

- of natural resources in production has been offset by these additions?
- Households, governments, and business all make expenditures to maintain or restore the environment. What share of their spending is for the environment?
- The economy disposes of wastes into the air and water, and the resulting degradation of the environment imposes costs, such as lower timber yields and fish harvests and higher cleaning costs. What are these costs? Which sectors bear them?

The answers to questions such as these about the interaction of the economy and the environment are often based on partial and sometimes even inconsistent information, suggesting the need to identify and quantify the interactions within a systematic framework as a basis for more informed analysis and decisionmaking. This article introduces the integrated economic and environmental satellite accounts (IEESA'S), which are meant to help fill that need. The IEESA's are a supplementary set of accounts structured to show the interactions of the economy and the environment more fully than the existing economic accounts. While the IEESA's build on the existing economic accounts, they do not replace them; likewise, IEESA measures do not replace measures, such as gross domestic product (GDP), from the existing accounts.

The Bureau of Economic Analysis (BEA) began work leading to this article—and to the companion article about mineral resources, which begins on page 50—in 1992. At that time, as part of a long-term program to modernize its economic accounts, BEA began research on two sets of accounts to supplement the existing national accounts. One of these sets of supplementary accounts, called satellite accounts, focused on the stock, and changes in the stock, of natural resources.¹ (The roles that satellite accounts can serve and their general structure are introduced

in the accompanying box.) Work on the natural resources satellite accounts was given added impetus and extended in scope in 1993 when President Clinton, as part of his April 21 Earth Day address, gave high priority to the development of "Green GDP measures [that] would incorporate changes in the natural environment into the calculations of national income and wealth." At that time, BEA committed to producing initial estimates of natural resource depletion within a year.

The first section of this article discusses the analytical and economic accounting background of the IEESA'S and concludes with a summary of a United Nations system of satellite accounts for the environment, after which BEA'S accounts are fashioned. The second section introduces the main features of the IEESA'S, presents an inventory of available data sources, and considers uses of the new accounts. The final section describes BEA'S long-term work plan for developing the satellite accounts, the first phase of which is completed with the presentation of the two articles in this issue of the Survey of Current Business. Bibliographic references for both articles begin on page 62.

Satellite Accounts: What Are They?

Satellite accounts are frameworks designed to expand the analytical capacity of the national accounts without overburdening them or interfering with their general-purpose orientation. In this role, satellite accounts organize information in an internally consistent way that suits the particular analytical focus at hand, yet they maintain links to the existing national accounts. Further, because they supplement, rather than replace, the existing accounts, they can be a laboratory for economic accounting in that they provide room for conceptual development and methodological refinement.

In their most flexible applications, satellite accounts may use definitions and concepts that differ from the existing accounts. For example, a satellite account may be built around a broader concept of capital formation than the existing accounts. This flexibility is being used in BEA'S work on integrated economic and environmental accounts and on research and development accounts. Satellite accounts such as these use different concepts and definitions by design; in other respects, they retain consistency with the existing accounts.

Satellite accounts can add detail or other information about a particular aspect of the economy to that in the existing accounts; for instance, they can integrate monetary and physical data. They can ar-

range information differently, perhaps by cutting across sectors to assemble information on both intermediate and final consumption. For example, a satellite account can assemble business expenditures on training—treated as intermediate consumption in the existing accounts—and education-related expenditures by households and government to analyze the role of education in the economy. They can use a classification other than the primary one. For example, they can identify expenditures on "research in education" as part of research expenditures even though they are included in education expenditures in the existing accounts.

The terminology and concepts associated with satellite accounts reflect the experiences of several countries that have constructed them, largely on an ad hoc basis, for fields such as health, education, agriculture, research and development, and the environment. The *System of National Accounts 1993*, the newly revised international guidelines, includes a chapter that provides a general framework for satellite accounts and demonstrates how that framework can be used for some of the fields in which such accounts would be most useful. This chapter represents, in a real sense, the coming of age of satellite accounts as an analytical tool.

^{1.} The other set, on research and development, will be introduced in an upcoming issue of the Survey of Current Business.

The Background for Integrated Economic and Environmental Accounting

The analytical background

It is, of course, a simplification to speak of the economy and the environment as two distinct realms. It can be argued, for example, that the economy is part of nature because the economic activity of human beings in producing food and shelter parallels the similar activity of animals. In this simplification, the economy is defined as the human activities relating to income, production, consumption, accumulation, and wealth (although there is a continuing discussion about the scope to be given, for example, to the term "production"). The term "environment" refers to the environment of human beings, which is made up of the biological resources, subsoil resources, land and related ecosystem resources, water, and air. From the standpoint of the economy, the environment can be thought of as consisting of a range of natural resource and environmental assets that provide an identifiable and significant flow of goods and services to the economy.

The economy uses these productive natural assets in a wide range of ways. Crude oil pumped from proved reserves, for example, is used in the production of petroleum products, while clean water in lakes and oceans is used in the production of fish, paper products, and electric power. The economy's uses of the goods and services provided by these environmental assets can be grouped into two general classes. When use of the natural asset permanently or temporarily reduces its quantity, the use is viewed as involving a flow of a good or service, and the quantitative reduction in the asset is called depletion. In that class of uses, biological resources, for example, are used as food, as raw materials for clothing, and as building materials and fuel. Water is used for drinking, cooling, processing, and irrigation.

When use of the natural asset reduces its quality, the qualitative reduction in the asset is called degradation. These qualitative uses include the conversion of land from one use to another, such as the partial development of forestland. The development of forestland results in a reduction in the economic value of the land as forestland because of the reduction in the flow of recreational services associated with its degradation as a wildlife area and tourist destination. In another kind of qualitative use, natural assets are used as a sink for the disposal of residual pollutants that are byproducts of production.

The use of natural assets describes only part of the interaction between the economy and the environment. There are also feedback effects. Materials balance and energy accounting highlight both the use of the natural assets and the feedback effects from the use; thus, they capture the full interaction between the economy and the environment.² In the case of natural resources, oil pumped from reserves today reduces the quantities that can be extracted from existing fields in the future; similarly, overharvesting of fish stocks today reduces yields in the future.

In the case of environmental assets, the feedback is more complicated, with effects that often fall on other industries and consumers. For example, when businesses use environmental goods and services along with labor and capital in production, residuals—such as lead and cadmium, or carbon monoxide and sulfur oxides—are also produced and are then disposed of into the environment. Up to a point, the environment is able to assimilate these residuals; beyond that point, however, significant environmental degradation affects the ability of the environment to provide

Acknowledgments

This article and its companion are the initial products of BEA's natural resource accounting project. J. Steven Landefeld, BEA's Deputy Director, directed the project. He and Carol S. Carson, BEA's Director, were the principal authors of the two articles. Gerald F. Donahoe, Chief of the National Income and Wealth Division, coordinated and supervised the preparation of the estimates for this project. The other authors and their areas of responsibility were as follows: Bruce T. Grimm, SNA accounting issues, present discounted value minerals estimates, and rates of return; Stephanie L. Howell, IEESA framework and estimates other than minerals; Arnold J. Katz, conceptual issues, minerals methods, and oil and gas transactions estimates; Gary L. Rutledge, pollution abatement and control estimates; Timothy F. Slaper, minerals concepts and methods, current-rent minerals estimates, and oil and gas replacement-cost estimates; Eric J. Troyer, minerals methods and estimates. BEA also acknowledges the many outside experts who provided advice on source data and methods. In particular, Richard W. Haynes, of the U.S. Department of Agriculture Forest Service, provided data and essential assistance with the issues and methods involved in the valuation of standing timber.

^{2.} Materials balance and energy accounting, developed in the late 1960's, is based on the first law of thermodynamics—that matter can neither be created nor destroyed. The accounts therefore describe a circular flow process: A raw material input is transformed by the processes of the economy, this transformation results in a new product and in residuals, and those residuals are transformed in the natural environment into raw materials.

raw materials to the economy (and to assimilate residuals). Degradation of air and water quality, for example, may lead to economic feedback—for example, lower timber yields and fish harvests, higher rates of depreciation in plant and equipment, additional cleaning costs, and increased health expenditures. In addition, either because of governmental regulations or the need to dispose of residuals that the environment can no longer handle, businesses and others may need to make expenditures for pollution abatement and control.

Integrated economic and environmental accounting aims to provide a picture of these interactions between the economy and the environment. Although this picture, as already noted, has numerous elements and is complex, by definition it does not cover many of the transformations and interactions within the environment itself—for example, the disposal of waste products from wild fish and mammals or the conversion of natural carbon dioxide into oxygen by plant matter on land and in the The accounts highlight the fact that economic sustainability depends on environmental sustainability, and they provide data to help analyze the costs and benefits for the careful stewardship of our economic and environmental assets. Consistent and detailed accounting of the interactions between the economy and the environment provides a common framework for integrating the work of environmental specialists, economists, and other analysts from a wide range of disciplines.

The economic accounting background

Economic accountants have long been aware of the issues that arise with respect to natural resources and the environment. One of the issues, which is also reviewed in the companion article, is whether the economic accounts should reflect the parallelism that is apparent in business accounting between depreciation, a charge for the using up of plant and equipment in production, and depletion, a charge for the using up of natural resources in production. In particular, because depletion of mineral resources has long been chargeable against profits in the U.S. tax code and because tax return tabulations have been used as source data for profits and other property income components of the national income and product accounts (NIPA'S), explicit decisions were required on the treatment of depletion in the accounts. Initially, depletion was treated symmetrically with depreciation, but no entry was made for additions to the stock of mineral resources parallel to the treatment of investments in structures and equipment. As a result of dissatisfaction with this asymmetric treatment, the entry for depletion was removed beginning in 1947.

In the late 1960's and early 1970's, environmental accounting issues came up as part of a broader interest in social accounting. Work by James Tobin and William Nordhaus, among others, on adjusting traditional economic accounts for changes in leisure time, disamenities of urbanization, exhaustion of natural resources, population growth, and other aspects of welfare produced indicators of economic well-being. However, the seemingly limitless scope, the range of uncertainty, and the degree of subjectivity involved in such measures of nonmarket activities limited the usefulness of, and interest in, these social indicators. It was felt that inclusion of such measures would sharply diminish the usefulness of traditional economic accounts for analyzing market activities. Attention subsequently focused on more readily identifiable and directly relevant market issues, such as the extent to which expenditures that relate to the protection and restoration of the environment (and other socalled defensive expenditures) are identifiable in the economic accounts.

In response to this interest in environmental protection, in the mid-1970's, BEA was a pioneer in the development of estimates of pollution abatement and control (PAC) expenditures in a national accounting framework. Further, presaging what was to come, the framework for these estimates can be viewed as an early form of a satellite account. The PAC estimates focus on an area of interest and provide detail that would have burdened presentation of the more general NIPA estimates.

The steps in the evolution of natural resource and environmental accounting since the early 1980's can be summarized in terms of international efforts, in which there was active U.S. participation, and the literature related to these effects. For this purpose, 1982 is a reasonable place to start. In that year, the United Nations Environment Program (UNEP) was given the mandate to develop methodological guidelines on environmental accounting. In its earlier work, UNEP had tried to clarify the linkages between economic development and the environment to help integrate issues of environmental and resource management into the framework of economic decisionmaking. To follow up on

the mandate, UNEP and the World Bank sponsored a series of workshops in 1983-86 to explore the current state of environmental and natural resource accounting. The general thinking was that although economists had long considered the "external effects" of production and consumption, they had not taken into account the effects on the resource system as a whole and the consequence that eventually someone was going to have to bear the "external costs." A broader view would internalize environmental costs in the production process, for which it would be essential to calculate costs and benefits properly and to distinguish clearly between true income and the drawing down of assets by depletion or degradation. Accordingly, the workshops focused on the shortcomings of traditional economic accounting: GDP does not adequately represent true income because environmental protection costs are treated as generating income and because depletion and degradation of natural resources are not charged against current income. A number of remedies for these shortcomings were proposed, but workable methodologies and good data were lacking, and some of the proposals were conflicting.³

Although the empirical foundations for integrating environmental and economic accounting estimates were lacking in the mid-1980's, a growing body of research and information was accumulating.⁴ France, Norway, and the Netherlands were working toward physical accounting matrices, which they have integrated into cost-benefit and cost-effectiveness work in the environmental policy field. Subsequently, Canada, the United Kingdom, Japan, and Australia all did preliminary work toward supplementing their traditional accounts. The United Nations and the World Bank jointly sponsored pilot studies with statisticians in Mexico and Papua New Guinea. In addition to these country efforts, researchers—such as Henry Peskin, working with the Environmental Protection Agency in a study of the Chesapeake Bay region, and Robert Repetto and his associates at the World Resources Institute, in their studies of China, Costa Rica, and the Philippines—have added significantly to the growing literature on environmental accounting.

In the meantime, a revision of the System of National Accounts (sna), the international guidelines followed by most countries in preparing their economic accounts, was undertaken. A ma-

jor issue was the extent to which the revised sna would remedy the perceived shortcomings of traditional national accounts.

The discussion stimulated by the 1987 report of the World Commission on Environment and Development, Our Common Future, gave added reason to explore statistical measures that would provide appropriate tools to guide policy and decisionmaking.[34] This report focused on sustainable development—that is, development that meets the needs of the present without compromising the ability to meet the needs of the future. According to the report, the Commission had been established by the United Nations General Assembly because of the growing realization that it is impossible to separate economic development issues from environmental issues—the realization, in other words, that many forms of development erode the environmental resources upon which they are based, and that such environmental degradation can undermine economic development.

By 1989, it became clear that, given the divergent views on a number of conceptual and practical issues in natural resource and environmental accounting, international consensus in time for a fundamental change in the sna as part of the ongoing revision was not possible. Therefore, it was agreed that the revised sna would address links to environmental concerns, such as the definition and boundary for assets, and that a satellite account for integrated economic and environmental accounting would be pursued. The United Nations undertook the preparation of a handbook to provide guidance on the construction of the satellite account.

Subsequently, this approach found support in several forums. In May 1991, a Special Conference of the International Association for Research in Income and Wealth brought together economic accountants and environmental specialists to discuss a preliminary version of the United Nations handbook. In June 1992, the United Nations Conference on Environment and Development (the "Earth Summit") in Rio de Janeiro included a program for establishing systems of integrated accounts as a complement to the existing system in its Agenda 21.[29] Agenda 21 urged national offices that prepare economic accounts to undertake the work and urged the United Nations to distribute widely, and then refine, its handbook. In October 1992, economic accountants, in a seminar held to review the revised SNA, generally welcomed the features that link to the environment and the section of the revised SNA's chapter

^{3.} See Salah El Serafy and Ernst Lutz [7].

^{4.} See, for example, Henry M. Peskin and Ernst Lutz [17].

on satellite accounts that discusses integrated economic and environmental accounts based on the United Nations handbook. In February 1993, the Statistical Commission of the United Nations endorsed the revised sna.⁵ The Commission, in highlighting the important features of the revised sna, noted that it laid the groundwork for dealing with the interaction between the economy and the environment.

The United Nations System of Environmental and Economic Accounting

The United Nations System of Environmental and Economic Accounting (SEEA), as described in the handbook, is a flexible, expandable satellite system. [30] It draws on the materials balance approach to present the full range of interactions between the economy and the environment. The SEEA builds on, and is designed to be used with, the *System of National Accounts* 1993 (hereafter SNA 1993) [31]. Like the SNA, the SEEA is primarily concerned with the implications of the environment for production, income, consumption, and wealth.

The SEEA has four stages, each successively providing a more comprehensive accounting for the interaction between the economy and the environment. The four-stage presentation recognizes the need to develop concepts, to inventory and augment source data, and to adapt the implementation to differing analytical needs. The starting point is the SNA 1993, which incorporated several features that anticipated the needs of environmental accounting. ⁶ Stage A disaggregates, or provides additional detail on, environmentally related economic activities and assets. This stage, for example, focuses on actual expenditures intended to prevent or repair the degradation of the environment. It includes a detailed breakdown of the stocks of natural resource assets and changes in these stocks. Finally, it includes sector links to show the supply and uses of natural resources. The use of natural resources—depletion and degradation—can be broken down into intermediate inputs by industry, investment, final consumption by households and government, and imports and exports.

Stage B begins with the physical counterpart of stage A. It maps, in physical terms, the interaction between the environment and the economy. It provides the physical quantities to which prices are applied to derive the economic values included in the economic accounts. These physical accounts also provide a bridge to natural resource accounting and to materials and energy balances accounting. Stage B then links the physical quantities to monetary values.

Stage C provides far more comprehensive and explicit measures of the interaction between the economy and the environment. It does so, first, by the use of alternative valuation techniques that is, alternatives to the use of values tied to the market, the valuation used in the SNA 1993 and in traditional accounting systems. The alternative valuation techniques include estimates based on maintenance costs, or the costs necessary to maintain at least the present level of environmental assets, and estimates based on contingent valuation, or the willingness to pay for reductions in depletion or degradation of natural assets. Second, it does so by the more explicit introduction of environmental effects on the measures of national production, investment, income, and wealth. Stages A and B of the SEEA (as well as the SNA 1993) record environmental effects either as changes in the value of assets or as changes in the distribution of income among the factors of production; these changes do not explicitly affect gross domestic product, final demand, or net domestic product.

Stage D consists of further extensions of the SEEA. These extensions are provided for the purpose of "opening a window on further analytical applications," and they will require further research. They include household production and the use of recreational and other unpriced environmental services in household production.

Framework for the IEESA'S

BEA'S IEESA'S build on the accumulating experience represented in the SEEA. This experience is consistent with two lessons from social accounting in the 1970's. First, such accounts should be focused on a specific set of issues. Second, given the kind of uses to which the estimates would be put, the early stage of conceptual develop-

^{5.} For a summary of the SNA, the revision process, and the new features, see [30]

^{6.} The two main features that anticipated the needs of environmental accounting dealt with the coverage of assets and the recording of changes in them. First, the SNA 1993 includes within the boundary of economic assets all assets over which ownership rights can be established and enforced and that provide economic benefits to their owners. This boundary explicitly includes natural assets, both those whose growth is the result of human cultivation (for example, vineyards and livestock) and those that, although not cultivated, are under control of an owner (for example, land, subsoil assets, and water resources). Second, it records all changes in the value of assets from one balance sheet to another. As part of doing this, there is an account to record certain changes in assets not recorded as production or as costs of production; this account records, for example, the additions to, and depletion of, subsoil assets and the natural growth of uncultivated forests. Another account records changes in the value of assets due to price change. Further, the SNA 1993 describes how to use these and other features as a point of departure for an environmental satellite account.

ment, and the statistical uncertainties (even if the estimates are limited to the effect on market activities), such estimates should be developed in a supplemental, or satellite, framework.

Structural features

The IEESA's are structured to focus on the interaction of the economy and the environment. The interactions covered are those that can be tied to market activities and thus valued in market prices or proxies thereof. They are shown as effects on production, income, consumption and wealth.

The accounts have two main structural features. First, natural resources and environmental resources are treated like productive assets. These resources, along with structures and equipment, are treated as part of the Nation's wealth, and the flow of goods and services from them are identified and their contribution to production measured. Second, the accounts provide substantial detail on expenditures and assets that are relevant to understanding and analyzing the interaction. Fully implemented IEESA's would permit identification of the economic contribution of natural and environmental resources by industry, by type of income, and by product. Ultimately, accounts by region would add an important analytical dimension.

Natural and environmental resources as productive assets.—An example helps to explain the reasoning behind treating natural and environmental resources like productive assets in the economic accounts. This example is much simplified, notably in that it shows only one side of an account, focuses on aggregates, and uses descriptive rather than technically precise terminology. In this example, all income from production goes to either "wages" or "profits." Wages are recorded as earned; however, profits—that is, total revenues less labor and other operating expenditures—are reduced by an entry for "depreciation," where depreciation is the amount that must be set aside to cover the using up of capital in production. Thus, for an industry and for all industries combined, wages plus profits and depreciation equals gross domestic product (GDP).

In the traditional accounts, the economy would be pictured as follows:

Wages	6,000
Plus: Profits	3,000
Depreciation	1,000
Gross domestic product	10,000
•	

Because depreciation is included in GDP, GDP is not a measure of sustainable income; that is, if a nation consumed all of its GDP, it would reduce the productive capacity available to future generations because it had consumed the amount it should have set aside to cover the using up of capital. In fact, the "gross" in the name, gross domestic product, refers to that feature. As a better measure of sustainable income, the traditional accounts provide net domestic product (NDP), which is calculated as GDP less depreciation.

Gross domestic product	10,000
Less: Depreciation	1,000
Less: Depreciation	9,000

Capital in the traditional accounts is limited to structures and equipment. In the IEESA's, natural and environmental resources are viewed as having characteristics similar to structures and equipment: Labor and materials are devoted to producing them, and they then yield a flow of services over time. For that reason, the IEESA's include these resources, along with structures and equipment, as part of the Nation's wealth and give them the same treatment as structures and equipment in the traditional accounts. The IEESA's deal with three points of asymmetry between the treatment of natural resources—for example, mineral reserves—and of structures and equipment encountered in traditional accounts. In traditional accounts: (1) depreciation is subtracted from profits to determine true, or sustainable, profits, but depletion is not; (2) depreciation is subtracted from GDP to estimate NDP, but depletion is not; and (3) additions to the stock of plant and equipment are added to GDP as capital formation, but additions to mineral reserves are not.

The depletion of mineral reserves is like the depreciation of plant and equipment: It is the amount that must be set aside to cover the cost of using up mineral resources in production. If an oil company earns \$3,000 in profits but depletes its mineral reserves by \$100, then its true economic profits are only \$2,900, the amount over and above its depletion of assets. In the IEESA's, therefore, an estimate is made of the amount of profits that should be recognized as depletion. This amount is subtracted from profits and entered, like depreciation, as a separate component, thereby dealing with the first point of asymmetry. Further, depletion, like depreciation, must

be subtracted from GDP to arrive at NDP. Doing so deals with the second point of asymmetry.

Wages . Plus: Profits (ieesa)	2,900 1,000
Gross domestic product (IEESA)	10,000
Less: Depreciation	1,000
Depletion	100
Net domestic product (IEESA)	8,900
• • • • • • • • • • • • • • • • • • • •	

Note that recognizing depletion lowers profits and changes the composition of GDP, but the level of GDP itself is not reduced; recognizing depletion reduces NDP in comparison with the traditional accounts' NDP.

In the IEESA's, additions to mineral reserves (for example, extensions as a result of investments in improved technology or additions as a result of exploration) are treated like additions to the stock of structures and equipment—that is, as capital formation. Additions to reserves do not appear in the traditional accounts; therefore, to treat them as capital formation, they are added to gdp. In the IEESA's, additions to reserves raise capital formation, profits, gdp, and Ndp. Recognizing the additions to reserves thus deals with the third point of asymmetry. If the additions amounted to 150, the economy would be pictured as follows:

Wages	6,000
Plus: Profits (IEESA)	3,050
Of which: Capital formation in mineral	150
reserves	
Depreciation	
Depletion	100
Gross domestic product (IEESA)	10,150
Less: Depreciation	1,000
Depletion	100
Net domestic product (IEESA)	9,050

Compared with the traditional accounts, both the composition and level of GDP differ. Thus, the IEESA's give a view of an industry's production that reflects changes in its resource base. The IEESA's measure of NDP, therefore, is a better measure of sustainable income than the traditional accounts' measure because it incorporates changes in mineral wealth as well as structures and equipment. Whether the IEESA's measure of NDP is higher or lower than in the traditional accounts depends on whether depletion or additions is larger, and this will vary from resource to resource and from period to period. Estimates of this kind for all natural and environmental resources would help gauge whether the current level of GDP can be maintained by the Nation's natural resource base.

Detail that highlights the interaction.—In the IEESA's, the standard economic accounting categories are disaggregated to show detail that highlights the interaction of the economy and the environment. For example, the expenditures detail shows spending by households, government, and business to maintain or restore the environment. The asset detail shows environmental management (conservation and development, and water supply) and waste-management projects (sanitary services, air and water pollution abatement and control) within the standard category of nonresidential fixed capital.

The estimating requirements underlying these two main structural features of the IEESA's are apparent in the IEESA tables, even when, as shown in this article, they are in skeleton form. Table 1, an asset account, and table 2, a production account, use modified forms of tables presented in the SEEA.

Asset accounts

Integrated economic and environmental accounting requires the measurement of stocks and flows related to assets, which are presented in an asset account. An asset account is like a balance sheet in that it presents stocks, or holdings, at a point in time. (Because an asset account is limited to nonfinancial assets, it does not include liabilities and net worth, as would a balance sheet.) However, an asset account also presents flows related to the assets during a period of time.

The IEESA's provide a complete accounting for the relevant assets—that is, they show both stocks and flows associated with changes in those stocks. Column 1 in table 1 provides for estimates of opening stocks. Columns 2-5 provide for estimates of the flows that represent different kinds of changes in the stock: First, a net total and then three flows: The decrease in stocks due to depreciation (or more formally, in economic accounting terms, consumption of fixed capital), depletion, or degradation; the increase in stocks due to capital formation in the form of new structures and equipment, additions to inventories, additions to the stock of natural and environmental assets; and changes in value due to price changes and to changes in the volume of assets other than those due to economic activity (for example, natural disasters). Column 6 provides for estimates of closing stocks.

Table 1 presents the nonfinancial assets that BEA would try to include in IEESA asset accounts. The table's rows generally follow the subcategories of the *SNA 1993* and the SEEA, but some of

the subcategories are regrouped to broaden both the production boundary and the definition of assets. Nonfinancial assets are divided into made assets, developed natural assets, and environmen-

tal assets. Made assets, which largely replicate the scope of nonfinancial assets in traditional income and wealth accounts, are subdivided into fixed assets and inventories. Developed natural assets are

Table 1.—IEESA Asset Account, 1987

[Billions of dollars]

table can serve as an inventory of the estimates currently available for the IEESA's. In decreasing order of quality, the as follows: For made assets, estimates of fixed reproducible tangible stock and inventories, from BEA's national income and product accounts or based on them, and pollution abatement stock, from BEA estimates (rows 1–21); for subsoil assets, the highs and lows of the range based on alternative valuation methods, from the companion article (rows 36–41); and best-available, or rough-order-of-magnitude, estimates for some other developed natural assets (selected rows 23–35 and 42–47) and some environmental assets (selected rows 48–55) prepared by BEA based on a wide range of source data described in this article. The "n.a."—not available—entries represent a research agenda entries represent a research agenda.

еншез тергезени а тезевин адениа.				Chang	70		
					ye I	1	Closing stocks
	Row	Opening stocks	Total, net (3+4+5)	Depreciation, depletion, degradation	Capital formation	Revaluation and other changes	(1+2)
		(1)	(2)	(3)	(4)	(5)	(6)
PRODUCED ASSETS							
Made assets	1	11,565.9	667.4	-607.9	905.8	369.4	12,233.3
Fixed assets Residential structures and equipment, private and government Fixed nonresidential structures and equipment, private and government Natural resource related Environmental management Conservation and development Water supply facilities Pollution abatement and control Sanitary services Air pollution abatement and control Water pollution abatement and control Other	2 3 4 5 6 7 8 9 10 11 12 13	10,535.2 4,001.6 6,533.6 503.7 241.3 152.7 88.5 262.4 172.9 45.3 44.2 6,029.9	608.2 318.1 290.1 8.4 3.6 4.8 14.7 12.8 .6 1.3 267.0	-607.9 -109.8 -498.1 -19.2 -7.0 -4.4 -2.5 -12.2 -5.6 -4.1 -2.5 -478.9	875.8 230.5 645.3 30.3 10.6 5.3 19.7 13.7 3.5 2.6 615.0	340.2 197.4 142.9 12.0 4.7 2.7 2.0 7.3 4.8 1.3 1.2 130.9	11,143.4 4,319.7 6,823.7 526.8 249.6 156.4 93.3 277.1 185.8 45.9 45.5 6,296.9
Inventories ¹ Government Nonfarm Farm (harvested crops, and livestock other than cattle and calves) Corn Soybeans All wheat Other	17 18	1,030.7 184.9 797.3 48.5 10.2 5.0 2.6 30.7	59.3 6.8 62.4 -9.9 .3 1 0		30.1 2.9 32.7 -5.5 -1.1 -1.0 2 -3.2	29.2 3.8 29.7 -4.4 1.4 .9 .2 -6.9	1,090.0 191.7 859.7 38.6 10.5 4.9 2.6 20.6
Developed natural assets	22	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Cultivated biological resources Cultivated fixed natural growth assets Livestock for breeding, dairy, draught, etc Cattle Fish stock Vineyards, orchards Trees on timberland Work-in-progress on natural growth products Livestock raised for slaughter Cattle Fish stock Calves Crops and other produced plants, not yet harvested	23 24 25 26 27 28 29 30 31 32 33 34 35	n.a. n.a. n.a. 12.9 n.a. 2.0 288.8 n.a. n.a. 24.1 n.a. 5.0 1.8	n.a. n.a. 2.0 n.a. 2 47.0 n.a. n.a. 7.5 n.a. .9	n.a. n.a. n.a. n.a. n.a. -6.9	n.a. n.a. n.a. 3 n.a. 0 9.0 n.a. n.a. 5	n.a. n.a. 2.3 n.a. 2 44.9 n.a. 7.5 n.a. 1.4	n.a. n.a. n.a. 14.9 n.a. 2.2 335.7 n.a. n.a. 31.6 n.a. 5.9
Proved subsoil assets ² Oil (including natural gas liquids) Gas (including natural gas liquids) Coal Metals Other minerals	36 37 38 39 40 41	$\begin{array}{c} 270.0 \leftrightarrow 1066.9 \\ 58.2 \leftrightarrow 325.9 \\ 42.7 \leftrightarrow 259.3 \\ 140.7 \leftrightarrow 207.7 \\ (*) \leftrightarrow 215.3 \\ 28.4 \leftrightarrow 58.7 \end{array}$	$\begin{array}{c} 57.8 \leftrightarrow -116.6 \\ -22.5 \leftrightarrow -84.7 \\ 6.6 \leftrightarrow -57.2 \\ 2.2 \leftrightarrow -3.4 \\ 67.2 \leftrightarrow 29.5 \\ 4.3 \leftrightarrow8 \end{array}$	$\begin{array}{c} -16.7 \leftrightarrow -61.6 \\ -5.1 \leftrightarrow -30.6 \\ -5.6 \leftrightarrow -20.3 \\ -5.4 \leftrightarrow -7.6 \\2 \leftrightarrow -2.2 \\4 \leftrightarrow9 \end{array}$	$\begin{array}{c} 16.6 \! \leftrightarrow \! 64.6 \\ 5.8 \! \leftrightarrow \! 34.2 \\ 4.1 \! \leftrightarrow \! 14.9 \\ 4.4 \! \leftrightarrow \! 6.3 \\ 2.2 \! \leftrightarrow \! 9.2 \\ .1 \! \leftrightarrow \! 0 \end{array}$	$\begin{array}{c} 58 \leftrightarrow -119.6 \\ -23.1 \leftrightarrow -88.3 \\ 8.1 \leftrightarrow -51.8 \\ 3.2 \leftrightarrow -2.1 \\ 65.2 \leftrightarrow 22.5 \\ 4.6 \leftrightarrow .1 \end{array}$	$\begin{array}{c} 299.4 \leftrightarrow 950.3 \\ 35.7 \leftrightarrow 241.2 \\ 49.4 \leftrightarrow 202.2 \\ 143.0 \leftrightarrow 204.2 \\ 38.5 \leftrightarrow 244.8 \\ 32.8 \leftrightarrow 57.9 \end{array}$
Developed land	42 43 44 45 46 47	n.a. 4,053.3 441.3 n.a. n.a. 285.8	n.a. 253.0 42.4 n.a. n.a. 28.8	n.a. n.a. n.a. 5 9 n.a.	n.a. n.a. –2.8 n.a. .9 –.6	n.a. n.a. 45.2 n.a. n.a. 29.4	n.a. 4,306.3 483.7 n.a. n.a. 314.6
Wild fish Timber and other plants of uncultivated forests Other uncultivated biological resources Unproved subsoil assets Undeveloped land Water (economic effects of changes in the stock)	50 51 52 53	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. -19.9 -38.7 -27.1	n.a. n.a. n.a. n.a. 19.9 38.7	n.a. n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.

The calculated value of the entry was negative.

The estimate for inventories differs from the NIPA estimate by the amount of government inventories added and cattle and calves shown separately. In full implementation of the IEESA account, farm inventories would include

only harvested crops.

2. The estimates in all columns result from the valuation method (see text for further discussion of the alternative methods) that produces the low and high estimates of opening stocks.

NOTE.-Leaders indicate an entry is not applicable.

subdivided into cultivated biological resources, proved subsoil assets, and developed land. Environmental assets are subdivided into uncultivated biological resources, unproved subsoil assets, undeveloped land, water, and air (the last two in terms of the economic effects of changes in the stock).

Made and developed natural assets.—To better highlight the interaction of the economy and the environment, table 1 provides more detail on natural resource and environmentally related produced assets than the traditional income and wealth accounts. Within made assets, nonresidential fixed capital is disaggregated into environmental management (conservation and development, and water supply) and waste-management projects (sanitary services, air and water pollution abatement and control). Detail is also provided on farm inventories of finished goods.

Within cultivated biological resources, table 1 provides detail beyond that contained in the traditional accounts, such as cultivated fixed natural growth assets (for example, livestock), and categories not included in the traditional accounts (for example, trees on timberland).

The treatment of proved subsoil assets and cultivated land in table 1 differs from the SEEA treatment. Proved reserves are generally defined as those reserves that are proved to a high degree of certainty—by test wells or other test data—and are recoverable under current economic conditions and with current technology. In the SEEA, they are classified as nonproduced assets. In table 1, these assets, along with cultivated natural growth assets, are included in the category "developed natural assets." As will be illustrated in the production accounts, capital formation that adds to the stock of these assets—both by bringing undeveloped or uncultivated assets into the category of developed natural assets and by adding to their value within that category—is treated in a manner similar to capital formation that adds to the stock of structures and equipment.

This treatment was adopted because it is difficult to rationalize describing proved reserves and cultivated land as "nonproduced" natural assets when expenditures are required to prove or develop them. Agricultural land, for example, must be "produced" in that expenditures must be undertaken to convert uncultivated land areas into commercially valuable farmland, which yields a return over a number of years. Wetland areas, if they are to become farmland, must be drained and graded and vegetation cleared.

Unproved mineral reserves also require expenditures for test wells, engineering studies, and other exploration and development investments before they are recorded as proved reserves.

Similar treatments of these developed natural assets and made assets facilitate consistent treatment of capital formation of natural assets and more conventional capital formation, such as investment in structures and equipment. Under this treatment, as mineral reserves, for example, are proved, the total value of the produced assets—structures and equipment as well as the proved reserve's value—is included as capital formation. Similarly, as oilfield machinery is depreciated, proved reserves associated with the machinery are depleted.

The other major difference between developed assets in table 1 and in the comparable SEEA presentation is in the treatment of soil. In the SEEA, soil—that is, productive soil on agricultural land—is treated as separate from agricultural land. In table 1, soil is a subcategory of agricultural land because the value of agricultural land is inseparable from the value of the soil. Available estimates suggest that the effect of soil erosion, or depletion, on agricultural productivity and land values in the United States is quite small. Nevertheless, though soil is not treated separately, it is shown separately because its erosion has a significant effect on environmental quality through its effect on water quality.

Environmental assets.—This grouping includes natural assets with significant economic value that differ from developed natural assets in that they are generally used as raw inputs into production in their natural state, either as intermediate products or as investments. For example, uncultivated biological resources, such as tuna harvested from the ocean, are included as environmental assets, whereas cultivated biological resources, such as rockfish raised on a fish farm, are included in developed assets. Other categories in environmental assets are uncultivated land, unproved subsoil assets, water, and air.

The inclusion of unproved subsoil assets broadens the definition of subsoil assets to include reserves that, though unproved, have an economic value over and above that of other undeveloped land because of their location or geologic characteristics. As capital expenditures are made to "prove" these properties, they move from non-produced to produced assets. This broader definition of subsoil resources will facilitate longer term planning and analysis of the use of mineral resources. The stock of proved reserves—like the

stock of drill presses—can be expanded by additional investment; hence, firms will keep on hand the stock of reserves dictated by current market prices, finding costs, and interest rates. Thus, complete analysis of mineral resources requires consideration of unproved, as well as of proved, reserves.

In a distinction similar to that between proved and unproved subsoil assets, cultivated land such as agricultural land, parkland, and land underlying buildings—is included in developed natural assets, whereas uncultivated land—-such as wetlands and forestland (not included as timberland)—is included in environmental assets. The agricultural land must be developed before it can be used as farmland, whereas wetlands are used—for example, for their disposal services—in their natural state by the economy. Water, which is subdivided by type, and air also provide services to the economy in the form of recreational and waste disposal services.

Although these environmental assets differ from made and developed natural assets, investments that add to the stock of these assets, as noted below in the production accounts, are treated symmetrically with investments that add to the stock of structures and equipment and of developed assets. These investments, for example, include pollution abatement and control to improve the quality and waste disposal capacity of the air and water, or at least to offset the degradation/depletion (which is also recorded in the production account) occurring in the current period. These investments represent a decision by the economy to devote its resources to investments that improve air and water quality, rather than investments in structures and equipment, and investments that add to the stock of clean air and water should be counted just as investments that add to the stock of made and developed assets are counted.

Estimates: Coverage, sources, and methods.—The estimates recorded for 1987 in table 1 should be regarded as rough-order-of-magnitude, or bestavailable, estimates. (The estimates are for 1987 because that is the last year for which data from the quinquennial economic census—used in a number of cases as a benchmark from which to estimate forward and backward—are available.) In most cases, only one estimate, rather than a range, is available. Many of the table's cells do not contain estimates, and the quality of the estimates varies greatly. In general, the quality and availability of the estimates declines as one moves down the rows from produced to nonproduced assets, reflecting the increasing conceptual and empirical difficulties in producing such estimates. The estimates may be best regarded as a measure of the work to be undertaken; they are presented here to serve as a road map for areas in which source data and estimating methods must be developed or improved.

Within made assets, the estimates of nonresidential stocks of pollution abatement (PA) structures and equipment are constructed using the same perpetual inventory techniques used to produce BEA's exiting capital stock estimates (see the box on page 44). These stock estimates capture nonresidential investments for PA that are readily identifiable. When companies and plants change their production processes (or equipment) to embody PA features, the PA portions of these investments are included to the extent they can be identified; however, identification is difficult, and understatement of PA stocks can occur. Estimates of government inventories are from unpublished NIPA data. For inventories owned by the Federal Government, the estimates are based on information on inventories from Federal agencies. For State and local governments, the estimates are based on the level of their purchases of nondurable goods; it is assumed that they hold 1 month of these purchases in inventories. The farm inventories of finished goods for agriculture are extensions of the existing inventory data in the NIPA's (following the IEESA, crops not yet harvested are shown as work-in-progress). Stock estimates for several components that would be of interest in the household sector, such as PA equipment in consumer durables and residential capital (for example, PA equipment installed in cars and septic systems in homes), are not available.

Within developed natural assets, most of the estimates are an extension of the existing national accounts data. The existing accounts include estimates for livestock only, with no split between those raised for breeding, dairy, or draft (cultivated fixed natural growth assets) and those raised for slaughter (work in progress on natural growth products). In table 1, these splits were made using assumptions based on data from the U.S. Department of Agriculture (USDA). The estimates of the value of vineyards and orchards are based on Federal Reserve Board estimates of the value of agricultural land and estimates of the acres of land in vineyards and orchards from the Bureau of the Census. Estimates of the value of fish stocks or of changes in these stocks are not yet available (and are in phase II of BEA's plan).

The values of trees on timberland were estimated based on stumpage value estimates provided by the U.S. Forest Service's Pacific Northwest Research Station. The stumpage value estimates are based on the concept of net rent to the timber stand—as distinct from the land the forest sits upon—and are derived mainly from private market data on payments for logging rights. As such, they should correspond to the present discounted value of the timber sales from the tract less the costs of logging, access, transportation, and processing. All timber on timberland in the

United States—public and private—is included in this category. Timber on other forestland is included in nonproduced/environmental assets. This somewhat arbitrary distinction is made partly on conceptual grounds and partly on the availability of source data. All timber in the national forests is in a sense managed, although depending on the forest, management ranges from active, such as planting, to relatively passive, such as self-seeding, fire control, and rotational harvests. Practically, no data are available for the exact definition of "cultivated timber tracts."

Stock of Plant and Equipment for Air and Water Pollution Abatement in the United States, 1980-91

This box presents estimates of the gross and net stocks of plant and equipment (P&E) for air and water pollution abatement (PA) in the United States during 1980–91. Gross and net stocks of PA P&E help to protect air and water from degradation by stationary and point industrial sources of pollutant emissions. ¹

In 1991, the gross stock of air and water PA P&E was about \$183.5 billion (table A). In constant (1987) dollars, the gross stock was \$165.0 billion in 1991, about 2.0 percent of the real gross stock of all fixed nonresidential nonfarm business capital. Between 1980 and 1991, the real gross stock of air and water PA P&E grew at an annual rate of 2.6 percent. Growth in nonmanufacturing stocks outpaced that in manufacturing stocks, mainly reflecting PA P&E spending by electric utilities. The real net stock of air and water PA P&E—that is, after subtracting depreciation—was \$91.3 billion in 1991, up from \$85.8 billion in 1980.

The PA P&E stock estimates are useful when studying market production and economic well-being. They are helpful in determining how pollution abatement spending affects prices, total capital costs, and the profitability of capital. They are also helpful in constructing rough measures of the value of the degradation in air and water quality that has been avoided through pollution abatement.³

The 1980-91 PA P&E estimates were prepared by the perpetual inventory method: Past PA P&E flows (capital spending) were cumulated and discards deducted, in accordance with lifespans of capital goods, to arrive at gross stocks of PA P&E. Net stocks were calculated by subtracting accumulated depreciation from gross stocks. Gross and net stock estimates for 1980-91 are valued at constant and at current cost—that is, using 1987 prices (for constant cost) and replacement or current-year prices (for current cost).

Data on an establishment basis for manufacturing PA P&E spending are mainly from the Pollution Abatement Costs and Expenditures (PACE) Survey by the Bureau of the Census. Data for electric util-

ities are mainly from the Pollution Abatement (PA) Supplement to the Census Bureau's P&E survey; the PA Supplement reports PA P&E spending for three industries—electric utilities, petroleum, and mining. The PA Supplement reports PA P&E on a company basis, but for electric utilities (unlike for petroleum and mining), such data approximate an establishment basis. The PA P&E spending estimates for mining and for nonmanufacturing except mining and electric utilities are prepared by indirect methods; a variety of data sources are used, including the PA Supplement, an environmental protection expenditures survey by the American Petroleum Institute, and the Census of Mineral Industries.

Table A.—Gross and Net Stocks of Air and Water Pollution Abatement Plant and Equipment in Nonfarm Business, by Major Industry Group, Current-Cost and Constant-Cost Valuations, 1980–91

		Gro	oss stock	(S			Ne	et stocks					
	All non-	Ма	ınufactur	ing	Non-	All non-	Ma	ınufactur	ing	Non-			
	farm indus- tries	Total	Dura- bles	Non- dura- bles	manu- factur- ing	farm indus- tries	Total	Dura- bles	Non- dura- bles	manu- factur- ing			
		Billions of current dollars											
1980 1981 1982 1983 1984 1985 1987 1988 1989 1990	103.43 118.66 129.00 135.72 142.68 147.25 151.04 157.59 165.04 170.82 176.91 183.50	58.78 66.31 70.16 71.37 72.85 73.83 74.05 75.59 77.73 79.69 82.83 87.02	24.55 28.04 29.72 30.25 31.05 31.70 31.96 32.56 33.26 33.83 34.28 34.84	34.24 38.27 40.43 41.12 41.80 42.14 42.08 43.03 44.48 45.86 48.55 52.18	44.65 52.35 58.84 64.35 69.83 73.41 77.00 82.00 87.30 91.13 94.07 96.48	71.14 79.54 84.46 86.43 88.47 89.05 89.49 91.38 93.86 95.67 98.19 101.58	37.65 40.94 41.76 40.67 39.81 39.07 38.24 38.15 38.65 39.54 41.75 45.17	15.94 17.56 17.80 17.20 16.86 16.60 16.26 16.07 15.97 16.07 16.25 16.71	21.71 23.39 23.95 23.48 22.95 22.47 21.99 22.08 22.68 23.47 25.49 28.46	33.49 38.60 42.70 45.75 48.66 49.97 51.24 53.23 55.21 56.13 56.44 56.40			
			E	Billions o	f consta	nt (1987)	dollars						
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990	124.67 132.26 138.61 142.56 146.66 149.58 152.08 154.47 155.86 157.52 161.03 164.97	71.13 73.56 74.96 74.97 74.94 74.81 74.53 74.36 73.93 74.05 75.76 78.36	29.55 30.91 31.59 31.67 31.86 32.07 32.16 32.04 31.62 31.42 31.31 31.37	41.57 42.66 43.36 43.30 43.08 42.74 42.37 42.32 42.31 42.63 44.45 47.00	53.54 58.70 63.66 67.58 71.72 74.77 77.55 80.11 81.93 83.48 85.27 86.60	85.79 88.84 90.92 90.85 90.52 90.12 89.52 88.55 88.16 89.36 91.31	45.64 45.54 44.71 42.79 41.00 39.62 38.50 37.53 36.76 36.75 38.20 40.69	19.22 19.38 18.95 18.03 17.32 16.81 16.36 15.81 15.19 14.93 14.86 15.05	26.42 26.15 25.76 24.76 23.68 22.81 22.14 21.71 21.57 21.82 23.35 25.64	40.16 43.31 46.22 48.06 49.98 50.91 51.61 52.00 51.80 51.40 51.15 50.63			

^{1.} For air PA, the Clean Air Act classifies the sources of pollutants as mobile (for example, automobiles) or stationary (for example, factories). For water PA, the Federal Water Pollution Control Act classifies sources of pollutants as point (for example, factories) or nonpoint (for example, highway construction projects).

^{2.} The stock estimates in table A are part of a new establishment-based series for 1960 forward. Bea is planning a Survey of Current Business article for later this year to present such PA PRE stock estimates for selected industries and to present their related capital flows through 1992. The new stock series replaces a series prepared on a company (or enterprise) basis.

^{3.} Stocks other than for PA P&E also protect air and water. Examples include stocks of PA devices and systems on mobile (for example, motor vehicles) and nonindustrial pollutant sources (for example, public sewer systems and septic systems), as well as PA features of solid waste management systems. Estimates for these kinds of stocks are not available.

For proved subsoil assets, the estimates shown are the highs and lows of ranges presented, along with a description of the sources and methods used to prepare them, in the companion article beginning on page 50. The estimates represent the range of differences associated with common methods for valuing nonrenewable natural resources.

The estimates within the category "developed land" are of uneven quality. The estimates of the value of agricultural land are relatively good and are based on USDA estimates of farm real estate values less BEA estimates of the value of farm structures. Soil estimates, from the USDA. reflect the annual effect of soil depletion in terms of extra fertilizer costs and reduced productivity. The estimates of residential land, included in table 1 as part of land underlying structures, also are of reasonable quality. The estimates of the other private land underlying structures are of more uncertain quality. The Federal Reserve Board produces these estimates of land values by taking estimates of real estate values from a variety of sources and subtracting BEA's estimates of the value of nonresidential structures. The Federal Reserve's estimates of real estate values are based, in part, on less than comprehensive price indexes; they do not, for example, appear to cover adequately the value of mineral tracts, timberland, or industrial buildings and land. BEA's estimates of nonresidential structures are based on perpetual inventory methods—with assumed depreciation schedules and replacementcost indexes—and may therefore differ from the current market value of the structures included in the real estate estimates. Although over longer periods of time the perpetual inventory estimates are of good quality, during periods of declining or rapidly increasing real estate values, they may produce unreasonable results. Also, to the extent that the value of natural resource assets are not included in the real estate price indexes, the overall value of developed land will be over- or under-stated according to the path of natural resource prices relative to commercial and other land values.

The SEEA recommends that national parks be classified as uncultivated land because their protection, and not their use, is the main function of governmental regulation. However, because these parks are extensively maintained, improved upon, and used by consumers for recreation, they are included in recreational land in table 1. The estimate of capital formation in recreational land is based on Federal Government mainte-

nance and repair expenditures for parks; State and local expenditures are not available. It is assumed that these expenditures exactly offset the degradation/depletion of recreational land; in the case of recreational land, the only estimates available were of maintenance and repair expenditures. This assumption is made only so that both investment and degradation/depletion estimates are illustrated by the table and not to imply any judgment about the true value of degradation/depletion. (Phase II and III of BEA's work plan, described in the next section, includes work to build on the damage assessment and recreational valuation literature to construct estimates of the market value of recreational and environmental amenities.)

For environmental assets, the estimates are more uncertain than even the most uncertain estimates for developed land and proved reserves of subsoil assets. Indeed, most of this section of the table, especially that for renewable natural resources, is shown with "n.a." for "not available." No value is available for the stock of undeveloped land and its associated ecosystems, for unproved subsoil assets, and for uncultivated biological resources (wild animals and fish, plants, and forests).

Compared with the accounting for proved reserves of nonrenewable resources, where the economic literature extends back over 50 years, valuation methods and concepts for many of the renewable resources are less well developed. Renewable natural resources are inherently more difficult to value than nonrenewable natural resources for several reasons: Renewable resources, such as stocks or schools of wild fish, often have a commercial or production value as well as an amenity or a recreational value; often, ownership rights cannot be established, and they cannot be sold; and they *are* able to regenerate, so their use does not necessarily result in a net reduction in either their yield or the value of their stock.

These difficulties notwithstanding, there has been rapid progress in environmental-benefit valuation for renewable natural resources in recent years as economists have tried to keep pace with regulatory, legal, and policy needs for environmental damage and impact measures. Further work by BEA to translate these new concepts and measures into a consistent national framework would need to rely heavily on the expertise of other units within the U.S. Government—for example, the National Oceanic and Atmospheric Administration, the Environmental Protection Agency, USDA, and the Department of Interior.

The SEEA does not recommend that the stock of air—which is truly a global common—or water be valued; instead, it recommends that valuation be limited to changes in these assets—their degradation and investments in their restoration. For these assets, table 1 includes only aggregate values for the degradation of air and water and for expenditures to restore them or to prevent their degradation.

The estimates in table 1 for degradation of air and water quality—as well as for undeveloped land—are simply place markers that assume that maintenance exactly offsets degradation: They are aggregate estimates of the total costs of pollution of these media. The estimates for air, water, and undeveloped land pollution are estimates, from the Environmental Protection Agency, of the direct costs of public and private pollution control activities in the United States. Estimates of air pollution include the annualized costs of air pollution and radiation. Water pollution estimates are the annualized costs of maintaining water quality, including drinking water. timates of undeveloped land pollution are the annualized costs associated with Superfund, toxic chemicals, and pesticides. The estimates of costs to restore or prevent the degradation of the environment (which, as noted earlier, are treated as capital formation in that they offset degradation and depletion of air, water, and undeveloped land) are based on current PAC expenditures and the flow of services from the stock of PA equipment and structures (the estimated return on the net stock plus depreciation). (Note that these direct PAC costs differ from the environment cleanup and waste disposal service costs discussed later in the article. These costs are indirect costs imposed by pollution in the form of health costs, higher maintenance and repair expenditures, or longer trips to reach clean recreational sites.)

Production accounts

The next step in integrating economic and environmental accounting is to combine the appropriate flows from the asset account with the flows in a production account. With this integration, the production account explicitly includes the use of natural resources and environmental services in production through entries for depletion and degradation, and it explicitly includes the additions to the stock of natural and environmental assets through entries for investments that add to stocks of developed natural resources or that restore stocks of environmental assets.

Table 2 combines features of the supply and use tables in the s_{NA} 1993. The table has four quadrants (one empty, except for a total), which are separated by double lines; a total column at the far right; and a total row at the bottom. The left and right upper quadrants show the use of goods and services (commodities) named at the beginning of the rows, summing to total uses as measured by total commodity output. The left-hand upper and lower quadrants show the use of intermediate inputs and factors of production by the industries named at the top of each column, summing to total supply as measured by total output.

A more typical supply and use table would show substantial industry and commodity detail—often a hundred of more industries and commodities. For the purposes at hand, this detail has been collapsed into an "other industries" column (column 3) and "Other" rows (rows 6 and 13). Detail is provided where it is especially relevant to the analysis of the environment. Such a table provides a bird's-eye view of production, income, and consumption, as highlighted in the paragraphs that follow.

Columns 1–4 in the upper left quadrant record the use of commodities by domestic industries in the *production* of other commodities—that is, intermediate use. Columns 5–9 record the use of commodities across the final demand categories that make up gross domestic product, including final *consumption* by households and government. Column 7 records the estimates in the "capital formation" column from table 1. (The made assets are recorded in rows 1–13, the developed natural and environmental assets in rows 14–24.)

In the left quadrants, rows 11-13 show the use of other commodities (that is, other than assets) as intermediate inputs. These commodities consist of expenditures for environmental cleanup and waste disposal services (row 12) and "other" (row 13). Total intermediate inputs used by industries are in row 25. Rows 26-41 record value added, or income. Rows 26-28 record the value added in the form of compensation of employees, indirect business taxes, and corporate profits and other property income. Rows 29-32 record, from table 1, the use of made fixed assets, including the depreciation of structures and equipment used in environmental management (row 30) and in PAC (row 31). Rows 33-41 record the use of fixed natural and environmental assets, with depletion and degradation of each of the eight categories of assets shown separately.

The estimates presented in table 2 are taken from table 1. As is indicated by the "n.a."—not available—in the table, many valuation and measurement issues remain before an IEESA production account can be completed. Further, work toward filling in the estimates would proceed in tandem with work on modernizing BEA's national accounts in line with the SNA (see the next section). For example, treating expenditures on government structures, equipment, and

inventories as capital formation implements a feature of the sna. In the table, a "Z" indicates the estimates that would reflect both work toward the IEESA's and SNA-related changes.

In addition to a production account such as table 2, the SEEA calls for parallel quantity tables. Further, because many environmental issues have their primary impact on specific regions or industries, the extension of the integrated national accounts aggregates within BEA's regional

Table 2.—IEESA Production Account, 1987

[Billions of dollars]

		Industries						Final uses (GDP)			
	Row	Agricul- ture, for- estry, and fish- eries	Mining, utilities, water, and san- itary services	Other industries	Total	Final cor House- hold	Govern- ment	Gross domestic capital formation	Exports	Imports	GDP (5+6+7+ 8-9)	Total com- modity output (4+10)
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
COMMODITIES Made Assets Fixed assets Environmental management Pollution abatement and control Other Inventories Government Nonfarm Farm Other Environmental cleanup and waste disposal services Other Natural and environmental assets Fixed Cultivated biological resources: Natural growth Proved subsoil assets Developed land Uncultivated biological resources: Natural growth Unproved subsoil assets Undeveloped land Water Air	1 2 3 3 4 5 5 6 7 7 8 8 9 9 100 111 122 133 144 155 166 177 188 199 20 21 22 22 23	(#) n.a. n.a.	(#) n.a. n.a.	(#) n.a. n.a.	(#) n.a. n.a.	(#) n.a. n.a.	(#) n.a. n.a.	905.8 905.8 875.8 10.6 19.7 845.5 30.1 2.9 32.7 -5.5 	(#) n.a. n.a.	(#) n.a. n.a.	######################################	(#)
Work-in-progress inventories (natural growth products) Total intermediate inputs	24 25	(#)	(#)	(#)	(#)			n.a.				(#)
VALUE ADDED												
Compensation of employees	26 27 28	(#) (#) (#)	(#) (#) (#)	(#) (#) (#)	(#) (#) (#)							(#) (#) (#)
equipment Environmental management Pollution abatement and control Other	29 30 31 32	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	- 607.9 -7.0 -12.2 -588.7							(#) (#) (#) (#)
Depletion and degradation of fixed natural and environmental assets Growth products: Fixed Proved subsoil assets Developed land Uncultivated biological resources Unproved subsoil assets Undeveloped land Water Air Gross value added (GDP) (rows 26+27+28+29+33) Depreciation, depletion, and degradation (rows 29+33) Net value added (NDP) (rows 42-43)	33 34 35 36 37 38 39 40 41 42 43 44	n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a. n.a. n.a. n.a.	n.a. n.a. -16.7 ↔ -61.6 n.a. n.a. -19.9 -38.7 -27.1 n.a. n.a.						(#)	(#) (#) (#) (#) (#) (#) (#) (#) (#)
TOTAL INDUSTRY OUTPUT	45	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)

n.a. Not available.

NOTE.—Leaders indicate that an entry is not applicable.
GDP Gross domestic product
NDP Net domestic product

It.d. root available:

These estimates will depend on the integration of the System of National Accounts and the System of Environmental and Economic Accounting as part of the overall modernization of BEA's economic accounts.

and input-output programs is an important extension.

Uses of the new accounts

Integrated economic and environmental accounts are the subject of intense interest, and expectations may differ from actual results. Among some observers, especially those extrapolating from studies conducted in resource-dependent developing economies, there is an expectation that such accounts will show that U.S. economic growth as currently measured is not sustainable, because the stocks of natural and environmental resources that ultimately determine economic growth are being run down. This expectation may well stem from focusing on depletion and degradation to the exclusion of additions.

The IEESA's will help to identify the use of the various natural and environmental resources. A priori, however, it is difficult to say whether there will be a net reduction or increase in their value overall. For example, while it is almost certainly true that the economic value of the stocks of some assets, such as bluefin tuna, are declining, the stocks of other environmental assets, such as timber stocks, have been increasing as planting and growth have more than offset harvests, fire, and land conversions. Similarly, while losses of wetlands from development continue to outnumber gains from wetland restorations, increasing rates of investments in cleaner air and water since the mid-1970's appear to have resulted in net improvements in air and water quality; many of the measures of air and water quality, such as the ambient concentrations of air and water pollutants, have shown improvement.

Because of these offsetting changes, it is conceivable that when all entries in table 2—or if not all, at least enough more than at present to avoid risks of conclusions based on partial results—have been filled in, the table will show that IEESA NDP differs little from traditional NDP.⁷ Nevertheless, the information about specific natural resources and specific industries, products, or regions will provide valuable insight about

sustainability and the implications of different regulations, taxes, and consumption patterns. In the United States, such information should prove useful in a wide range of policy issues.

Economic accounts do not provide normative data. They either report market values or proxies for market values. If a problem with property rights leads to the undervaluation and overexploitation of a resource, a set of integrated economic accounts will not reveal the "right" price or the "correct" level of stocks. They will, however, provide the data—for example, about changes in the value of the stocks and the share of income to be attributed to the resource—needed for objective analysis of the problem.

BEA'S Plan for Natural Resource and Environmental Accounting

BEA'S plan calls for work on the IEESA'S to be undertaken in conjunction with modernizing its economic accounts. BEA's national accounts are now undergoing the first major redesign since the 1950's. The redesign, which will be along the lines of the SNA 1993, will feature an integrated set of current and capital accounts, sector by sector. Fully developed capital accounts, along with balance sheets, are essential for a comprehensive set of economic accounts. The conceptual work on these accounts and the more specialized work on natural resources and the environment will be mutually supporting. Further, to make reasoned policy choices involving trade-offs among kinds of capital, one would want a view of the total capital stock—natural and made—consistently covered and appropriately valued.

BEA has developed a three-phase plan for the IEESA'S. With this issue of the SURVEY, BEA has completed the first phase of work.

Phase I: Overall framework and prototype estimates.—The overall IEESA framework is designed to build upon the existing national accounts and is in line with the guidance embodied in the new international SNA about a satellite system and the companion SEEA.

In its initial work, BEA has focused on mineral resources, consisting of oil and gas, coal, metals, and other minerals with a scarcity value. As described in the companion article, the focus, in accordance with SNA recommendations, is on proved reserves, the basis for valuation is market values, and the treatment given mineral resources—which require expenditures to prove and which provide "services" over a long

^{7.} There are also conceptual limitations to using NDP as the indicator of sustainable growth. NDP shows only the level of product, which cannot reflect much information about sustainability. The rate of change of NDP over time is more useful, but even this is not a clear indicator, because changes in NDP reflect changes in the rates of consumption, government expenditure, and net exports as well as net capital formation.

A measure that may be more useful as an indicator of sustainable growth is the net savings rate, which is affected only by changes in the rate of investment in, and the consumption of, fixed capital. If the savings rate—adjusted to reflect additions to, and subtractions from, natural as well as produced assets—is positive, then growth can be considered sustainable. (Because this assumes a high degree of substitutability between produced and natural assets, some refer to this concept as "weak sustainability.")

timespan—is similar to the treatment of fixed capital in the existing accounts.

The prototype estimates include stocks and flows in accounts that supplement BEA's national wealth accounts and NIPA's. These prototype estimates provide a comprehensive picture of the stocks of natural assets and the changes in them. They also allow an examination of the practical consequences of several alternative methods of valuing the stock of resources, additions, and depletion. The alternative methods represent the Bureau's technical assessment of the best estimates and framework that are feasible with existing sources and methods.

Phase II: Renewable natural resources.—The plan calls for work to extend the accounts to renewable natural resource assets, such as trees

on timberland, fish stocks, and water resources. Development of these estimates will be more difficult than for mineral resources because they must be based on less refined concepts and less data.

Phase III: Environmental assets.—Building on this work, the plan calls for moving on to issues associated with a broader range of environmental assets, including the economic value of the degradation of clean air and water or the value of recreational assets such as lakes and national forests. Clearly, significant advances will be required in the underlying environmental and economic data, as well as in concepts and methods, and cooperative effort with the scientific, statistical, and economic communities will be needed to produce such estimates.

Accounting for Mineral Resources: Issues and BEA's Initial Estimates

MONG NATURAL assets, the characteristics of minerals—oil, gas, coal, and nonfuel minerals—are the most similar to the characteristics of assets included in traditional economic accounting systems. Not surprisingly then, minerals have long been considered as candidates for a treatment that is symmetrical with the treatment given other assets. Such a treatment is at the heart of the integrated economic and environmental satellite accounts (IEESA'S), which are the subject of a companion article, beginning on page 33. Failure to account symmetrically for mineral resources as a form of capital has been blamed both for their over- or under-exploitation and for incomplete analysis and policy decisions in areas relating to productivity and budgeting.

The companion article noted three points of asymmetry between the treatment given assets such as structures and equipment in the traditional economic accounts and the treatment given natural assets. First, in traditional economic accounts, there is no entry for additions to the stock of natural resources parallel to the entry for additions to the stock of structures and equipment. Second, there is no explicit entry for the contribution of natural resources to current production, as measured by gross domestic product (GDP), parallel to the entries that capture the value added of structures and equipment. Finally, there is no entry for the using up of the stock of natural resources parallel to the entry for the depreciation of structures and equipment used to arrive at net domestic product (NDP) which is used by some as a shorthand measure of sustainable product.

This treatment given mineral resources in the traditional economic accounts is anomalous in several respects. First, firms spend large amounts of time and other resources in "proving" mineral reserves, and these reserves, like structures and equipment, yield a flow of services over many years. As firms prove these reserves, they are entered, along with investments in new structures and equipment, in the firms' balance sheets. Additions to these reserves are also recognized by investors and reflected in firms' equity prices. Second, the value added of a resource like coal or

oil is included in GDP even though no explicit entry for its contribution is made: Its value added is in a sense "appropriated" by the other factors of production and is included in the rents, royalties, and profits of the owners of invested capital. Finally, although the traditional economic accounts do not include an entry for depletion of natural resources, firms and investors recognize depletion in assessing the value of firms and the sustainability of their current profit levels.

The treatment of natural resources in the mining industry has long been debated in economics literature.1 While there is a conceptual case for symmetrical treatment of mineral resources and invested capital, the absence of good market prices to value additions, depletion, and stocks has been a stumbling block. Property rights issues, incomplete information, asymmetry in bargaining, and the structure of payments for mineral rights create a situation in which either there are no observable prices or prices are seriously incomplete or unrepresentative. Partly as a result of this situation, traditional economic accounts have treated the value added of mineral resources as free gifts of nature, making entries neither to the flow accounts for additions to, or depletion of, the stock of these resources nor to the wealth accounts.

The omission of explicit entries for mineral resources has import beyond the economic accounts. The absence of an entry, or market price, for depletion may—in combination with common property rights—mean that the accounts do not identify overexploitation. This possibility is particularly important because a large share of the Nation's mineral resources are on public lands. (However, as the current problems in the New England fisheries suggest, the issue clearly has import for a wide range of other resources.) Such omissions have also been cited as the source of problems in productivity analysis. Despite the inclusion of land, labor, and capital in the most elementary production function used in studying

Business accounting has also long debated issues in accounting for minerals; further, there was a resurgence in interest after the "energy crisis" in the mid-1970's. Since then, the Financial Accounting Standards Board has issued five new standards to improve accounting for mineral resources.

productivity, measures of natural resources have generally not been available. Finally, the absence of measures of natural resource stocks and stock changes on Federal lands has been cited as contributing to less-than-optimal Federal budgeting decisions.2

As previously mentioned, this article is the second of two articles reporting on the IEESA'S. It provides initial estimates of the value of additions, depletion, revaluations, and stocks of mineral resources and on the impact such estimates would have on the estimates of the Nation's production, income, and wealth. This article begins with a summary of the major conceptual and methodological issues in accounting for mineral resources. Next, the article describes alternative methods of valuation that can be used to develop IEESA estimates for minerals, and it then presents estimates for oil, gas, coal, metals, and other minerals using these methods. An appendix provides information on data sources and methods. Tables 1-5 appear at the end of the article: Table 1.1-1.6 present estimates of oil—opening stocks, additions, depletion, and the revaluation adjustment—for 1947-91; tables 2.1-2.6 present estimates of gas for 1947-91; tables 3.1-3.4 present estimates of coal for 1958–91; tables 4.1–4.4 present estimates of metals for 1958-91; and tables 5.1-5.4 present estimates of other minerals for 1958-91.

Conceptual and Methodological Issues

In addressing conceptual and methodological issues for mineral resources, as for natural resources and the environment more broadly, BEA has attempted to follow two principles. First, the treatment in the satellite accounts should be consistent with the principles of economic theory. Second, the satellite accounts should embody some concepts and definitions that differ from those of the existing accounts in order achieve their purpose of showing the interaction of the economy and the environment, but in other respects they should be consistent with the existing accounts. Satellite accounts provide the flexibility to make changes that are useful in analyzing natural resources and long-term economic growth, but consistency with the existing accounts will allow the satellite accounts covering mineral resources to link to, and build upon, the existing economic accounts, including the input-output and regional accounts.

The conceptual and methodological issues discussed in this section can be divided into two main groups. The first group deals with the accounting treatment for mineral resources. The second group deals with valuation.

Accounting issues

Treatment of additions to reserves.—Symmetrical treatment of proved mineral resources with structures and equipment requires treatment of additions to the stock as capital formation and of deductions as depletion. Capital formation records the initial production of the capital, as well as its addition to the capital stock; depreciation records the reduction in the capital stock associated with its use, as reflected in NDP. Over the life of the asset, depreciation sums to the value of the original investment.

In economic accounting, as in business accounting, what comes off the books must have gone on the books. This business accounting requirement was one of the reasons why estimates of depletion of natural resources have not been included in official estimates of NDP. Beginning in 1942, depletion allowances for minerals and timber were deducted from GDP in the estimates of net national product made by the U.S. Department of Commerce. Discoveries of minerals, however, were not included in capital formation and net product. The depletion allowances were eliminated in 1947 because of this absence of an entry for capital formation.

Despite this accounting requirement for symmetrical treatment of additions and reductions, a number of economists have called for a return to the 1942 treatment—that is, an entry for depletion but not for additions. This position seems to have been based on at least three considerations, each of which is evaluated in the paragraphs that follow.

First, an entry for depletion will respond to at least part of the concern about the treatment of mineral resources in the traditional accounts. If the goal is to produce a measure of NDP that reflects the depletion of mineral resources in GDP, deduction of depletion to arrive at an alternative NDP will provide such a measure. Although it cannot be explicitly identified, as noted previously, the contribution of mineral resources is already included in GDP. Deduction of an estimate of depletion will give a partial measure of sustainability, one that indicates the using up of the existing stock of mineral resources.

What such a partial measure will not do is allow the detailed identification of the contribution

^{2.} See, for example, Gavin Wright [35] and Michael J. Boskin, Marc S. Robinson, Terrance O'Reilly, and Praveen Kumar [4].

of the mineral resource to income, production, consumption, or wealth, either in the aggregate or by sector. Nor will it provide a complete measure of sustainability. Without an entry for additions, deduction of depletion alone to calculate an alternative NDP may produce misleading signals regarding the sustainability of a nation's production and wealth. For example, with only depletion accounted for, a nation adding to its stock of reserves—through exploration and development and through improved recovery techniques—at a rate that more than offsets depletion would nonetheless have an alternative NDP lower than the traditional NDP. The lower NDP would suggest that the country was running down its resources and that the current level of production was at the expense of future production, despite the fact that reserves were actually increasing.

Second, estimates of the value of additions to the resource stocks are quite volatile, uncertain, and, at times, large. Volatility in resource prices, changes in mining technology, and uncertainty about the ultimate recoverability from existing reserves all affect the value of mineral reserves. It is not clear, however, that the volatility introduced by such estimates would be any larger than that already observed in investment, particularly inventory investment, the most volatile component of traditional accounts.

Third, probably the most important reason for the lack of enthusiasm for including additions to reserves as capital formation in GDP is that additions to reserves are so different from additions to capital stock. This difference, in combination with the volatility of additions to reserves, would limit the usefulness of accounts for conventional macroeconomic analysis. The inclusion of large additions to mineral resources in GDP, such as those associated with the North Slope in Alaska and the North Sea in Europe, are important additions to a nation's wealth and have a significant impact on economic activity, but the effect differs from that associated with investment in a new factory. Both add to wealth, but for the factors of production involved in building the factory, payments have been made, and the resources are available for current consumption. In contrast, much of the increase in wealth associated with adding proved reserves accrues to mining companies and landowners in the form of increases in land values and equity prices. To make these resources available for current consumption would require the "producers" of the mine or well to sell their product.

Many of the concerns about volatility and the different nature of additions to mineral reserves can be diffused by placing these values in a satellite account that allows integrated analysis of mineral resources outside the main accounts. This inclusion of natural resources in a satellite account allows researchers the flexibility to experiment without impairing the usefulness of the traditional accounts. In addition, within the IEESA's, the effect of volatility in mineral prices is largely confined to the revaluation account and has a limited effect on the estimates of current income, production, and consumption.

Fixed capital or inventory treatment.—Even when economic theorists have thought of natural resources as a type of capital, they have disagreed about whether the resources should be treated as fixed capital or as inventories.3 This disagreement may seem a bit strange because proved mineral reserves seem to fit the classic characteristics of fixed capital: Expenditures of materials and labor are needed to produce a productive asset ("roundabout" production), which yields a stream of product over long periods of time. The rent to owners of fixed assets comprises the reduction in the value of the asset due to its use in the current period (depreciation) and a return equal to what the current value of the asset could earn if invested elsewhere. Inventories, on the other hand, are buffer stocks of inputs and final products that help to smooth production and avoid lost sales. As a rule, inventories are sold within a year or one accounting cycle. Although interest or holding costs are a consideration in determining inventory levels, they are much less important than for fixed capital.

Part of the rationale for treating mineral reserves as inventories may arise from the perception that they differ from fixed capital in that they are a set number of units waiting to be used up in production. However, like the output from a new machine, the number of units extracted from a new field or mine is quite uncertain and varies over time with the path of future demand, changes in technology, prices, costs, and returns on alternative investments. In addition, although a piece of machinery may not appear from the

^{3.} Part of the debate over the treatment of minerals as inventories or as fixed capital may reflect the view that depletion should be counted as a reduction in the highly visible GDP measure, rather than in the less well known NDP. If natural resources are treated like fixed capital, the depletion of the resources in the production process would be treated like depreciation. Because NDP is defined as GDP less depreciation, with this treatment any depletion charge would affect NDP but not GDP (as noted earlier, conventional GDP implicitly includes depletion). On the other hand, the change in business inventories is a component of both GDP and NDP. Consequently, some have argued that if depletion were viewed as a net decline in inventories, it would result in a subtraction from both GDP and NDP.

exterior to be used up in production, its parts or service life are most certainly "used up" in production; this "using up" is reflected in the decline in its value, or the depreciation on the equipment.

To emphasize the replaceability of proved reserves, some analysts have chosen to describe these reserves as inventories. This motive notwithstanding, treatment of mineral reserves symmetrically with fixed investment in structures and equipment would serve equally well as a reminder of the "reproducibility" of proved reserves in the IEESA's.

Proved reserves or total resources.—The amount of mineral resources that can be recovered, given current economic conditions, is not certain. Reserves are generally classified by the degree of certainty attached to the estimates. For example, proved petroleum reserves are estimated physical quantities that have been demonstrated by geologic and engineering data to be recoverable under current economic conditions and technology. Reserves whose recovery under current economic conditions is less certain are classified as either "probable" or "possible." Estimates are also available on the total amount of reserves that remain to be discovered—that is, of "undiscovered" reserves. There are a variety of perspectives on which of these measures of reserves should be used in accounting for minerals. Should the accounts be concerned only with "proved" reserves, or should they also account for 'probable," "possible," or even "undiscovered" reserves?

Authors who have focused on proved reserves have tended to do so because of the large uncertainty associated with the other measures. As noted in the companion article, BEA ultimately intends to include unproved reserves as part of "nonproduced/environmental" assets, but the mineral reserve estimates presented here are restricted to proved reserves.

One means of dealing with the uncertainty in valuing unproved reserves may be the use of "option" values. Unproved reserves are clearly bought and sold, and the values or options that could be used in these transactions might be used to develop average option values to be used in valuing the entire stock of a nation's reserves. An operational methodology for making such estimates has not yet been identified.

Valuation issues

The absence of complete data on mineral resource prices has meant that the value and contribution of mineral resources to income, production, consumption, and wealth have usually had to be based on methodologies that produce proxy estimates of their market price. There are two elements to making such estimates. The first is separating the contribution of the resource in the ground—which is implicitly included in the price of a marketed mineral product—from that of other factors of production. The second is determining the appropriate per-unit value for estimating the value of the stock of the resource and the value of changes in the stock, including additions, depletion, and revaluations.

In addition, it is useful to identify several terms at the outset. First, "rent" refers to the concept of the return to factors of production after deduction of variable costs. More empirically, "gross rent" is simply gross revenues less expenditures on intermediate goods and employee compensation. (Rent in these situations is not to be confused with "rental income of persons" found in the national income and product accounts.) Second, "invested capital" refers to the structures and equipment in which the firm or industry has invested.

Identifying the return to the resource.—The price of a unit of the resource—for example, a barrel of oil—reflects, in addition to the cost of goods and services used in its production, a return to labor, a return to invested capital, and a return to the resource. The first step in identifying the value of a barrel in the ground is to determine the rent, in this case the rent to the resource and the capitalized value of investments in mining. In industries such as petroleum mining, good data are generally available on the variable costs, so arriving at gross rent is, at least conceptually, relatively simple. The next step is to determine the share of gross rent that accrues to the invested capital and the share that accrues to the resource.

In theory, the rent to owners of both the invested capital and the oil in the ground should equal the reduction in the value of each asset due to its use in the current period (depreciation and depletion, respectively) plus a return equal to what the current value of the well (the invested capital and the oil in the ground) could earn if invested elsewhere. The desirable way to measure the rent would be to observe market prices for these transactions; however, often there is no transaction, and the observable transactions that

take place are often not representative of the full value of the oil. As a result, the various methods described in the next section use indirect techniques to estimate the market value of the return to invested capital, and they derive the return to the oil in the ground as a residual.

Valuing the resource stock and depletion.—Valuing the stock of a resource and valuing the decline in the stock's value associated with extraction are complicated because the extraction takes place over a long period of time. Unless the price, or value, of that resource rises enough to offset the income that could have been earned on alternative investments (including an inflation premium), resources extracted in the future will be worth less, in real terms, than those extracted today. In theory, the market value of the stock should be equal to the present discounted value of the future stream of rent from the stock, whereas depletion is the decline in the value of the stock associated with extraction in the current period. Translating the current per-unit rent of a resource into a per-unit value appropriate for valuing the stock and depletion requires information about the future path of extraction, prices, and interest rates. Unfortunately, such information is generally not available. In the absence of market prices, estimation of the current value of the resource requires either resort to economic theory, use of a set of explicit assumptions, or empirical estimation.

Empirical estimation of the factors required for computing the present discounted value of the resource is fraught with difficulties, in part because of the volatility of mineral markets. Simplistic assumptions do at least as well as econometric forecasts in tests of their predictive accuracy, and the assumptions are relatively easy to understand.

Alternative Methods of Valuing Mineral Resources

BEA has prepared estimates using four methods of valuing resource stocks and changes—depletion, additions, and revaluations—in the stocks.⁴ These methods rely on estimates of three

variables: (1) The normal return to invested capital, based on some average rate of return to all investment in the economy; (2) the return to capital based on the market value of the capital stock in the oil industry; and (3) the per-unit capital cost of additions to the stock of proved reserves. The use of these variables as described in the following paragraphs represents BEA's assessment of the best estimates given existing source data and frameworks. The accompanying box provides an algebraic description of the methods.

Current rent estimates

The simplest assumption that can be used is based on Harold Hotelling's observation that in equilibrium, the price of the marginal unit of a nonrenewable natural resource net of extraction costs (the current per-unit rent to the resource) should increase over time at a rate equal to the nominal rate of interest.⁵ At any rate of increase in the per-unit rent above (below) the rate of return on alternative investments, entry (exit) and increases (decreases) in the rate of extraction will combine to reestablish the equilibrium rate of increase in the resource rent. If this observation holds, the value of the stock of the resource is independent of when it is extracted and is equal to the current per-unit rent to the resource times the number of units of the resource.⁶

The following two methods assume that over time the rent per unit will increase at the rate of interest; they simply use the current per-unit rent to value the resource and depletion.

The first method, current rent method I, utilizes an estimate of a normal, or average, rate of return to investment to estimate the rent to the associated capital invested in the mining industry and then derives the resource rent as a residual. This method applies this average, economywide rate of return to investment to an estimate of the replacement cost, or market value, of the net stock of associated capital invested in mining and then adds depreciation to estimate a "normal" rent to invested capital. The rate of return used is 6 percent, approximately the 45-year average real rate of return to investment in corporate bonds and equities for the period ending in 1991, which is an estimate of the rate of return available on al-

^{4.} Among the methods that have not been used is one suggested by Salah El Serafy. The approach essentially calculates the amount that must be invested in a "sinking fund" to create an income stream sufficient to replace that produced by the natural resource. The approach, although frequently mentioned in the resource accounting literature, is not included largely because it is inconsistent with the concepts embodied in traditional national accounts and the IEESA's. In traditional accounts, the value of an asset is determined by its market price, or proxy thereof. El Serafy's approach, a welfare-oriented measure, is not intended to estimate the market value of the mineral resource.

In other words, the real price of the resource should increase at the real rate of interest, and there is no need for discounting.

^{6.} As discussed later, it may be true that over long periods, the rent per unit for mineral resources—like most tangible assets held for investment purposes—will rise at a rate equal to the nominal discount rate; however, periods of disequilibrium may be quite long. Nevertheless, given the problems in forecasting volatile minerals prices, technology, etc., this simple assumption may yield results as good as or better than other methods.

ternative investments. The steps in estimating the rent to and value of the resource are as follows:

- 1. Gross rent is calculated as total revenue less current operating expenditures. (Current operating expenditures are those associated with bringing the mineral from the deposit to the wellhead or mine gate.)
- 2. The resource rent is obtained by subtracting the rent to capital (both depreciation and a normal rate of return for capital) from the gross rent.
- 3. The per-unit rent to the resource equals the resource rent divided by the physical quantity extracted.

- 4. The value of the resource equals the per-unit rent times the physical quantity of reserves. Additions and depletion are valued at rent per unit times the physical quantities of added and extracted reserves.
- 5. Revaluations—the effect of price changes—are computed as a residual: The value of the resource at the end of the current year less its value at the end of the preceding year, plus depletion during the year, less additions during the year.

The advantage of this method is that it is relatively straightforward and requires few assumptions. The main disadvantage is that an explicit assumption must be made regarding the

Algebraic Description of the Alternative Methods of Valuing Mineral Resources

Current rent method I (Based on average return to capital):

GR = TR - COE

RR = GR - (rNS + DEP)

 $\delta r = RR/QE$

 $VR = \delta r(QRES)$

 $DEPL = \delta r(QE)$

 $VA = \delta r(QADD)$

REVAL = VR(t)-VR(t-1)+DEPL-VA

Current rent method II (Based on value of capital stock): *

 $\delta GR = GR/QE$

 $V = \delta GR(QRES)$

VR = V - NS

 $\delta r = VR/QRES$

Net present discounted value: *

 $\Phi \quad = \quad \sum_{j=1}^{T} \frac{1/T}{(1+i)^{j-1/2}}$

 $\delta r = \Phi[(V - NS)/(QRES)]$

Replacement cost: *

bf = [(QE/QRES)/((QE/QRES)+r)]

 $\delta r = bf[(TR - COE)/Q] - (\$ADD/Q)$

Transaction price: *

 $\delta GR = (TV/TQ)$

 $\delta r = \delta GR - (NS/ORES)$

* DEPL, VA, REVAL for all methods are computed using the same formulas as presented for current rent method 1.

Definitions:

Aggregate value measures:

TR = total revenue

CO = other extraction expenses, including compensation of employees, materials consumed, and overhead cost allocated to current production

GR = gross rent

RR = resource rent

NS = net stock of capital valued at current replacement cost

TV =value of purchased reserves during the year

V =value of the proved reserves (resource and fixed capital values)

VR =value of the resource stock

VA = value of the annual additions

DEP = depreciation

DEPL = value of the annual depletions

REVAL = the effect of price changes on the value of the stock

\$ADD = the annual exploration and development expenditures for drilling oil and gas wells in fields of proven reserves (including overhead costs allocated to development)

 Φ = Net discounted present value factor

Quantity measures:

QE = quantity of the resource extracted during the year

QRES =stock of reserves

QADD = Quantity of resources added to reserves during the year (through new discoveries, extensions of existing sites, or revisions in estimated reserves)

TQ = quantity of proved reserves purchased during the year

Per unit measures:

 $\delta GR = \text{gross rent per unit } (GR/Q)$

 δr = resource rent per unit

Rates and other items:

r = real rate of interest, or discount rate

N = Life span of a resource (e.g., well or mine), R/Q

j = current year

T =life of asset (NIPA convention)

a = reserve decline rate, Q/R

bf = barrel factor

appropriate rate of return. In addition to the conceptual and empirical problems in identifying an appropriate rate, prespecification of a rate does not allow for relatively low or high rates of return in the mining industry due to conditions specific to the industry.

An alternative method, current rent method II, derives resource rent by removing the market value of capital, both physical and capitalized expenditures, from the value of the resource reserve. The steps to deriving the per-unit rent are as follows:

- Gross rent per unit is derived by dividing gross rent by the physical quantity of extraction.
- The total value of the mineral reserve (the resource and the associated invested capital) equals the gross rent per unit times the quantity of reserves.
- 3. The value of the resource equals the total value of reserves less the current replacement value of the net stock of invested capital.
- 4. Resource rent per unit equals the value of the resource divided by the quantity of reserves.

The advantage of this method is that it does not require an explicit assumption about the return to invested capital associated with the resource.

Present discounted value estimates

If it is assumed that rent to the resource does not rise enough to compensate the owners of the resource for the nominal interest they could earn on alternative investments, then the stream of future rents must be discounted by the difference between the rate of increase in resource rent and the nominal interest rate. As noted previously, with discounting, identical dollar values during different time periods have different present values, so valuation by present discounted values requires—in addition to an assumed discount rate—a number of assumptions about the stream of future rents.

In BEA's implementation of this method, three simplifying assumptions were made so that each cohort of additions to reserves did not have to be tracked separately throughout its economic life. First, extraction resulting from additions to proved reserves was assumed to be constant in each year of a field's life, and depletions were assumed to result equally from all cohorts still in the stock. Second, new reserves were assumed to be extracted at constant rates over the same time-frame used for depreciating wells and mines in

the NIPA's: 16 years until 1972 and 12 years thereafter. Finally, extractions were assumed to occur at midyear and were valued using the per-unit rents described for current rent method II.

Two real rates of discount—3 percent and 10 percent—were chosen to illustrate the effects of a broad range of rates on the values of additions, depletion, and stocks of reserves. Thus, the relatively high and relatively low rates chosen encompass many of the alternatives that have been used in discounting.⁷ The 3-percent discount rate has often been used to approximate the rate of time preference. The 10-percent rate has often been used to approximate the long-term real rate of return to business investment.

The steps for estimating the present discounted value estimate of the resource rent per unit are as follows:

- A discount factor was derived using an estimate of the real rate of discount—the nominal interest rate less the rate of increase in the resource rent—and the NIPA estimates of the lifespans of mineshafts and wells.
- The rent per unit equals the discount factor times the gross rent per unit derived from the current rent method that is based on the value of capital stock in the mineral industry.⁸

Replacement-cost estimates

The replacement-cost method subtracts from gross rent the cost per unit of adding new reserves, thereby identifying the resource rent as a residual. It uses the per-unit cost of proving new reserves to represent invested capital's share of the gross rent. The value of a unit of resource in the ground is estimated; the cost to replace it by investment is subtracted from that in-ground value, and the residual is the resource rent. This method uses current rates of extraction to estimate future production and uses an

^{7.} Although these real rates—3 percent and 10 percent—are often used to discount future returns, both are probably high for an appreciating tangible asset for a number of reasons: (1) Mineral prices do rise, at least partly, if not fully offsetting the effect of discounting; (2) as many authors have argued, decisions with intergenerational effects should be valued at lower discount rates than other transactions; and (3) a real rate of 10 percent, which is often cited and has been used by the Office of Management and Budget as an estimate of the real rate of return to private capital, is biased upwards. The 10-percent return is based on estimates of the before-tax return to reproducible capital, which is computed as all property-type income divided by the replacement-cost value of reproducible assets. Some authors have attempted to adjust the return to reflect the fact that property-type income is a return to land and other factors as well as to reproducible capital; nevertheless, to the extent that these other factors are excluded from the denominator, the computed return to capital is too high.

^{8.} Because of the simplifying assumptions used, somewhat different discount-extraction factors are applied to stocks and flows; for most years, the differences are very small.

assumed discount rate of 6 percent.⁹ Because of the lack of production cost data, transactions data for the sale of reserves, and techniques to estimate those market values for all other minerals, the replacement-cost method is used only for oil and gas. The steps for deriving the per-unit resource rent are as follows:

- The barrel factor—which is used to calculate the value of a barrel of oil in the ground is equal to the depletion rate of the reserves divided by the sum of the real discount rate and the depletion rate.
- 2. The per-unit resource rent is calculated by multiplying the gross rent per unit by the barrel factor and subtracting the per-unit exploration and development cost.

Transactions-price estimates

When oil and gas firms seek to replace the reserves that have been depleted as a result of their production, they face a "make or buy" decision. They can either make new reserves by financing exploration and development efforts, or they can buy reserves that have already been proved by others. This article refers to the purchase price of proved reserves as a "transactions price" because it represents a price that was paid in an actual transaction. The costs of acquiring new reserves by financing exploration and development efforts are termed "finding costs." In equilibrium, and ignoring the different tax treatment of purchasing and drilling for oil, the finding costs should be equal to the transactions price.

If available, transactions prices are ideal for valuing reserves. As it turns out, such transactions are relatively infrequent because companies generally develop their own reserves. As a result, the few transactions that occur are not easily generalized for estimating the total value of reserves.

The estimates of resource values for oil and natural gas presented here are derived from transactions prices constructed from publicly available data on the activities of large energy-producing firms. The derivation of per-unit resource rent is as follows:

1. The per-unit gross rent for the resource and its associated invested capital is obtained by

- dividing aggregate expenditures for the purchase of the rights to proved reserves by the quantity of purchased reserves.
- The per-unit resource rent equals the perunit gross rent less the per-unit net stock of associated capital invested in the oil and gas industry.

Estimates for Mineral Resources

The value of resource reserves and changes in reserves were estimated for the period 1958–91 for major mineral resources using the four valuation methods just discussed. The minerals valued include the fuels (petroleum, natural gas, coal, and uranium), the metals (iron ore, copper, lead, zinc, gold, silver, and molybdenum), and other minerals (phosphate rock, sulfur, boron, diatomite, gypsum, and potash). Petroleum and gas account for the lion's share of mineral production. The other minerals were selected because, of the minerals that have scarcity value, their value of production was relatively high.

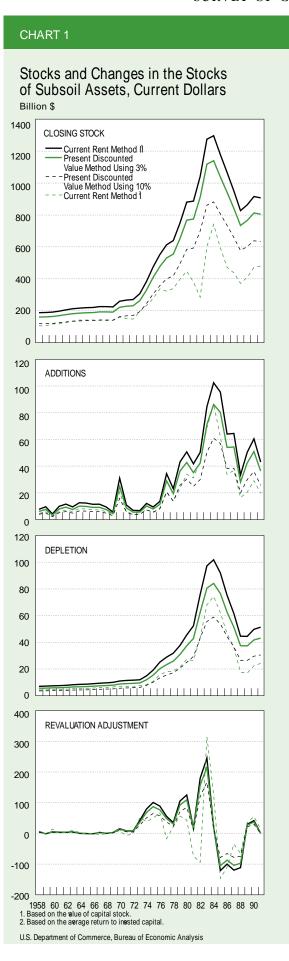
The picture that emerges from the various estimates of the value of U.S. mineral stocks is broadly similar, regardless of which methodology is used:

- The value of additions has tended to exceed depletions; since 1958, the value of the stocks of proved mineral reserves in the aggregate has grown in current dollars, while showing little change in constant (1987) dollars (charts 1 and 2 and table A).
- Changes in the stocks of these productive assets over time have largely reflected changes in their resource rents. Increases in resource rents have been accompanied by greater investment in exploration and enhanced recovery technology, and decreases in rents for some resources have been accompanied by reduced exploration activity and the closing of marginal fields and mines.
- Proved mineral reserves constitute a significant share of the economy's stock of productive resources. Addition of the value of the stock of these mineral resources to the value of structures, equipment, and inventories for 1991 would raise the total by \$471-\$916 billion, or 3–7 percent, depending on the valuation method used.
- The stocks of proved mineral resources are worth much more than the stocks of invested

The method outlined here is based on the approach used by M.A. Adelman, which has been modified to estimate the resource rent and hence the depletion and the value of oil and gas resources.

^{10.} Note that if the resource appreciates at a rate equal to the nominal interest rate, the real discount rate (nominal rate less the increase in prices) is zero, and the barrel factor has a value of one; in this case, the current rent is used to value reserves and depletion.

^{11.} The transactions-price and replacement-cost methods are used for the period 1947-91 and only for oil and gas.



- structures and equipment associated with the resources. In 1991, the value of the stock of subsoil assets was 2 to 4 times as large as the value of the associated stock of invested structures and equipment and inventories.
- Valuing the effect of depletion and additions, as well as including the value of resource stocks, provides a significantly different picture of returns. Compared with rates of return calculated using income and capital stock as measured in the existing accounts, the IEESA-based average rates of return on capital in the mining industry for 1958–91 are lower—4–5 percent rather than 23 percent (table B). Rates of return for all private capital slip from 16 percent using measures in the existing accounts to 14–15 percent using IEESA measures for the mining industries.
- Although the trends that emerge from the alternative methods are similar, the range of estimates is large. The highest estimates of stocks, depletion, and additions were obtained from the current rent estimates based on capital stock values, and the lowest were from the current rent estimates based on average rates of return to capital.

The stock of proved reserves increased from \$103-\$182 billion in 1958 to \$471-\$916 billion in 1991. In constant dollars, the stock rose somewhat and then fell, but over the period showed little change: From \$544-\$1,077 billion in 1958, the real stock slipped only slightly to \$530-\$1,030 billion in 1991. The patterns vary by type of mineral and reflect the effects of prices and costs of production, the volatility in international minerals prices, increasing environmental regulation, and the effect of strikes and other factors specific to each industry.

For petroleum, despite periodic concerns that the United States was running out of oil, additions have offset depletion throughout the period as oil companies have responded to higher net returns by stepping up exploration and improved recovery techniques to produce stocks of proved reserves sufficient to meet current and intermediate-term needs in light of current prices, costs, and interest rates. The one spike in the constant-dollar oil and gas series was in 1970, the year of the Alaskan oil strike.

For coal, additions have exceeded depletions, resulting in a generally rising constant-dollar value of stocks over time. For other minerals, the stock patterns have varied, with declining stocks in metals reflecting large declines in the returns to metals.

The 1991 stock of mineral reserves would add 3–7 percent to the 1991 value of reproducible tangible wealth of \$13,637 billion, of which private nonresidential structures and equipment were \$5,440 billion. Over time, the mineral reserves share of an expanded estimate of national wealth has fallen; in 1958, mineral reserves would have added 9–17 percent to reproducible tangible wealth. This decline appears to reflect several factors, including the economy's increased reliance on foreign resources and the increased efficiency in the use of fuels and other minerals.

Although industry makes large investments in exploring and developing mineral resources, the value of the invested capital associated with oilfields and mines is small relative to the value of the mineral reserves themselves. In 1991, the value of subsoil assets was 2–4 times as large as the associated capital invested in mining. Addition of these stocks of productive natural assets provides a more comprehensive picture of both the assets and the returns in the mineral industries.

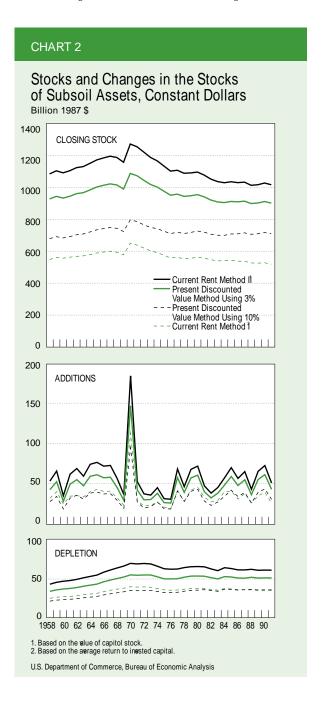
Treatment of natural resources symmetrically with investments in equipment and structures provides a very different picture of rates of return to mining. Rates of return in the mineral industries calculated using income and capital stock as measured in the existing accountsspecifically, by dividing property-type income by the replacement value of structures, equipment, and inventories—averaged 23.1 percent for 1958-91. The more complete IEESA estimate deducts depletion and adds additions to property-type income, and it adds the value of resource stocks to the value of structures, equipment, and inventories. Depending on the valuation method used, the IEESA rate of return would be 3.5-5.2 percent. The effects of including mining resources are so large that the rate of return to all private capital is reduced from 16.1 percent to 14.1-14.9 percent. These IEESA rates of return provide a significantly different picture of the social rate of return to investments in the mining industries and the sustainability of the industries' output. 12

As noted, the highest estimates of resource reserves are from the current rent method based on the value of capital stock invested in the industry.¹³ The value of subsoil assets using this

method was \$916 billion in 1991. The lowest value in 1991, \$471 billion, was obtained from the current rent method based on a normal return to invested capital. The present discounted value estimates fell somewhere in between—\$638-\$812 billion.

The replacement-cost and transactions-price estimates were computed only for oil and gas. The transactions-price estimates, despite considerable smoothing, were quite volatile and erratic.

preference rate of 3 percent—or a nominal rate of approximately 6 percent—the current rent methods may not be too far off the mark over long periods of time, given the range of uncertainty in the estimates of rates of return. If one chooses a higher discount rate, then *some* discounting should occur.



^{12.} Given the effect of tax laws, transfer pricing, and excluded assets, comparison of rates of return across methods is difficult at best. Many of the mining industries have relatively little invested capital (fixed or inventory) associated with the resources, and hence the computed returns to reproducible capital are overstated relative to those that mining companies, which do count the value of property, have on their books.

^{13.} Over the period of this analysis, the current rent per unit for all the resources increased at an annual rate of 4-8 percent. Based on a real time

1991

915.5

51.3

Table A.1.—Value of the Resource, Additions, and Depletion of All Subsoil Assets, Current Rent Method I (Rate of Return)

						•			
		Billio	ns of cur	rent dollars		Billi	ions of 1	1987 dol	ars
Year	Opening stock	Addi- tions	Deple- tion	Revalu- ation ad- justment	Closing stock (1+2-3+4)	Opening stock	Addi- tions	Deple- tion	Closing stock (6+7-8)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1958	102.6 105.6 105.2 117.2 120.1 125.4 135.8 141.7 141.8 142.7 140.0 138.4 139.5 159.7 127.8 337.1 277.8 337.1 322.6 60.6 741.3 594.4 471.6 437.5 371.1 499.9	4.6.9 2.6.6 6.0.9 6.0.0 8.2.2 7.9.7 7.4.2 20.5 5.9.3 4.2.2 7.6.4 21.0.0 86.3 33.9 31.1 33.8 36.8 62.1 33.8 36.8 29.1 62.1 36.2 96.2 96.2 96.2 96.2 96.2 96.2 96.2 9	4.3 4.4 4.5 4.6 4.8 5.3 5.5 5.5 6.1 7.0 6.5 7.6 8.3 10.7 15.7 17.9 21.6 27.2 26.3 43.6 68.1 74.5 62.3 46.4 43.6 6.5 16.9 22.2 24.2 24.2	2.8	105.6 105.2 117.2 120.1 125.4 135.8 141.7 140.0 138.4 139.5 159.7 152.1 147.9 195.7 233.1 277.8 337.1 322.6 339.5 398.1 448.3 379.4 285.2 600.6 741.3 594.4 471.6 437.5 371.1	544.4 550.0 562.2 558.5 564.2 569.8 572.5 580.7 590.9 596.6 601.9 595.3 579.5 651.8 621.8 631.8 631.8 631.8 631.8 554.0 554.0 554.0 554.0 554.0 554.0 554.3 554.0 554.3 558.9 548.5 548.5 548.6 548.6 548.6 554.7 559.9 548.6 554.0	31.4 33.9 34.1 33.9 39.4 42.3 39.9 40.2 21.7 22.9 26.2 22.6 40.8 32.6 41.5 45.0 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6	25.9 27.7 28.2 29.0 30.3 31.1 34.1 36.0 37.3 38.5 40.4 39.6 38.1 36.0 36.3 37.3 38.3 37.9 38.3 37.1 36.0 37.1 36.0 36.3 37.3 38.5 37.3 38.5 37.3 38.5 38.5 37.3 38.5 37.3 38.5 38.5 37.3 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38	550.0 562.2 558.5 564.2 569.8 572.5 580.7 590.9 596.6 600.9 595.3 579.5 651.8 605.1 593.2 577.2 559.5 564.0 557.6 564.3 558.3 558.5 564.0 557.6 564.3 558.5 565.1 565.2 577.2 559.5 564.0 557.6 564.3 565.3

Table A.3.—Value of the Resource, Additions, and Depletion of All Subsoil Assets, Present Discounted Value Method Using 3% Discount Rate

		Billio	ns of cur	rent dollars		Billi	ions of 1	1987 doll	ars
Year	Opening stock	Addi- tions	Deple- tion	Revalu- ation ad- justment	Closing stock (1+2-3+4)	Opening stock	Addi- tions	Deple- tion	Closing stock ¹ (6+7–8)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1958	155.6 161.1 161.9 169.3 176.0 181.6 185.1 187.7 188.5 193.1 193.1 193.1 193.1 222.0 228.5 231.2 263.4 476.9 554.5 652.4 767.7 774.8 911.139.6 1,038.4 942.4 841.4 734.4	6.1 7.9 9.2 7.5 10.0 9.8 8.7 1.5 5.6 6.1 1.2 7.9 11.4 42.8 9.4 42.4 7.1 2.8 9.4 42.4 7.1 2.8 9.4 42.4 7.1 2.5 5.5 6.6 10.2 7.9 11.4 42.4 7.1 2.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	5.67 5.77 5.99 6.0 6.57 6.76 7.4 7.4 7.9 8.7 9.3 9.3 9.3 23.3 30.9 37.3 42.6 80.6 62.7 51.3 37.5 37.5 37.3	5.0 -1.1 4.5 3.5 3.5 4.6 2.2 -1.2 2.8 -1.2 2.1 14.2 6.9 6.4 36.1 68.8 76.6 48.0 30.5 92.4 109.8 157.3 215.5 19.6 -105.0 -87.2 -104.2 26.5 37.2	161.1 161.9 163.9 169.3 176.0 181.6 185.1 187.7 188.5 193.1 191.8 222.0 228.5 231.2 263.4 329.8 476.9 530.5 554.5 652.4 767.7 7774.8 911.8 1,117.9 1,139.6 1,038.4 942.4 764.0 812.4	921.6 929.4 946.0 935.1 946.4 962.6 986.0 1,003.9 1,014.8 1,024.0 1,017.4 991.3 1,089.1 1,074.7 1,046.0 978.7 959.8 945.9 945.9 945.9 945.9 945.9 946.0 922.8 911.0 906.5 914.1 911.3 916.0 900.6	42.0 27.5 48.9 27.5 46.8 58.7 60.6 60.1 37.4 15.5 37.7 28.6 60.1 37.7 37.7 47.8 37.7 37.7 37.7 47.8 37.7 37.7 37.7 47.7 37.7 37.7 47.7 37.7 47.7 37.7 47.7 37.7 47.7 37.7 47.7 37.7 47.7 37.7 47.7 37.7 47.7 4	34.6 36.5 37.5 38.2 39.3 41.0 42.4 43.7 52.7 55.3 54.8 55.2 52.9 50.3 50.3 50.3 50.3 51.7 52.6 51.7 52.6 51.3 51.3 51.3	929.4 946.0 935.1 946.4 962.6 968.6 986.0 1,003.9 1,014.8 1,024.0 1,017.4 991.3 1,089.1 1,074.7 1,046.7 1,046.7 1,046.7 1,046.7 1,046.9 978.7 953.1 959.8 945.9 949.6 922.8 911.0 906.5 914.1 911.3 916.0 906.6 904.1 913.6
1991	812.4	36.3	43.1	1	805.4	913.6	42.3	51.4	903.9

Table A.2.—Value of the Resource, Additions, and Depletion of All Subsoil Assets, Current Rent Method II (Value of Capital)

		Billion	ns of cu	rrent dollars		Billi	ions of 1	1987 doll	ars
Year	Opening stock	Addi- tions	Deple- tion	Revalu- ation ad- justment	Closing stock (1+2-3+4)	Opening stock	Addi- tions	Deple- tion	Closing stock (6+7–8)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1958	181.9					1,077.4	52.7	43.6	1,086.5
959	188.3					1,086.5	65.3	45.9	1,105.9
1960	189.3					1,105.9	34.5	47.3	1,093.1
961	191.6					1,093.1	61.4	48.1	1,106.4
962	198.0					1,106.4	68.4	49.5	1,125.2
963	205.7	9.5				1,125.2	58.8	51.7	1,132.3
964	212.3	12.6			216.4	1,132.3	73.6	53.4	1,152.6
965	216.4	12.3				1,152.6	76.0	55.0	1,173.6
966	219.4	11.4				1,173.6	71.4	58.6	1,186.4
967	220.4					1,186.4	72.2	61.4	1,197.
968	225.8	9.4				1,197.1	56.1	63.9	1,189.3
1969	225.8	5.6				1,189.3	35.9	66.4	1,158.8
1970	224.2	31.0				1,158.8	184.1	69.7	1,273.2
971	259.5	10.9			267.1	1,273.2	52.1	69.0	1,256.4
1972	267.1	6.9				1,256.4	36.8	69.6	1,223.6
1973	270.3					1,223.6	35.3	68.9	1,190.0
1974	307.1	12.1				1,190.0	44.4	66.1	1,168.3
1975	383.7	9.4			475.0	1,168.3	30.8	62.9	1,136.
976	475.0					1,136.1	30.1	62.3	1,103.
977	552.3	34.4				1,103.9	67.8	62.6	1,109.
978	613.1	23.1				1,109.1	45.8	64.4	1,090.
979	639.3	43.2				1,090.5	67.3	65.5	1,092.
980	750.4	50.7				1,092.3	71.4	65.7	1,097.
981	881.0					1,097.9	46.7	65.4	1,079.
1982	887.1	50.3				1,079.3	37.7	62.8	1,054.
1983	1,041.6	84.6 102.5				1,054.2	44.7	60.6	1,038.
1984 1985	1,274.2 1,296.0				1,296.0	1,038.3	56.8 69.5	64.2 63.2	1,030.
						1,030.8			1,037.
1986	1,178.1	64.1	75.3 61.5		1,066.9	1,037.1	56.0	61.6	1,031.
1987	1,066.9	64.6 33.4				1,031.6	64.6 42.5	61.5 62.2	1,034. 1,014.
1988 1989	950.3 827.6					1,034.6 1.014.9	42.5 65.0		1,014.
	863.2					1,014.9		61.3	1,018.
1990	003.2	60.5			915.5	1,010.0	72.1		1,029.

Table A.4.—Value of the Resource, Additions, and Depletion of All Subsoil Assets, Present Discounted Value Method Using 10% Discount Rate

1,029.6

50.3

1,018.7

		Billior	ns of cur	rent dollars		Bill	ions of 1	1987 doll	ars
Year	Opening stock	Addi- tions	Deple- tion	Revalu- ation ad- justment	Closing stock (1+2-3+4)	Opening stock	Addi- tions	Deple- tion	Closing stock ¹ (6+7–8)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1958	114.7 118.8 119.3 120.8 124.8 129.7 133.8 136.4 138.3 139.0 142.3 141.4 163.6 168.4 170.4 195.0 245.2 305.5 357.5 399.4 419.1 495.1 592.7 700.3 862.0 882.1 806.8 735.1 658.7 577.1 602.0	3.9 4.9 2.2 5.10 6.5 6.5 6.5 5.9 5.9 4.0 7.2 5.6 8.1 20.5 7.2 5.7 30.3 24.8 30.0 50.4 61.0 93.2 93.2 93.2 93.2 93.2 93.2 93.2 93.2	3.6 3.7 3.8 3.9 4.2 4.3 4.4 4.6 4.8 4.9 5.1 5.6 6.2 7.8 10.1 13.4 17.2 20.6 25.4 43.2 25.6 43.2 25.6 44.3 36.6 55.8 36.6 56.6 26.4 29.6 30.6 30.6 30.6 30.6 30.6 30.6 30.6 30	3.8 3.6 3.1 2.8 2.8 3.5 5.5 06 2.3 11.3 12.0 5.0 4.4 26.8 57.3 36.8 270.9 84.6 120.8 120.8 120.8 120.8 120.8 120.8 120.8 120.9 12	118.8 119.3 120.8 124.8 129.7 133.8 136.4 138.3 139.0 142.3 142.4 141.4 163.6 168.4 195.0 245.2 305.5 357.5 399.4 419.1 495.1 584.9 700.3 862.0 882.1 658.7 757.1 602.0 638.4 632.9	674.6 680.4 692.7 684.7 693.3 705.4 710.0 722.8 736.0 744.0 750.6 745.4 726.1 788.1 767.7 751.8 743.5 728.4 713.4 719.7 728.8 713.4 719.7 728.8 713.4 719.7 728.8 713.4 719.7 728.8 713.4 719.7 728.8 719.3 702.8 701.9	27.0 33.5 17.7 31.5 30.2 37.8 39.0 26.6 37.0 28.8 49.4 42.1 21.0 26.5 18.9 40.4 27.3 40.1 42.5 26.6 33.8 40.1 42.5 26.6 33.8 40.1 42.5 26.6 33.8 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.1	22.3 23.6 24.3 24.7 25.4 26.5 27.4 28.2 30.1 31.5 32.8 34.0 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7	680,4 692,1 684,1 693,7 710,0 722,8 736,6 736,6 738,9 726,7 751,8 743,9 712,7 720,9 713,7 721,7

^{1.} Because of the simplifying assumptions used in the calculation of stocks for this method, closing stocks are not necessarily equal to opening stocks plus additions less depletion. For most years, the differences are very small.

^{1.} Because of the simplifying assumptions used in the calculation of stocks for this method, closing stocks are not necessarily equal to opening stocks plus additions less depletion. For most years, the differences are very small.

Table B.—Alternative Rates of Return, Averages for 1958–91

[Percent]

		IEESA based					
	NIPA based	Cur- rent rent I	Cur- rent rent II	PDV 3% rate	PDV 10% rate		
Mining industries	23.1	5.2	3.5	4.0	5.0		
Total private capital	16.1	14.9	14.1	14.4	14.8		

NOTE.—In general, rates of return are some measure of income divided by some measure of capital stock. For the NIPA-based estimates, income is defined as property-type income (profits, rents, net interest plus indirect business taxes), and capital stock is defined as structures, equipment, and inventories. In the alternative IEESA methods, income is also defined as property-type income, but depletion is subtracted from profits, and the value of additions is added; IEESA capital stock is defined as structures, equipment, and inventories plus the value of mineral resources.

PDV Present discounted value

The replacement-cost estimates produced the lowest values among all the estimates for gas. The transactions-price estimates produced the lowest values for oil.

For some of the subsoil asset estimates, especially those employing the current rent method based on a normal return to invested capital, the resource stock values and stock changes are quite low. In certain industries, especially the metals industries, the estimates were negative (indicated with an asterisk in the tables). These negative values indicate that the gross rents in these industries are so low that any procedure that assumes a normal return to capital in that industry must attribute a negative residual rent to the resource if total factor returns are to add up to market output. One can imagine an alternative procedure that assumes a normal return plus a depletion allowance and derives a negative residual for the invested capital associated with the resource.

Appendix: Data Sources and Methods

Current-Dollar Estimates

Petroleum and natural gas

Prices and quantities.—The basic commodity prices used are the average wellhead prices for oil and gas from the American Petroleum Institute (API). The wellhead price for gas includes rents attributable to natural gas liquids (NGL) that, depending on market conditions, may be separated downstream. Oil production quantities are from API and the Department of Energy (DOE) and include both crude production and lease condensate production, both in millions of barrels. Natural gas production is marketed production from API and DOE. Marketed production has not yet undergone the extraction of NGL. Total rev-

enue for oil and gas production is calculated as price times quantity produced.

Reserve estimates are from API and DOE for crude oil and dry gas. The reserve volumes for oil and gas were augmented for reserves of NGL, which are reported separately. Additions were set equal to additions from DOE and API plus any residual change in stocks not accounted for by reported flows. The residual arises out of discontinuities in the estimates caused by the different reserve estimation methods used over the last 40 years.

The basic commodity price data used are yearly average prices. The large fluctuation in commodity prices, however, makes them unstable and thus unsuitable for estimating the average or expected returns that investors presumably have in mind in determining the appropriate price for long-lived assets such as mineral reserves. In order to smooth the estimates, a 3-year lagged average of the yearly average prices is used as the midyear market price.

Costs.—Data on current production expenditures and ad valorem and windfall profits taxes are from API'S Survey of Oil and Gas Expenditures (SOGE) and, for 1972–81, the Census Bureau'S Annual Survey of Oil and Gas (ASOG). "Finding costs" are obtained as a 3-year moving average of development expenditures per unit of reserve added; the source data are from the SOGE and the ASOG. For years not covered by the SOGE, estimates of costs were interpolated using an indicator series.

Capital stock.—The capital stock, depreciation, and investment estimates are from BEA. BEA defines investment and capital for mining industries differently from standard industry practice. BEA investment includes capital equipment, structures, and all exploration and development expenditures, even those expenditures that are treated as current expenses by operators. NIPA capital and investment estimates are available as an aggregate for oil and gas extraction (SIC 13). The portion of capital for four-digit sic industry 1321, natural gas liquids, was removed from this series, as this capital is not used in the extraction of oil or gas. Rather, natural gas liquids, a small piece of SIC 13, is a downstream process. The capital stock of the other four-digit components of SIC 13 is considered a part of the capital required for the extraction of oil and gas; for example, oil and gas field exploration services, sic industry 1382, is used as inputs for oil and gas extraction.

The NIPA investment series for oil and gas extraction from 1959–91 was disaggregated into oil extraction and gas extraction using the ratio of expenditures for successful oil wells drilled to expenditures for successful gas wells drilled. For 1947–58, expenditure ratios for oil wells and gas wells were estimated using the number of successful oil wells and gas wells drilled. These two investment series were then used to generate current- and constant-dollar capital stock and depreciation estimates for oil extraction and for gas extraction.

Other minerals

Inconsistencies in data and a paucity of data for nonbenchmark years present substantial difficulties in making estimates for other minerals. The data that do exist are often classified incongruently, or the definitions for series change over time. For example, Census Bureau data—which are the only comprehensive data available on production, costs, and revenues—are on an SIC basis; BEA data on capital stocks are on an SIC basis but at a more aggregate level than the Census data; and Bureau of Mines and DOE data on reserves, production quantities, and prices are on a commodity basis.

Prices and quantities.—For most minerals, the basic commodity prices used are 3-year lagged averages of the value of production divided by the quantity produced for metals and other minerals from the Bureau of Mines or DOE. For other minerals, a combination of available data on prices, quantities produced, or value of production is used to derive missing data on prices or value of production. Total revenue from current production is equal to the average price times the quantity produced.

Changing definitions for mineral reserve quantities present significant problems for the construction of consistent time series for mineral reserves. Prior to 1978, reserves were defined by the Bureau of Mines as economic reserves, both demonstrated and inferred; between 1979 and 1986, reserve base was the preferred definition, and this comprised demonstrated (but not inferred) economic reserves, marginal economic reserves, and part of subeconomic reserves; since 1987, only demonstrated economic reserves are included in the definition of reserves. Only the last definition is roughly consistent with proved reserves in oil and gas. The published estimates showed such large year-to-year changes—even within subperiods in which reserve definitions were unchanged—that BEA has attempted to develop a consistent, or at least smoothed, time series for these minerals. The BEA series use a weighted average that is based on a constant output-to-reserve ratio and on a judgmentally scaled moving average of published reserves. (Uranium reserves are based on a different method that splices DOE's forward-cost categories to construct a consistent time series.)

Costs.—Consistent data on production expenditures—current variable costs of extraction, including purchased services—were derived from the Census Bureau's minerals industries data and from BEA's benchmark input-output data.

Capital stock.—For census years between 1958 and 1991, data on investment in plant, equipment, and exploration and development were derived from the Census Bureau's Census of Mineral Industries. These investment data were then used to construct industry-specific capital stock estimates for mineral industries at a level of detail greater than that at which BEA normally produces estimates.

Constant-Dollar Estimates

Constant-dollar estimates for petroleum, natural gas, and other minerals use 1987 as the base year. The base-year estimate for resource rent was used to calculate constant-dollar series for the following methods: Current rent, present discounted value, and, for a shorter period, transactions price. For each method, the 1987 per-unit resource rent for the value of depletion was multiplied by the physical volume of depletion and additions to derive the value of depletion and additions, respectively. The constant-dollar value of the resource stock is the product of the 1987 per-unit resource rent and the end-of-year volume of reserves.

REFERENCES

- Adelman, M. A., Harindar De Silva, and Michael F. Koehn. "User Cost in Oil Production." Resources and Energy 13 (1991): 217–240.
- 2. Adelman, M. A., John C. Houghton, Gordon M. Kaufman, and Martin B. Zimmerman. *Energy Resources in an Uncertain Future*. Cambridge, MA: Ballinger, 1983.
- 3. Ahmad, Yusuf J., Salah El Serafy, and Ernst Lutz, editors. *Environmental Accounting for*

- Sustainable Development. Washington, DC: The World Bank, 1989.
- 4. Boskin, Michael J., Marc S. Robinson, Terrance O'Reilly, and Praveen Kumar. "New Estimates of the Value of Federal Mineral Rights and Land." *American Economic Review* 75, no. 5 (December 1985): 923–936.
- 5. Gordon, Patrice L., and Raymond Prince. "Greening the National Accounts." Congressional Budget Office, March 1994.
- 6. El Serafy, Salah. "The Proper Calculation of Income From Depletable Natural Resources." In *Environmental Accounting for Sustainable Development*, edited by Yusuf J. Ahmad, Salah El Serafy, and Ernst Lutz, 10–18. Washington, DC: The World Bank, 1989.
- 7. El Serafy, Salah, and Ernst Lutz. "Environmental and Resource Accounting: An Overview." In *Environmental Accounting for Sustainable Development*, edited by Yusuf J. Ahmad, Salah El Serafy, and Ernst Lutz, 1–7. Washington, DC: The World Bank, 1989.
- 8. Ferran, Bernardo. "Corporate and Social Accounting for Petroleum." *Review of Income and Wealth* (March 1981): 104.
- 9. Grambsch, Anne E., and R. Gregory Michaels, with Henry M. Peskin. "Taking Stock of Nature: Environmental Accounting for Chesapeake Bay." In *Toward Improved Accounting for the Environment*, edited by Ernst Lutz, 184–197. Washington, DC: The World Bank, 1993.
- 10. Hartwick, John R. "Natural Resources, National Accounting and Economic Depreciation." *Journal of Public Economics* 43, no. 3 (December, 1990): 291–304.
- 11. Hartwick, John, and Anja Hageman. "Economic Depreciation of Mineral Stocks and the Contribution of El Serafy." In *Toward Improved Accounting for the Environment*, edited by Ernst Lutz, 211–235. Washington, DC: The World Bank, 1993.
- 12. Hotelling, Harold. "The Economics of Exhaustible Resources." *Journal of Political Economy* 39, no. 2 (1931): 137–175.
- 13. Jaszi, George. "Review: An Economic Accountant's Ledger," in "The Economic Accounts of the United States: Retrospect and Prospect." Survey of Current Business 51, no. 7, Part 11, 50th anniversary issue (July 1971): 221–225.
- 14. Jaszi, George. "The Conceptual Basis of the Accounts: A Re-examination." In *A Critique*

- of the United States Income and Product Accounts. Studies in Income and Wealth, vol. 22, 93–94. New York: University Press, 1958.
- 15. Landefeld, J. Steven, and James R. Hines. "Valuing Non-Renewable Natural Resources in the Mining Industries." *Review of Income and Wealth* 31, no. 1 (March 1985): 1–20.
- 16. Lutz, Ernst, editor. *Toward Improved Accounting for the Environment*. Washington, DC: The World Bank, 1993.
- 17. Lutz, Ernst, and Henry M. Peskin. "A Survey of Resource and Accounting Approaches in Industrialized Countries." In *Toward Improved Accounting for the Environment*, edited by Ernst Lutz, 144–176. Washington, DC: The World Bank, 1993.
- Nordhaus, William D. "The Allocation of Energy Resources." Brookings Papers on Economic Activity 3 (1973): 529-570.
- 19. Nordhaus, William D., and James Tobin. "Is Growth Obsolete?" In *The Measurement of Economic and Social Performance*. Studies in Income and Wealth, vol. 38, edited by Milton Moss, 509–532. New York: Columbia University Press, 1973.
- 20. Organisation for Economic Co-operation and Development, Department of Economics and Statistics. "Extending National Accounting With Regard to Natural and Environmental Resources and to Expenditure on Pollution Abatement: An Overview of the Recent International Discussion." Paper distributed at the meeting of National Accounts Experts, Paris, June 14, 1991.
- Paddock, James L., Daniel R. Siegel, and James L. Smith. "Option Valuation of Claims on Real Assets: The Case of Offshore Petroleum Leases." *Quarterly Journal of Economics* 98, no. 3 (August 1991): 479–508.
- 22. Peskin, Henry M. "A Proposed Environmental Accounts Framework." In *Environmental Accounting for Sustainable Development*, edited by Yusuf J. Ahmad, Salah El Serafy, and Ernst Lutz. Washington, DC: The World Bank, 1989.
- 23. Peskin, Henry M., with Ernst Lutz. "A Survey of Resource and Environmental Accounting Approaches in Industrialized Countries." In *Toward Improved Accounting for the Environment*, edited by Ernst Lutz, 144–176. Washington, DC: The World Bank, 1993.
- 24. Rasmussen, Jon A. "Finding Costs and the Make-or-Buy Decision for Oil and Gas Producers in 1982–1986." *Petroleum Accounting*

- and Financial Management Journal 11, no. 2 (Summer 1992): 60–92.
- 25. Repetto, Robert, William Magrath, Michael Wells, Christine Beer, and Fabrizo Rossini. Wasting Assets: National Resources in the National Income Accounts. Washington, DC: World Resources Institute, June 1989.
- 26. Soladay, John J. "Measurement of Income and Product in the Oil and Gas Mining Industries." In *The Measurement of Capital*. Studies in Income and Wealth, vol. 45, 347–376. Chicago: The University of Chicago Press, 1980.
- 27. Solow, Robert. "An Almost Practical Step Toward Sustainability." Print of an invited lecture on the occasion of the 40th anniversary of Resources for the Future. October 8, 1992. Washington, DC: Resources for the Future.
- 28. Stauffer, Thomas S. "Accounting for 'Wasting Assets': Measurement of Income and Dependency in Oil-Renter States." *Journal of Energy and Development* 11, no. 1 (1986): 69–93.
- 29. United Nations. *Agenda 21: Programme of Action for Sustainable Development.* Department of Public Information. New York: United Nations, 1992, chapters 8 and 40.

- 30. United Nations. *Integrated Environmental* and Economic Accounting (interim version). Studies in Methods, Handbook of National Accounting, series F, no. 61. New York: United Nations, 1993.
- 31. System of National Accounts 1993. Brussels: Commission of the European Communities, International Monetary Fund, Organisation for Economic Co-operation and Development, United Nations, and World Bank, 1993.
- 32. United States Department of Commerce. Bureau of Economic Analysis. Fixed Reproducible Tangible Wealth in the United States, 1925–89. Washington, DC: U.S. Government Printing Office, January 1993.
- 33. United States Department of Commerce. Bureau of Economic Analysis. "New International Guidelines in Economic Accounting." Survey of Current Business 73, no. 2 (February 1993): 43–44.
- 34. World Commission on Environment and Development. *Our Common Future*. Oxford: Oxford University Press, 1987.
- 35. Wright, Gavin. "The Origins of American Industrial Success, 1879–1940." *American Economic Review* 80, no. 4 (September 1990): 651–668.

Tables 1.1 through 5.4 follow.

Table 1.1.—Value of the Resource, Additions, and Depletion of Oil, Current Rent Method I (Rate of Return)

Table 1.2.—Value of the Resource, Additions, and Depletion of Oil, Current Rent Method II (Value of Capital)

Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)	Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)		(1)	(2)	(3)	(4)	(5)
1947		2.4	1.8		26.1	1947		3.0	2.2		31.3
1948	26.1	5.7	3.0	6.1	34.9	1948	31.3	6.7	3.5	6.4	40.9
1949	34.9	4.5	2.5	5	37.4	1949	40.9	5.5	3.1	2.3	45.6
1950	37.4	4.1	3.0	.3	38.8	1950	45.6	4.9	3.6	2	46.8
1951	38.8	6.4	3.2	-2.5	39.6	1951	46.8	7.8	3.9	-2.3	48.5
1952	39.6	3.5	2.8	-3.9	36.3	1952	48.5	4.5	3.6	-3.2	46.1
1953	36.3	4.3	3.0	1.2	38.9	1953	46.1	5.5	3.8	1.8	49.7
1954	38.9	4.0	3.2	3.6	43.2	1954	49.7	5.2	4.1	4.8	55.5
1955	43.2	4.6	3.9	4.2	48.2	1955	55.5	5.8	4.8	3.8	60.3
1956	48.2	4.6	3.9	-1.3	47.6	1956	60.3	6.0	5.0	2	61.0
1957	47.6	3.5	3.8	-1.0	46.3	1957	61.0	4.7	5.0	.7	61.4
1958	46.3	4.1	3.6	.4	47.2	1958	61.4	5.7	5.0	3.3	65.4
1959	47.2	5.2	3.5	-5.6	43.3	1959	65.4	7.4	5.0	-5.3	62.6
1960	43.3	3.3	3.3	-1.1	42.1	1960	62.6	4.8	4.9	3	62.2
1961	42.1	3.5	3.3	6	41.8	1961	62.2	5.2	4.9	-1.0	61.5
1962	41.8	2.9	3.3	5	40.8	1962	61.5	4.3	4.9	6	60.4
1963	40.8	3.1	3.6	1.6	42.0	1963	60.4	4.5	5.1	.5	60.2
1964	42.0	3.6	3.6	7	41.3	1964	60.2	5.2	5.1	7	59.5
1965	41.3	4.0	3.5	-1.4	40.4	1965	59.5	5.9	5.1	-1.3	58.9
1966	40.4	3.9	3.7	6	40.0	1966	58.9	5.6	5.3	-1.5	57.7
1967	40.0	4.1	4.1	2.5	42.5	1967	57.7	5.7	5.7	1.1	58.8
1968	42.5	3.3	4.2	<u>1</u>	41.6	1968	58.8	4.6	5.8	8	56.8
1969	41.6	2.8	4.3	.4	40.5	1969	56.8	3.8	5.9	0	54.8
1970	40.5	16.7	4.6	3.1	55.7	1970	54.8	23.7	6.5	8.7	80.7
1971	55.7	3.3	4.7	1.0	55.3	1971	80.7	4.9	6.9	2.0	80.6
1972	55.3	2.1	4.4	-1.8	51.2	1972	80.6	3.3	7.0	1.5	78.4
1973	51.2	3.6	5.4	28.5	77.9	1973	78.4	4.7	7.0	18.7	94.9
1974	77.9	3.8	5.8	10.9	86.8	1974	94.9	6.0	9.0	30.1	121.9
1975	86.8	3.5	7.3	21.7	104.7	1975	121.9	5.5	11.5	33.0	149.0
1976	104.7	4.2	10.0	19.8	118.7	1976	149.0	6.1	14.4	24.1	164.8
1977	118.7	13.4	10.7	2.7	124.1	1977	164.8	19.6	15.6	9.3	178.1
1978	124.1	9.8	11.3	15.4	137.9	1978	178.1	14.7	17.1	19.2	194.9
1979	137.9	7.1	12.9	60.4	192.5	1979	194.9	10.8	19.7	71.2	257.2
1980	192.5	19.0	18.9	102.8	295.4	1980	257.2	26.2	26.1	105.2	362.5
1981	295.4	20.6	22.8	5.2	298.3	1981	362.5	30.2	33.5	37.0	396.2
1982	298.3	19.8	38.6	102.9	382.4	1982	396.2	26.3	51.4	125.7	496.9
1983	382.4	54.9	54.7	99.0	481.6	1983	496.9	65.4	65.1	82.1	579.3
1984	481.6	62.1	51.6	-38.0	454.1	1984	579.3	74.2	61.7	-44.1	547.7
1985	454.1	43.9	43.5	-122.4	332.1	1985	547.7	55.4	54.8	-112.6	435.6
1986	332.1	16.1	30.2	-91.9	226.1	1986	435.6	21.9	41.3	-90.4	325.9
1987	226.1	23.1	20.7	-83.9	144.7	1987	325.9	34.2	30.6	-88.3	241.2
1988	144.7	6.1	7.1	-63.4	80.2	1988	241.2	15.9	18.5	-51.1	187.5
1989	80.2	6.0	7.0	12.8	91.9	1989	187.5	16.4	19.3	30.8	215.4
1990	91.9	9.2	10.3	32.5	123.3	1990	215.4	20.2	22.6	37.6	250.6
1991	123.3	5.3	13.0	11.1	126.8	1991	250.6	10.3	25.0	5.8	241.7
	,,,,	,									

Table 1.3.—Value of the Resource, Additions, and Depletion of Oil, Present Discounted Value Method Using 3% Discount Rate

Table 1.4.—Value of the Resource, Additions, and Depletion of Oil, Present Discounted Value Method Using 10% Discount Rate [Billions of current dollars]

Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)	Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)		(1)	(2)	(3)	(4)	(5)
1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1970 1971 1972 1973 1974 1975 1976 1976 1977 1977	(1) 26.8 35.0 39.0 40.0 41.4 39.5 42.5 51.6 52.2 52.5 53.2 52.6 51.6 51.5 50.4 49.3 50.3 48.6 46.9 69.0 68.9 67.1 81.3 142.3 142.3 142.3 142.3 142.3 142.3 154.1 169.0 223.6 315.9	(2) 5.3 4.4 3.9 6.2 3.6 4.4 4.1 4.6 3.7 4.5 9.1 18.9 3.9 3.1 18.9 3.6 4.0 5.1 12.1 22.1	1.8 2.8 2.5 2.8 3.1 3.0 3.3 3.8 4.0 4.0 4.0 4.0 4.0 4.1 4.2 4.5 4.5 5.5 5.5 5.6 7.2 9.2 11.6 12.6 12.6 12.6 12.6 12.6 12.6 12	(4) 5.7 2.11 -1.7 -2.7 4.2 3.31 .6 2.9 -4.435 .36 -1.1 -1.3 .98 1.5 1.1 15.9 25.6 28.1 20.4 7.9 16.4 61.6 91.6 32.2	(5) 26.8 35.0 39.0 40.0 41.4 39.5 42.5 47.5 51.6 52.2 52.5 56.0 53.5 53.2 52.6 51.6 51.5 50.9 50.4 49.3 50.3 48.6 46.9 69.0 68.9 67.1 81.3 104.8 128.3 142.3 154.1 169.0 223.6 315.9 346.0	1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1956 1957 1958 1960 1961 1961 1961 1962 1963 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1976 1977 1978 1979 1980	(1)	(2) 3.4 2.8 2.5 4.0 2.3 2.8 2.6 3.0 3.1 2.4 2.9 2.7 2.2 2.3 2.7 2.0 2.9 2.9 2.4 2.0 12.2 2.5 1.7 2.8 3.6 11.7 2.8 3.6 3.8 3.6 3.8 3.6 3.8 3.6 3.8 3.6 3.8 3.6 3.8 3.6 3.8 3.8 3.6 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	(3) 1.1 1.8 1.6 1.8 2.0 2.1 2.5 2.6 2.6 2.6 2.5 2.5 2.5 2.6 2.6 2.7 2.9 3.0 3.3 3.6 3.6 4.7 6.0 7.7 8.4 9.2 10.8 14.3 18.8	(4)	(5) 19.8 25.8 28.8 29.5 30.6 29.1 31.3 35.0 38.5 38.7 41.3 39.5 39.2 38.8 38.1 37.9 37.1 36.4 37.1 35.8 34.5 50.9 50.8 49.4 60.2 77.9 95.8 106.7 1160.7 1169.7 240.7 264.7
1982 1983 1984 1985 1986 1987 1988 1989	346.0 435.0 508.3 481.7 383.9 287.9 213.6 166.4 191.1 222.4	22.2 55.0 62.5 46.6 18.5 28.8 13.4 13.8 17.0 8.7	42.3 54.0 51.0 45.7 34.4 25.5 15.6 16.2 19.0 21.0	109.1 72.2 -38.1 -98.6 -80.2 -77.7 -45.0 27.2 33.2 4.4	435.0 508.3 481.7 383.9 287.9 213.6 166.4 191.1 222.4 214.5	1982 1983 1984 1985 1986 1987 1988 1989 1990	264.7 334.1 391.9 372.8 298.3 224.6 167.2 130.8 150.2 174.8	15.7 38.9 44.2 33.0 13.1 20.4 9.5 9.7 12.1 6.1	29.2 37.2 35.7 32.1 24.3 18.2 11.0 11.5 13.5	82.9 56.1 -27.6 -75.4 -62.6 -59.5 -34.9 21.2 26.0 2.5	334.1 391.9 372.8 298.3 224.6 167.2 130.8 150.2 174.8 168.5

Table 1.5.—Value of the Resource, Additions, and Depletion of Oil, Replacement Cost Method

Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)
1947		1.3	1.0		14.2
1948	14.2	3.1	1.6	3.5	19.2
1949	19.2	2.1	1.2	-2.4	17.7
1950	17.7	1.9	1.4	1	18.3
1951	18.3	2.7	1.4	-2.5	17.2
1952	17.2	1.6	1.3	8	16.7
1953 1954	16.7 16.4	1.8 1.8	1.2 1.4	8 3.1	16.4 19.8
1955	19.8	2.2	1.4	3.4	23.6
1956	23.6	2.2	1.9	J.4 4	23.6
1957	23.6	1.8	2.0	.9	24.4
1958	24.4	2.3	2.0	1.6	26.3
1959	26.3	3.2	2.1	5	26.7
1960	26.7	2.1	2.1	.2	26.9
1961	26.9	2.1	1.9	-2.7	24.3
1962	24.3	1.7	1.9	2	23.9
1963	23.9	1.8	2.1	.6	24.2
1964	24.2	2.3	2.3	2.4	26.6
1965	26.6	2.8	2.4	1.3	28.2
1966	28.2	2.8	2.7	1.0	29.4
1967	29.4	2.8	2.8	1	29.2
1968	29.2	2.1	2.7	-1.7	26.9
1969	26.9	2.2	3.4	6.5	32.3
1970	32.3	11.9	3.3	-1.5	39.4
1971	39.4	2.2	3.2	-1.3	37.2
1972	37.2	1.4 1.9	2.9	-1.7	34.0
1973 1974	34.0 42.3	2.0	2.8 3.1	9.2 7.7	42.3 49.0
1975	49.0	1.2	2.6	-4.3	43.4
1976	43.4	2.0	4.8	18.1	58.7
1977	58.7	7.9	6.3	14.1	74.4
1978	74.4	6.7	7.8	21.7	95.1
1979	95.1	4.8	8.7	37.2	128.4
1980	128.4	10.9	10.9	51.1	179.5
1981	179.5	11.9	13.2	4.5	182.6
1982	182.6	12.2	23.8	66.8	237.9
1983	237.9	33.5	33.4	53.8	291.8
1984	291.8	40.0	33.2	-5.4	293.2
1985	293.2	28.9	28.6	-73.9	219.5
1986	219.5	11.7	22.1	-42.4	166.8
1987	166.8	18.2	16.2	-49.0	119.8
1988	119.8	10.0	11.6	.5	118.7
1989	118.7	9.5	11.2	8.4	125.4
1990	125.4	8.7	9.7	-14.2	110.2
1991	110.2	3.3	8.0	-27.6	77.8

Table 1.6.—Value of the Resource, Additions, and Depletion of Oil, Transaction Price Method

[Billions of current dollars]

Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)
1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1986 1987	93.7 113.4 150.2 154.0 152.1 121.7 81.4 72.0 66.0 58.2 35.7 13.2	10.8 7.5 7.2 16.6 12.4 9.4 8.8 10.4 7.0 4.1 5.8 1.4 1.2	8.6 8.7 13.2 16.5 13.8 18.4 8.8 8.6 7.0 7.7 5.1 1.6 1.5	20.9 42.7 3.7 -5.5 -21.5 -40.3 -11.1 -6.1 -4.2 -23.1 -22.3 4.3 20.0	93.7 113.4 150.2 154.0 152.1 121.7 81.4 72.0 66.0 58.2 35.7 13.2 17.2
1991	37.1	2.2	5.3	11.1	45.1

Table 2.1.—Value of the Resource, Additions, and Depletion of Gas, Current Rent Method I (Rate of Return)

^{*} Indicates that the calculated value of the entry was negative, resulting from a negative resource rent. Because a negative resource rent is simply the mechanical result of treating resource rent as a residual after the deduction of other factor payments, the values have been replaced by asterisks. Where the resource rent was negative in the base year (1987) for individual mineral types, the average for the 3 year period, 1987-89, was substituted for the 1987 rent for the purpose of calculating constant-dollar estimates shown in tables B.1 through B.4. Where the 1987-89 average was negative, a base year price of zero was used for the constant-dollar estimates.

Table 2.2.—Value of the Resource, Additions, and Depletion of Gas, Current Rent Method II (Value of Capital)

Table 2.3.—Value of the Resource, Additions, and Depletion of Gas, Present Discounted Value Method Using 3% Discount Rate

				D 1 "	0					D 1 "	01 :
Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2–3+4)	Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)		(1)	(2)	(3)	(4)	(5)
1947	l	0.3	0.1		6.1	1947			0.1		5.2
1948	6.1	.5	.2	.7	7.2	1948	5.2	.4	.2	.6	6.1
1949	7.2	.4	.2	.1	7.5	1949	6.1	.3	.2	.1	6.4
1950	7.5	.5	.2	1	7.7	1950	6.4	.4	.2	1	6.6
1951 1952	7.7 8.1	.6	.3	1	8.1 8.6	1951 1952	6.6 6.9	.5	.2	1.1	6.9 7.3
1952	8.6	.5	.3 4	1.5	10.6	1952 1953	7.3	.4	.3	1.3	7.3 9.1
1954	10.6	.5	.,	2.2	12.8	1954	9.1	'4	4	1.9	11.0
1955	12.8	1.4	.6	2.0	15.7	1955	11.0	1.1	.5	1.8	13.4
1956	15.7	1.7	.7	.5	17.1	1956	13.4	1.3	.5	.4	14.6
1957	17.1	1.4	.7	.5	18.2	1957	14.6	1.1	.6	.4	15.6
1958	18.2	1.4	.8	1.8	20.7	1958	15.6	1.1	.7	1.6	17.7
1959	20.7	1.6	.9	.1	21.4	1959	17.7	1.3	.7	.1	18.3
1960	21.4	1.2	1.1	2.4	23.9	1960	18.3	.9	.8	2.1	20.4
1961 1962	23.9 26.0	1.6 1.9	1.2 1.3	1.8 1.5	26.0 28.1	1961 1962	20.4 22.3	1.3 1.6	1.0 1.1	1.5 1.3	22.3 24.1
1962	28.1	1.9	1.5	1.1	29.7	1962	24.1	1.5	1.2	1.0	25.4
1964	29.7	2.1	1.6	1	30.1	1964	25.4	1.7	1.3	1	25.7
1965	30.1	2.2	1.6	5	30.1	1965	25.7	1.7	1.3	4	25.8
1966	30.1	2.0	1.7	8	29.6	1966	25.8	1.6	1.3	7	25.3
1967	29.6	2.2	1.8	.7	30.7	1967	25.3	1.7	1.4	.6	26.2
1968	30.7	1.3	1.9	2	29.9	1968	26.2	1.1	1.5	2	25.6
1969	29.9	.8	2.0	4	28.2	1969	25.6	.6	1.6	4	24.2
1970	28.2	3.8	2.2	1.1	30.9	1970	24.2	3.0	1.7	1.0	26.5
1971	30.9	1.0	2.3	3	29.4 27.8	1971	26.5	.8 7	1.8	4	25.1 23.8
1972 1973	29.4 27.8	.9	2.2 2.2	3 3.0	27.8	1972 1973	25.1 23.8	./	1.8 1.8	3 2.5	25.0
1974	27.0	.0	2.4	7.5	35.2	1974	25.0	 8	1.0	6.4	30.3
1975	35.2	1.7	3.2	15.1	48.9	1975	30.3	1.4	2.6	12.9	42.1
1976	48.9	1.8	4.8	22.0	67.8	1976	42.1	1.5	3.9	18.8	58.5
1977	67.8	4.3	6.9	19.9	85.1	1977	58.5	3.6	5.5	17.0	73.7
1978	85.1	4.6	8.3	18.5	99.9	1978	73.7	3.9	6.8	15.9	86.6
1979	99.9	7.7	10.6	29.1	126.1	1979	86.6	6.5	8.7	25.2	109.6
1980	126.1	13.7	11.3	17.2	145.6	1980	109.6	11.7	9.4	15.0	126.9
1981	145.6	12.1	10.6	-8.4	138.8 217.3	1981	126.9 121.2	10.2	8.7	-7.2 68.9	121.2 190.2
1982 1983	138.8 217.3	16.7 22.3	16.9 24.2	78.8 111.5	326.9	1982 1983	190.2	14.1 18.7	13.9	97.9	286.9
1984	326.9	25.7	30.5	22.0	344.1	1984	286.9	21.6	25.2	19.3	302.6
1985	344.1	20.6	27.4	-42.0	295.3	1985	302.6	17.3	22.8	-36.8	260.3
1986	295.3	21.5	24.1	-33.3	259.3	1986	260.3	18.1	20.1	-29.2	229.1
1987	259.3	14.9	20.3	-51.8	202.2	1987	229.1	12.6	16.9	-45.8	179.0
1988	202.2	-1.8	14.7	-51.4	134.2	1988	179.0	-1.5	12.4	-46.0	119.1
1989	134.2	12.4	13.1	-4.1	129.5	1989	119.1	10.4	11.0	-3.7	114.9
1990	129.5	16.1	14.3	5.7	136.9	1990	114.9	13.5	12.0	5.1	121.5
1991	136.9	12.2	14.0	-2.3	132.8	1991	121.5	10.3	11.8	-2.2	117.8

Table 2.4.—Value of the Resource, Additions, and Depletion of Gas, Present Discounted Value Method Using 10% Discount Rate

Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)
1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1971 1972 1973 1974 1975 1976 1977 1977 1978 1978 1979 1979 1979 1979	3.9 4.5 4.7 4.8 5.1 5.4 6.7 10.8 11.5 13.0 13.5 15.1 16.4 17.7 19.0 19.0 19.0 19.0 19.3 18.8 17.8 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	32 22 33 35 5 37 99 7.7 8.8 6.8 8.1.0 1.1 1.1 1.1 7.7 4.4 1.9 5.5 5.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3 12	0.1 .1 .1 .1 .1 .1 .2 .2 .2 .3 .4 .4 .4 .5 .5 .6 .7 .8 .8 .8 .9 .9 .9 .1 .0 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1		3.9 4.5 4.7 4.8 5.1 6.7 8.1 1.5.9 10.8 11.5 13.0 13.5 15.1 16.4 17.7 19.0 18.7 19.0 18.7 19.3 19.5 17.5 18.5 17.5 18.5 17.5 18.5 17.5 18.5 17.5 18.5 17.5 18.5 17.5 18.5 17.5 18.5 17.5 18.5 17.5 18.5 18.5 19.9 19.9 19.9 19.9 19.9 19.9 19.9 19

Table 2.5.—Value of the Resource, Additions, and Depletion of Gas, Replacement Cost Method

[Billions of current dollars]

	[DIIIIO]	of current do	liaisj		
Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)
1947 1948 1949 1950 1951 1951 1952 1953 1954 1955 1956 1957 1958 1960 1961 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1978 1978 1979 1979 1980 1981 1982 1982 1983 1984 1985 1986 1988 1989 1989 1989	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)	(°) (°) (°) (°) (°) (°) (°) (°) (°) (°)	(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)

^{*} Indicates that the calculated value of the entry was negative, resulting from a negative resource rent. Because a negative resource rent is simply the mechanical result of treating resource rent as a residual after the deduction of other factor payments, the values have been replaced by asterisks. Where the resource rent was negative in the base year (1987) for individual mineral types, the average for the 3 year period, 1987-89, was substituted for the 1987 rent for the purpose of calculating constant-dollar estimates shown in tables B.1 through B.4. Where the 1987-89 average was negative, a base year price of zero was used for the constant-dollar estimates.

Table 2.6.—Value of the Resource, Additions, and Depletion of Gas, Transaction Price Method

Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)
1977 1978 1979	129.5 144.8	7.7 6.3 12.2	12.2 11.4 16.8	20.3 46.7	129.5 144.8 186.8
1980	186.8	24.8	20.5	7.0	198.1
1981	198.1	20.4	17.9	10.0	210.6
1982	210.6	21.4	21.7	–25.7	184.6
1983	184.6	10.1	11.0	-42.7	141.0
	141.0	10.1	12.0	-12.3	126.8
	126.8	7.4	9.9	-5.6	118.7
1986	118.7	9.6	10.7	-1.7	115.9
1987	115.9	6.5	8.8	-32.3	81.2
1988	81.2	6	4.9	-33.0	42.7
1989	42.7	4.2	4.4	1.5	44.0
1990	44.0	5.5	4.9	22.5	67.2
1991	67.2	8.1	9.3	16.3	82.3

Table 3.1.—Value of the Resource, Additions, and Depletion of Coal, Current Rent Method I (Rate of Return)

Table 3.3.—Value of the Resource, Additions, and Depletion of Coal, Present Discounted Value Method Using 3% Discount Rate

[Billions of current dollars]

Coal, Present Discounted Value Method Using 10% Discount Rate

	•		•				•		•		
Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)	Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)		(1)	(2)	(3)	(4)	(5)
1958	9.8	0.2	0.2	-0.1	9.7	1958	19.4	0.4	0.4	-0.1	19.2
1959	9.7	.2	.3	1.8	11.5	1959	19.2	.4	.4	.8	19.9
1960	11.5	.1	.3	1.2	12.5	1960	19.9	.2	.5	.6	20.2
1961	12.5	.4	.3	.4	13.0	1961	20.2	.6	.5	.4	20.7
1962	13.0	.5	.4	1.3	14.4	1962	20.7	.7	.5	.4	21.4
1963	14.4	.7	.4	1.7	16.3	1963	21.4	.8	.5	.6	22.2
1964	16.3	.7	.4	5	16.2	1964	22.2	.9	.6	9	21.7
1965	16.2	.7	.4	4	16.0	1965	21.7	.9	.6	8	21.3
1966	16.0	.6	.4	8	15.3	1966	21.3	.8	.6	7	20.7
1967	15.3	.5	.4	-1.3	14.1	1967	20.7	./	.5	7	20.2
1968	14.1	.5	.4	-1.3	13.0	1968	20.2	.8	.5	1	20.4
1969 1970	13.0	.4	.3	0	13.1	1969	20.4	.6	.6	.9	21.3
	13.1	.5	.4	2.5	15.6	1970	21.3	./	.6	2.3	23.7
1971	15.6	.5	.4	3	15.3 16.8	1971	23.7	ام.	./	2.7	26.6
1972 1973	15.3 16.8	.5 .6	.5 .5	1.4 8.0	24.9	1972 1973	26.6 29.2	.9 1.1	.8 .9	2.5 9.4	29.2 38.7
1974	24.9	1.5	1.0	16.5	41.9	1973 1974	38.7	2.2	1.4	17.5	57.1
1075	41.9	2.3	1.7	18.9	61.5	1975	57.1	3.0	2.1	21.0	79.1
1975 1976	61.5	3.0	2.4	13.0	75.1	1976	79.1	3.8	2.1	16.1	96.1
1977	75.1	4.2	2.5	.7	77.5	1977	96.1	5.7	3.3	9.2	107.7
1978	77.5	.6	2.1	-9.9	66.2	1978	107.7	1.0	3.3	4.8	110.3
1979	66.2	11.8	2.6	7.9	83.3	1979	110.3	18.8	4.1	9.4	134.4
1980	83.3	6.9	3.0	4.9	92.2	1980	134.4	11.2	4.7	10.2	151.2
1981	92.2	2.4	3.0	.4	91.9	1981	151.2	4.0	5.0	8.6	158.9
1982	91.9	5.9	3.3	5.9	100.4	1982	158.9	9.7	5.3	5.7	169.0
1983	100.4	.1	3.4	6.1	103.2	1983	169.0	.2	5.2	6.5	170.4
1984	103.2	6.1	4.8	22.4	127.0	1984	170.4	8.0	6.1	3.0	175.3
1985	127.0	7.7	4.9	4.6	134.4	1985	175.3	9.7	6.1	1.1	180.0
1986	134.4	7.5	5.1	4.0	140.7	1986	180.0	9.2	6.2	.3	183.4
1987	140.7	4.4	5.4	3.2	143.0	1987	183.4	5.3	6.4	-1.5	180.8
1988	143.0	5.8	5.3	-5.2	138.3	1988	180.8	6.9	6.3	-6.4	174.9
1989	138.3	4.5	5.3	-2.5	134.9	1989	174.9	5.4	6.3	-4.2	169.7
1990	134.9	7.0	5.6	1.2	137.5	1990	169.7	8.2	6.5	-2.0	169.3
1991	137.5	4.6	5.3	-2.4	134.4	1991	169.3	5.5	6.3	-1.2	167.3
Table 3.2.—Value	of the Res	source, Ac	dditions, a	nd Deplet	ion of	Table 3.4.—Value	of the Res	source, Ad	dditions, a	nd Deplet	ion of

Table 3.2.—Value of the Resource, Additions, and Depletion of Coal, Current Rent Method II (Value of Capital)

	[Billions	of current do	llars]	,		,,	[Billions	of current do	llars]		
Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)	Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)		(1)	(2)	(3)	(4)	(5)
1958 1959 1960 1961 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1980 1980 1982 1983 1982 1983 1984 1985 1986 1987	22.7 22.4 23.2 23.6 24.2 25.0 26.0 25.4 24.9 24.2 23.8 24.9 27.7 31.1 34.1 45.2 154.6 111.3 124.5 127.2 154.6 173.5 181.9 193.0 194.2 204.3 207.7 191.3	0.5 .3 .7 .9 1.0 .9 .9 .1.1 1.3 2.6 4.6 6.8 4.6 11.5 .2 .22.3 13.3 11.5 .2 .6.4 .9.7 .6.5	0.5 .6 .6 .6 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .8 .8 .8 .0 1.1 1.1 2.6 3.6 4.1 4.1 4.0 5.0 5.7 6.4 6.3 7.4 7.4 7.5 7.5 7.5 7.7 7.7 7.7 7.7 7.7 7.7 7.7	-0.2 -9.7 -5.5 -6.6 -1.1 -9.9 -9.1 11.1 2.7 3.2 2.9 10.9 20.3 24.4 18.6 10.4 11.3 9.7 -2.1 -2.1 -7.7 -2.4 -7.7	22.4 23.2 23.6 24.2 25.0 26.0 25.4 24.9 24.2 23.6 23.8 24.9 27.7 31.1 34.1 45.2 66.4 91.8 111.3 124.5 127.2 154.6 173.5 181.9 194.2 199.4 204.3 207.7 204.2	1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1978 1979 1980 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990	14.3 14.1 14.6 14.9 15.3 15.8 16.0 15.7 15.3 14.9 15.0 15.7 17.5 22.5 28.7 42.4 59.0 72.1 81.1 83.4 102.0 115.2 121.6 129.8 131.4 131.4 131.4 131.4 131.4 131.4 131.4 131.5 131.4 131.6 137.5	0.2 .2 .1 .4 .5 .5 .6 .6 .5 .5 .5 .5 .5 .6 .8 1.6 2 2.7 4.0 7 13.3 7.9 2.8 .1 5.7 6.5 .5 .5 .6 .7 4.0 7 9 1.0 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.3 .3 .3 .3 .4 .4 .4 .4 .4 .4 .4 .5 .6 .9 .9 .1 .1 .9 .2 .2 .2 .2 .2 .7 .3 .1 .3 .4 .4 .4 .4 .5 .6 .6 .9 .1 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9	-0.1 .5 .4 .3 .3 .4 .6 .5 .5 .7 .7 .1.7 .1.8 .7.0 .13.1 .15.8 .12.2 .7.2 .3.7 .8.4 .6.9 .5.1 .2.9 .1.0 .1.0 .1.0 .1.0 .1.0 .1.0 .1.0 .1	14.1 14.6 14.9 15.8 16.4 16.0 15.7 15.3 14.9 15.0 15.7 17.5 19.6 21.5 28.7 42.4 59.0 72.1 81.1 83.4 102.0 115.2 121.6 129.8 131.4 135.7 139.9 143.1 141.6 133.4 133.4 133.4

Table 4.1.—Value of the Resource, Additions, and Depletion of All Metals, Current Rent Method I (Rate of Return)

Stock Additions Depletion adjustment (1+2 ⁻³)		•		•		
1958 28.9 -0.1 0.2 1.0 1959 29.6 0 .2 .5 1960 29.8 -1.3 .4 10.1 1961 38.2 1.3 .4 -7 1962 38.4 2.4 .4 .5 1963 40.9 1.0 .4 3.3 1964 44.8 2.3 .5 4.1 1965 50.7 1.6 .5 .4 1966 52.1 1.5 .6 1.2 1967 54.3 1.2 .4 -5.8 1968 49.3 1.2 .5 1.5 1969 51.6 -1 .7 5.3 1970 56.1 1.3 .8 2.2	Year		Additions	Depletion		Closing stock (1+2-3+4)
1959 29.6 0 .2 .5 1960 29.8 -1.3 .4 10.1 1961 38.2 1.3 .4 7 1962 38.4 2.4 .4 .5 1963 40.9 1.0 .4 3.3 1964 44.8 2.3 .5 4.1 1965 50.7 1.6 .5 .4 1966 52.1 1.5 .6 1.2 1967 54.3 1.2 .4 -5.8 1968 49.3 1.2 .5 1.5 1969 51.6 -1 .7 5.3 1970 56.1 1.3 .8 2.2		(1)	(2)	(3)	(4)	(5)
1972 54.3 .6 .7 2.7 1973 56.9 -3 .7 10.4 1974 66.3 1.8 .7 4.7 1975 72.1 -1.4 .6 .2 1976 70.2 0 .8 10.7 1977 80.2 .5 .5 -37.6 1978 42.6 .3 .4 .7.2 1979 49.7 0 .1 -34.4 1980 15.2 (*)	1959 1960 1961 1962 1963 1964 1965 1966 1966 1969 1970 1971 1972 1974 1975 1978 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988	29.6 29.8 38.2 38.4 40.9 44.8 50.7 52.1 54.3 49.3 51.6 56.1 58.8 54.3 56.9 66.3 72.1 70.2 42.6 49.7 15.2 (*) (*) (*) (*) (*) 38.5 90.1	1.3 1.3 2.4 1.0 2.3 1.6 1.5 1.2 -1.1 1.3 1.5 6.3 1.8 -1.4 0 (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)	.2 .4 .4 .4 .4 .4 .5 .5 .6 .6 .4 .5 .7 .7 .7 .7 .7 .7 .7 .6 .8 .5 .4 .1 .1 (°) (°) (°) (°) (°) (°) (°) (°) 1.8	.5 10.17 .5 3.3 4.1 .4 1.2 -5.8 1.5 5.3 2.2 -5.3 2.7 10.4 4.7 .2 10.7 -37.6 7.2 -34.4 (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)	29.6 29.8 38.2 38.4 40.9 44.8 50.7 52.1 54.3 49.3 51.6 56.1 58.8 54.3 72.1 70.2 80.2 42.6 49.7 (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)
						154.5

^{*} Indicates that the calculated value of the entry was negative, resulting from a negative resource rent. Because a negative resource rent is simply the mechanical result of treating resource rent as a residual after the deduction of other factor payments, the values have been replaced by asterisks. Where the resource rent was negative in the base year (1987) for individual mineral types, the average for the 3 year period, 1987-89, was substituted for the 1987 rent for the purpose of calculating constant-dollar estimates shown in tables B.1 through B.4. Where the 1987-89 average was negative, a base year price of zero was used for the constant-dollar estimates.

Table 4.2.—Value of the Resource, Additions, and Depletion of All Metals, Current Rent Method II (Value of Capital)

[Billions of current dollars]

Year 1958	Opening stock (1)	Additions (2)	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)			
		١,,	(3)	(4)	(5)
1959 1960 1961 1962 1963 1964 1965 1966 1966 1967 1968 1970 1971 1972 1973 1974 1975 1976 1978 1979 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1988	60.8 61.0 62.7 61.9 65.2 70.4 74.0 78.7 82.2 85.0 88.4 92.1 94.8 100.3 107.2 111.5 118.0 135.3 153.6 171.3 167.0 148.0 113.8 76.1 115.2 147.2 147.2 147.2 147.2 244.8 251.9 270.1	-0.1 -2.1 2.1 4.1 6.3.5 2.5 2.4 2.3 2.4 3.8 -1.2 2.9 -1.9 7.7 2.9 1.4 1.6 -2.2 -4.8 -3.3 -2.3 -2.3 -2.3 -2.9 1.4 1.6 -2.2 -4.8 -2.2 -4.8 -2.2 -4.9 -4.9 -4.9 -4.9 -4.9 -4.9 -4.9 -4.9	0.5 .5 .7 .7 .7 .8 .8 .9 .8 .9 .1.1 .1.2 .1.3 .1.4 .1.5 .1.7 .1.6 .1.4 .1.6 .1.4 .1.1 .1.4 .1.4 .1.6 .1.4 .1.6 .1.4 .1.6 .1.6	0.8 2.3 1.9 1.9 1.8 2.7 2.0 1.4 1.8 2.3 3.6 4.2 7.8 16.5 21.6 18.8 13.1 1-15.4 22.2 33.9 42.2 22.3 31.4 23.2 22.5 7.8	61.0 62.7 61.9 65.2 70.4 74.0 78.7 82.2 85.0 88.4 92.1 194.8 100.3 107.2 111.5 118.0 135.3 153.6 171.3 185.7 176.1 148.0 148.0 148.0 149.2
1991	280.1	13.6	3.9	-1.8	288.0

Table 4.3.—Value of the Resource, Additions, and Depletion of All Metals, Present Discounted Value Method Using 3% Discount Rate

[Billions of current dollars]

	•		•		
Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)
1958	52.0 52.2 53.6 52.9 55.8 60.2 63.3 70.3 72.7 75.6 81.1 85.8 91.7 95.4 101.2 116.2 132.3 147.9 160.7 152.7 145.2 129.0 99.4 66.7 101.1 102.5 162.6 190.2 216.7 223.6 239.7 248.6	-0.1 -1.7 -1.7 1.7 3.3 2.8 2.0 1.9 1.9 3.1 1.1 -1.1 1.8 -1.6 2.4 4 1.1 1.4 -1.8 -2.0 -5.2 6.1 7.7 9.2 12.3 11.8	0.4 .4 .5 .5 .5 .6 .6 .7 .7 .6 .7 .9 1.0 .9 1.1 1.1 1.1 1.2 1.4 1.3 1.4 .6 .9 .9 .9 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	0.7 1.9 1.5 1.7 2.3 1.9 1.7 1.3 1.6 2.1 3.0 3.7 3.8 3.6 6.9 14.4 11.7 -7.8 -7.6 -13.2 -24.6 -29.6 37.0 34.5 22.1 1 20.6 5.5 5.5 -1.2	52.2 53.6 52.9 55.8 60.2 63.3 70.3 70.3 72.7 75.6 78.8 81.1 85.8 91.7 101.2 116.2 132.3 147.9 160.7 145.2 129.0 99.4 66.7 101.1 129.5 129.0 99.4 99.4 99.4 99.4 99.4 99.4 99.4 9
	2.15.0	.10	0.0	1.2	

Table 4.4.—Value of the Resource, Additions, and Depletion of All Metals, Present Discounted Value Method Using 10% Discount Rate

[Billions of current dollars]							
Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)		
	(1)	(2)	(3)	(4)	(5)		
1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1979 1980 1981 1982 1983 1984 1985 1986 1987 1986 1987 1988 1987 1980	38.3 38.4 39.5 39.0 41.1 44.4 46.6 51.8 53.6 70.3 67.6 70.3 74.9 86.4 98.7 110.9 121.0 115.4 110.2 78.0 100.2 126.4 148.3 169.7 175.7 175.7	-0.1 -1.1 1.1 2.1 8 1.8 1.3 1.2 1.2 1.2 2.0 7 0 1.3 -1.1 4,7 8.8 1.0 -1.3 -2.9 -2.0 -1.4 4.3 5.5 6.5 6.5 8.7	0.3 .3 .3 .3 .4 .4 .4 .5 .4 .6 .6 .6 .6 .7 .7 .8 .9 .9 .9 .9 .8 .9 .9 .9 .4 .4 .6 .8 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9	0.4 1.4 9 1.5 1.8 1.6 1.4 1.0 1.3 1.6 2.2 2.8 3.0 2.7 5.3 11.0 14.2 12.6 9.2 -5.5 -5.3 -9.8 -18.7 -22.6 28.6 22.6 26.6 22.6 17.4 17.2	38.4 39.5 39.0 41.1 44.4 46.6 49.6 51.8 53.6 55.7 58.1 59.8 63.2 67.6 70.3 74.9 88.7 110.9 121.0 115.4 110.2 78.0 100.2 126.4 148.3 169.7 175.7 188.4		
1991	195.3	8.1	2.3	3	200.8		

Table 5.1.—Value of the Resource, Additions, and Depletion of Other Minerals, Current Rent Method I (Rate of Return)

[Billions of current dollars]

	-		-		
Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)
1958 1959 1960 1961 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1980 1981 1982 1984 1985 1986 1987 1987	15.0 15.0 15.8 16.6 17.3 18.1 19.3 19.8 19.7 13.8 19.7 13.8 19.7 12.1 11.4 12.6 16.5 20.4 24.9 26.8 26.6 29.2 31.4 30.3 28.4 30.3 32.2 32.8 32.2 32.8 32.2	0.2 2.1.3.3.3.5.5.5.5.5.4.2 0.1.2.2.1.2.3.4.7.9.6.1.0.2.1.2.3.4.4.7.9.6.1.2.4.2.3.4.2.2.4.2.3.4.2.2.2.4.2.2.2.2	0.1 2 2 2 2 2 2 2 2 2 3 3 3 3 3 2 2 2 2 2 1 2 2 3 3 5 6 6 6 6 6 6 4 4 5 5 5 5 5 5 5 5	0 .8 .8 .8 .7 .6 .6 .6 .1 .1 .3 1. -1.8 .1.7 .8 .1.3 .3 .8 .4.0 .4.6 .1.7 .5 .2.5 .3.0 .9 5.2 .2.7 .4.1 1.4 2.1 1.4 2.1 1.4 2.5 3 7 7 7 7 7 7 7 7 7 7	15.0 15.8 16.6 17.3 18.1 18.8 19.1 19.3 19.8 19.7 13.8 12.1 11.4 12.6 16.5 20.4 24.9 26.8 26.6 29.2 31.4 31.4 31.4 31.4 31.4 31.4 31.4 31.4
1991	33.2	.3	.5	.9	33.9

Table 5.2.—Value of the Resource, Additions, and Depletion of Other Minerals, Current Rent Method II (Value of Capital)

[Billions of current dollars]

Year	Opening stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)
1958	18.8 18.8 19.3 20.0 21.0 21.8 22.5 22.8 23.3 23.2 21.4 19.9 18.9 24.9 31.8 37.1 39.7 41.3 56.4 56.5 57.5 58.5 57.5 56.7 56.9 57.0	0.2 2.2 2.3 3.4 4.6 6.5 4.2 0 2.2 3.1 3.4 5.9 9.8 1.8 1.5 9.9 9.8 7.5 0 2.7 4.4 4.5 9.9 1.8 1.7 5 0 2.7 4.4 4.4 4.4 5 1.7 5 0 0 1.7 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4	0.2 2.2 2.2 2.2 2.3 3.3 4.4 4.3 3.3 5.6 6.8 7.8 9.9 1.0 1.0 9.9 9.9 9.9 9.9 9.9	0 .55 .77 .9 .75 1.2 .44 1.0 1.5 1.4 1.0 5.5 1.2 .4.4 .7.1 .6.6 .3.5 .2.1 .9 .1.1 .7 .1.4 .5 .1.4 .4 .4 .4 .1.5 .1.6 .1.5 .1.7 .1.6 .1.6 .1.6 .1.6 .1.6 .1.6 .1.6	18.8 19.3 20.0 21.0 21.8 22.5 22.8 23.3 23.9 24.3 23.2 21.4 19.9 18.9 41.9 31.8 37.1 39.7 41.3 56.4 57.5 57.5 58.5 57.5 58.7 57.9 56.9 57.0 56.9

Table 5.3.—Value of the Resource, Additions, and Depletion of Other Minerals, Present Discounted Value Method Using 3% Discount Rate

[Billions of current dollars]

1959 16.1 2 2 4 16.5 1960 16.5 1 2 6 17.1 1961 17.1 2 2 7 18.0 1962 18.0 3 2 6 18.7 1963 18.7 3 2 4 19.2 1964 19.2 5 2 0 19.5 1965 19.5 5 2 2 19.9 1966 19.9 4 3 3 3 20.4 1967 20.4 3 3 4 20.8 2 3 -9 19.9 1968 20.8 2 3 -9 19.9						
1958	Year		Additions	Depletion		
1959 16.1 2 2 4 16.5 1960 16.5 1 2 6 17.1 1961 17.1 2 2 7 18.0 1962 18.0 3 2 6 18.7 1963 18.7 3 2 4 19.2 1964 19.2 5 2 0 19.5 1965 19.5 5 2 2 19.9 1966 19.9 4 3 3 3 20.4 1967 20.4 3 3 4 20.8 2 3 -9 19.9 1968 20.8 2 3 -9 19.9		(1)	(2)	(3)	(4)	(5)
1990 50.5 3 .8 .5 50.6	1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1978 1980 1980 1980 1981 1982 1983 1984 1984 1984 1986	16.1 16.1 16.5 17.1 18.7 19.2 19.5 19.9 20.4 20.8 20.8 17.0 16.2 15.7 17.1 21.4 32.0 34.3 35.8 39.7 44.7 49.3 51.0 51.3 51.9 51.9	0.2 2.1 2.3 3.3 5.5 5.5 5.4 4.3 2.0 1.1 2.2 2.1 1.3 3.3 4.4 7.7 1.0 6.6 1.7 1.8 1.7 1.6 4.4 0.1	0.1 22 22 22 22 22 23 33 33 22 22 22 34 45 66 66 67 88 98 87 77 78	0 .4 .6 .7 .6 .4 .4 .9 .1.3 .1.5 .1.5 .4.3 .6.2 .5 .8 .6.2 .9 .9 .9 .9 .1.1 .7 .2 .2 .3 .4 .1 .7 .2 .3 .4 .1 .7 .1 .7 .1 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7	16.1 16.5 17.1 18.0 18.7 19.2 19.5 19.9 20.4 20.8 19.9 18.3 17.0 16.2 15.7 17.1 21.4 27.4 32.0 34.3 35.8 39.7 44.7 49.3 51.0 51.3 50.6 51.5 51.9 51.3
	1990	50.5	.3	.8	.5	50.6

Table 5.4.—Value of the Resource, Additions, and Depletion of Other Minerals, Present Discounted Value Method Using 10% Discount Rate

[Billions of current dollars]

Year	Opening				
	stock	Additions	Depletion	Revaluation adjustment	Closing stock (1+2-3+4)
	(1)	(2)	(3)	(4)	(5)
1958	11.9 11.9 12.2 12.6 13.2 13.8 14.2 14.4 14.7 15.1 15.3 14.6 13.5 12.5 11.9 11.6 12.6 15.9 20.4 24.0 25.8 27.1 30.1 34.1 39.6 39.7	0.1 1.1 2.2 2.3 3.3 3.3 2.1 0.1 1.1 1.2 2.3 3.5 7.5 1.2 1.3 1.5 1.6 1.4 2.3 1.4 2.3	0.1 1.1 1.1 1.1 1.1 2.2 2.2 2.2 1.1 1.1 2.2 2.3 3.4 4.5 5.5 6.6 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	0 3.55653 0 2.33 -1.093 -1.1325366 1.7 1.30 4.85 2.4 2.4 1.5 7.0 7.21.3 3.0	11.9 12.2 12.6 13.8 14.2 14.7 15.1 15.3 14.6 13.5 12.6 12.6 12.6 12.6 12.6 12.6 12.9 11.6 12.9 12.9 11.9 11.0 12.9 12.9 12.9 12.9 12.9 12.9 13.9 13.1 13.1 13.1 13.1 13.1 13.1 13

Benchmark Input-Output Accounts for the U.S. Economy, 1987

This article presents the 1987 benchmark input-output (I-O) accounts for the U.S. economy. The first part of the article addresses the 1987 benchmark; it discusses the steps taken to speed up the benchmark's completion and then describes some improvements that have been made in the tables. The second part describes the concepts and methods underlying the U.S. I-O accounts and illustrates how the I-O tables are used.

The 1987 I-O estimates presented here are in summary form; that is, they are aggregated to 95 1-0 industries from 480-industry The make (production) of commodities by industries is shown in table 1, the use (consumption) of commodities by industries in table 2.1, and the components of value added by industries in table 2.2. The following summary 1-0 tables will be presented in the May Survey of Current Business: Commodityby-industry direct requirements per dollar of industry output; commodity-by-commodity total requirements, direct and indirect, per dollar of delivery to final use; and industry-by-commodity total requirements, direct and indirect, per dollar of delivery to final use. All of the summary tables, as well as the detailed tables, are available on diskette (see the box on page 90).

This article includes supplementary tables that relate the I-O accounts to the national income and product accounts (NIPA's); these tables permit more extensive analyses of the I-O estimates. The article also contains two appendixes: Appendix A provides a list of selected Survey articles about the I-O accounts; appendix B provides a concordance between the industry codes used in the I-O accounts and the 1987 Standard Industrial Classification (SIC) codes.

The 1987 benchmark I-O estimates will be incorporated into the NIPA's during the next comprehensive NIPA revision, which is tentatively scheduled for release in late 1995.

The 1987 Benchmark Accounts

In recognition of user needs—expressed, for example, by the interagency Working Group on the Quality of Economic Statistics—the Bureau of Economic Analysis (BEA) has developed a program to speed up the availability of 1-0 accounts. For 1-0 benchmarks, which are prepared primarily from the Census Bureau's quinquennial economic censuses, the long-term goal is to make the 1-0 tables available within 5 years of a census year and within 1 year after release of all economic census data.

For the 1987 benchmark, BEA devised a set of procedures that captured the most important parts of the 1987 economic census data, but that abbreviated the normal time-consuming process of assembling a wide variety of other data for constructing components not based on economic census data. These procedures enabled BEA to complete the 1987 tables faster than otherwise would have been the case and to turn its re-

Ann M. Lawson, Chief of the Interindustry Economics Division, directed the preparation of the 1987 benchmark input-output study and coauthored the article with D.A. Teske. Mark A. Planting, Acting Assistant Division Chief, planned and coordinated division efforts to produce the estimates. Belinda L. Bonds, Chief of the Goods Branch, and Karen Horowitz, Chief of the Services Branch, assisted in the planning and implementation of the study and in the estimation, review, and finalization of the data. Brian D. Kajutti designed the data processing system and coordinated the computer programming and processing efforts.

Staff contributors were William A. Allen, Timothy D. Aylor, Alvin D. Blake, Cheryl Carlson, Esther Carter, Jeffrey W. Crawford, Sergio Delgado, Gary T. Fee, Kara Gordon-Palley, Carole Henry, David Huether, Greg M. Key, Myles J. Levin, Fritz Mayhew, William McCarthy, Donna McComber, Clinton P. McCully, Rhonda E. Monroe, Ted Morgan, Diane E. Nisson, Robert S. Robinowitz, Brooks B. Robinson, Timothy F. Slaper, Patricia A. Washington, Raquel Watson, and Diane Young.

^{1.} Earlier benchmarks covered 1947, 1958, 1963, 1967, 1972, 1977, and 1982. BEA also has produced annual 1-0 accounts based on less comprehensive source data. The most recent annual accounts, for 1987, were presented in the April 1992 Survey of Current Business.

^{2.} See "Improving the Quality of Economic Statistics: The 1992 Economic Statistics Initiative," Survey 71 (March 1991): 4–5.

sources toward the 1992 benchmark at the earliest possible time.

Procedures for the 1987 benchmark

In preparing benchmark I-O accounts, BEA relies heavily on economic census data covering mining, construction, manufacturing, wholesale trade, retail trade, transportation, and selected services. The data are released by the Census Bureau as they are completed, over a period of

time that usually begins about 1 year after the end of the census year and continues for about 30 months. (For example, the planned release dates for the 1992 census year extend from early 1994 through late 1996.) To estimate outputs and inputs and to allocate commodities across industries and final users, BEA must augment the economic census data with data from hundreds of other sources, such as the U.S. Department of Agriculture, U.S. Department of Transportation,

Table A.—Principal Data Sources for Industry or Commodity Outputs, 1987 Benchmark

Industry or Commodity	Source
Agriculture, forestry, and fisheries	U.S. Department of Agriculture farm statistics
Mining	Census Bureau 1987 Census of Mineral Industries
Construction	Census Bureau 1987 Census of Construction Industries, Census of Service Industries, and value of construction put-in-place series
Manufacturing	Census Bureau 1987 Census of Manufactures
Transportation	Interstate Commerce Commission Transportation Statistics Association of American Railroads Freight Commodity Statistics Census Bureau 1987 Census of Transportation, Motor Freight Transportation and Warehousing Survey, and Services Annual Survey U.S. Army Corps of Engineers 1987 Waterborne Commerce of the U.S. Department of Transportation Air Carrier Financial Statistics and National Transportation Statistics
Communications	Trade sources annual reports Federal Communications Commission Statistics of Communication Common Carriers
Utilities	Department of Energy—Energy Information Administration Natural Gas Annual, Electric Sales and Revenue, and Financial Statistics of Selected Electric Utilities American Gas Association Gas Facts Census Bureau 1987 Census of Mineral Industries Trade sources financial statements
Wholesale and retail trade	Census Bureau 1987 Census of Retail Trade and 1987 Census of Wholesale Trade
Finance	Federal Deposit Insurance Corporation Statistics on Banking Federal Reserve Board Annual Report Federal Home Loan Bank Board financial reports Office of Thrift Supervision Saving and Home Financing Source Book National Credit Union Administration Yearend Statistics for Federally Insured Credit Unions HSN Consultants, Inc. The Nilson Report Federally sponsored credit agencies annual reports State and Federal regulatory agencies annual reports
Insurance	Trade sources financial statements Health Care Financing Administration private health insurance data A. M. Best and Company Best's Aggregates and Averages Mortgage Insurance Companies of America Factbook
Real estate	National Association of Realtors 1987 Home Sales Yearbook Census Bureau 1987 Census of Housing, 1987 Census of Construction Industries, 1987 Census of Agriculture, and 1987 Enterprise Statistics Internal Revenue Service tabulations of tax returns
Services	Census Bureau 1987 Census of Service Industries Internal Revenue Service tabulations of tax returns Bureau of Labor Statistics tabulations of wages and salaries covered by State unemployment insurance U.S. Department of Education Digest of Educational Statistics
Government enterprises	Federal and State and local government agency reports Office of Management and Budget Federal budget data Census Bureau 1987 Census of Governments
Noncomparable imports	Census Bureau general imports and imports for consumption data Estimated as part of the balance of payments accounts
Scrap	Census Bureau 1987 Census of Manufactures
General government	Estimated as part of the national income and product accounts
Household	Estimated as part of the national income and product accounts
Inventory valuation adjustment	Estimated as part of the national income and product accounts
	1

U.S. Department of Treasury, Office of Management and Budget, and other government agencies and private organizations.

In preparing the 1987 benchmark 1-0 accounts, BEA used standard 1-0 procedures for the estimates of industry and commodity output, except for new construction (see table A). For previous benchmarks, approximately 50 construction industries were analyzed and estimated separately. For the 1987 benchmark, the economic census total for construction output was distributed among only five industries—four related to mining and one "all other" category, which covers the remaining industries within new construction and maintenance and repair construction.

BEA also used standard I-O procedures for the estimates of industry intermediate inputs where hard data were readily available—primarily for material inputs from the economic censuses. In previous benchmarks, the standard procedure has been to supplement these economic census data with estimates of other intermediate inputs from hundreds of other information sources. For the 1987 benchmark, BEA estimated these intermediate inputs by first extrapolating 1982 benchmark estimates to 1987 based on the change in industry output, and then by adjusting the extrapolated estimates to be consistent with—or to balance—commodity and industry outputs (see table B).

Value added components were prepared using the same procedures as in the past.³ Data

for compensation of employees and for indirect business tax and nontax liability are from the U.S. Department of Treasury, Office of Management and Budget, Bureau of Labor Statistics, and Census Bureau; NIPA estimates are also used.

For most final use components—personal consumption expenditures, gross private fixed investment, change in business inventories, exports of goods and services, and imports of goods and services—BEA used the same data and procedures as in the past.⁴ Most estimates of personal consumption expenditures and gross private fixed investment were prepared with the commodity-flow method.⁵ Inventories held by industries were based on economic census and Internal Revenue Service data. Exports and imports of goods and services were based on data from the Census Bureau and the U.S. balance of payments accounts.

For Federal Government and State and local government final use components, a combination of new and old procedures was used. Total expenditures by type of purchase, for Federal Government and for State and local governments, were obtained from the NIPA's, as in the past. Government purchases by I-O commodity were

Table B.—Principal Data Sources and Methods for Estimating Intermediate Inputs and Components of Value Added, 1987 Benchmark

Component	Source or method
Intermediate inputs	For census-covered industries, selected purchased services; in addition, for manufacturing and mining, materials consumed from 1987 economic censuses. For gas and electric utility industries, selected inputs from trade sources; for agriculture industries, inputs from U.S. Department of Agriculture. For most remaining industries, 1982 estimate extrapolated by change in industry output and adjusted to balance commodity and industry outputs.
Compensation of employees	For census-covered industries, payroll and benefits from Census Bureau 1987 economic censuses. For noncensus-covered industries, Bureau of Labor Statistics tabulations of wages and salaries covered by State unemployment insurance; other labor income estimated as part of the national income and product accounts.
Indirect business tax and nontax liability.	For Federal excise taxes, collections from Internal Revenue Service; for customs duties, receipts from Monthly Treasury Statement, and for nontaxes (such as fines), receipts from the Budget of the United States, prepared by the Office of Management and Budget. For State and local governments, receipts from Census Bureau 1987 economic census and annual and quarterly surveys.
Other value added	For most industries, residual method: Total industry output less total intermediate inputs, compensation of employees, and indirect business tax and nontax liability.

^{3.} Value added equals gross output (sales or receipts and other operating income, plus inventory change) minus intermediate inputs (consumption of goods and services purchased from other industries or imported). It includes compensation of employees, indirect business tax and nontax liability, and other value added.

^{4.} In the I-O accounts, change in business inventories covers commodities wherever held; capital purchases—producers' durable equipment and structures—are included in gross private fixed investment; and imported commodities are included with domestically produced commodities in both final use and intermediate use.

^{5.} The commodity-flow method generally begins with an estimate of the total supply of a commodity available for domestic uses; it then either attributes a fixed percentage of supply to final users, or it adjusts for intermediate purchases and attributes the residual to final users. For more information, see U.S. Department of Commerce, Bureau of Economic Analysis, *Personal Consumption Expenditures*, Methodology Paper Series MP-6 (Washington, DC: U.S. Government Printing Office, June 1990): 31–34.

estimated using 1982 benchmark 1-0 estimates as weights, a new procedure for the 1987 estimates.

Some procedures used to prepare the 1987 benchmark 1-0 accounts suggest certain caveats. First, the technology represented by the relationships of commodity inputs to industry outputs in the use table (as well as in the commodityby-commodity and industry-by-commodity total requirements tables) is a hybrid of that in 1987 and that represented in the 1982 benchmark 1-0 accounts. Second. other value added was derived as a residual for most industries after subtracting total intermediate inputs, compensation of employees, and indirect business tax and nontax liability from total industry output.6 (For a few industries, estimates of other value added were available from other data sources; for example, other value added estimates for agriculture are from the U.S. Department of Agriculture.) As a result, the other value added component includes estimating errors from other parts of the 1-0 accounts. For studies requiring comparisons of value added components, users may find BEA's estimates of gross product originating by industry more useful.

Improvements and other changes

The 1987 benchmark 1-0 tables differ from previous tables in several respects. The summary 1987 benchmark tables, which begin on page 98, cover 95 1-0 industries instead of the 85 1-0 industries used previously. For the new summary tables, 14 1-0 industries were aggregated into 7, and 12 1-0 industries were disaggregated into 30.8 With one exception, the aggregations involved small, declining industries; new construction and repair and maintenance construction were aggregated because of the abbreviated procedures used for the 1987 benchmark. The disaggregations involved large, growing industries. Appendix B shows the new aggregations and disaggregations of 1-0 industries. (The disaggregated industries

are designated with an alphabetical suffix to the 1982 benchmark 1-0 industry number.)

The industry classification of the 1-0 accounts is now based on the 1987 SIC; the 1982 benchmark tables and subsequent annual tables were based on the 1972 SIC. In addition, the 1987 benchmark tables incorporate all of the 1991 comprehensive NIPA revisions, including the change from gross national product to gross domestic product (GDP).9

Introduction to the U.S. 1-0 Accounts

The I-O accounts for the U.S. economy show the production of commodities by each of nearly 500 industries, in the "make" table, and the consumption of commodities by these industries, in the "use" table. Chart 1 illustrates the make and use tables in matrix form in, respectively, the upper and lower panels. The commodity composition of GDP and the industry distribution of value added are also shown in the use table.

BEA prepares benchmark 1-0 accounts primarily from data that the Census Bureau collects every 5 years in its economic censuses for mining, construction, manufacturing, wholesale trade, retail trade, transportation, and selected services, as well as in its census of governments. Data from the U.S. Department of Agriculture, U.S. Department of Transportation, U.S. Department of Treasury, and other government agencies and private sources are also used.

The I-O accounts show compactly the relationships between all industries in the economy and all the commodities they produce and use. Estimates for commodities are typically shown at producers' prices. When producers' prices are used, transportation costs and wholesale and retail trade margins are treated as commodities that are separately produced and used by industries (see the section "Definitions and conventions for valuation").

The I-O accounts consist of five basic sets of tables: (1) Make, (2) use, (3) commodity-by-industry direct requirements, (4) commodity-by-commodity total requirements, and (5) industry-

^{6.} For most 1-0 industries, other value added includes consumption of fixed capital, proprietors' income, corporate profits, and business transfer payments. For banking and for credit agencies other than banks, other value added also includes net interest. For owner-occupied dwellings and for real estate agents, managers, operators, and lessors, it also includes rental income. For the six industries covering the Federal Government and State and local government enterprises, it also includes current surplus less government subsidy payments.

^{7.} See Robert P. Parker, "Gross Product by Industry, 1977–90," Survey 73 (May 1993): 33–54; and Robert E. Yuskavage, "Gross Product by Industry, 1988–91," Survey 73 (November 1993): 33–44.

^{8.} The net addition of industries resulting from the aggregations and disaggregations of 1982 1-0 industries is 11. In addition, the rest of the world is no longer technically considered to be an industry because of the change from GNP to GDP as the primary measure of final demand. Thus, there is a net increase of 10 industries in the 1987 benchmark.

^{9.} The 1991 NIPA revision was described in the following Survey articles: "A Preview of the Comprehensive Revision of the National Income and Product Accounts: Definitional and Classificational Changes," September 1991; "A Preview of the Comprehensive Revision of the National Income and Product Accounts: New and Redesigned Tables," October 1991; and "The Comprehensive Revision of the U.S. National Income and Product Accounts: A Review of Revisions and Major Statistical Changes," December 1991.

^{10.} Estimates for commodities in purchasers' prices can be derived by adjusting for transportation costs and for wholesale and retail trade margins; these costs and margins are included on the diskettes that can be ordered for the 1987 benchmark 1-0 (see the the box on page 90).

CHART 1

The U.S. Input-Output Accounts

MAKE TABLE: INDUSTRIES PRODUCING COMMODITIES

					COMMODITIES	3					TOTAL
		Agricultural products	Minerals	Construction	Manufactured products	Transpor- tation	Trade	Finance	Services	Other*	TOTAL INDUSTRY OUTPUT
	Agriculture										
	Mining										
	Construction										
	Manufacturing										
INDUSTRIES	Transpotation										
	Trade										
	Finance										
	Services										
	Other*										
TOTAL COMM	TOTAL COMMODITY OUTPUT										

USE TABLE: COMMODITIES USED BY INDUSTRIES AND FINAL USES

OSL IADE	INDUSTRIES INDUSTRIES FINAL USES (GDP)																		
						INDUSTR	IES								,	,			TOTAL
		Agricul ture	Mining	Construc- tion	Manufac- turing	Transpor- tation	Trade	Finance	Services	Other*	Total inter- mediate use	Personal consumption expenditures	Gross private fixed investment	Change in business inventories	Exports of goods and services	Imports of goods and services	Government purchases	GDP	TOTAL COMMODITY OUTPUT
	Agricultural products																		
	Minerals																		
	Construction																		
	Manufactured products																		
	Transpotation																		
COMMODITIES	Trade																		
	Finance																		
	Services																		
	Other*																		
	Noncomparabe imports																		
	Total inter- mediate inputs																		
	Compensation of employees																		
VALUE ADDED	Indirect business tax and nontax liability	}														ITY OUT			
	Other value added**													•		JCT OF T Y OUTPU	THE INDUST T	RY	
	Total																		
TOTAL INDUS	STRY OUTPUT																		

^{*} The I-O accounts use two classification systemale for industries and another for commoditibet both geneally use the same I-O numbers and titles Other* includes generally use the same I

^{**} For most industries, this item includes consumption ed tapital, proprietors' income, quarate profitsand business tansfer payments. For banking and or credit agencies other than banks, it also includes net interest. OF owner-occupied dallings and or real estate agents, managersoperators and lessors, it also includes rental incomfor the six industries certing the Fedeal Government and State and local government enterprises, it also includes current subsidies.

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

by-commodity total requirements.¹¹ For the 1987 benchmark, details for the value added components of the use table and of the commodity-by-industry direct requirements table are contained in separate tables. Only the make and use tables are presented in this article. The remaining three tables and their descriptions will be published in the May Survey.

The make table

The make table (table 1), in the upper panel of chart 1, shows the dollar value, in producers' prices, of each commodity produced by each industry. In each row, there is one "diagonal" cell that shows the value of production of the commodity for which the corresponding industry has been designated the "primary" producer. Entries in the other cells in the row show the value of production of commodities for which the industry is a "secondary" producer.12 For example, the newspapers and periodicals industry (row 26A) is the primary producer of the newspapers and periodicals commodity (column 26A). It is also a secondary producer of the following commodities: Paper and allied products, except containers (column 24); other printing and publishing (column 26B); rubber and miscellaneous plastics products (column 32); miscellaneous manufacturing products (column 64); and advertising (column 73D). The sum of all entries in a row is the total output by the industry.

The entries in each column of the make table represent the production by both primary and secondary producers of the commodity named at the head of the column. For example, computer and data processing services (column 73A) includes the output by the primary producer—the computer and data processing services industry (row 73A)—and by the following secondary producers: Computer and office equipment (row 51); audio, video, and communication equipment (row 56); scientific and controlling instruments (row 62); finance (row 70A); and other business and professional services, except medical (row 73C). The sum of all entries in a column is the total output of the commodity.

An industry's share of the production of a commodity can be calculated from the values in

the make table by expressing the entries in a given column as a percentage of the column total. From the 1987 benchmark, for example, column 62 in table 1 shows that the production of scientific and controlling instruments (commodity I-O 62) totaled \$86 billion, of which the scientific and controlling instruments industry (industry I-O 62) produced \$80 billion, or about 93 percent of the total.

The industry and commodity output totals for this table are estimated primarily from the quinquennial economic censuses, conducted by the Census Bureau (see table A). The economic census data, which are on an SIC basis, cover most establishments with payrolls. Information from other government and private sources is used for I-O industries not covered by the economic census data, such as finance, insurance, real estate, utilities, and schools and religious organizations. Data from other government agencies are also used to supplement the economic census data for some industries.

BEA makes two adjustments to the economic census data. First, it adds estimates of the output for establishments without payrolls that are not covered by the economic census data. Second, BEA adjusts for misreported tax return information; this adjustment is necessary because in some cases, the Census Bureau data for expenses and receipts reflect tax return records rather than information collected directly from survey reports.¹³

BEA also adjusts the economic census data based on the SIC to the I-O industry classification system to attain greater homogeneity in the input structures for commodities produced by an I-O industry. This type of adjustment is discussed in the section "Definitions and conventions for classification."

The use table

The use table (table 2) is presented in two parts: Table 2.1 shows the dollar value, in producers' prices, of each commodity used by each industry and by each final user; table 2.2 shows detail, in producers' prices, on the value added components used by each industry in table 2.1 to produce its output. In table 2.1, entries in a row show the use of the commodity named at the beginning of the row by each industry or final user named at the head of the column. For example, the *commodity* radio and TV broadcasting services

^{11.} In the designation of 1-0 tables, the row is referred to first and the column second. Thus, tables in which commodities appear in the rows and industries in the columns are designated "commodity-by-industry" tables, and tables in which industries appear in the rows and commodities in the columns are designated "industry-by-commodity" tables.

^{12.} Primary and secondary products and the classification of industries are discussed further in the section "Definitions and conventions for classification."

^{13.} See Robert P. Parker, "Improved Adjustments for Misreporting of Tax Return Information Used to Estimate the National Income and Product Accounts, 1977," Survey 64 (June 1984): 17–25.

(row 67) is used by the *industries* radio and TV broadcasting (column 67) and advertising (column 73D), as well as by persons—that is, as part of personal consumption expenditures (column 91).

In table 2.2, industries are shown in the rows, and total output, total intermediate inputs, and the components of value added are shown in the columns. For example, the total output for the radio and TV broadcasting industry (row 67) was \$29 billion, of which \$10 billion was labor compensation, \$1 billion was indirect business tax and nontax liability, \$3 billion was other value added, and \$16 billion was intermediate inputs. The column totals for industries in table 2.1 equal the right-hand row totals in table 2.2. For example, the column total for the radio and TV broadcasting industry in table 2.1 equals the row total for that industry in table 2.2, or \$29 billion. (The relationship between value added and other parts of the use table is depicted in the bottom panel of chart 1.)

In table 2.1, industry uses sum to total intermediate use, shown in the right-hand column of the industries portion, and the final uses sum to gdp, shown in the right-hand column of the final uses portion. The total output of each commodity is the sum of all intermediate uses of the commodity by industries and all sales to final users. The total output of each industry is the sum of all intermediate inputs consumed by the industry—that is, the raw materials, semifinished products, and services that the industry purchases—and of the value added by the industry. For the economy as a whole, the total of all final uses of commodities equals the total value added by all industries, or gdp.

The rows in table 2.1 show the wide variation in the proportion of commodity output that is sold directly to final users. For example, the 1987 use table shows that some commodities, such as apparel (the primary product of industry 1-0 18), were sold almost entirely to final users; therefore, the demand for these commodities is affected primarily by changes in the buying patterns of final users. Other commodities, such as industrial and other chemicals (1-0 27A), were used almost entirely as intermediate inputs. For these commodities, the connection between production and final uses is primarily indirect and can be traced mainly through industrial users' sales of commodities to final users.

The rows also show the wide variation in the direct usage of commodities by industries. For example, the 1987 use table shows that paper and

allied products, except containers (1-0 24), with \$81 billion of commodity output, were used by nearly all industries. The largest user was other printing and publishing (1-0 26B), which used \$15 billion, or 18 percent of total commodity output. In contrast, metal containers (1-0 39), with \$12 billion of commodity output, were used by only 20 industries. The largest user was food and kindred products (1-0 14), which used \$9 billion, or 74 percent of total commodity output.

The rows in table 2.2 show the wide variation in the use of value added inputs by industries to produce their outputs. For example, the real estate and royalties industry (I-O 71B) required \$280 billion of value added inputs, or 74 percent of its total output; of this, \$27 billion was for labor compensation, \$53 billion was for indirect business tax and nontax liability, and \$200 billion was for other value added. In contrast, the livestock and livestock products industry (I-O 1) required \$15 billion of value added inputs, or 17 percent of its total output; of this, \$3 billion was for labor compensation, \$1 billion was for indirect business tax and nontax liability, and \$11 billion was for other value added.

BEA estimates intermediate inputs in the use table through a number of processes. economic censuses are the primary source for data on intermediate inputs; however, BEA must supplement these data to cover establishments without payrolls and industries not covered by the economic censuses. BEA also separates information for some broader categories of purchases into 1-0 commodities; for example, BEA separates data on purchases of office supplies into purchases of postal service, paper, envelopes, etc., using commodity-shipment proportions and other available information. BEA also uses related information that is available to make 1-0 estimates of inputs for which there is little hard data. For example, fees paid by industries for accounting services are estimated on the basis of industry employment. (Table B shows the principal methods and sources used for the 1987 benchmark.)

BEA estimates the final uses of commodities either by incorporating data into the I-O accounts directly from other sources after minor adjustment, or—for personal consumption expenditures and producers' durable equipment—by employing the commodity-flow method. An example of source data incorporated directly with only minor adjustments is exports of goods, which is obtained from the balance of payments accounts.

In the commodity-flow method, an estimate is first developed for the total supply of a commodity for domestic use. Then either a fixed percentage of total supply is attributed to final users, or the total supply is adjusted for intermediate purchases and the residual is attributed to final users. ¹⁴

An example of commodity flow using the fixed percentage method can be illustrated by examining its use in estimating personal consumption expenditures for polishes and sanitation goods; in this case, approximately 40 percent of total output is allocated to personal consumption expenditures. An example of commodity flow using the residual method can be illustrated by examining its use in estimating personal consumption expenditures for wheat flour. First, an estimate is made for the total domestic supply of wheat flour: Total wheat flour sales by domestic firms, minus wheat flour exports, plus wheat flour imports. Next, an estimate is made for total consumption of wheat flour by intermediate users, including food manufacturers—of bread, cookies, crackers, and frozen bakery productsand restaurants. The wheat flour consumed by all intermediate users is then subtracted from domestic supply; government purchases of wheat flour are also subtracted. The residual is then assumed to be the wheat flour purchased by persons and is included in personal consumption expenditures.

The components of value added (see footnotes 3 and 6) are estimated using different methods. Compensation of employees by industry is estimated directly from source data. Indirect business tax and nontax liability by industry is either estimated directly from source data or is extrapolated based on the 1982 benchmark. For most industries, other value added is derived as a residual after subtracting total intermediate inputs, compensation of employees, and indirect business tax and nontax liability from total industry output (that is, industry sales receipts). For a few industries, estimates of other value added were available from other data sources: for example, other value added estimates for agriculture are from the U.S. Department of Agriculture.

Uses of the 1-0 accounts

The 1-0 accounts have a variety of statistical and analytical uses. For example, they can provide an economic framework to assess data quality and completeness, and they can be used as an

analytical economic tool to study industry production. This section describes some uses of the I-O accounts in preparing economic statistics and in studying interindustry relationships within the economy, as well as some of the assumptions analysts must make when they use I-O accounts as an economic tool.

The use of 1-0 accounts requires certain simplifying assumptions. Among these is the assumption that interindustry relationships established in the 1-0 accounts for a benchmark year will remain stable over time and through a range of output levels. Users of 1-0 tables generally must make the assumption that changes in interindustry relationships occur only gradually for example, that the interindustry relationships represented in the 1987 benchmark are applicable for a band of years surrounding 1987. Also, 1-0 accounts implicitly assume that all adjustments to a change in final demand are achieved instantly and without price changes. For analyses that require different assumptions, other economic tools may be more appropriate.

Statistical uses.—The 1-0 accounts are used in several ways to prepare economic statistics. For NIPA comprehensive revisions, they are the single most important regular source for estimating the expenditure components of gdp and for parts of several income components. Because the 1-0 accounts have an internally consistent framework that tracks the input and output flows in the economy, any estimating weaknesses in the national economic accounts become readily apparent when they are compared with the 1-0 accounts. For the NIPA revision, the NIPA estimates of personal consumption expenditures and producers' durable equipment are based on the final use components of the 1-0 benchmark accounts, with additional adjustments to reflect the definitional, classificational, and statistical changes incorporated into the NIPA's since completion of the 1-0 accounts.¹⁵

The I-O benchmark accounts are also used as a framework to weight and calculate index numbers for price, volume, and value. For example, BEA uses the I-O-based detailed estimates of producers' durable equipment to weight producer price indexes for calculating the constant-dollar NIPA estimates of producers' durable equipment.

Analytical uses.—The 1-0 accounts are an important analytical tool because they show the interdependence among various producers and

^{15.} For more information on the 1-0 accounts and their relationship to the NIPA's, see *Personal Consumption Expenditures*, pages 17 and 31-34.

consumers in the economy. Because of their industry detail, the 1-0 accounts can be used for analyzing a wide range of related empirical issues.

The main contribution of the 1-0 accounts to economic analysis is that they permit analysts to measure the repercussions that changes in final uses have on industries and commodities, both directly and indirectly. For example, an increase in consumer demand for motor vehicles will initially have a direct effect that will increase the production of cars, which in turn will have indirect effects, including increased steel production. Increased steel production will in turn require more chemicals, more iron ore, more limestone, and more coal. Increased car production will also require more upholstery fabrics, and the increased production of these fabrics will require more natural fibers, more synthetic fibers, and more plastics. Further, increased production of synthetic fibers will require more electricity and containers, and so on.

These repercussions are only a few in the continuing chain resulting from the initial increase in consumer demand for motor vehicles. Through 1-0 analysis, it is possible to trace this chain throughout the economy, measuring the direct and indirect effects on the output of each industry and commodity. Within the 1-0 accounts, these effects are quantified in coefficient tables. These tables can be used, for example, to determine the impact of a disaster on the economy or, when supplemented with additional information, to compute the effect on employment of an increased demand for U.S. exports. The Federal Emergency Management Agency, the U.S. Department of Defense, and the Census Bureau, among others, have found the 1-0 accounts to be useful for such studies.

When the U.S. 1-0 accounts are augmented with regional data, they can show economic impacts by region. For example, a State Government agency has used regional 1-0 accounts to estimate the economic effects of a high-speed intercity rail project on the State's economy, and a private consulting group has used regional 1-0 accounts to analyze the impact of a sports stadium on the local economy. BEA'S Regional Economic Analysis Division helps planners and analysts estimate the regional impacts of project and program expenditures by industries.¹⁶

Definitions and conventions for classification

The 1-0 accounts use two classification systems, one for industries and another for commodities. but both classification systems generally use the same 1-0 numbers and titles. In the 1-0 industry classification system, output typically represents the total output of all establishments in each industry, regardless of whether the commodities produced are primary to the industry (that is, make up the largest proportion of the establishment's output) or are secondary (that is, primary to another industry). In the 1-0 commodity classification system, output represents the total output of the product or service, regardless of the classification of the establishments that produce it. This section discusses first the 1-0 industry classification system and then the 1-0 commodity classification system.

The 1-0 industry classification system is based on the SIC system, which classifies establishments into industries based on their primary products or services.¹⁷ Establishments are defined as economic units that are generally at a single physical location where business is conducted or where services or industrial operations are performed. Establishments are classified into an sic industry on the basis of their primary products or services.18

The 1-0 industry classification system adjusts the sic system primarily to attain a greater degree of homogeneity in the structure of inputs to the commodities produced by an 1-0 industry. The adjustments, which affect 1-0-defined primary and secondary production, are called, in 1-0 terminology, redefinitions and reclassifications.¹⁹ The 1-0 system also provides for other industries and "special" industries that the SIC does not; these are discussed later in this section.

In a redefinition, the input purchases and the output sales receipts for a particular secondary product or service are moved from the sic-defined industry to the i-o-defined industry. The input structure of the redefined product or service is assumed to be the same as that for the 1-0 industry in which the product or serv-

^{16.} A typical 1-0 table in the Regional Input-Output Modeling System is derived mainly from two data sources: (1) The U.S. benchmark 1-0 accounts and (2) BEA'S four-digit SIC county wage-and-salary data. For more information, see U.S. Department of Commerce, Bureau of Economic Analysis, Regional Multipliers: A User Handbook for the Regional Input-Output Modeling System (RIMS II), Second Edition (Washington, DC: U.S. Government Printing Office, 1992).

^{17.} The 1-0 two-digit and six-digit industry categories and their composition in terms of the 1987 SIC codes are given in appendix B.

^{18.} For a discussion of the SIC system, see Office of Management and Budget, Executive Office of the President, Standard Industrial Classification Manual: 1987, (Springfield, Virginia: National Technical Information Service,

^{19.} Fewer 1-0 adjustments to s1c-defined industries may be necessary for the 1997 and subsequent benchmark 1-0 accounts when the North American Industry Classification System (NAICS) is completed. The proposed NAICS is expected to be a common international system—covering the United States, Canada, and Mexico-for grouping establishments by similarity of production process. For a discussion, see Jack E. Triplett, "Economic Concepts for Economic Classifications," Survey 73 (November 1993): 45-56.

ice is primary; this assumption is called, in 1-0 terminology, the commodity-based technology assumption. 20

An example of a redefinition involves restaurants located in hotels. Both inputs and outputs of these restaurants are moved from the hotels and lodging places industry (the industry of the establishment where the product or service occurs) to the eating and drinking places industry (the industry where the product or service is primary). The input structure related to the output of restaurants located in hotels is assumed to be similar to that for the eating and drinking places industry.

Redefinitions are used in the following cases:

- Construction work (both new construction and maintenance and repair) performed by all industries is redefined to the construction industries. Construction work performed by and for nonconstruction industries is referred to as "force-account construction."
- Manufacturing in trade and service industries is redefined to the appropriate manufacturing industries.
- Retail trade in service industries is redefined to the retail trade industry. Services in the trade industries are redefined to service industries. Some services are also redefined within service industries.
- Manufacturers' wholesale sales of purchased goods (resales) are redefined to the wholesale trade industry.
- Rental activities of all industries are redefined to the real estate and rental industries.
- The preparation of meals and beverages in most industries is redefined to the eating and drinking industry.

Redefinitions affect a number of industries; however, for most industries, the total output involved is small. Examples of industries with large dollar amounts of redefinitions of secondary products or services out of or into the industry are automobile and repair services (I-O 75), with \$131 billion of total industry output, of which \$40 billion has been redefined out to a number of other industries and \$1 billion has been redefined

in from a number of other industries; eating and drinking places (1-0 74), with \$209 billion of total industry output, \$34 billion out and \$½ billion in; wholesale trade (1-0 69A), with \$424 billion of total output, \$7 billion out and \$69 billion in; and retail trade (1-0 69B), with \$421 billion of total output, \$25 billion out and \$46 billion in.

In a reclassification, the I-O system creates a secondary product or service from an SIC-defined primary product or service. For these reclassified products and services and for all other SIC-defined secondary products and services that are not redefinitions, the I-O system moves the output receipts from the SIC-defined product or service class to the I-O-defined primary product or service class within the same I-O industry. In this case, total output for the affected industry remains unchanged; however, output for each affected commodity group changes.

An example of a reclassification involves the newspaper industry. The sic defines the primary product or service classes of this industry as newspaper subscriptions and sales and newspaper advertising. The i-o system considers the primary product or service of the newspaper industry to consist of newspaper subscriptions and sales. It considers the advertising component to be secondary and, therefore, moves advertising receipts or output to the advertising commodity group. Total output for the i-o newspaper *industry* remains unchanged, but output for the newspaper *commodity* is reduced, and output for the advertising *commodity* is increased.

Reclassifications affect about 70 commodities; however, for the most part, the dollar values involved are not very large. Examples of industries with large dollar amounts of reclassified sales receipts are the newspapers and periodicals industry (1-0 26A), for which \$20 billion of its \$36 billion total commodity output is moved to the advertising commodity (1-0 73D); and the crude petroleum and natural gas industry (1-0 8), for which \$12 billion of its \$80 billion total commodity output is moved to the gas production and distribution (utilities) commodity (1-0 68B).

When the total requirements tables are calculated, inputs and outputs of each 1-0-defined secondary product or service are moved to their particular 1-0-defined commodity groups. The input structures of secondary products or services are assumed to be similar to those for the industries in which the products or services are primary; this assumption, in 1-0 terminology, is called the industry-based technology assumption (see footnote 20).

^{20.} The 1-0 commodity-based and 1-0 industry-based technology assumptions are important when estimating the total-requirements tables. The significance of the assumptions is discussed elsewhere in the economic 1-0 literature. See, for example, United Nations, System of National Accounts, 1993, prepared under the auspices of the Inter-Secretariat Working Group on National Accounts (New York: United Nations, 1993): chapter 15, in particular pages 367–70; and Ronald E. Miller and Peter D. Blair, Input-Output Analysis: Foundations and Extensions (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1985): 149–99.

As mentioned earlier, the I-O system also provides for other industries and "special" industries that the SIC does not. The I-O system replaces the SIC-defined government-owned establishments with two industries to cover government enterprises as defined in the NIPA's—Federal Government enterprises (I-O 78) and State and local government enterprises (I-O 78) and State and local government enterprises (I-O 79). The I-O system also provides "special" industries, such as general government (I-O 82), in which output and value added are defined as general government compensation of employees, and the inventory valuation adjustment (I-O 85), which is a NIPA adjustment to derive GDP (see appendix B for a complete listing of I-O special industries).

The *1-O* commodity classification system is closely related to that for industries. Each commodity receives the code of the industry in which the commodity is the primary product. This code is then used to group production of the commodity in the industry in which it is the primary product with its production in other industries in which it is a secondary product.

In several cases, the 1-0 commodity classification differs from that specified by the industry classification. If the same commodity is the primary product of more than one sic industry, all of the 1-0 commodity is assigned the 1-0 commodity number that corresponds to the 1-0 industry that is the largest producer of the commodity. This results in there being no commodity output for the following 1-0 commodity groups: Forest products (commodity 2.0701); knit outerwear mills (commodity 18.0201); knit underwear and nightwear mills (commodity 18.0202); knitting mills, not elsewhere classified (commodity 18.0203); fertilizers, mixing only (commodity 27.0202); cold-rolled steel sheet, strip, and bars (commodity 37.0104); steel pipe and tubes (commodity 37.0105); secondary nonferrous metals (commodity 38.0600); Federal electric utilities (78.0200); State and local government passenger transit (commodity 79.0100); and State and local government electric utilities (commodity 79.0200).

Definitions and conventions for valuation

Transactions in commodities are typically valued in 1-0 accounts at producers' prices, which exclude distribution costs (transportation costs and wholesale and retail trade margins), but include excise taxes collected and paid by producers. Transportation costs and trade margins are shown as separate purchases by the users of the commodities. The sum of the producers' value,

transportation costs, and trade margins equals the purchasers' value.

The 1-0 tables do not trace actual flows of commodities to and from wholesale trade and retail trade. If trade were shown as buying and reselling commodities, industrial and final users would make most of their purchases from a single source—trade. To show the relationship between the production of commodities and their purchase by intermediate and final users, commodities are shown as if they move directly to users, bypassing trade. The margin associated with a commodity is shown as a separate purchase of the commodity from wholesale trade and retail trade by users. Transportation costs are the freight charges paid to bring the commodity from the producer to the user, either intermediate or final. All transportation costs are included in the transportation rows (rows 65A-E) of the use table.

Wholesale trade has one primary product—distributive services for the sale of goods to final users other than for personal consumption expenditures. Examples of distributive services provided by wholesalers include merchandise handling, stocking, selling, and billing.

Wholesale trade output is measured one way for merchant wholesalers, agents, and brokers and another way for manufacturers' sales branches. For merchant wholesalers, agents, and brokers (on own account), wholesale margin is measured as wholesale sales receipts less the cost of goods sold plus taxes collected by the distributor. For manufacturers' sales branches, it is measured as expenses plus taxes collected by the sales branches.

Nonmargin output occurs when the whole-sale trade service is purchased separately from the commodity. Nonmargin output includes, for example, a sales commission paid to a whole-saler acting as a broker. Nonmargin output is measured as the sum of expenses on goods sold by manufacturers' sales offices, commissions on goods sold by agents and brokers, and customs duties. Wholesale trade output—both margin and nonmargin—is included in the wholesale trade row (row 69A) of the use table.

Retail trade has one primary product—distributive services for the sale of goods to persons. Retail output is defined as the retail margin, which is measured as retail sales less the

Table C.—Input-Output Commodity Composition of Final Demand, in Producers'

	Personal consumption expenditures Gross private fixed investment Change in business inventories Export									,			u. 2			s of dollars]				
	Person	nal consum	ption expend	ditures	Gros	s private f		ment	Chan	ge in busir		tories	Ехро	rts of good	ds and ser	vices	Imp	orts of god	ods and se	rvices
Commodity number	Producers' prices	Transpor- tation costs	Whole- sale and retail trade margins	Purchas- ers' prices	Produc- ers' prices	Trans- porta- tion costs	Whole- sale and re- tail trade margins	Purchas- ers' prices	Produc- ers' prices	Trans- porta- tion costs	Whole- sale and re- tail trade margins	Pur- chasers' prices	Produc- ers' prices	Trans- porta- tion costs	Whole- sale and re- tail trade margins	Purchas- ers' prices	Produc- ers' prices	Trans- porta- tion costs	Whole- sale and re- tail trade margins	Purchasers' prices
1 2 3 3 4 5 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3,090 15,682 3,763 647 0 15,682 3,763 10 36 647 0 0 1,099 201,153 20,774 4,992 41,153 10,088 11,820 11,923 978 784 60,189 11,692 25,11,741 10,23 978 25,019 11,518 2,705 11,518 2,705 11,518 2,705 11,518 2,705 11,518 2,705 11,669 13,679 13,670 11,722 13,741 14,10,73 16,10,75 17,709 18,1367 11,10,43 16,11 11,043 16,11 11,043 16,11 11,043 16,11 11,043 16,11 11,043 16,11 11,043 16,11 11,043 16,11 11,043 16,11 11,043 16,11 11,043 16,11 11,043 16,11 11,043 16,11 11,043 16,11 1	96 3.215 522 0 0 0 41 41 0 333 60 49 133 133 360 267 7 400 267 1344 311 0 14886 2,072 6339 1044 46 886 339 1044 46 886 102 60 60 60 60 60 60 60 60 60 60 60 60 60	1,034 13,806 1,652 0 0 0 1,078 100,843 13,651 1,024 4,173 60,712 9,245 1,646 17,015 7,712 148 4,808 8,9,177 929 691 10 16,617 16,865 83 93,30,98 12,647 13,745 1,922 3,017 11 57 0 404 1,551 3,626 228 247 0 0 98 2,221 133 13,626 221 3,033 16,605 247 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,219 32,703 5,466 647 0 241 1 0 89 0 0 2,182 307,046 2,084 9,278 13,225 19,311 3,508 36,616 19,972 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,506 2,040 1,108 2,040 1,108 2,040 1,108 2,040 1,108 1,	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 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 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 0	719 -4.261 101 101 1,100 -1,758 -8 -8 -8 -9 1,771 249 1,188 515 138 502 1,199 1,1292 467 1,188 515 138 502 1,199 604 204 2557 237 604 208 333 422 557 237 604 208 333 422 557 21,198 313 306 1,292 467 604 21,198 333 422 557 221,198 333 422 557 237 604 208 333 422 557 21,198 21,110 00 00 00 00 00 00 00 00 00 00 00 00	49101345570000331623503761288673254465131421011711101431222744452255266614823316225037661288673254445522552661222000000000000000000000000000	3 246 100 (°) 7 27 27 8 8 1 1 1 0 0 0 0 11 2399 1088 299 25 25 31 33 31 147 466 66 66 67 222 501 1362 631 1 74 150 43 31 13 1 150 43 31 13 13 13 13 13 13 13 13 13 13 13 13	711	485 12,747 544 122 559 2,663 1,494 633 1,494 633 1,497 782 1,197 782 1,197 3,645 5,922 2,622 14,630 1,540 2,959 11,407 3,303 3,422 1,660 3,167 1,217 1,847 1,218 1,358 2,696 4,137 1,217 1,847 1,218 1,358 1	17 1,129 6 0 63 780 8 237 780 0 0 0 27 585 12 15 24 4 910 525 16 30 17 278 209 7 22 64 77 63 3 10 0 26 21 27 63 3 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14 2,069 37 0 14 656 10 0 0 32 1,388 587 93 313 18 22 22 137 1,275 255 434 442 122 178 6 6 113 6 597 471 1,205 122 22,418 364 142 178 6 6 113 1,588 6 100 0 0 0 0 0 0 0 0 0 0 0 0	515, 346, 587, 122, 636, 3, 503, 3, 508, 880, 15, 588, 880, 15, 588, 880, 15, 588, 880, 15, 588, 15, 588, 188, 189, 189, 189, 189, 189, 189, 1	-808 -2,353 -3,747 -1,349 -1,349 -1,349 -1,349 -28,965 -7344 -18,538 -3,601 -919 -25,395 -1,727 -9,114 -13,332 -9,702 -1,281 -9,702 -1,281 -1,335 -10,727 -9,114 -13,332 -9,702 -1,837 -4,1333 -1,837 -4,1333 -1,1824 -6,927 -1,281 -1,504 -1,1333 -1,1824 -6,927 -1,281 -1,1504 -1,104 -1,104 -1,104 -1,104 -1,104 -1,104 -1,104 -1,104 -1,104 -1,104	00000000000000000000000000000000000000	000000000000000000000000000000000000000	-808 -2,353 -3,747 -1,349 -65 -28,965 -734 0 -467 -18,538 -3,601 -1,639 -25,395 -1,752 -6,399 -5,287 -9,914 -126 -1,335 -10,727 -9,700 -1,281 -214 -13,332 -9,700 -1,837 -4,513 -10,824 -6,992 -7,590 -1,281 -2,261 -6,573 -2,102 -1,321 -1,321 -1,321 -1,321 -4,913 -4,913 -4,913 -4,913 -4,913 -4,913 -4,913 -6,947 -604 -1,763 -2,102 -1,321 -1,504 -3,346 -1,763 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1,504 -3,346 -1,763 -1

costs associated with all purchases by each industry or category of final uses.

and Purchasers' Prices, 1987 Benchmark $^{\rm 1}$

Federal	Government		national	Federal G	overnment p	ourchases, n	ondefense	State a	nd local gov	ernment pur	rchases,	State and	local govern	nment purcha	ases, other	
Produc- ers' prices	Trans- portation costs	Whole- sale and retail trade margins	Purchas- ers' prices	Produc- ers' prices	Trans- portation costs	Whole- sale and retail trade margins	Purchas- ers' prices	Produc- ers' prices	Trans- portation costs	Whole- sale and retail trade margins	Purchasers' prices	Produc- ers' prices	Trans- portation costs	Whole- sale and retail trade margins	Purchas- ers' prices	Com- modity number
2 2 0 0 0 3 3 6 6 6 6 6 7 5 4 9 1 1 1 0 1 4 9 6 4 1 5 7 7 4 9 1 1 1 0 1 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1	(†) 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 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 0 0 38	10	(*) 0000(*) 944000011000(*) 16011601160110(*) 222(*) 3211(*) (*) 00227022(*) 151522000000000000000000000000000000000	(°) 0 0 0 0 1 1 20 0 0 0 0 1 1 20 0 0 0 0 1 1 2 26 (°) 1 1 1 2 26 (°) 1 1 2 26 (°) 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	111	200 200 201 201 201 201 201 201 201 201	(*) 555 (*) 0 0 0 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 655 61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	320 3400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	544 3688 -419 756 3688 -419 756 11 10 11 61,020 19,816 116 2,114 43 8388 347 555 755 154 1,463 1,263 1,278 321 1 2,778 321 32 1 34 1 373 368 94 12,265 1,274 189 990 0 7,180 9,366 1661 11 2,732 2,732 1,589 990 0 7,180 9,366 1661 10 0 5,850 0 0 9,366 1661 10 1 2,732 1,589 990 0 7,180 987 3,273 7,298 181 2,138 1,318 1,3	11 61 61 70 00 00 00 00 00 00 00 00 00 00 00 00	3 3 999 3 3 0 0 (°) 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	577 528 -416 756 756 756 756 756 756 756 756 756 75	1 1 2 3 3 4 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

Table D.—Input-Output Commodity Composition of Personal Consumption Expenditures, in Producers' and Purchasers' Prices, 1987 Benchmark [Millions of dollars]

						[IVIIII	ons of dolla	rsj						
NIPA code/ I-O number	Producers' prices	Transpor- tation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA code/ I-O number	Producers' prices	Transpor- tation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA code/ I-O number	Producers' prices	Transpor- tation costs	Wholesale and retail trade margins	Purchasers' prices
3. Food p	urchased for	off-premise	consumpti	on (n.d.)	17. Cleaning	, storage, and	d repair of	clothing and	d shoes (s.)	41	1,350	12	1,431	2,793
Total	211,016 1,722 11,383 2,584	7,811 19 2,585 48	111,975 644 9,323 1,346	330,802 2,385 23,291 3,978	Total 72A 72B	8,328 62 8,266	0 0 0	0 0 0	8,328 62 8,266	42 64 69B 81	600 415 27 8	28 1 0 0	791 498 0 114	1,419 914 27 122
9+10 14	2 194,576	4,863	1 100,017	4 299,456		18. Jewelr	y and watc	hes (d.)		32	. Other durab	le house fu	rnishings (d	i.)
27A 69B 80 81	60 5 1,201 –516	9 0 285 0	43 0 603 0	112 5 2,089 –516	Total	12,698 1,599 11,624 -525	27 4 23 0	13,505 1,463 11,926 116	26,230 3,065 23,573 -409	Total	17,946 4,776 1,371 1,357	566 108 6 32	17,748 4,006 1,095 1,107	36,260 8,891 2,472 2,495
4. F	Purchased me	eals and be	verages (n.o	d.)	19. Other mi	sc. personal,	clothing a	nd jewelry s	ervices (s.)	22+23 26B	1,569 72	23 0	995 48	2,587 119
Total	172,236 36 93 169,638 2,434	0 0 0 0	0 0 0 0	172,236 36 93 169,638 2,434	Total 72B 73C	9,443 9,428 15	0 0 0	0 0 0	9,443 9,428 15	32 33+34 35 36 40	203 127 358 1,146 80 1,495	5 3 12 17 (*) 32	202 109 375 917 53 1,827	410 239 745 2,080 133 3,354
77B	35	0	0	35	21.	Toilet article	s and prep	arations (n.c	i.)	44+45 47	248 583	2	247 523	497 1,108
5. Food fur	nished to em	ployees (in	cluding mili	tary) (n.d.)	Total	17,370	405	12,203 66	29,979 135	48 50	176 88	2	113 80	291 170
Total	6,464 158 174 25 6,107	200 2 42 (*) 156	899 8 61 4 827	7,563 167 276 30 7,090	29B 32 42 54 58 64	15,497 20 589 427 221 549	309 1 25 12 13 45	10,795 17 347 256 175 548	26,601 37 960 695 408 1,142	51 52 53 54 55 56	237 16 81 104 1,035 793	3 (*) 1 3 34 3	311 17 56 72 1,033 535	551 32 138 179 2,102 1,331
6. Food	d produced a	nd consume	ed on farms	(n.d.)		rshops, beau	ty narlors	and health o	luhe (e)	61	35 481	3	32 377	69 860
Total	714	0	0	714	Total	16,078	ty pariors,	o l	16,078	64 69B	1,268 200	98 0	1,508 0	2,874 200
1 2 14	107 138 470	0 0	0 0 0	107 138 470	72A 72B 76	311 13,513 2,254	0 0	0 0 0	311 13,513 2,254	80	725 -677 Semidurable	173 0 house furr	673 1,439 nishings (n.o	1,571 763 d.)
	7. Tobac	co products	(n.d.)		24. Owner	-occupied no	onfarm dwe	llings-space	rent (s.)	Total	9,749	154	9,427	19,330
Total 15	20,774 20,774	121 121	13,651 13,651	34,546 34,546	Total 71A	321,380 321,380	0 0	0 0	321,380 321,380	16 17 18 19	267 81 3 7,768	5 2 0 35	265 81 3 7,187	536 165 6 14,990
1	12. Shoes an	d other foot	wear (n.d.)			nant-occupied			• •	26B 31	79 2	0	63 2	142 3
Total	12,264 2,801	60 34	13,703 3,465	26,027 6,299	Total 71B	120,032 120,032	0 0	0	120,032 120,032	32 35	435 150	9	431 155	875 308
33+34 81	9,463 (*)	26 0	10,213 25	19,703 25	26	6. Rental valu	e of farm o	lwellings (s.)	37 41 64	11 114 675	3 58	11 121 919	25 237 1,651
14. Wome	en's and child excep	lren's clothi ot shoes (n.		essories,	Total 71A 71B	4,888 3,764 1,124	0 0 0	0 0 0	4,888 3,764 1,124	69B 80 81	3 161 (*)	0 38 0	0 170 21	3 369 20
Total	50,938 660	358 7	47,121 666	98,416 1,333		27. Oth	ner housing	(s.)			and polishin ehold supplie			
18 19	43,726 98	200	40,297 121	84,223 220	Total	16,808	0	0	16,808	Total	20,022	950	12,123	33,095
24 26B 32	3,141 166 84	92 20 3	2,651 184 97	5,883 369 184	72A	16,808	0	0	16,808	3 9+10	56 35	2 32	18 20	76 86
33+34 64	2,997 222	21 14	2,642 261	5,661 496		ire, including	mattresses	· ·	- , ,	17 19	94 84	1	40 39	135 124
69B 81	2 -158	0	0 203	2 45	Total	18,091 17,882 208	108 108 0	16,270 16,011 259	34,469 34,001 468	24 25 26B 27A	5,919 292 23 178	180 7 0 21	2,864 148 11 125	8,963 447 34 324
15. Men's and	d boys' cloth	ing and acc (n.d.)	essories, e	xcept shoes	30. Kit	chen and oth	er househo	ld appliance	es (d.)	27B 29B 30	784 9,358 194	31 561 10	691 5,904 89	1,506 15,823 294
Total	28,267 95 27,345 69 34 750 101	177 1 159 1 1 8 7	21,310 92 20,404 73 33 514 105	49,754 188 47,908 142 68 1,271 212	Total	12,837 18 54 445 712 11,380 222 6	324 (*) 1 14 7 301 2 0	8,620 9 36 351 651 7,408 120 45	21,781 27 91 809 1,370 19,089 344 50	32 36 42 53 55 58 64	237 237 327 431 74 807 823 305	5 52 3 2 8 11 23	119 154 185 51 777 577 312	361 534 620 127 1,592 1,411 641
81	-126	0	90	-36	31. Chi	na, glassware	, tableware	, and utensi	ils (d.)	35.	Stationery a	nd writing s	supplies (n.	d.)
	rd clothing is	sued to mil		· , ,	Total	6,520	121	8,090	14,732	Total 24	3,882 1,086	135 36	6,005 1,378	10,022 2,500
Total	133 25 80 28	(*) (*) (*) (*)	13 2 9 2	146 27 89 30	20+21 32 35 36 38	381 1,956 1,000 765 18	9 34 24 14 1	506 2,484 1,382 864	896 4,473 2,406 1,643 40	26B 27A 32 64	2,220 240 6 331	55 39 (*)	3,658 309 10 650	5,932 588 16

Table D.—Input-Output Commodity Composition of Personal Consumption Expenditures, in Producers' and Purchasers' Prices, 1987 Benchmark— Continued

[Millions of dollars]

							ons or donar	~]						
NIPA code/ I-O number	Producers' prices	Transpor- tation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA code/ I-O number	Producers' prices	Transpor- tation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA code/ I-O number	Producers' prices	Transpor- tation costs	Wholesale and retail trade margins	Purchasers' prices
	37. I	Electricity (s	.)		49. (Other profess	ional medic	al services	(s.)	7	71. Net purcha	ases of use	d autos (d.)	
Total 68A	63,318 63,318	0 0	0	63,318 63,318	Total 73C 77A	38,652 495 38,158	0 0 0	0 0 0	38,652 495 38,158	Total	14,070 14,070	0	14,209 14,209	28,280 28,280
	3	8. Gas (s.)			//A	,			30,130		72. Other	motor vehic	cles (d.)	
Total 68B	25,544 25,544	0 0	0	25,544 25,544		51.	Hospitals (s	.)		Total 59A	33,839 28,232	747 728	10,453 6,382	45,039 35,342
	Water and of	ther sanitary	services (s	s.)	Total	165,479 165,479	0 0	0 0	165,479 165,479	61 81	3,982 1,625	19	1,315 2,756	5,317 4,381
Total 68C	20,800 14,672	0 0	0	20,800 14,672		55. Nu	sing homes	s (s.)		73. Tire	es, tubes, acc	essories, ar	nd other pa	rts (d.)
79	6,128	Ö	0	6,128	Total	29,510 29,510	0 0	0 0	29,510 29,510	Total	12,029 120	2,174	11,036 117	25,238 238
		oil and coal			777	,			20,010	29B 32	164 5,419	16 1,936	166 5,364	346 12,719
Total 7 20+21	6,102 138	305 41	4,794 62	11,201 241		56. Hea	th insuranc	e (s.)		35 42	11 279	(*)	10 279	21 563
27A	83 192	2 23	33 79	118 294	Total 70B	21,305 21,305	0 0	0 0	21,305 21,305	50 52	29 155	3 1	18 154	50 310
31 68C	5,498 192	239 0	4,620 0	10,356 192	C4 Brake		and invest		alina (a.)	55 56	330 646 38	4 (*)	290 625 26	622 1,275 65
	41. Telepho	ne and teleg	raph (s.)			rage charges				57 58 59B	2,186 3,133	97 108	1,857 2,107	4,139 5,348
Total	51,879	0	0	51,879	Total 70A	23,398 23,398	0 0	0 0	23,398 23,398	81	-479	0	22,107	-457
66 72A	51,049 830	0	0	51,049 830	62. Bank se	rvice charges	s, trust serv	ices, and s	afe deposit	74. Repair,	greasing, was	hing, parkir easing (s.)	ng, storage,	rental, and
	42. Dom	estic servic	e (s.)				x rental (s.)			Total	67,759	0	202	67,961
Total	8,242 533 7,709	0 0 0	0 0 0	8,242 533 7,709	Total	18,349 18,349	0 0	0 0	18,349 18,349	75 76 77B	67,684 57 18	0 0	202 0 0	67,886 57 18
	43. Other ho	usehold ope	eration (s.)	·		ices furnished ries except li					75. Gaso	line and oil	(n.d.)	
Total	24,691	2	20	24,714			d pension p		. ,	Total	54,666	2,229	28,460	85,355
54 65B 65C	44 5,996 114	2 0 0	16 0 0	63 5,996 114	Total 70A	93,475 93,475	0 0	0 0	93,475 93,475	31	54,666 Bridge, tunne	2,229	28,460	85,355
65D 69B	36 12	0 0 0	0	36 12	64.	Expense of h	andling life	insurance	(s.)	Total	2,016	0	0	2,016
70B 72B 73B	3,275 4,131 92	0	0 0 0	3,275 4,131 92	Total 70B	41,459 41,459	0	0 0	41,459 41,459	79	2,016	0	0	2,016
73C 78	4,712 6,269 10	0 0 0	0 0 4	4,712 6,269 14	700	,			41,400		77. Motor v			
81	Drug prepara						gal services	. ,		Total	15,522 15,522	0	0 0	15,522 15,522
Total	27,762	232	19,012	47,006	Total	31,069 31,069	0 0	0 0	31,069 31,069		79. Mass	transit syste	ems (s.)	
24 27A 29A	1,620 74 23,958	43 4 164	682 35 16,617	2,345 112 40,738	(66. Funeral a	nd burial ex	penses (s.)		Total 65A	4,583 4,583	0	0 0	4,583 4,583
31 32	24 323	1 12	17 227	41 561	Total	6,259 466	23 21	1,105 1,081 24	7,387 1,569		80.	Taxicab (s.)	
54 55 62	41 7 1,718	1 0 7	18 5 1,413	60 12 3,137	42 65D	11 90	21 2 0	24	36 90	Total	2,359	0	0	2,359
	Imic product		·		71B 72B	1,022 4,670	0	0	1,022 4,670	65A	2,359	0	0	2,359
Total	2,688	13	5,337	8,038		67. Other po	ersonal bus	iness (s.)		Total	I	Railway (s.		F70
58 62	194 548	3 2	284 1,014	480 1,564	Total	12,087	0	0	12,087	Total 65A	576 576	0	0 0	576 576
63 81	1,940 6	8 0	4,040	5,988 6	66 70A 70B	203 568 37	0 0 0	0 0 0	203 568 37			3. Bus (s.)		
	47. P	hysicians (s	s.)		72B 73B	1,230 295	0	0	1,230 295	Total 65A	1,364 1,364	0 0	0 0	1,364 1,364
Total 77A	99,923 99,923	0 0	0	99,923 99,923	73C 73D 77B	1,331 661 7,541	0 0 0	0 0 0	1,331 661 7,541			. Airline (s.)		
		Dentists (s.))		78 80	161 62	0	0	7,341 161 62	Total	19,935	0	0	19,935
Total	26,416	0	0	26,416		70 N	lew autos (4.)		65D	19,935	0	0	19,935
77A	26,416	0	0	26,416	Total	73,642	1,898	•	93 474		35. Other inte			
					59A	73,642	1,898	17,934 17,934	93,474 93,474	Total	2,061	0	0	2,061

Table D.—Input-Output Commodity Composition of Personal Consumption Expenditures, in Producers' and Purchasers' Prices, 1987 Benchmark—
Continued

[Millions of dollars]

					[IVIIII	ulis ul uuliai	ગ						
Producers' prices	Transpor- tation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA code/ I-O number	Producers' prices	Transpor- tation costs	Wholesale and retail trade margins	Purchasers' prices	NIPA code/ I-O number	Producers' prices	Transpor- tation costs	Wholesale and retail trade margins	Purchasers' prices
177	0	0	177		92. Radio an	d television	repair (s.)		79	6,007	0	0	6,007
133	Ö	Ö	133	Total	3,510	0	0	3,510	81	214	0	401	3 615
			1,000	72B	3,168	0	0	3,168		103. Hig	her education	on (s.)	
			40.004				. 1 . 1 4 . 4		Total	33,788	0	0	33,788
7,875	149	4,924	12,948				. `	,			Ĭ		33,788
-1	ő	44	43	2	3,988	588	4,423	8,998			· ·		
azines, newsp	papers, and	sheet mus	ic (n.d.)	80	10	2	9	21	77B	14,496 14,496	0	0 0	14,496 14,496
12,020 11,741	444 400	5,039	17,503 16 949		95. Motion	picture the	aters (s.)		105. (Other private	education a	nd research	n (s.)
421 –142	44 0	231	695 -142	Total	3,443	0	0	3,443	Total	13,692	0	0	13,692
ondurable to	e and enor	t cunnline i	(n d)	76 77B	3,362 70	0	0	3,362 70	76 77B	365 13,328	0	0	365 13,328
				96. Legitim	ate theaters a	and opera.	and entertai	nments of	10	6. Religious a	and welfare	activities (s	i.)
134 319	9	19 257	162 576						Total	75,284	0	0	75,284
406 41	4	397 46	88	Total 76	4,087 3,938	0 0	0 0	4,087 3,938	//B	75,284	0	0	75,284
67	0	60	127	77B	149	0	0	149		8. Foreign tra	vel by U.S.	residents (s.)
62	2	79	143		97. Spe	ctator sport	s (s.)		Total 65C	33,932 1,741	0 0	0 0	33,932 1,741
100	1	128	229	Total 76	3,366 1,942	0 0	0 0	3,366 1,942	65D 80	9,058 23,134	0	0	9,058 23,134
1,472 8,339	7 89	2,146 9,892	3,624 18,320	77B	1,424	0	0	1,424	109. Ex	penditures al	broad by U.	S. residents	s (n.d.)
11 -1	0	1	(*)	98.	Clubs and fr	aternal orga	anizations (s.)	Total	3,888	0	0	3,888
			ment, boats,	Total	7,098 5,056	0 0	0 0	7,098 5,056	80	3,888	0	0	3,888
			05.575	77B	2,041	0	0	2,041	· ·				
693	1	681	1,376	99. (Commercial p	articipant a	musements	(s.)	83	- 30,323 -30,323	0 0	0 0	−30,323 − 30,323
91	30	121	242	Total 65C	6,051 1,171	0 0	0	6,051 1,171	111. Perso	nal remittanc	es in kind t	o nonreside	ents (n.d.)
194 461	8 5	173 228	375 693	76	4,880	0	0	4,880	Total	-813	0	0	-813
316	1	88	405		100. Pari-mu	ituel net red	ceipts (s.)		83	_813	0	0	_813
111	(*)	129	241	Total	3,010 3,010	0 0	0 0	3,010 3,010		Personal cons	sumption ex	penditures	
2,490	27	3,270	5,787	10	l. Other recre	eational exp	enditures (s	s.)	Total	2,566,099	20,949	485,204	3,072,252
159	0	427	586				1,105	57,982		Durable	commoditie	es (d.)	
nd audio pro	ducts, comp	outing equip	oment, and	1 3	778	1	28	806	Total	249,778	6,528	158,931	415,237
		. ,	43.118	65A	896	0	Ö	896		Nondurable	commoditi	ies (n.d.)	
37 3,052	(*) 43	20 1,911	58 5,006	65D 66	126	0	0 0	126	Total	673,095	14,328	323,840	1,011,264
212	1	118	331	67 70B	1,326 39	0	0	1,326 39		S	ervices (s.)		
861	12	568	1,441	72A 72B	2,170 3,614	0	0	2,170 3,614	Total	1,643,226	93	2,433	1,645,752
115 22	27 0	87 78	229 100	76	20,114	0	0	20,114					
				77B	802	0	0	3,529 802					
	7,887 7,875 133 1,596 87. Boo 7,887 7,875 13 11,741 421 -142 -142 -142 -142 -142 -142 -14	Troduces Costs	Producers' prices Talisputation costs and retail trade margins 177	Producers Prices Talisportation costs and retail trade margins Purchasers' prices notes	Producers Italisput tation costs tation tatio	Producers Transportation Costs and retail trade margins Purchasers prices Purchasers prices Purchasers prices Purchasers prices Purchasers prices Purchasers prices Purchasers Pur	Producers Transportation costs And retail rade and retai	Produces Producers Produ	Producers' tation freal tation freal tation freal tation freal fr	Produces Transpor		Producers Transport	Producer Tarsgor Producer Tarsgor Producer Tarsgor T

*Less than \$500,000.

NOTE.—The identifying numbers for the personal consumption categories are those used in table 2.4 in the National Income and Product Accounts of the United States, Volume 2, 1959-88.

Personal consumption expenditures of scrap, used and secondhand goods (I-O 81) from other final demand components are shown net of corresponding sales. (Sales among persons cancel.) However, the trade margin has been measured on all sales of used goods—both among persons

and between personal consumption expenditures and other final demand categories—to the extent that such sales pass through trade channels. The trade margin is usually the largest part of the value of used goods in purchasers prices.

Table E.—Input-Output Commodity Composition of Producers' Durable Equipment Expenditures, in Producers' and Purchasers' Prices, 1987 Benchmark

[Millions of dollars]

							,							
NIPA code/ I-O number	Producers' prices	Transpor- tation costs	Wholesale and retail trade margins	Purchas- ers' prices	NIPA code/ I-O number	Producers' prices	Transpor- tation costs	Wholesale and retail trade margins	Purchas- ers' prices	NIPA code/ I-O number	Producers' prices	Transpor- tation costs	Wholesale and retail trade margins	Purchas- ers' prices
5.	Computers	and peripher	ral equipmen	t	52	2	0	0	2	26.	Agricultural	machinery,	except tracto	rs
Total 51 81	29,802 29,809 -7	74 74 0	6,652 5,878 774	36,528 35,761 767	58 73B 81	10 640 2	(*) 0 0	1 0 160	11 640 162	Total	3,281 3,134 11	92 92 (*)	1,739 1,169 1	5,112 4,395 12
6.	. Office equi	oment excep	ot computers		15. Gen	eral industria	al, including equipment	materials ha	ndling,	73B 81	168 -32) 0	0 570	168 537
Total 50	4,259 517	52 7	1,820 105	6,131 628	Total 44+45	16,167 36	189 1	1,855 7	18,211 44	27.	Construction	machinery,	except tract	ors
51 73A 73B 81	3,455 10 232 46	45 0 0 0	1,605 0 0 109	5,106 10 232 155	46 48 49 50 73B	5,029 2 10,238 197 667	97 0 90 1 0	1,033 (*) 683 17	6,159 2 11,011 214 667	Total	7,116 6,847 313 -43	261 261 0	1,430 1,247 0 183	8,807 8,354 313 140
	7. Comm	unication eq	uipment		81	-1	0	116	114		20 Mining	and oilfield	maahinani	
Total	40,319 198	168 0	1,562	42,050 198	16. Electi	ical transmis	ssion, distrib apparatus	ution, and ir	ndustrial	Tatal			-	4 000
38 51	36 213	1 2	5 41	42 256	Total	11,794	147	1,263	13,203	Total	924 84 801	29 0 29	279 0 123	1,232 84 952
56 58	21,663 2,643	132 22	1,319 137	23,113 2,801	47 53	788 5,878	16 106	123 820	927 6,803	49 73B	14	(*) 0	1 0	15 45
62 66	9,546 4,389	12 0	61 0	9,619 4,389	62 73B	4,719 410	25 0	320 0	5,064 410	81	-20	ŏ	156	136
73B 81	1,585 47	0	0	1,585 47		l 18. Trucks, k	ouses, and tr	uck trailers			29. Service	e industry m	achinery	
	8.	Instruments	;		Total	26,585	614	2,696	29,895	Total	7,581 34	76	2,544	10,201 35
Total	11,669 11,137	58 58	2,129 2,129	13,856 13,324	59A 59B	21,685 6,591	559 55	2,104 323	24,347 6,969	50 52 73B	7,184 346	75 0	2,543 0	9,802 346
73B	502	0	2,129	502 30	81	-1,690	0	270	-1,421	81	18	ő	ő	18
				30		Т	19. Autos				30. Electri	cal equipme	nt, n.e.c.	
	9. Photocopy				Total 59A	24,652 41,248	1,063 1,063	3,121 2,775	28,836 45,086	Total	6,294	51	958	7,302
Total	8,635 2,635 5,653	30 6 24	2,520 427 2,093	11,185 3,067 7,770	81	-16,596	0	346	-16,250	48 54	208 391	3 11	42 40	252 441
63 73B 81	304	0	2,093	304 44			20. Aircraft			55 58	435 91	5	110 16	549 113
					Total	9,144 179	11 2 7	564 32	9,718 213	62 73B 81	4,901 270 –2	28 0 0	750 0 0	5,679 270 –2
Total		ated metal p		7.420	60 62	8,843 876	7 2	135 6	8,985 883	01	-2	0	0	
Total 5+6 27A	6,285 446 795	148 23 0	696 21 0	7,129 489 795	81	-754	0	391	-363		31. Other no	nresidential	equipment	
37 39	13	0	0	13 23		21. 9	Ships and bo	ats		Total	8,163 1,087	353 24	3,529 442	12,044 1,554
40 42	2,811 1,931	20 106	296 378	3,127 2,414	Total	1,657 1,301	2 2	165 153	1,824 1,456	20+21 32	5 62	(*) 1	1 10	6 73
46 73B	4 264	0	0	264	81	356	0	13	369	44+45 61	2,167 598	32 40	1,808 217	4,007 855
	12. Eng	ines and tur	rbines			22. Ra	ilroad equip	ment		64 73B 81	3,876 445 -77	255 0 0	1,052 0 0	5,183 445 -77
Total	1,811	27	171	2,009	Total	1,311 1,285	31 31	20 7	1,361 1,322					
43 73B	2,302 64	27 0	171 0	2,500 64	73B 81	33 -7	0	7 0 13	33 6	32. 8	Sale of equip	ment scrap,	excluding au	itos
81	-556	0	0	-556		24 Fur	niture and fix	vturas		Total 81	- 2,520 -2,520	0	0 0	−2,520 −2,520
	13. Meta	working ma	chinery		Total				10 502			dat da a Hara		
Total 47	13,442 12,651	168 165	2,137 1,977	15,747 14,793	Total	15,756 15,109 664	125 125 0	2,701 2,631 0	18,582 17,865 664			tial (landlord		
48 73B	228 558	3 0	46	278 558	81	-16	ő	69	53	Total	3,807 1,282	92 29	1,966 521	5,864 1,832
81	4	0	114	118		:	25. Tractors		'	22+23 32	179 15	(*)	9 8	189 23
1	4. Special in	dustry mach	inery, n.e.c.		Total	3,913	99	2,400	6,411	54 56	2,266 65	61 (*)	1,409 19	3,736 85
Total 32	16,182 78	187 3	2,683 18	19,052 99	44+45 81	3,925 -12	99 0	2,347 52	6,371 41		Producers	durable ec	uipment	<u> </u>
42 48	14 14,615	(*) 179	11 2,463	26 17,257						Total	278,028	4,144	47,598	329,771
49	821	6	30	856								-1,1-1	,000	

Text continues from page 83.

cost of goods sold plus the taxes collected—if any—by retail trade establishments.

Retail trade margins also apply to some purchases of goods by other final users; for example, retail trade margins apply to some purchases of personal computers by business and are included in gross private fixed investment. All retail trade margins are included in the retail trade row (row 69B) of the use table.

Imports of goods and services, a component of final uses, are treated in one of two ways, depending on whether or not they are comparable to U.S. commercially produced goods and serv-Those that are comparable are included in the use table along with the distribution of the output of their domestic counterparts. The U.S. domestic port values of imported commodities are shown as negative entries in the imports of goods and services column of final use (column 95), so that the row total for a commodity equals the domestic output of that commodity. Other imported goods and services—those not comparable to U.S. commercially produced goods and services, and those purchased and used abroad by U.S. residents—are shown in the use table row for noncomparable imports (row 80).

Examples of noncomparable imports are coffee beans and parakeets; an example of goods purchased and used abroad by U.S. residents is food purchased by U.S. military personnel stationed abroad. The total value of all noncomparable imports is shown as a single negative entry in the imports of goods and services column (column 95).

Imports of goods by commodity (the entries in column 95) are valued at U.S. domestic port values plus duties. Imports of services are valued at producers' values. The entries for transportation imports and for trade imports include adjustments that convert the total of all commodity imports of goods and services to a foreign port value equivalent. This adjustment is made for conceptual consistency between the 1-0 accounts and the NIPA's and the balance of payments accounts.

Exports of goods and services—both by commodity and as a total—are valued in U.S. producers' prices, which are considered to be equivalent to U.S. domestic port values. Exports are also a component of final uses.

Inventory change, another component of final uses, represents the change in inventory of each commodity, wherever held, over the benchmark year. It is stated at book value—that is, at its

Data Availability

The estimates from the 1987 benchmark I-O accounts are available on diskette at two-digit (95 I-O industries) and six-digit (480 I-O industries) levels. They can be ordered for "transactions," for "total requirements," or for "all." "Transactions" includes the six-digit make table, use table, direct requirements coefficients table, and estimates by commodity of transportation costs and of wholesale and retail trade margins. "Total requirements" includes six-digit industry-by-commodity or commodity-by-commodity coefficients. Products specifying "all" contain all above data, but for the two-digit I-O industry level only. Each product includes information on the mathematical derivation of the coefficients tables. The BEA accession numbers and the prices for these products are listed below.

For further information about 1-0 products or when ordering by MasterCard or Visa, call the Interindustry Economics Division at (202) 606–5585. To order by mail, write to the Public Information Office, Order Desk, BE-53, Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230. Specify the item, accession number, and price of the product(s) being ordered. For foreign shipment, add 25 percent to the total amount of the order. A check or money order payable to "Bureau of Economic Analysis" must accompany all written orders. Be sure to include a return address.

Item	BEA accession number	Price
Diskettes (3 1/2 inch HD)		
1987 benchmark six-digit, transactions (two diskettes)	51-94-40-001	\$40
1987 benchmark six-digit, industry-by-commodity total requirements (two diskettes)	51-94-40-002	40
1987 benchmark six-digit, commodity-by-commodity total requirements (two diskettes)	51-94-40-003	40
1987 benchmark two-digit, all	51-94-40-004	20
1987 benchmark commodity composition of NIPA final demand	51-94-40-005	20
1987 benchmark personal consumption expenditures and producers' durable equipment by NIPA		
category	51-94-40-006	20

BEA'S 1987 benchmark I-O accounts, at both the two-digit and six-digit levels, will also be available on CD-ROM through the Commerce Department's National Economic, Social, and Environmental Data Bank (NESE-DB) CD-ROM. The NESE-DB is produced quarterly in February, May, August, and November. Call the Office of Business Analysis at (202) 482–1986 for more information or to place an order. The NESE-DB is also available for public use at over 900 Federal Depository Libraries.

original cost—in the use table. The inventory valuation adjustment, which converts inventory change from book value to replacement cost, is shown as a single entry for the total of all commodities (row 85, column 93).

Supplementary tables

Four supplementary tables, which can be used with the five basic sets of 1-0 tables, are provided with this article. Three tables (tables C–E) cover the 1-0 commodity composition of NIPA final demand, of NIPA personal consumption expenditures, and of NIPA producers' durable equipment; a fourth table (table F) reconciles 1-0 exports of goods and services and imports of goods and services with NIPA estimates.

The commodity composition tables are necessary as bridges between the 1-0 accounts and the NIPA's because the two sets of accounts are based on different valuations and definitions. In the 1-0 accounts, final use categories are expressed in producers' prices; in the NIPA's, final demand categories are expressed in purchasers' prices. Also, the definitions of 1-0 final use categories differ from those of the NIPA final demand categories. Before the 1-0 total requirements tables can be used to measure and analyze the changes in commodity or industry output requirements arising from changes in the level or composition of NIPA final demand, NIPA final demand categories must be converted to equivalent 1-0 final use categories. That is to say, the analysis should be consistent with 1-0 final use commodities that are valued at producers' prices for the 1-0 year, with separate entries for transportation costs and trade margins.

Table C shows the 1-0 commodity composition in 1987 of each NIPA category of final demand

Table F.—Relation of Exports and Imports in the Input-Output Accounts to the National Income and Product Accounts, 1987 Benchmark

[Millions of dollars]

	1987
Exports of goods and services, NIPA	363,952 6,781 8.875
Plus: Statistical revisions, BPA Equals: Exports of goods and services, I-O	276
Imports of goods and services, NIPA Less: U.S. merchandise returned Reexports Plus: Statistical revisions, BPA Equals: Imports of goods and services, I-O	507,050 6,781 8,875 -952 490,442

NIPA National income and product accounts

in producers' and purchasers' prices. It provides a bridge between I-O commodities in producers' prices and NIPA final demand categories in purchasers' prices. For each I-O commodity within a category of NIPA final demand, the table shows the transportation costs and trade margins included in the purchasers' prices.

Table D shows the I-O commodity composition in 1987 of each NIPA category of personal consumption expenditures (NIPA table 2.4) in producers' and purchasers' prices. It provides a bridge between I-O commodities in producers' prices and NIPA personal consumption categories in purchasers' prices. For each I-O commodity within a NIPA category, the table shows the transportation costs and trade margins included in the purchasers' prices.

Table E shows the I-O commodity composition in 1987 of each NIPA category of producers' durable equipment purchases (NIPA table 5.8) in producers' and purchasers' prices. It provides a bridge between I-O commodities in producers' prices and NIPA producers' durable equipment categories in purchasers' prices. For each commodity, the table shows the transportation costs and trade margins included in the purchasers' prices. This table is useful for analyses relating the effects of changes in investment on industry and commodity output.

Table F reconciles the I-O estimates of exports and imports of goods and services with those in the NIPA's. The same adjustments are made for both exports and imports; therefore, there is no net effect on total GDP. The adjustments are necessary because the NIPA's—unlike the I-O accounts—include in imports the U.S. merchandise that is returned to the United States from other countries and in exports the foreign merchandise that is reexported from the United States to other countries. The NIPA's also exclude definitional and statistical revisions to the balance of payments accounts between NIPA comprehensive revisions.

Appendixes A and B and tables 1 and 2 follow.

BPA Balance of payments accounts

I-O Input-output accounts

^{21.} U.S. merchandise returned consists of domestically produced goods that were previously exported to other countries for processing or assembly, or both, and then returned to the United States. An example would be articles of metal that are manufactured in the United States, then exported for further processing abroad, and then returned to the United States for more processing. Reexports consists of commodities of foreign origin that were previously imported into the United States and then exported from the United States in substantially the same condition as when imported. An example would be imported foreign-made monitors that are purchased by U.S. personal computer manufacturers, joined with U.S.-made consoles, and then exported to a third foreign country.

Appendix A.—Chronological List of Selected Survey of Current Business Input-Output Articles

- Morris R. Goldman, Martin L. Marimont, and Beatrice N. Vaccara, "The Interindustry Structure of the United States: A Report on the 1958 Input-Output Study," November 1964.
- 2. "Industrial Impact of the 1966 Housing and Commercial Building Decline," November 1966.
- 3. "Input-Output Structure of the U.S. Economy: 1963," November 1969.
- 4. Allan H. Young and Claiborne M. Ball, "Industrial Impacts of Residential Construction and Mobile Home Production," October 1970.
- 5. Beatrice N. Vaccara, "An Input-Output Method for Long-Range Economic Projections," July 1971, Part I.
- 6. Philip M. Ritz and Eugene P. Roberts, "Industry Inventory Requirements: An Input-Output Analysis," November 1973.

- 7. "The Input-Output Structure of the U.S. Economy: 1967," February 1974.
- 8. Irving Stern, "Industry Effects of Government Expenditures: An Input-Output Analysis," May 1975.
- 9. Philip M. Ritz, "The Input-Output Structure of the U.S. Economy, 1972," February 1979.
- 10. Philip M. Ritz, Eugene P. Roberts, and Paula C. Young, "Dollar-Value Tables for the 1972 Input-Output Study," April 1979.
- 11. "The Input-Output Structure of the U.S. Economy, 1977," May 1984.
- 12. "Benchmark Input-Output Accounts for the U.S. Economy, 1982," July 1991.
- 13. "Annual Input-Output Accounts of the U.S. Economy, 1987," April 1992.

[The titles in boldface represent the industries used for the summary version of the 1987 tables. An asterisk preceding an sic code indicates that the sic industry is included in more than one 1-0 industry. For a description of the systems used in the 1-0 accounts, see the section "Definitions and conventions for classification."]

	I-O industry number and title	Related 1987 SIC codes	I-O industry number and title Related 1987 SIC codes
	AGRICULTURE, FORESTRY, AND FISHERIES		14 Food and kindred products:
		·	14.0101 Meat packing plants
1	Livestock and livestock products:	004 *040 *0050 *000	14.0102 Sausages and other prepared meat products
	1.0100 Dairy farm products	024,*019, *0259, *029 0251-3, *0259, *019,	14.0105 Poultry slaughtering and processing
	1.0200 1 outly and oggo	*0219, *029	14.0300 Natural, processed, and imitation cheese
	1.0301 Meat animals	*0219, *029 0211-4, *0219, *019,	14.0400 Dry, condensed, and evaporated dairy products
	1.0302 Miscellaneous livestock	*0259, *029 0271-3, *0279, *019,	14.0500 Ice cream and frozen desserts
	1.0302 Miscellaneous livestock	*0219, *0259, *029	14.0600 Fluid milk
		0210, 0200, 020	14.0700 Carined and cured list and searous
2	Other agricultural products:	0404 *040 *0040	14.0900 Canned fruits, vegetables, preserves, jams, and jellies . 2033
	2.0100 Cotton	0131, *019, *0219, *0259, *029	14.1000 Dehydrated fruits, vegetables, and soups
	2.0201 Food grains	*011, *019, *0219,	14.1100 Pickles, sauces, and salad dressings
	·	*0259. *029	14.1200 Frepared flesh of flozen lish and sealouds
	2.0202 Feed grains	*011, *0139, *019,	14.1302 Frozen specialties, n.e.c. 2038
	2.0203 Grass seeds	*0219, *0259, *029 *0139, *019, *0219,	14.1401 Flour and other grain mill products
	2.0200 Olass seeds	*0259, *029	14.1402 Cereal breakfast foods
	2.0300 Tobacco	0132, *019, *0219,	14.1403 Prepared flour mixes and doughs
	0.0404 . F. ''	*0259, *029	14.1502 Prepared feeds, n.e.c. 2048
	2.0401 Fruits	0171-2, 0174-5, *0179, *019, *0219,	14.1600 Rice milling
		*0259, *029	14.1700 Wet corn milling
	2.0402 Tree nuts	0173, *0179, *019,	14.1801 Bread, cake, and related products
	2.0504 Vegetables	*0219, *0259, *029	14.1803 Frozen bakery products, except bread
	2.0501 Vegetables	0134, *0139, 016, *019, *0219, *0259,	14.1900 Sugar
		*029, *0119	14.2001 Candy and other confectionery products
	2.0502 Sugar crops	0133, *019, *0219,	14.2002 Chocolate and cocoa products
	0.0500 M'	*0259, *029	14.2004 Salted and roasted nuts and seeds
	2.0503 Miscellaneous crops	*0119, *0139, *019, *0219, *0259, *029	14.2101 Malt beverages
	2.0600 Oil bearing crops	0116, *0119, *0139,	14.2102 Malt
	0 1	*0219, *0259, *029	14.2103 Wines, brandy, and brandy spirits
	2.0701 Forest products	*018, *019, *0219,	14.2200 Bottled and canned soft drinks
	2.0702 Greenhouse and nursery products	*0259, *029 *018, *019, *0219,	14.2300 Flavoring extracts and flavoring syrups, n.e.c. 2087
	2.0702 Oreenhouse and hursery products	*0259, *029	14.2400 Cottonseed oil mills
_		,	14.2500 Soybean oil mills
3	Forestry and fishery products: 3.0001 Forestry products	081, 083, 097	14.2700 Animal and marine fats and oils
	3.0002 Commercial fishing	091	14.2800 Roasted coffee
	·		14.2900 Edible fats and oils, n.e.c
4	Agricultural, forestry, and fishery services:	0254, *0279, 071-2,	14.3000 Manufactured ice
	4.0001 Agricultural, forestry, and fishery services	075-6, 085, 092	14.3201 Potato chips and similar snacks
	4.0002 Landscape and horticultural services	078	14.3202 Food preparations, n.e.c
	MINING		15 Tobacco products:
	MINING		15.0101 Cigarettes
5+6	Metallic ores mining:		15.0102 Cigars
	5.0000 Iron and ferroalloy ores	101, 106	15.0103 Chewing and smoking tobacco and snuff
	6.0100 Copper ore	102 103-4, 109, *108	15.0200 Tobacco sternining and redrying
	0.0200 Nonierious metal ores, except copper	103-4, 103, 100	16 Broad and narrow fabrics, yarn and thread mills:
7	Coal mining:		16.0100 Broadwoven fabric mills and fabric finishing plants 221-3, 2261-2
	7.0000 Coal	122-3, *124	16.0200 Narrow fabric mills
8	Crude petroleum and natural gas:		16.0400 Thread mills
	8.0000 Crude petroleum and natural gas	131-2, *138	
9+10	Nonmetallic minerals mining:		17 Miscellaneous textile goods and floor coverings: 17.0100 Carpets and rugs
J+ 10	9.0001 Dimension, crushed and broken stone	141-2	17.0100 Carpets and rugs
	9.0002 Sand and gravel	144	17.0700 Tire cord and fabrics
	9.0003 Clay, ceramic, and refractory minerals	145	17.0900 Cordage and twine
	9.0004 Nonmetallic mineral services and miscellaneous minerals 10.0000 Chemical and fertilizer minerals	*148, 149 147	17.1001 Nonwoven fabrics
		1	
	CONSTRUCTION		18 Apparel:
11+12	Construction:		18.0101 Women's hosiery, except socks
_	11.0000 New and maintenance and repair	15-17, 6552	18.0201 Knit outerwear mills
	11.0601 Petroleum and natural gas well drilling	*138	18.0202 Knit underwear and nightwear mills
	11.0602 Petroleum, natural gas, and solid mineral exploration 11.0603 Access structures for solid mineral development	*138, *108, *124, *148 *108, *124, *148	18.0203 Knitting mills, n.e.c
	12.0215 Maintenance and repair of petroleum and natural gas	*138	18.0300 Knit fabric mills
	wells.		
	MANUFACTURING		19 Miscellaneous fabricated textile products:
	MANU AUTUNING		19.0100 Curtains and draperies
13	Ordnance and accessories:		19.0200 Houselumishings, n.e.c. 2392 19.0301 Textile bags
	13.0100 Guided missiles and space vehicles	3761	19.0302 Canvas and related products
	13.0200 Ammunition, except for small arms, n.e.c.	3483 3795	19.0303 Pleating and stitching
	13 (13(1)) Lanks and tank components		19.0304 Automotive and apparel trimmings
	13.0300 Tanks and tank components	3484	
		3484 3482	19.0305 Schiffli machine embroideries 2397 19.0306 Fabricated textile products, n.e.c. 2399

	I-O industry number and title	Related 1987 SIC codes		I-O industry number and title	Related 1987 SI codes
20+21	Lumber and wood products:		31	Petroleum refining and related products:	
	20.0100 Logging	241 2421		31.0101 Petroleum refining	
	20.0300 Hardwood dimension and flooring mills			31.0103 Products of petroleum and coal, n.e.c.	2992
	20.0400 Special product sawmills, n.e.c.	2429		31.0200 Asphalt paving mixtures and blocks	2951
	20.0501 Millwork	2431		31.0300 Asphalt felts and coatings	2952
	20.0502 Wood kitchen cabinets		1	Bubbas and missallaneous planting and dusts	
	20.0600 Veneer and plywood		32	Rubber and miscellaneous plastics products: 32.0100 Tires and inner tubes	301
	20.0701 Structural wood members, n.e.c	2439		32.0200 Rubber and plastics footwear	302
	20.0703 Mobile homes	2451		32.0300 Fabricated rubber products, n.e.c.	306
	20.0800 Wood preserving	2491		32.0400 Miscellaneous plastics products, n.e.c	308
	20.0901 Wood pallets and skids	2448		32.0500 Rubber and plastics hose and belting	3052
	20.0903 Wood products, n.e.c.			32.0600 Gaskets, packing, and sealing devices	3053
	20.0904 Reconstituted wood products		33+34	Footwear, leather, and leather products:	
	21.0000 Wood containers, n.e.c.	2441, 2443		33.0001 Leather tanning and finishing	311
2+23	Furniture and fixtures:			34.0100 Boot and shoe cut stock and findings	313 3143-4, 3149
	22.0101 Wood household furniture, except upholstered			34.0201 Shoes, except rubber	
	22.0102 Household furniture, n.e.c.			34.0301 Leather gloves and mittens	315
	22.0103 Wood television and radio cabinets			34.0302 Luggage	316
	22.0300 Metal household furniture			34 0303 Women's handbags and purses	3171
	22.0400 Mattresses and bedsprings			34.0304 Personal leather goods, n.e.c.	3172
	23.0100 Wood office furniture	2521		34.0305 Leather goods, n.e.c	319
	23.0200 Office furniture, except wood		35	Glass and glass products:	
	23.0300 Public building and related furniture		""	35.0100 Glass and glass products, except containers	321, 3229, 323
	23.0400 Wood partitions and fixtures			35.0200 Glass containers	
	23.0600 Drapery hardware and window blinds and shades		26	Stone and alay products:	
	23.0700 Furniture and fixtures, n.e.c	2599	36	Stone and clay products: 36.0100 Cement, hydraulic	324
				36.0200 Brick and structural clay tile	3251
4	Paper and allied products, except containers:	004		36.0300 Ceramic wall and floor tile	3253
	24.0100 Pulp mills	261		36.0400 Clay retractories	3255
	24.0500 Sanitary paper products			36.0500 Structural clay products, n.e.c.	
	24.0701 Paper coating and glazing			36.0600 Vitreous china plumbing fixtures	
	24.0702 Bags, except textile	2673-4		36.0702 Fine earthenware table and kitchenware	3263
	24.0703 Die-cut paper and paperboard and cardboard	2675		36.0800 Porcelain electrical supplies	3264
	24.0705 Stationery, tablets, and related products	2678		36.0900 Pottery products, n.e.c.	3269
	24.0706 Converted paper products, n.e.c			36.1000 Concrete block and brick	3271
	2 1.0000 Tapor and paporboard mile	202 0		36.1100 Concrete products, except block and brick	
5	Paperboard containers and boxes:			36.1300 Lime	
	25.0000 Paperboard containers and boxes	265		36.1400 Gypsum products	
c A	Newspapers and neviadicals.			36.1500 Cut stone and stone products	328
6A	Newspapers and periodicals: 26.0100 Newspapers	271		36.1600 Abrasive products	
	26.0200 Periodicals			36.1700 Asbestos products	
	20.0200 1 0.104.0410			36.2000 Mineral wool	3296
6B	Other printing and publishing:			36.2100 Nonclay refractories	
	26.0301 Book publishing	2731		36.2200 Nonmetallic mineral products, n.e.c	
	26.0302 Book printing		II		
	26.0501 Commercial printing	275	37	Primary iron and steel manufacturing: 37.0101 Blast furnaces and steel mills	3312
	26.0601 Manifold business forms	276		37.0102 Electrometallurgical products, except steel	
	26.0602 Blankbooks, looseleaf binders and devices			37.0103 Steel wiredrawing and steel nails and spikes	3315
	26.0700 Greeting cards	277		37.0104 Cold-rolled steel sheet, strip, and bars	
	26.0802 Bookbinding and related work			37.0105 Steel pipe and tubes	
	26.0806 Platemaking and related services			37.0200 Iron and steel foundries	
	20.0000 Tratemaking and related 30171003	2730		37.0300 Iron and steel forgings	
'Α	Industrial and other chemicals:			37.0402 Primary metal products, n.e.c.	
	27.0100 Industrial inorganic and organic chemicals	281 (excl. *2819),	1		
	27.0401 Gum and wood chemicals	2865, 2869 2861	38	Primary nonferrous metals manufacturing:	0004
	27.0401 Gum and wood chemicals			38.0100 Primary smelting and refining of copper	
	27.0402 Auriesives and sealants			38.0400 Primary aluminum	
	27.0404 Printing ink			38.0600 Secondary nonferrous metals	
	27.0405 Carbon black	2895		38.0700 Rolling, drawing, and extruding of copper	
	27.0406 Chemicals and chemical preparations, n.e.c	2899		38.0800 Aluminum rolling and drawing	3353-5
7D	Agricultural fortilizara and abamicala.			38.0900 Nonferrous rolling and drawing, n.e.c.	3356
7B	Agricultural fertilizers and chemicals: 27.0201 Nitrogenous and phosphatic fertilizers	2873-4		38.1000 Nonferrous wiredrawing and insulating	3357
	27.0207 Nitrogenous and phosphatic refulzers			38.1100 Aluminum castings	
	27.0300 Pesticides and agricultural chemicals, n.e.c.			38.1300 Nonferrous castings, n.e.c.	3364, 3369
	,,,			38.1400 Nonferrous forgings	
3	Plastics and synthetic materials:	0004	1	3 0	
	28.0100 Plastics materials and resins		39	Metal containers:	0444
	28.0200 Synthetic rubber			39.0100 Metal cans	
	28.0300 Cellulosic manmade fibers			39.0200 Metal shipping barrels, drums, kegs, and pails	3412
	2010 .00 marimado organio niboro, execpt delidiosio		40	Heating, plumbing, and fabricated structural metal products:	
Α	Drugs:			40.0100 Enameled iron and metal sanitary ware	
	29.0100 Drugs	283		40.0200 Plumbing fixture fittings and trim	3432
	Oleanian and fallet assessed as			40.0300 Heating equipment, except electric and warm air	3433
В	Cleaning and toilet preparations:	2044		furnaces.	2444
	29.0201 Soap and other detergents			40.0400 Fabricated structural metal	3441 3442
	29.0202 Polishes and sanitation goods			40.0600 Fabricated plate work (boiler shops)	
	29.0300 Toilet preparations			40.0700 Sheet metal work	
	LLL	1		40.0800 Architectural and ornamental metal work	
	Paints and allied products:	1		40.0901 Prefabricated metal buildings and components	3448
)	30.0000 Paints and allied products			40.0902 Miscellaneous structural metal work	3449

	I-O industry number and title	Related 1987 SIC codes		I-O industry number and title	Related 1987 SI codes
11	Screw machine products and stampings:			54.0400 Electric housewares and fans	
	41.0100 Screw machine products, bolts, etc.			54.0500 Household vacuum cleaners	
	41.0201 Automotive stampings	3465 3466		54.0700 Household appliances, n.e.c	3639
	41.0203 Metal stampings, n.e.c.		55	Electric lighting and wiring equipment:	
1				55.0100 Electric lamp bulbs and tubes	3641
2	Other fabricated metal products: 42.0100 Cutlery	3421		55.0200 Lighting fixtures and equipment	
	42.0201 Hand and edge tools, except machine tools and	3423			00101
	handsaws.	0.405	56	Audio, video, and communication equipment: 56.0100 Household audio and video equipment	3651
	42.0202 Saw blades and handsaws			56.0200 Prerecorded records and tapes	
	42.0401 Plating and polishing	3471		56.0300 Telephone and telegraph apparatus	3661
	42.0402 Coating, engraving, and allied services, n.e.c	3479		56.0500 Communication equipment	3663, 3669
	42.0500 Miscellaneous fabricated wire products		57	Electronic components and accessories:	
	42.0700 Steel springs, except wire	3491-2, 3494, 3498		57.0100 Electron tubes	
	42.1000 Metal toil and leaf	3497		57.0200 Semiconductors and related devices	
	42.1100 Fabricated metal products, n.e.c	3499		'	3072, 3073-9
3	Engines and turbines:		58	Miscellaneous electrical machinery and supplies:	0004
-	43.0100 Turbines and turbine generator sets	3511		58.0100 Storage batteries	
	43.0200 Internal combustion engines, n.e.c	3519		58.0400 Electrical equipment for internal combustion engines	3694
4+45	Farm, construction, and mining machinery:			58.0600 Magnetic and optical recording media	3695
	44.0001 Farm machinery and equipment	3523		58.0700 Electrical machinery, equipment, and supplies, n.e.c	3699
	44.0002 Lawn and garden equipment	3524	59A	Motor vehicles (passenger cars and trucks):	
	45.0100 Construction machinery and equipment	3531 3532		59.0301 Motor vehicles and passenger car bodies	3711
	45.0300 Oil and gas field machinery and equipment		59B	Truck and bus bodies, trailers, and motor vehicles parts:	
	, , , , ,		""	59.0100 Truck and bus bodies	
6	Materials handling machinery and equipment: 46.0100 Elevators and moving stairways	3534		59.0200 Truck trailers	
	46.0200 Conveyors and conveying equipment	3535		59.0302 Motor vehicle parts and accessories	3714
	46.0300 Hoists, cranes, and monorails	3536	60	Aircraft and parts:	
	46.0400 Industrial trucks and tractors	3537		60.0100 Aircraft	3721
7	Metalworking machinery and equipment:			60.0200 Aircraft and missile engines and engine parts	
	47.0100 Machine tools, metal cutting types	3541			0720, 0700
	47.0200 Machine tools, metal forming types		61	Other transportation equipment: 61.0100 Ship building and repairing	3731
	47.0300 Special dies and tools and machine tool accessories 47.0401 Power-driven handtools			61.0100 Ship building and repairing	3732
	47.0402 Rolling mill machinery and equipment			61.0300 Railroad equipment	374
	47.0404 Electric and gas welding and soldering equipment	3548		61.0500 Motorcycles, bicycles, and parts	
	47.0405 Industrial patterns	3543		61.0601 Travel trailers and campers	
	47.0500 Metalworking machinery, n.e.c.	3549		61.0700 Transportation equipment, n.e.c.	
8	Special industry machinery and equipment:	1		1 11 /	
	48.0100 Food products machinery		62	Scientific and controlling instruments: 62.0101 Search and navigation equipment	381
	48.0300 Woodworking machinery			62.0102 Laboratory apparatus and furniture	
	48.0400 Paper industries machinery	3554		62.0200 Mechanical measuring devices	3823-4, 3829
	48.0500 Printing trades machinery and equipment			62.0300 Environmental controls	3822
	48.0600 Special industry machinery, n.e.c.	3559		62.0400 Surgical and medical instruments and apparatus	
9	General industrial machinery and equipment:			62.0600 Dental equipment and supplies	3843
	49.0100 Pumps and compressors			62.0700 Watches, clocks, watchcases, and parts	387
	49.0200 Ball and roller bearings			62.0800 X-ray apparatus and tubes	3844 3845
	49.0500 Mechanical power transmission equipment	0500 0500		62.1000 Laboratory and optical instruments	3826-7
	49.0600 Industrial process furnaces and ovens	3567		62.1100 Instruments to measure electricity	
	49.0700 General industrial machinery and equipment, n.e.c		63	Ophthalmic and photographic equipment:	
	49.0800 Packaging machinery	3565	"	63.0200 Ophthalmic goods	385
0	Miscellaneous machinery, except electrical:			63.0300 Photographic equipment and supplies	
	50.0100 Carburetors, pistons, rings, and valves		64	Miscellaneous manufacturing:	
	50.0200 Fluid power equipment	3593-4 3596	"	64.0101 Jewelry, precious metal	3911
	50.0400 Industrial and commercial machinery and equipment,	3599		64.0102 Jewelers' materials and lapidary work	3915
	n.e.c.			64.0104 Silverware and plated ware	
1	Computer and office equipment:			64.0105 Costume jewelry	
1	Computer and office equipment: 51.0102 Calculating and accounting machines	3578		64.0301 Games, toys, and children's vehicles	3944
	51.0103 Electronic computers	3571		64.0302 Dolls and stuffed toys	3942
	51.0104 Computer peripheral equipment	3572, 3575, 3577		64.0400 Sporting and athletic goods, n.e.c.	
	51.0400 Office machines, n.e.c.	3579		64.0501 Pens, mechanical pencils, and parts	3951 3952
2	Service industry machinery:			64.0503 Marking devices	3953
	52.0100 Automatic vending machines			64.0504 Carbon paper and inked ribbons	3955
	52.0200 Commercial laundry equipment			64.0700 Fasteners, buttons, needles, and pins	
	52.0400 Measuring and dispensing pumps			64.0900 Hard surface floor coverings, n.e.c.	
	52.0500 Service industry machinery, n.e.c.			64.1000 Burial caskets	3995
2				64.1100 Signs and advertising specialties	
3	Electrical industrial equipment and apparatus: 53.0200 Power, distribution, and specialty transformers	3612	11	64.1200 Manufacturing industries, n.e.c	*3999
	53.0300 Switchgear and switchboard apparatus	3613		TRANSPORTATION, COMMUNICATIONS, AND UTILITIES	
	53.0400 Motors and generators	3621	1		
	53.0500 Relays and industrial controls		65A	Railroads and related services; passenger ground	
	53.0700 Carbon and graphite products			transportation: 65.0100 Railroads and related services	40, 474, *4789
	11 ,	1		65.0200 Local and suburban transit and interurban highway	40, 474, 4769
ļ	Household appliances:	3631		passenger transportation.	
	54.0100 Household cooking equipment		65B	Motor freight transportation and warehousing:	

	J			tilliark input-Output Accounts—Co.	
	I-O industry number and title	Related 1987 SIC codes		I-O industry number and title	Related 1987 SIC codes
65C	Water transportation: 65.0400 Water transportation	44	75	Automotive repair and services: 75.0001 Automotive rental and leasing, without drivers	751
65D	Air transportation: 65.0500 Air transportation	45		75.0002 Automotive repair shops and services	753, 7549 752, 7542
65E 66	Pipelines, freight forwarders, and related services: 65.0600 Pipelines, except natural gas	46 473, 4783, 4785, *4789 472 481-2, 484, 489	76	Amusements: 76.0101 Motion picture services and theaters	781-3 784 792 793 7941 7948 7991, 7997
67	Radio and TV broadcasting: 67.0000 Radio and TV broadcasting	483		recreation clubs. 76.0206 Other amusement and recreation services	791, 7992-3, 7996, 7999
68A	Electric services (utilities): 68.0100 Electric services (utilities)	491, *493	77A	Health services:	1999
68B	Gas production and distribution (utilities): 68.0200 Gas production and distribution (utilities)			77.0100 Doctors and dentists	801-3, 8041 806 805
68C	Water and sanitary services: 68.0301 Water supply and sewerage systems 68.0302 Sanitary services, steam supply, and irrigation systems	494, 4952 4953, 4959, 496-7, *493	77B	77.0302 Other medical and health services, including veterinarians. Educational and social services, and membership organizations: 77.0401 Elementary and secondary schools	074, 8043, 8049, 807-9
	WHOLESALE AND RETAIL TRADE		ri	77.0402 Colleges, universities, and professional schools	822 823-4, 829
69A	Wholesale trade: 69.0100 Wholesale trade	50, 51		77.0501 Business associations and professional membership organizations. 77.0502 Labor organizations, civic, social, and fraternal	861-2 863-4
69B	Retail trade: 69.0200 Retail trade, except eating and drinking	52-7 (excl. *546), 59, *7389, 8042		associations. 77.0504 Other membership organizations	866 84, 865, 869, 8733,
	FINANCE, INSURANCE, AND REAL ESTATE		ll ri	77.0600 Job training and related services	6732 833
70A	Finance: 70.0100 Banking 70.0200 Credit agencies other than banks	61, 67 (excl. 6732)		77.0700 Child day care services 77.0800 Residential care	835 836 832, 839
70D	70.0300 Security and commodity brokers	62		GOVERNMENT ENTERPRISES	
70B	Insurance: 70.0400 Insurance carriers 70.0500 Insurance agents, brokers, and services		78	Federal Government enterprises: 78.0100 U.S. Postal Service 78.0200 Federal electric utilities	43 (¹) (¹)
71A	Owner-occupied dwellings: 71.0100 Owner-occupied dwellings		79	78.0500 Other Federal Government enterprises	(1)
71B	Real estate and royalties: 71.0201 Real estate agents, managers, operators, and lessors 71.0202 Royalties	65 (excl. 6552)	'	79.0100 State and local government electric utilities	(1) (1) (1)
	SERVICES			SPECIAL INDUSTRIES	
72A	Hotels and lodging places: 72.0100 Hotels and lodging places	70	80	Noncomparable imports: 80.0000 Noncomparable imports	(2)
72B	Personal and repair services (except auto): 72.0201 Laundry, cleaning, garment services, and shoe repair 72.0202 Funeral service and crematories 72.0203 Portrait photographic studios, and other miscellaneous personal services. 72.0204 Electrical repair shops	726 722, 729 762 763-4	81 82 83	Scrap, used and secondhand goods: 81.0001 Scrap 81.0002 Used and secondhand goods General government industry: 82.0000 General government industry Rest of the world adjustment to final uses:	(3) (3) (4)
73A	72.0300 Beauty and barber shops Computer and data processing services:	723-4	84	83.0001 Rest of the world adjustment to final uses	(5)
73B	73.0104 Computer and data processing services		85	84.0000 Household industry	(6)
	73.0301 Legal services	81 871 872, 89	65	85.0000 Inventory valuation adjustment	(7)
	miscellaneous services, n.e.c.	0.2, 00		VALUE ADDED	/8\
73C	Other business and professional services, except medical: 73.0101 Miscellaneous repair shops	769 734 736 874, 8731-2, 8734		88.0000 Compensation of employees 89.0000 Indirect business tax and nontax liability 90.0000 Other value added FINAL USES	(8) (8) (8)
	research labs. 73.0106 Detective and protective services	7381-2 735 7384, 7335-6 732, 7383, *7389, 7331, 7334, 7338		91.0000 Personal consumption expenditures 92.0000 Gross private fixed investment	(9) (9) (9) (9) (9) (9) (9)
73D	Advertising: 73.0200 Advertising	731		97.0000 Federal Government purchases, nondefense 98.0001 State and local government purchases, elementary and	(9)
74	Eating and drinking places: 74.0000 Eating and drinking places	58		secondary public school systems. 98.0002 State and local government purchases, public educational facilities beyond high school.	(9)

	•				• •	
	I-O industry number and title	Related 1987 SIC codes			I-O industry number and title	Related 1987 SIC codes
	98.0003 State and local government purchases, other education	(9)		11.0204	Garages and service stations	
	and libraries. 99.1001 State and local government purchases, hospitals and	(9)		11.0205 11.0206	Stores and restaurants	
	categorical health programs.			11.0200	Educational buildings	
	99.1002 State and local government purchases, public welfare	(9)		11.0231	Hospitals	
	institutions and activities.	(0)		11.0232	Residential institutions and other health-related facilities	
	99.1003 State and local government purchases, public sewerage systems, capital account only.	(9)		11.0241 11.0250	Amusement and recreation buildings	
	99.1004 State and local government purchases, sanitation	(9)		11.0230	Other nonfarm buildings Telephone and telegraph facilities	
	99.2001 State and local government purchases, police	(9) (9) (9)		11.0302	Railroads	
	99.2002 State and local government purchases, fire fighting	(9)		11.0303	Electric utility facilities	
	organizations and auxiliary services. 99.2003 State and local government purchases, correctional	(9)		11.0304	Gas utility facilities	
	institutions.	()		11.0305 11.0306	Petroleum pipelines	
	99.3001 State and local government purchases, public highways	(9)		11.0300	Sewer system facilities	
	(excluding non-capital expenditures of toll roads).	(0)		11.0308	Local transit facilities	
	99.3002 State and local government purchases, waterports and airports, capital account only.	(9)		11.0400	Highways and streets	
	99.3003 State and local government purchases, government-	(9)		11.0501	Farm housing units and additions and alterations	
	operated transit systems, capital account only.	' '		11.0502 11.0601	Farm service facilities Petroleum and natural gas well drilling	
	99.3004 State and local government purchases, other commerce	(9)		11.0602	Petroleum, natural gas, and solid mineral exploration	
	activities n.e.c., capital account only. 99.3005 State and local government purchases, gas and electric	(9)		11.0603	Access structures for solid mineral development	
	utilities, capital account only.	()		11.0701	Military facilities	
	99.3006 State and local government purchases, government-	(9)		11.0702 11.0703	Dams and reservoirs Other conservation and development facilities	
	operated water supply facilities, capital account only.			11.0703	Other nonbuilding facilities	
	99.3007 State and local government purchases, redevelopment projects, capital account only.	(9)	۱.,		-	
	99.3008 State and local government purchases, natural and	(9)	12	Maintena 12.0100	ance and repair construction: Nonfarm residential structures	
	agricultural resources and recreation facilities.	()		12.0100	Other nonfarm buildings	
	99.3009 State and local government purchases, other general	(9)		12.0202	Farm residential buildings	
	government activities, n.e.c.			12.0203	Farm service facilities	
	ADDENDUM: Special commodity groupings			12.0204 12.0205	Telephone and telegraph facilities	
		ŀ		12.0205	Electric utility facilities	
11	New construction:			12.0207	Gas utility facilities	
	11.0101 Residential 1-unit structures, nonfarm			12.0208	Petroleum pipelines	
	11.0102 Residential 2-4 unit structures, nonfarm			12.0209	Water supply facilities	
	11.0104 Residential high-rise apartments			12.0210 12.0211	Sewer facilities	
	11.0105 Residential additions and alterations, nonfarm			12.0211	Military facilities	
	11.0106 Hotels and motels			12.0213	Conservation and development facilities	
	11.0107 Dormitories and other group housing			12.0214	Highways and streets	
	11.0202 Office buildings			12.0215 12.0216	Petroleum and natural gas wells Other nonbuilding facilities	
	11.0203 Warehouses			12.0210	Other nonbuilding lacillies	
		1	1			l

Although the SIC assigns the same codes to activities of both private firms and government agencies, SIC codes in the I-O accounts are used only for classifying private activities.

 Noncomparable imports include imported goods and services that are not commercially produced in the United States, and goods and services that are produced abroad and used abroad by U.S. residents—for example, defense spending abroad.

 Industry output is zero because there is no primary producing industry. Scrap is a secondary product of many industries, and used goods are sales and purchases typically between final uses. The sales are shown as negative values in the use table.

 Industry output is defined as the compensation of general government employees except for those engaged

in construction work; their compensation is included in the construction industry. It also excludes the compensation in construction work; their compensation is included in the construction industry. It also excludes the compensation of employees of government enterprises.

5. The commodity entries include adjustments to personal consumption expenditures and government purchases that eliminate items that are actually exports.

6. Industry output is defined as the compensation of domestic household workers.

7. The inventory valuation adjustment converts the inventory changes based on withdrawals valued primarily at historical cost as reported by most businesses to replacement cost, the valuation used in the I-O accounts.

8. There are no related SIC codes since these categories are not industries, but are categories of final uses.

Table 1.—The Make of Commodities

									[Millions of				
umber	For the distribution of industries producing a commodity, read the column for that commodity For the distribution of commodities produced by an industry, read the row for that industry	Livestock and livestock	Other agri- cultural	Forestry and fishery	Agri- cultural, forestry,	Metallic ores	Coal mining	Crude petroleum and natural	Non- metallic minerals	New con- struction	Maintenance and repair		
ndustry number		products	products	products	and fishery services	mining	, , , , , , , , , , , , , , , , , , ,	gas	mining		construction		
Pul —	Commodity number	1	2	3	4	5+6	7	8	9+10	11	12		
1 2	Livestock and livestock products Other agricultural products	83,609	82.183	243 1.788	494 974								
3	Forestry and fishery products Agricultural, forestry, and fishery services			7,456	22,201								
5+6	Metallic ores mining					6,800	(*)		6				
7 8	Coal mining Crude petroleum and natural gas						25,447	67,947	1				
9+10 11+12	Nonmetallic minerals mining					3	4		11,321	445,347	173,466		
13 14	Ordnance and accessories												
15 16	Tobacco products												
17 18	Miscellaneous textile goods and floor coverings Apparel												
19 20+21	Miscellaneous fabricated textile products												
22+23	Lumber and wood products												
24 25	Paper and allied products, except containers Paperboard containers and boxes												
26A 26B	Newspapers and periodicals												
27A 27B	Industrial and other chemicals							2	8 1				
28 29A	Plastics and synthetic materials Drugs												
29B	Cleaning and toilet preparations												
30 31	Paints and allied products							1	140				
32 33+34	Rubber and miscellaneous plastics products												
35 36	Glass and glass products								402				
37 38	Primary iron and steel manufacturing								1				
39 40	Metal containers												
41	Screw machine products and stampings												
42 43	Other fabricated metal products												
44+45 46	Farm, construction, and mining machinery												
47 48	Metalworking machinery and equipment												
49 50	General industrial machinery and equipment Miscellaneous machinery, except electrical												
51 52	Computer and office equipment Service industry machinery												
53 54 55	Electrical industrial equipment and apparatus Household appliances												
55	Electric lighting and wiring equipment												
56 57	Audio, video, and communication equipment												
58 59A	Miscellaneous electrical machinery and supplies												
59B 60	Truck and bus bodies, trailers, and motor vehicles parts												
61 62	Other transportation equipment												
63 64	Ophthalmic and photographic equipment Miscellaneous manufacturing												
65A	Railroads and related services; passenger ground transportation												
65B 65C	Motor freight transportation and warehousing												
65D 65E	Air transportation												
66 67	Communications, except radio and TV												
68A 68B	Electric services (utilities) Gas production and distribution (utilities)							59					
68C 69A	Water and sanitary services												
69B 70A	Retail trade Finance												
70B	Insurance												
71A 71B	Owner-occupied dwellings												
72A 72B	Hotels and lodging places												
73A 73B 73C 73D	Computer and data processing services Legal, engineering, accounting, and related services												
73C 73D	Other business and professional services, except medical Advertising												
74 75	Eating and drinking places Automotive repair and services												
76	Amusements												
77A 77B	Health services												
78 79 82	Federal Government enterprises												
84	General government industry												
85 T	Inventory valuation adjustment	83,609	82,183	9,488	23,668	6,802	25,451	68,008	11,884	445,347	173,466		
	. State State of the State of t	05,003	02,103	3,400	25,000	0,002	20,401	00,000	11,004	170,041	. 7 3,700		

by Industries, 1987 Benchmark

at producers' prices]

Ordnance and accessories	Food and kindred products	Tobacco products	Broad and narrow fabrics, yarn and thread mills	Miscel- laneous textile goods and floor coverings	Apparel	Miscel- laneous fabricated textile products	Lumber and wood products	Furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Newspapers and periodicals	Other printing and publishing	Industrial and other chemicals	Agricultural fertilizers and chemicals	stry number
13	14	15	16	17	18	19	20+21	22+23	24	25	26A	26B	27A	27B	npul
accessories	kindred products	products	narrow fabrics, yarn and thread mills	laneous textile goods and floor coverings		laneous fabricated textile products	wood products 20+21 131 (*) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22+23 22+23	and allied products, except containers	containers and boxes	and periodicals	printing and publishing	and other chemicals	fertilizers and chemicals	Jequinu Alisippi Jequin
1 1 38 656 16 1,002 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1	26,381	1 1 6 5 5	43 1 2 2	14 2 132 339	11 11 11 11 11 11 11 11 11 11 11 11 11	29 	155 11 14 14 12 3 10 58 2 48	111 112 100 20 	10 10 10 10 10 10 10 10 10 10 10 10 10 1		13 26 92	4 4 4 4 8 18 8 11 1 7 13 20 223 58 8 8 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-

Table 1.—The Make of Commodities

							ıaı	л с 1.—1	ne make		nodities as of dollars
ndustry number	For the distribution of industries producing a commodity, read the column for that commodity For the distribution of commodities produced by an industry, read the row for that industry	Plastics and synthetic materials	Drugs	Cleaning and toilet preparations	Paints and allied products	Petroleum refining and related products	Rubber and miscel- laneous plastics products	Footwear, leather, and leather products	Glass and glass products	Stone and clay products	Primary iron and steel manu- facturing
Indust	Commodity number	28	29A	29B	30	31	32	33+34	35	36	37
1 2	Livestock and livestock products										
3 4	Forestry and fishery products Agricultural, forestry, and fishery services										
5+6 7	Metallic ores mining Coal mining									1	
8 9+10	Crude petroleum and natural gas Nonmetallic minerals mining					4,162 72				299	4
11+12 13	Construction										1
14 15	Food and kindred products		136	39	2	4	37	84			
16 17	Broad and narrow fabrics, yarn and thread mills	1,663 110					15 132	(*)		3 1	
18 19	Apparel Miscellaneous fabricated textile products Lumber and wood products			1 2			17 17	42 10	(*) 43	1	
20+21 22+23	Furniture and fixtures						76 76	1 3	43 87	29 2	2 14
24 25	Paper and allied products, except containers	4		123	9	1	850 275	1		5	
26A 26B 27A	Newspapers and periodicals Other printing and publishing			1 769	143	922	1 31 297	24	1	4 135	26
27A 27B 28	Industrial and other chemicals All streams and chemicals Plastics and synthetic materials	4,851 213 36,104	489 181 71	80 72	31	3 3	1 686			133	
29A 29B	Prestice and synthetic interestals Drugs Cleaning and toilet preparations	16	34,447 286	719 30,826	37	44	21			1	
30 31	Paints and allied products Petroleum refining and related products	115		21	11,832	7 132,214	7			12 100	
32 33+34	Rubber and miscellaneous plastics products Footwear, leather, and leather products	232	7	11	21	132,214	82,604	23 8.563	39	43	5
35 36 37	Glass and glass products Stone and clay products	4	11	50	2	115	18 99		15,893 49	38 42,323	10
37 38 39	Primary iron and steel manufacturing				1 1	1 1	7 48		1 65	15 38	65,015 494
39 40	Metal containers	7					45 229		18	37	81
41 42	Screw machine products and stampings	3	1	3	1 1	2	97 237	3 12	18 7	2 42	10 109
43 44+45	Engines and turbines					1	11		1	4	14 104
46 47	Materials handling machinery and equipment Metalworking machinery and equipment Special industry machinery and equipment General industrial machinery and equipment	1		1	1		4 53			1 42	3 28
48 49	Special industry machinery and equipment	1	1	3 1	2 3	1	34 56		1	6 12	16 27
50 51	Computer and office equipment				1	1	33 2			4 2	49 17
51 52 53 54 55 56 57	Service industry machinery Electrical industrial equipment and apparatus	9		13		8	68 14 8		1	19	
55 56	Household appliances Electric lighting and wiring equipment	6			27	3	72		25	8	133
57 58	Recomponents and accessories Miscellaneous electrical machinery and supplies	21					66		1	5	2
59A 59B	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts	1			6	13	90		1	11	20
60 61	Aircraft and parts Other transportation equipment	4				1	15			1	2
62 63	Scientific and controlling instruments	3	204 28	84 3	59		132 78	2	41 1	13 2	1
64 65A	Miscellaneous manufacturing			31	2	1	111	14	29	22	7
65B 65C	Motor freight transportation and warehousing										
65D 65E	Air transportation										
66 67	Communications, except radio and TV										
68A 68B	Electric services (utilities) Gas production and distribution (utilities)					20					
68C 69A	Water and sanitary services Wholesale trade										
69B 70A 70B	Retail trade										
71A 71B	Insurance Owner-occupied dwellings Real estate and royalties										
72A 72B	Neal estate and royalies Hotels and lodging places Personal and repair services (except auto)										
73A 73B	Computer and data processing services Legal, engineering, accounting, and related services										
73C 73D	Other business and professional services, except medical Advertising										
74 75	Eating and drinking places Automotive repair and services										
76 77A	Amusements Health services										
77B	Educational and social services, and membership organizations Federal Government enterprises										
78 79 82	State and local government enterprises									33	
84 85	Household industry										
Т	Total commodity output	43,407	35,862	32,872	12,183	137,599	86,851	8,787	16,335	43,340	66,201

by Industries, 1987 Benchmark—Continued

at producers' prices]

Primary nonferrous metals manufacturing	Metal containers	Heating, plumbing, and fabri- cated struc- tural metal products	Screw machine products and stampings	Other fabricated metal products	Engines and turbines	Farm, con- struction, and mining machinery	Materials handling machinery and equipment	Metalworking machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscellaneous machinery, except electrical	Computer and office equipment	Service industry machinery	
38	39	40	41	42	43	44+45	46	47	48	49	50	51	52	
														20+ 22+ 22+ 22 2 2 2 3 33+ 44+
														5
7 4											(*)			.9+
10		12	6	8	4	10	2	7	7	18	7		2 2	11+
									1					
				12		1 2								
(*) 2	1 (*) 6	5 74	1 2 5	24 23 71		(*) 1	1	13 1	2	7		1 1	1 1	20-
1		71		173		4	11	2	2 9	3	2	3 18	14 2	22+
	39		1	3				1	2	2		47		2
78	74	29	6 12	91 3	1	1		2 10	4 24	13 4	1		3	2
				3						1			1	2
				2				2		1			9	2
62	14	108	83	164		1 17	1	329	23	1 26	9	6	1 33	
1		53 42	2	2 14			1	1 1	1	7		E	5	33+
(*) 384 54,561	1	81 76	10 26 55 9	1,818 1,818 173		11 30	i	62 176 180	4 2 4	51 10	4 2	5 37	13	
19	11,544	5 42.018	9 169	2 410	4	68	35	1 68		101			76	
11 94 31	15 30 2	42,018 111 229	169 30,298 159	162 41,845		68 7 62	35 2 18	616 147	32 23 33 5 30 57 171 15,331 208 29 47 33 24 41	l 41	46 366 159 64 93 20 144 51 182 18,546 29 21 13 3 68 83 3 6 15	4 10	4 36	
31		3 62 40 19 44 126 47	1 71	3 80	12,864 202	25.219	136	42 108	5 30	164 35 106	64 93	1	1 33 13	44+
1 21	1	40 19	4 78	23 131	1	35 118	6,839 23 64 54 21	19 19,849	57 171	55 138	20 144	2 8	7	
4 17		126 47	28	90 152	4 106 7	33 147 16	54 54	112 55	15,331	188 21,625	182 182	7 2 11	110 127	
11 11	2	1 1	78 5 28 29 1 1 60 23 36 20 3 3 22 8	90 152 399 24 58 35 15		6		112 55 106 13 5	47 33	68 30 138	29	51,717	12 2 20 906	
18 2 5 21	7	8 28	23 36	35 15	40	3	16 7 1	8 1	24 14	138 94 18	13	6 30	20,906 15 222	
21 15 54		164 8 28 10 5 7 4 8 54 51 52 27	20 3	109 12		1 4	3 6	9	8	1	68	19 127	1	
54 253		7 4	22 8	95 10		2		11 5	94 4	3 6	6 15	1,711 81	2 3	
44		54 54	438 105 17	371 110	9 609 440	12 79 2 77	1 57 47	5 29 19 19	7 60	1 152 16	234	1 11	62 1	5
9		52 27	17 2 12	9 180	70 35	77	3 26	3 14	2 70	84	234 45 14 32 1	1 260	7 14	
5	1	2 14	2 18	2 104		 1		2 6	41 5	8 7	1 4	303	3 2	
														6
														6
														6
														6
														6
														6
														7
														1 7
														66 66 66 66 67 77 77 77 77 77 77
														7
55,746	11,739	43,686	31,826	47,022	14,394	26,005	7,376	22,051	16,411	23,221	19,855	54,431	21,746	1

Table 1.—The Make of Commodities

							1 41	JIO 1. 1	ile Wake		s of dollars
itry number	For the distribution of industries producing a commodity, read the column for that commodity For the distribution of commodities produced by an industry, read the row for that industry	Electrical industrial equipment and apparatus	Household appliances	Electric lighting and wiring equipment	Audio, video, and communi- cation equipment	Electronic components and accessories	Miscel- laneous electrical machinery and supplies	Motor vehicles (passenger cars and trucks)	Truck and bus bodies, trailers, and motor vehicles parts	Aircraft and parts	Other transpor- tation equipment
snpul	Commodity number	53	54	55	56	57	58	59A	59B	60	61
Jaquinu Aisripul 1 2 3 4 4 6 7 8 10 21 11 13 14 15 16 17 18 8 9 + 11 12 12 24 25 6A 6B CA B 29 80 31 12 33 3 35 65 75 88 A 8 9 5 15 12 35 4 15 16 17 18 8 19 12 12 24 25 6A 6B CA B 29 80 31 12 34 35 66 16 26 16		industrial equipment and apparatus 53	appliances	lighting and wiring	video, and communication equipment 56	Components and accessories	electrical machinery and supplies	vehicles (passenger cars and trucks)	trailers, and motor vehicles parts	and parts	transportation equipment 61
73B 73C 73D 74	Legal, engineering, accounting, and related services Other business and professional services, except medical Advertising Eating and drinking places										
75 76 77A	Automotive repair and services Amusements Health services										
77B 78 79 82	Educational and social services, and membership organizations Federal Government enterprises State and local government enterprises General government industry										
84 85 T	Household industry Inventory valuation adjustment Total commodity output	23,277	15,670	17,421	41,037	48,203	20,987	133,509	68,327	84,421	24,074

by Industries, 1987 Benchmark—Continued

at producers' prices]

1,254	65	64	65A	65B	65C	65D	65E	66	67	68A	11,968	68C	69A
1 1	21 14 11 11 65	5 5 24 440 133 288 1033 266 6 1466 8 8 5		807									
1 1	21 14 11 11 65	5 5 24 440 133 288 1033 266 6 1466 8 8 5											
1 1 74	21 14 11 11 65	5 5 24 440 133 288 1033 266 6 1466 8 8 5											
1 1 74	21 14 11 11 65	5 5 24 440 133 288 1033 266 6 1466 8 8 5											
1 1 74	21 14 11 11 65	5 5 24 440 133 288 1033 266 6 1466 8 8 5									26		
1 1 74	21 14 11 11 65	5 5 24 440 133 288 1033 266 6 1466 8 8 5									26		
74 6 6 5 6 5 6 5 5 221 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21 14 11 11 65	5 5 24 440 133 288 1033 266 6 1466 8 8 5									26		
6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	21 14 11 11 65	24 400 113 288 1033 266 6 6 146 8 8 5											
1	21 14 11 11 65	13 28 103 26 6 6 146 8 5 2 36 10 (°) 126 6 5 20 1 1 1 8 13 42 8											
1	21 14 11 11 65	103 266 66 88 55 22 336 10 (°) 1266 6 5 20 1 1 									26		
1	21 14 11 11 65 3	6 1466 8 8 5 5									26		
7	21 14 	8 5 5 20 11 11 11 11 11 11 11 11 11 11 11 11 11									26		
1	65	5									26		
281	65	36 100 (°) 126 6 5 20 1 1 8 13 42 2 2									26		
72 9 15 44 79 16	65	10 (°) 126 6 5 20 1 1 1 8 8 13 42 2 1 1 1 1									26		
72 9 15 44 79 16	65	126 6 5 20 1 1 8 8 13 42 2 1 1 1 1 1									26		
93 28	3	5 20 1 1 1 8 8 13 42 2 2 1 10									26		
93 28	3	1 1 8 8 13 42 2 1 10									26		
93 28	3	13 42 2 1 10											
1 141 671 3 80,003 239 96	1	13 42 2 1 10											
1 141 671 3 80,003 239 96	1	42 2 1 10											
1 141 671 3 80,003 239 96		1 10											
1 141 671 3 80,003 239 96													
1 141 671 3 80,003 239 96	3												
1 141 671 3 80,003 239 96		7											
1 141 671 3 80,003 239 96	2	11											
1 141 671 3 80,003 239 96		2											
1 141 671 3 80,003 239 96	32	35 10											
1 141 671 3 80,003 239 96	9	19 16											
80,003 239 96		13											
80,003 239 96	2	13											
96	53	14 23											
	18,402 16	13 30,178											
			43,271	162 113,492								2,603	
					24,053	76,253						-,	
			302	733	108	1,465	23,301	160,164					
								100,104	2,250	127 225			
										132,335	67,248	36	
												10,971	423,751
			Language		37	4 040				7,216	0.000	44.050	
			4 000			1,342				16,902	2,938	14,859	
85,858			4,822										

Table 1.—The Make of Commodities [Millions of dollars

									[Milli	ons of dollars
nber	For the distribution of industries producing a commodity, read the column for that commodity For the distribution of commodities produced by an industry, read the row for that industry	Retail trade	Finance	Insurance	Owner- occupied	Real estate and	Hotels and lodging	Personal and repair services	Computer and data	Legal, engi- neering, accounting,
ndustry number				ourunco	dwellings	royalties	places	(except auto)	processing services	and related services
luq	Commodity number	69B	70A	70B	71A	71B	72A	72B	73A	73B
1	Livestock and livestock products Other agricultural products									
3	Forestry and fishery products									
5+6	Agricultural, forestry, and fishery services									
7	Coal mining									
9+10	Nonmetallic minerals mining									
11+12 13	Construction									
14 15	Food and kindred products									
16	Broad and narrow fabrics, yarn and thread mills									
17 18	Miscellaneous textile goods and floor coverings									
19 20+21	Miscellaneous fabricated textile products Lumber and wood products									
22+23	Furniture and fixtures									
24 25	Paper and allied products, except containers Paperboard containers and boxes									
26A 26B	Newspapers and periodicals									
27A	Industrial and other chemicals									
27B 28	Agricultural fertilizers and chemicals									
29A 29B	Drugs Cleaning and toilet preparations									
30	Paints and allied products									
31 32	Petroleum refining and related products									
33+34 35	Footwear, leather, and leather products									
36	Stone and clay products									
37 38	Primary iron and steel manufacturing									
39 40	Metal containers									
41	Screw machine products and stampings									
42 43	Other fabricated metal products									
44+45 46	Farm, construction, and mining machinery									
47 48	Metalworking machinery and equipment									
49	Special industry machinery and equipment									
50 51	Miscellaneous machinery, except electrical Computer and office equipment								2.083	
52 53	Service industry machinery Electrical industrial equipment and apparatus									
54	Household appliances									
55 56	Electric lighting and wiring equipment								13	
57 58	Electronic components and accessories									
59A	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts									
59B 60	Truck and bus bodies, trailers, and motor vehicles parts									
61 62	Other transportation equipment Scientific and controlling instruments								51	51
63	Ophthalmic and photographic equipment									
64 65A	Miscellaneous manufacturing									
65B 65C	Motor freight transportation and warehousing									
65D	Air transportation									
65E 66	Pipelines, freight forwarders, and related services									
67 68A	Radio and TV broadcasting									
68B	Gas production and distribution (utilities)									
68C 69A	Water and sanitary services									
69B 70A	Retail trade	420,693	280,874	4,020		79			1.640	
70B	Insurance		200,074	172,850	005 444					
71A 71B	Owner-occupied dwellings				325,144	380,275				
72A 72B	Hotels and lodging places					934	40,064	66,233		
73A	Computer and data processing services								60,821	177.004
73B 73C	Legal, engineering, accounting, and related services							35	79	177,931
73D 74	Advertising									
75 76	Automotive repair and services									
77A	Amusements									
77B 78	Educational and social services, and membership organizations	1,301		751		737		3		
79 82	State and local government enterprises General government industry	966	76			7,596				
84	Household industry									
85 T	Inventory valuation adjustment	422,960	280,950	177,621	325,144	389,620	40,064	66,271	64,687	177,982
		,	,	,	,	,	-,	,=	. ,	,,

by Industries, 1987 Benchmark—Continued

at producers' prices]

Other business and professional services, ex- cept medical	Advertising	Eating and drinking places	Automotive repair and services	Amusements	Health services	Educational and social services, and membership organizations	Federal Government enterprises	State and local government enterprises	Scrap, used and secondhand goods	General government industry	Household industry	Inventory valuation adjustment	Total industry output	Industry number
73C	73D	74	75	76	77A	77B	78	79	81	82	84	85	99	snpul
				64 88									87,484 86,742	1 2
													7,456 22,201	3 4
													6,807	5+6 7
													25,452 84,228	8
													12,964 618,813	9+10 11+12
									3				31,438 325,972	13 14
													26,383 38,244	15 16
													15,982 64,184	17 18
									108				16,987 72,875	19
									1 80				36,777	22+23
									191				81,982 25,511	25
	32,945 20,732												49,727 87,378	26A 26B
									121				84,375 13,512	27A 27B
													40,672 36,012	28 29A
													33,229 12,072	29B
													137,871	31
													85,572 8,700	33+34
									6				16,085 43,732	35 36
									116 166				68,091 56,376	37 38
									256 83				11,904 43,930	39 40
									309 37				31,973 44,424	41
									52				14,096	43
93									15 5				26,753 7,194	44+45 46
									9 2				21,227 16,254	9+10 11+12 13 14 15 16 177 18 19 20+21 22+23 25 26A 27B 28 29A 29B 30 30 31 31 33-34 41 42 43 44+45 46 47 48 49 49 50 51 55 55 55 55 57 58 59A 59B 60 61 61 63 64 65A 665B
									36 15				23,236 20,003	49 50
									12 38				55,819 22,409	51 52
									25 27				22,665 15,361	53
				27					8				17,615 40,700	55
													48,654	57
									26				20,823 134,115	58 59A
									146 155				68,991 82,128	59B 60
									11 8				24,082 85,463	61 62
	1,949								14				19,725 33,089	63 64
									26				43,458 116,095	65A 65B
													24,053	65C
													76,253 25,908	65E
	963 27,146												161,127 29,396	65D 65E 66E 67E 68A 68B 68B 68B 68B 69A 70A 70B 71A 72B 72A 73B 73B 73C 73D 74 75 76 76 76 88 88 85 5
													132,371 67,549	68A 68B
								291					11,262 423,751	68C 69A
													420,694 286,613	69B 70A
													172,850 325,144	70B
													380,275	71B
70													40,997 66,302	72B
													60,821 177,931	73A 73B
211,165	9,333 15,884		92	22									220,728 15,884	73C 73D
313		209,177	130,391						217				209,394 130,704	74 75
118	45			78,148	338,393								78,192 338,511	76 77A
	408	1,844		75		152,270	33,469						152,678 45,396	77B
		1,044	744	416				18,754		400.705			69,484	79
										466,785	7,709		466,785 7,709	84 84
211,758	109,406	211,021	131,228	78,841	338,393	152,270	33,469	19,045	2,321	466,785	7,709	-17,817 - 17,817	-17,817 8,175,016	85 T

Table 2.1.—The Use of Commodities

	For the distribution of output of a commodity, read the row for that commodity	Livestock	Other	Forestry	Agri- cultural,	Metallic	0.1	Crude	Non-	•	Ordnance
Commodity number	For the composition of inputs to an industry, read the column for that industry	and livestock products	agricultural products	and fishery products	forestry, and fishery services	ores mining	Coal mining	petroleum and natural gas	metallic minerals mining	Con- struction	and accessories
- Co	Industry number	1	2	3	4	5+6	7	8	9+10	11+12	13
1 2	Livestock and livestock products Other agricultural products	16,818 23,778	1,584 3,855	27	1,251 2,089					241	
3 4	Forestry and fishery products			168 1,288	32	/*\		4			
5+6	Agricultural, forestry, and fishery services	4,003	6,542			519			2	3,250	2
8	Coal mining					11	2,730	3,149	61	1	4
9+10 11	Nonmetallic minerals mining	6	254		2	7	32		452	4,834 44	
12 13	Maintenance and repair construction	458	710	83 29	288	88	195	1,844	116	338 13	208 899
14 15	Food and kindred products	11,566		305	33	1	(*)	3	2	(*)	(*)
16 17	Broad and narrow fabrics, yarn and thread mills	25	44 26	72	114	1	18		4	1,760	4
18 19	Apparel Miscellaneous fabricated textile products		88	31	79	(*)	8	4	4	120 223	12 (*) 27
20+21 22+23	Lumber and wood products Furniture and fixtures	36	295			38	62	(*) (*)	3	33,521 1,271	27
24	Paper and allied products, except containers	110	139	1	10	1	8	8	38	1,184	7
25 26A	Paperboard containers and boxes	5 9	333 10	1	185	(*) (*) 3	1	2	4 24	45 52	3
26B 27A	Other printing and publishing	9 102	10 64	40 14	24 7	204	12 138	32 837	220 220	204 1,310	22 3 22 127
27B 28	Agricultural fertilizers and chemicals	142	4,607	40	2,972	1	2		(*)	8	6 31
29A 29B	Drugs	198 54			1			7	2	10	2
30 31	Paints and allied products	335	1,175	4 294	215	127	390	6 289	194	4,688 11,220	4 31
32 33+34	Rubber and miscellaneous plastics products Footwear, leather, and leather products	162 25	357 (*)	2	36	82	247	26	122	6,677 29	198
35 36	Class and glass products Stone and clay products	6	100	2	10 12	1 23	(*) (*) 80	8 265	4 2	993 31,054	3 50
37	Primary iron and steel manufacturing	14	15			134	19	260	43 70	10,023	473 562
38 39	Primary nonferrous metals manufacturing			18		15	13			6,194	502
40 41	Heating, plumbing, and fabricated structural metal products	17 27	19			43 35	66 146	46	61 33 37	31,335 280	189
42 43	Other fabricated metal products	68	153	53 14	26 44 78	35 9 37	82 111	383 22	57	8,090	462 28
44+45 46	Farm, construction, and mining machinery	249	663	21		129 35 8	1,084 95	239	253 142	1,419 1,416	
47 48	Metalworking machinery and equipment	83	92	(*)	2	8	8	77	8	200	87
49 50	General industrial machinery and equipment	27 47	50 123	8	4 4	78 12	428 78	157 36	164 19	1,513 126	235 119
50 51 52	Computer and office equipment				2					6,638	
53 54	Electrical industrial equipment and apparatus	10	27			27	90	166	64	2,743 1,505	25
52 53 54 55 56 57	Electric lighting and wiring equipment	19	43	1	8 (*)	4	28 (*)	19 1	8	9,894 2,011	2 874
57 58	Electronic components and accessories	152	404	1	10	6	2	2	5	845	870 19
59A 59B	Motor vehicles (passenger cars and trucks) Truck and bus bodies, trailers, and motor vehicles parts	90	217	5	40	13		- 7	3	414	1
60 61	Aircraft and parts Other transportation equipment			156	1 12	5					3,195
62 63	Scientific and controlling instruments Ophthalmic and photographic equipment			15 (*)	1 8	5	3	3 10	1 2	1,421 116	398 19
64 65 A	Miscellaneous manufacturing Railroads and related services; passenger ground transportation	15 824	16 249	1	14 92	2 20	4 652	5 45	6 36	878 1,557	7
65B 65C	Motor freight transportation and warehousing	1,914 107	1,290 46	24	208	52 7	159 54 19	154 103	182	8,274 302	153 2
65D	Water transportation	20	100	24 24 7 2	208 33 418 3	25 2	19	86	12 48 3	853 37	145
65E 66	Pipelines, freight forwarders, and related services	222	15 246	4	1	9	21	120	22	2,315	145
67 68A	Radio and TV broadcasting	972	515	3	59	647	611	1,292	651	1,047	260
68B 68C	Gas production and distribution (utilities)	111	164 368	1	2	74 15	11 60	556 131	218 135	322 252	89 31
69A 69B	Wholesale trade	3,861 75	3,567 228	186 8 77	1,452 67	15 133 8	720 9	523 6	260 3	26,466 24,114	585 4
70A 70B	Finance	796 438	849 1,797	77 102	103 80	69 23	169 31	223 18	231 6	7,098 1,966	58 32
71A 71B	Owner-occupied dwellings	3,000	7,097		179	85	622	14,641	154	2,711	264
72A 72B	Hotels and lodging places	49 26	54 70	14 7	24 182	12 2	5 4	27 10	106 20	707 139	27 12
73A 73B	Computer and data processing services Legal, engineering, accounting, and related services	108	121	16 252 132	90 243	33 113	3 207	5 801	115	6 36,297	15
73C 73D	Other business and professional services, except medical Advertising	362 19	954 21	3	206	38 5 8	82 46	144 853	96 112 19	14,948 244	325 346 615
74 75	Eating and drinking places Automotive repair and services	16 50	17 179	11 131	92 80 588	8 187	19 197	69 191	23 17	1,440 6,117	88 28
76 77A	Amusements Health services	744			282		1	2	3	42	2
77B 78	Educational and social services, and membership organizations Federal Government enterprises	12	13	21 6	40 50	14 10	42	29	15 17	25 243	9
79 80	State and local government enterprises Noncomparable imports	15	32 17	5	17 37	6 31	4 18	3 792	3	121 5	6 18
81 82	Scrap, used and secondhand goods General government industry									14	
83 84	Rest of the world adjustment to final uses Household industry										
85 I	Inventory valuation adjustment Total intermediate inputs	72,410	40,021	3,748	12,253	3,331	9,964	28,744	4,751	327,813	12,510
VA	Value added Total industry output	15,074 87,484	46,721 86,742	3,748 3,708 7,456	9,948 22,201	3,476 6,807	15,488 25,452	55,484 84,228	8,213 12,964	291,000 618,813	18,928 31,438
		07,404	00,742	1,430	22,201	0,007	20,402	U-7,220	12,304	510,013	J 1,430

by Industries, 1987 Benchmark at producers' prices]

Food and kindred products	Tobacco products	Broad and narrow fabrics, yarn and thread mills	Miscellane- ous textile goods and floor coverings	Apparel	Miscellane- ous fabricated textile products	Lumber and wood products	Furniture and fixtures	Paper and allied products, except containers	Paperboard containers and boxes	Newspapers and periodicals	Other printing and publishing	Industrial and other chemicals	Agricultural fertilizers and chemicals	Plastics and synthetic materials	
14	15	16	17	18	19	20+21	22+23	24	25	26A	26B	27A	27B	28	
60,821 22,262	1,707	262 3,192	34	13 31								86			
2,033	(*)	3	1	295		5,874 22	1	108 6 15	(*)	1	2	68 2	1	1 6	
105	15	28	10	4	4	21	7	428	2	1	13	636 273 1,043	5 552	132 4	
8 810	39	179	48	129	42	423	289	303		187	238	576 575	926 55	158	
54,695	1	(*)	22	(*)	4	1 7	15	344	3	3	9	348	92	53	
13	3,664	9,897 346	3,621 683	13,040 19	3,875 1,264	5 136	1,236 973	677 356		5	94 54			123	
11 72 61	2(*)	2 3	11 17 1	12,117 1,506	161 552 52	12 17 20,956	13 58 3,229	11 1 4,804	1	1	5 1	(*) 23 48	(*) 1	5 (*)	
3,142	131	24	94	111	39	71 64	146 51	1 13,139	11,548	6,485	14,631 336	721	48	463	
5,856 10 1,880	952 2 377	131 2 11	99 1 7	200 4 54	200 2 30	279 7 38	555 4 33	1,088 4 110	53 1 13	12 443 3,358	336 206 7,054	409 7 52	55 1 190	269 2 15	
1,505 187 121	51	852	594	78	103	848 186 329	215 114	3,444 205 2,005	491 557	379	2,389 129	18,226 366 757	1,371 2,533	13,509 95 1,470	
890 154	18	5,251 88	3,825 78	1,526 294		1		2,005 386 19				136 104	25	230	
369 5,261	35 71	1 104 198	1 31 117	(*) 112 302	13 496	386 446 690	376 84 1,197	19 565 1,999	66 182 73	81 33	39 238 1,616	408 1,012 994	69 115	89 103 1,685	
3,923	1	2 207 4	6	313	230	9 211	104 137	1 5	3 (*)	2	13 1	2 133	39 26	(*) 26 14	
19 5	1	2	2 4	(*)	1	409 31 53	131 1,528 469	90 2 47	68 54	1	9 7 178	68 177 59	(*)	(*)	
8,683 662	2					479 1,007	372					462 10	55 1	3	
1,020	185	2	1	7	1	1,505	1,378	502	123	1	53	650	40	13	
(*) 38 90	1 6	12 14	5	1 9	6	39 147	79	1 44	18	7	23	35	2	21	
90 220 90	7 14	109 31	224	160 7 20	18 8	83 113 190	79 13 71 38	368 55 95	100 27	77 2 13	23 359 2 40	410 21 77	16 5	9 83 48	
7		31		20		22				7	47	21		40	
(*) 7	(*)	(*) 1	······································	1	(*) 1	44 147 114	59 6	5			(*) 3	41	(*)		
<u> </u>	(*)	(*)	(*)		(*)	1	1	1	(*)	1	3	1		(*)	
4 19	1 4	1 4	(*)	(*) 5		12	19	30	18	38	29 35	(*) 4	(*)	1	
31	5			4		6 12	14			43	172	84	6	5	
19 18	2	5	2 2	6 305	3 2 105	14 43	10 62	38 12 9	3 3	121 13	527 141	20 5	1 (*) 281	5 3	
1,842 5,132 498	10 110 3	75 277 9	43 238 27	18 280 7	15 123 7	663 1,026 111	160 369 15	828 1,627 107	287 570 17	174 327 5	430 1,005 30	908 1,494 156	781	475 570 131	
498 484 3 447	3 29 (*) 28	9 29 1 48	9 1 28	114 1 95	21	81 5 125	15 83 1 89	107 387 9 152	48 1 72	5 940 2 206	368 4 241	156 232 42 207	49 15 1 39	131 59 12 91	
2,750	87		216	519		1.044		2.292	277	246		2,850		964 771	
1,336 442 16,850	20 9 536	1,088 152 114 1,807	112 26 433 2	96 34 2,171	105 40 52 951	344 182 3,806	344 82 66 2,039	994 1,074 3,637	80 29 999 16	21 21 782	725 95 77 3,080	2,389 318 3,141	304 466 113 747	149	
53 937 355	8 131 37	11 106 41	2 60 24	19 281 76	1 129 26	73 446 196	16 379 58	80 303 216	16 41 47	782 27 256 70	69 449 191	37 274 159	3 226 26	1,743 10 104 77	
866	78	71	 57	385	102	305	257	221	118	722	973	441	37	118	
209 192 123	8 7 11	3 191 30	2 52 10	16 144 13	16 69 4	22 32 22 230	19 27 16	167 127 184	2 11 29	86 53 451	347 48 266	41 38 66	3 4 6	30 81 17	
866 1,802	61 97	30 91 466 227	36 99	175 342	46	546	/49	127 184 205 450 857	69 184	897 1,945	616 1,064 1,061	1,701 1,164	83	1 038	
8,657 358 477	783 19 101	76 113	52 10 36 99 343 32 20	992 191 292	136 202 51 4	987 218 502	730 160 178	857 132 732	40 53 184	869 201 327	1,061 533 879	1,135 220 116	335 194 17 30	358 479 57 91	
5	2	1	1	2	(*)	5	15	3	1	5	16	5	(*)	1	
80 235 288	12 54 8 47	22 38 18 25	24 7	25 149 12	97 38	175 71 25	63 63 14 32	62 72 153 84	22 8	78 586 8	124 594 21 234	25 85 67	10 5 7	53 19 19	
5,056	47	25	166 5	59	88	13	32	84 828	2	55	234	636	101 33	147	
225,473 100,498	9,588 16,795	26,104 12,140 38,244	11,628 4,354 15,982	37,181 27,003	10,072 6,915 16,987	46,952 25,923 72,875	19,518 17,259 36,777	47,704 34,278 81,982	16,705 8,806 25,511	20,689 29,037	42,232 45,145 87,378	47,098 37,277	10,148 3,364	26,308 14,365 40,672	
325,972	26,383	38,244	15,982	64,184	16,987	72,875	36,777	81,982	25,511	49,727	87,378	37,277 84,375	13,512	40,672	

Table 2.1.—The Use of Commodities

[Millions of dollars

										[Milli	ions of dollars
Commodity number	For the distribution of output of a commodity, read the row for that commodity For the composition of inputs to an industry, read the column for that industry	Drugs	Cleaning and toilet prepara- tions	Paints and allied products	Petroleum refining and related products	Rubber and mis- cellaneous plastics products	Footwear, leather, and leather products	Glass and glass products	Stone and clay products	Primary iron and steel manufacturing	Primary nonferrous metals manufacturing
Comu	Industry number	29A	29B	30	31	32	33+34	35	36	37	38
1	Livestock and livestock products	86	15								
2 3	Other agricultural products	27 6		15							
4	Agricultural, forestry, and fishery services	1	(*)		2	3		1	2	2	2
5+6 7	Metallic ores mining	9	5	43	21	25	1	2	33 399	1,969 1,449	3,933 34
8 9+10	Crude petroleum and natural gas		9	13 17	75,971 490	75 35	2	184	3,513	10 231	18
11 12	New construction	131	75	46	952	392	28	130	328	1,294	273
13 14	Ordnance and accessories Food and kindred products	61	558	160	42	1 17	893	1	57 25	20	6
15	Tobacco products										
16 17	Broad and narrow fabrics, yarn and thread mills		18		39	812 894	239 197		126		43 1
18 19	Apparel Miscellaneous fabricated textile products	(*)	1 2	(*)	(*)	12 24	4	3 (*)	6 2	8 1	(*)
20+21 22+23	Lumber and wood products		6		59	189	24	237	95	136 28	151
24 25	Paper and allied products, except containers	161 314	61 1,146	2	9 191	789 987	6 66	15 707	551 142	28 15 79	17 103
26A 26B	Newspapers and periodicals Other printing and publishing	1 182	345	(*) 26	2 17	9	1 5	1 25	5 25	3 35	3 25
27A	Industrial and other chemicals	697	2,971	2,334	1,758	3,905	271	982	1,269	1,723	715
27B 28	Agricultural fertilizers and chemicals	54	468	1,441	60	15,955	109		189		784
29A 29B	Drugs	3,758 21	1,535	5	417	29	33		98	1	1
30 31	Paints and allied products	39	63 329	252 80	6 9,933	65 235	10	20 45	70 238	23 332 139	31 364
32 33+34	Rubber and miscellaneous plastics products Footwear, leather, and leather products	749	1,713	1	620	4,074 5	250 1,601	173	125	139	647
35	Glass and glass products	(*) 233	231	8	277	450		1,309	71	5	48
36 37	Stone and clay products	1	3 2	132 16	51 42	247 300	7 1	320 6	5,111 277	996 10,233	263 515
38 39	Primarý nonferrous metals manufacturing	1 138	433	7 534	167	115		1	23 (*) 7	1,470 1	17,261 (*)
40 41	Heating, plumbing, and fabricated structural metal products Screw machine products and stampings	12 64	16 196	6		44 439	9	35	100	275	90
42 43	Other fabricated metal products	65	390	21	397	860 15	43	2	219	772 11	528
44+45 46	Farm, construction, and mining machinery								13	17	10
47	Materials handling machinery and equipment	3	6	1	19	161	(*)	87	2 25	524	488
48 49	Special industry machinery and equipment	17	59	(*) 2	1	233 29	1 (*)	11 4	32	868	556
50 51 52 53 54 55 56 57	Miscellaneous machinery, except electrical Computer and office equipment	10 8	25	2	41	255	9	49	48	207 4	114
52 53	Service industry machinery					13		34	12	4 434	329
54 55	Household appliances Electric lighting and wiring equipment	1	/*\	(*)	13	(*) 120	1 (*)	5 3	32	(*) 10	2
56 57	Audio, video, and communication equipment	(*)	(*)		(*)	1		(*)	(*)	(*)	(*)
58	Electronic components and accessories	1	(*)		1	55 23		1	1	4	1
59A 59B	Motor vehicles (passenger cars and trucks)	5	3	(*)	54	13	(*)	4	9	7	12
60 61	Aircraft and parts									4	
62 63	Scientific and controlling instruments	28 5	6 5	2	24 6	43 19	1	16 3	16 10	21 11	14 8
64 65A	Miscellaneous manufacturing Railroads and related services; passenger ground transportation	5 3 27	45 112	1 158	3 153	19 603	83 18	2 185	40	11 1,149	5 336
65B	Motor freight transportation and warehousing	119	369	280	563	2,331	88	222	2,527	916	1,707
65C 65D	Water transportation	12 56	38 80	19 11	889 67	115 127	3 24	12 67	154 61	319 78	57 102
65E 66	Pipelines, freight forwarders, and related services Communications, except radio and TV	1 126	2 79	2 40	5,485 187	6 249	(*) 22	2 122	3 295	5 150	2 111
67 68A	Radio and TV broadcasting	288	189	74	1,653	1,829	68	478	1,159	2,813	2,501
68B 68C	Gas production and distribution (utilities) Water and sanitary services	167 34	167 48	43 8	1,260 209	511 202	19 10	580 34	789 120	1,898 489	807 95
69A 69B	Wholesale trade Retail trade	1,439	1,583 5	343	6,367 19	4,238 32	369	682	1,269 28	4,274 23	3,417 27
70A	Finance	186 32	88	(*) 16	1,232	386 181	(*) 50 10	69	286 91	247 247 138	267
70B 71A	Insurance Owner-occupied dwellings		52	6	361			26			112
71B 72A	Real estate and royalties	211 13	150 25	58 7	614 27	538 23	45 43	86 15	218 17	157 10	184 36
72B 73A	Personal and repair services (except auto)	48 5	21 7	1 1	54 126	118 265	12 5	12	55 89	76 108	85 35 140 561
73B 73C	Legal, engineering, accounting, and related services	1,568 1,071	169 395	54 62	376 1,156	580 685	30 90	23 53 93	168 408	191 1,246	140 561
73D 74	Advertising Eating and drinking places	366 66	853 61	54 62 55 18	321 51	704 246	130 28	375 37	864 122	2,010 119	537 91
75	Automotive repair and services	111	55	7	128	318	11	88	223	103	285
76 77A	Amusements	2		(*)	3	7	(*)		2	_	2
77B 78	Educational and social services, and membership organizations Federal Government enterprises	172 26	38 51	4 8	145 72	297 86	2 31	8 19	39 49	13 87	37 46
79 80	State and local government enterprises	17 777	19 187	1 65	16 392	31 1,155	8 2	7 87	11 130	43 84	46 25 789
81 82	Scrap, used and secondhand goods General government industry							72		2,583	2,376
83 84	Rest of the world adjustment to final uses Household industry										
85	Inventory valuation adjustment	42 040	45 500	G F04	140.040	47.040	E 040	7 075		40.704	40 400
VĄ	Total intermediate inputs	13,840 22,172	15,583 17,646	6,504 5,568	113,613 24,258	47,948 37,624	5,018 3,681	7,875 8,210	23,169 20,563	42,721 25,370	42,163 14,213
	Total industry output	36,012	33,229	12,072	137,871	85,572	8,700	16,085	43,732	68,091	56,376

by Industries, 1987 Benchmark—Continued at producers' prices]

Metal containers	Heating, plumbing, and fabricated structural metal products	Screw machine products and stampings	Other fabricated metal products	Engines and turbines	Farm, construction, and mining machinery	Materials handling machinery and equipment	Metalworking machinery and equipment	Special industry machinery and equipment	General industrial machinery and equipment	Miscellane- ous machinery, except electrical	Computer and office equipment	Service industry machinery	Electrical industrial equipment and apparatus	Household appliances	
39	40	41	42	43	44+45	46	47	48	49	50	51	52	53	54	
(*)	1 13	(*)	1	1	2	(*)	1	(*)	1	1	1	(*)	1	(*)	
1	5	12	21	4	12	(*)	6	(*)	1	1		2	6	4	
33	5 518	324	552	92	223	74	127	123	156	192	434	18	185	73	
(*)	6	2	4	1	3	2	4	3	2	1	1	2	3	2	
			1						136	17			4	34	
1 1	2 (*) 138	2 103 32	10 177	2	1	(*) 11	2 (*) 26	1	3 (*) 25	1 (*) 5	(*)	(*) 107	29	2 98	
4 28	33 231	31	10 329	7 24	(*) 7 64	1 2 5	6 83	4 29	26 83	7	(*) 78 90	11 130	120 132	98 17 35 308	
(*) 220	5 27	132 2 15	4 29	1 7	2 18	1 34	3 20	12	2 17	64 2 15	6 71	2 12	2 19	1 12	
61 17	119	242	742 169	4	35	10	168	193	18 41	19 36	13 56	86 96	43 89	96 366	
6 196	15 243	15 79	17 342		73	 7			4	1	21	66	69	112	
17 19	104 425	40 97	118 859	5 13 139	43 727	18 101	23 66 151	33 257	44 325	3 34 85 (*)	57 1,045	24 435	147 468	15 642	
(*) 13	1 325 125	55 76	114 171	(*) 48	3 (*) 57	13	(*) (*) 235	42 46	1 99	(*) 1 147	2 3 13	(*) 20 98	(*) 1 222	166 70	
2,571 3,008 199	8,294 3,194	7,905 980 4	5,190 2,049 8	1,938 652	2,988 225	607 95	1,467 427	1,017 365	2,135 639	1,338 910	335 709	1,229 1,140	1,117 1,214	1,144 312	
15	996 1,209	476	4 729	175 233	997 394	193 134	307 179	247 103	157 189	214 189	174 194	192 486	110 400	243	
159	1,475 1	585	2,453 33	213 1,306	440 1,249 971	260 66	170	216 60	215 83	253 12	302	389 30	220 104	567	
17	401	952	256	91	22 122	383 37	847	6 150 372	146	283	35	122	61	37	
3 20	202 115	2 63 370	30 187	188 451	709 682	225 165	130 612	380 427	1,559 382	210 1,076	27 42	398 242	89 127	101 23	
1	34 110	50	216	476	117	287	601	3 2 979	8 1 976	1 80	11,591 1,398	1,322 1,456	3 843	320 592	
(*) (*)	4 1	1 13 (*)	3 (*)	3 (*)	7 (*)	1	6 (*)	1 1	1	17 (*)	206 913	142	64 (*)	80 190	
(*)	1		(*) 11 16	155	129	48	(*) 12 10	(*) 30 11	44 16	(*) 46 9	4,063 63	(*) 6	584 20	137 2	
2	9 11	21	11	22	9 72	1	9	2	4	2 22	9	1	4 27		
1 1	96 11	5 5	13 10	2 3	5 7	1 2	4 7	3 5	11 7	3 7	17 15	396 4	40 6	303	
1 41 190	96 11 22 137 680	4 107 433	15 107 551	1 8 105	11 38 306	4 7 58	7 27 151	2 21 84	4 22 132	2 22 100	24 26 109	4 32 30 156	17 61 156	108 31 166	
3 50 (*)	13 128 2 117	433 13 27 (*) 85	21 156	3 30	15 120	2 20 (*) 29	5 91	3 91	6 123	4 64	6 740	8 120	5 220	3 78	
(*) 11	117 	(*) 85	2 173	39	1 80	(*) 29	1 86	76	101	(*) 72	192	(*) 76	1 126	36	
139 70	378 159	423 165	685 262 54	139 44	267 116 29	54 20 11	269 57	154 40 16	290 81 18	253 43 8	338 30 45	186 51 37	289 81 20	135 69 18	
139 70 26 796 3 38 20	34 2,479 30	165 79 1,639	2,302 21	14 707 2 50	1,742 8	460 3 32	16 784 15	929	1,153 8	565 7	4,147 18	1,526 4	1,407 8	1,114	
	186 84	205 57	306 85	22	104 58	14	108 46	106 28	110 40	166 28	361 76	59 31	246 41	110 23	
54 10	285 207 20	139 11 40	221 30 49	41 1 21	79 25 34	38 5 9	177 40 22	127 29	130 38 29 58	188 20 22 56 150 485 318	521 337 22	84 36 14	120 128 25	41 33 17	
5 10 23 47	20 23 179	81 717	30 49 104 231 481 821	52 45	25 34 80 171	13 44	22 41 135	112	58 142	56 150	22 52 414	14 27 110	25 42 128 221 775	20 42 118	
241	409 278 139	225 265 69	821 134	52 45 90 104 22 26	198 612 74	64 149 24	135 205 355 91	150 272 57	142 222 291 76	84	473 151 199	132 346 56	//	318 35	
14 37 (*)	246 5	93 1	134 227 2	26 2	35 1	12 2	184 1	63 1	78 5	114 2	229 5	26 1	101 1	318 35 16 (*)	
9	38 46	97 36 11	40 52	5 11	6 43	2 12 (*) 12	19 22	6 29	19 33	20 16	29 22	20	9 26 7	25 50 8 52	
6 7	46 14 20 41	11 20	52 29 65 34	5 26	7 168 12	(*) 12	22 7 76 11	67 	6 58 11	4 43 7	1,066	5 8	142 	52 	
8,483	24,930	17,787	22,155	7,870	14,902	3,884	8,756	7,659	10,836	8,164	31,625	11,987	11,056	8,767	
3,421 11,904	19,001 43,930	17,787 14,187 31,973	22,155 22,269 44,424	6,226 14,096	14,902 11,852 26,753	3,309 7,194	8,756 12,470 21,227	7,659 8,595 16,254	10,836 12,400 23,236	11,839 20,003	31,625 24,195 55,819	10,422 22,409	11,609 22,665	8,767 6,594 15,361	

Table 2.1.—The Use of Commodities

										[Millio	ns of dollars
Jec .	For the distribution of output of a commodity, read the row for that commodity	Electric	Audio,	Electronic	Miscellane-	Motor	Truck and			Scientific	Ophthalmic
Commodity number	For the composition of inputs to an industry, read the column for that industry	lighting and	video, and communi-	components	ous electrical	vehicles (passenger	bus bodies, trailers, and	Aircraft and	Other trans- portation	and	and photo-
lity n	For the composition of inputs to arrindustry, read the column for that industry	wiring equipment	cation	and accessories	machinery and supplies	cars and	motor vehi-	parts	equipment	controlling instruments	graphic equipment
omi		equipment	equipment	accessories	and supplies	trucks)	cles parts			monumento	equipment
Con	Industry number	55	56	57	58	59A	59B	60	61	62	63
1 2	Livestock and livestock products										
3	Forestry and fishery products	1	2		1			3	(*)		1
5+6	Metallic ores mining		l		89					13	
7 8	Coal mining	2	3	1	2	63	18	8	3	6	20
9+10	Nonmetallic minerals mining						1			(*)	
11 12	New construction	107	153	493	111	431	469	495	471	407	91
13 14	Ordnance and accessories	2	1	5	1	1	1 2	38 5	(*) 2	(*) 77	1
15	Food and kindred products Tobacco products			J		(*)					
16 17	Broad and narrow fabrics, yarn and thread mills	11			8	117 328	2 112	84 96	11 122	312 394	18
18	Apparel	1	10	12	3	14	3	6	3	394 32	1
19 20+21	Miscellaneous fabricated textile products	29	(*) 27	(*)	(*) 1	3,520 4	48 199	163 31	182 471	(*) 173	(*)
22+23	Furniture and fixtures		446	11	2 13	1,678	4	25	60	62	4.407
24 25	Paper and allied products, except containers	5 239	101 137	34 80	140	99 57	28 115	13 7	7	262 343	1,197 158
26A 26B	Newspapers and periodicals Other printing and publishing	239 2	3 102	4 32	4 25	5 43	3 32	4 53	1 9	11 145	2 18
27A	Industrial and other chemicals	15 99	107	789	390	606	216	36	55	298	470
27B 28	Agricultural fertilizers and chemicals	409	105	169	111	55	365	96	184	574	123
29A	Drugs										
29B 30	Cleaning and toilet preparations	30	26	1	1	1,615	8 222	140	144	3 45	1
31	Petroleum refining and related products	30	24	42	47	236	145	114	47	126	31
32 33+34	Rubber and miscellaneous plastics products	372	1,418 1	2,539 1	898 (*)	8,393 5	2,158 1	703 1	289 (*) 236	1,444 4	402 (*)
35 36	Glass and glass products	641 24	23 14	403 53	19	1,291 247	85 366	15 203	236 58	194 117	(*) 99 9
37	Primary iron and steel manufacturing	747	117	130	244	717	4,421	1,349	934	1,291	29
38 39	Primary nonferrous metals manufacturing	806	420	1,956	1,205	85	3,046	3,539	437	1,357 20	125
40	Heating, plumbing, and fabricated structural metal products		81	187	86	2	1,278	183	853	439	
41 42	Screw machine products and stampings	558 278	324 411	443 1,743	213 475	9,934 1,645	2,280 1,384	957 928	181 478	1,032 1,312	72 235
43	Engines and turbines					2,371	58		1,057		
44+45 46	Farm, construction, and mining machinery					13	8		110 1		
47 48	Metalworking machinery and equipment	53	38	88	48	1,105	209	1,145	50	178	23
49	Special industry machinery and equipment	(*) 42	38	126 12	47	68	1,411	164	503	155	19
50 51	Miscellaneous machinery, except electrical	42	42 108	108 170	59 21	863	2,658	772 41	71	191 757	37 10
50 51 52 53 54 55	Service industry machinery		5 237			2,773	176		80		
53 54	Electrical industrial equipment and apparatus	413	237	155	203	212	90 (*)	93	402 148	1,295	66
55	Electric lighting and wiring equipment	485 (*) 98	272	78 20	163	(*) 495	(*) 28	1	90	206	32
56 57	Audio, video, and communication equipment	98	1,472 8,193	36 4,625	13 1,304	1,347 856	14 381	962 1,211	13 7	20 7,877	(*) 1,573
58 59A	Miscellaneous electrical machinery and supplies	16	156	26	1,025	3,740 1,548	871 184	77	129 602	217	28
59B	Truck and bus bodies, trailers, and motor vehicles parts	3	2	3	6	40,005	6,259	. 5	313	16	2
60 61	Aircraft and parts					51 21	14	15,912	40 626		
62	Scientific and controlling instruments	3	54	195	9	1,234	27	2,217	70	2,295	186
63 64	Ophthalmic and photographic equipment	6 37	10 13	13 11	4	17 59	14 27 14 11	18 15	5	29 46	269 5
65A 65B	Railroads and related services; passenger ground transportation	31 146	21 138	46 214	36 151	572 2,168	173 936	39 220	50 202	85 362	37 115
65C	Water transportation	146 2	3	10	7	43	26	12	8	16	16
65D 65E	Air transportation	148	220	297 2	241	685 3	194 2	1,182	62 (*)	338 2	101
66	Communications, except radio and TV	65	(*) 159	187	82	3 159	310	359	(*) 92	432	42
67 68A	Radio and TV broadcasting	185	247	789	231	491	731	660	191	758	122
68B 68C	Gas production and distribution (utilities)	54 18	52 21	99 34	51 41	342 113	261 59	144 47	26 28	132 98	40 35
69A	Wholesale trade	1,138	1,970	2,125	1,379	10,545	3,688	1,552	1,328	3,212	720
69B 70A	Retail trade	5 163	5 163	7 450	11 222	124 493	43 159	27 883	10 50	30 452	6 208
70B	Insurance	27	59	70	45	345	142	113	29	158	50
71A 71B	Owner-occupied dwellings	105	326	389	144	117	159	459	346	774	87
72A	Hotels and lodging places	87	30	150	134 20	79	24	766	9	72 90	38
72B 73A	Personal and repair services (except auto)	18 30	178 96	39 86	37	103 106	80 92	46 103	14 14	100	9 19
73B 73C	Legal, engineering, accounting, and related services	109 166	235 449	317 586	189 244	220 543	212 484	508 1,016	90 194	803 1,030	117 273
73D	Advertising	268	782	464	602	2,434	1,807	1,929	183	2,115	489
74 75	Eating and drinking places	66 69 2	93 50	157 71	118 137	193 482	150 2,196	148 101	37 100	308 487	59 72
76	Amusements	2	4	23	24	23	4	21	12	28	12
77A 77B	Health services Educational and social services, and membership organizations	8	49	123	16	254	81	122	8	155	111
78	Federal Government enterprises	21	79	34	20	148	172	120	15	175	18
79 80	State and local government enterprises	6 32	233	19 195	10 74	64 291	42 918	17 99	16	24 340	306
81 82	Scrap, used and secondhand goods	2			108		155				
83	Rest of the world adjustment to final uses										
84 85	Household industry										
- 1	Total infermediate inputs	8,532	20,363	21,758	11,371	109,111	42,721	42,620	12,687	36,349	8,462
VA T	Value added	9,083 17,615	20,337 40,700	26,895 48,654	9,452 20,823	25,004 134,115	26,270 68,991	39,508 82,128	11,396 24,082	49,114 85,463	11,264 19,725
					, i		, ,	· ·			

by Industries, 1987 Benchmark—Continued

at producers' prices]

at producers'	' prices]													
Miscellaneous manufacturing	Railroads and related services; passenger ground trans- portation	Motor freight transportation and warehousing	Water trans- portation	Air trans- portation	Pipelines, freight forwarders, and related services	Communications, except radio and TV	Radio and TV broad- casting	Electric services (utilities)	Gas production and distribution (utilities)	Water and sanitary services	Wholesale trade	Retail trade	Finance	Commodity number
64	65A	65B	65C	65D	65E	66	67	68A	68B	68C	69A	69B	70A	S
2 20			1 3											1 2 3
3	3	5	3 3	6	2	4	4	20	2	6	145	82	28	3 4 5+6 7
3 17	(*)		9		93			13,284	16,417	5	24	9		l 8
189	4,213	438 (*)	128	470	441 4	6,678	285	8,764	650	878	2,816	5,741	1,966	11 12
65	(*)	1	(*) 65	279	8	2	10	(*)	(*)	4	15 69	949	3	14 15
324 43 18 126 724	1 15	5 7	63 95	(*) 14	(*) 116	73	(*)	4	(*)	1	58 63	26 23		16 17 18
126 724 9	(*)	13 15	74	9	116 35	1	(*)	(*)	(*)	142	163 1,335 5	48 56 4	128	19 20+21 22+23
289 434 7	19 7 7	52 67 25	7 13 3	56 1 14	35 29 8	80 43 18	14 1 6	36 12 6	5 2	68 2	1,746 4,237 92	2,948 526 86	832 3 304	24 25 264
88 337	115 86	25 268 80	48 18	149 17	154 8	689 93	53 30	122 423	17 4	20 509	3,792 70	181 27	3,667 11	26B 27A
692	33		21			52				2		39		27B 28 29A
1 143 90	2 2,132	3 17 5,794	42 731	4 4 8,583	89	109 117	9	3,078	338	260	2,759	29 2,112	29 418	29B 30 31
90 947 101 28	144 1 37	1,117 7 5	76 1	19 2 (*)	66 6 8	394 5 15	1 2 (*)	118 1 11	6	253 (*) 35	1,174 61 164	421 22 8	80 20 43	32 33+34
144 548	8 83	9	8 (*)	3 2	2	1 1		9 2	(*) 1	12	109 32	18 7	10	36 37
1,839 1			195			44		110 15			631 39			38 39 40
131 288 3	9 267 44	263 42	499 163	48 55	36 24	329 181 242	1	98 20 625	2	312	236	596	14	41 42 43
76	72	3 16	178	20		4		12 81			27 262 98	2 33		44+45 46 47
25 124	291 155		573 157	4 43	116	301	2	73 47	5 5	5 5	4 9 217	9 12 71	64	9+10 111 112 133 144 155 166 167 177 189 20+21 22+23 244 255 26A 28B 29A 29B 29A 311 355 363 373 383 399 400 411 424 433 44445 500 555 556 575 575 575 575 59A 59B
5 26	1 1	76 26 8 20 98 (*) 48	1 1	2 2	12	58	20	4	47	3	49 121	38 87	48	51 52
90	148 22		12 13 36	10 (*) 9	27	264 (*) 55 2,179	22 (*)	198 (*) 130	(*) 9	24	1 1 36	(*) 8 37	9 1 41	54 55 55
4 397 12	1 11 55	4 6 69	(*)	7 90 25	7 8 45	2,179 1,683 206	51 778 46	213	(*) 3 100	(*) 1 18	21 22 214	33 4 130	37 211 368	56 57 58
10	132	19 397	1	13 3,336	12	14	2	13	5	726	348	238	50	59A 59B 60
4 8 14	856 2 10	5 4 45 31	364 32	30 14	11 1 16	14 9 68	2 22 191	8 93 26	2 17 6	398 5	66 190	23 116	66 8 1,047	61 62 63
1,218 83	14 2 322	1 260	364 32 5 49 15 74 2,472 69	37 65	16 24 78	68 94 72	11 34	26 22 3,550	6 10	10	387 498	413 724	410 561	64 65A
494 23 77	122 38 82 720	18,968 91 242 3,543	2,472 69	174 155 4,158	96 31 579	142 15 234 2	62 2 210	415 336 15	16 25 108	36 73 14 28	967 110 4,336 396	1,150 56 777	5,272 23 2,087	65C 65D
1 71	47	3,543 1,425	1,425 113	4,821 926	1,086 477	33,184	1 190 471	15 191	290 25	4 74	396 5,573	4,574	5,192	65E 66 67
293 64 109	99 2 33	964 43 42	570 4 100	244 14 36	973 37 130	480 22 1.136	24	27 5,812 202	165 20,956 24	37 498 610	3,277 1,831 311	9,939 1,011 687	1,702 104 293	68A 68B 68C
1,731 19 260	33 788 200 336	1,789 3,230 489	565 4 1,303	2,266 67	130 131 26 1,026	1,136 883 41 1,898	3 33 154 4 293	202 1,342 48 1,545	291 20 445	360 58 159	9,954 764 5,778	1,696 902 3,679	293 1,246 135 48,309	69A 69B
71	189	957	8	2,110 371	531	65	4	952	51	1,068	494	532	3,280	70A 70B 71A
242 24 31	301 69 36	2,165 166 91 342 547 1,353 238 555	794 14 23	1,005 38 421 717	936 86 50 452 440 329 644 476	2,806 81 403	1,568 33 346	507 42 268 909	140 8 37	80 38 142	9,905 2,978 1,761	24,309 599 1,982	9,486 804 427	71B 72A 72B
14 332 362	69 36 349 172 617 34 179	342 547 1,353	23 270 73 1,501	351	452 440 329	403 1,647 710 1.058	346 123 401 470	909 508 519	239 98 171	89 137 134 18 54	399 4,900 20,686	1,961 14,163 7,477	12,499 7,237 13,020	73A 73B 73C
332 362 1,683 236 240	34 179 589	238 555 4,401	1,501 246 56 34	1,741 2,288 286	644 476 271	1,058 1,176 503 523 699	82 231 39	508 519 79 135 474	20 36 218	18 54 4	4,900 20,686 8,482 5,786 9,026	20,898 5,504 6,870	3,548 3,357 1,554	73D 74 75
	4	15	1	43 7	11		9,383	5	1	1	1,033	199	119	65A 65B 65E 65D 65E 66 66 68B 69A 69B 71A 71B 72A 73B 73C 73C 73C 75 76 77A 77B 77B 77A 77B 77B 77A 77B 77B 77B
124 91 8	133 58 62	56 147 135	62 7 (*)	7 22	115 58 7	231 251 34	130 22 26	346 325 19	23 129 8	10 43 1	658 871 379	424 1,455 427	774 7,115 42	78 79
968	180	10	2,880	4,262	61	3,758	35	7	14	1	2,710	134	3,898	80 81 82
														83 84 85
17,347 15,742 33,089	16,774 26,684 43,458	51,373 64,722 116,095	16,406 7,647 24,053	41,048 35,205 76,253	10,599 15,309 25,908	66,178 94,949 161,127	15,936 13,460 29,396	46,665 85,706 132,371	41,224 26,325 67,549	7,477 3,786 11,262	125,804 297,947 423,751	127,371 293,322 420,694	142,016 144,596 286,613	VA T

Table 2.1.—The Use of Commodities

									[Mill	ions of dollars
e	For the distribution of output of a commodity, read the row for that commodity					Personal	Computer	Legal, engi-	Other business	
Commodity number	For the composition of inputs to an industry, read the column for that industry	Insurance	Owner- occupied	Real estate	Hotels and lodging	and repair services	and data	neering, accounting,	and professional	Advertising
dity	, or the composition or inpute to distinction), read the column or that inducting	mourance	dwellings	and royalties	places	(except auto)	processing services	and related services	services, except medical	7 ta vortioning
0 H						auto)		Services	Illeuicai	
රි	Industry number	70B	71A	71B	72A	72B	73A	73B	73C	73D
1	Livestock and livestock products				2				27	
2 3	Other agricultural products			19	3					
4 5+6	Agricultural, forestry, and fishery services	6	2,584	2,002	217	10	4	11	57	1
7	Metallic ores mining			1	7	4			4	
8 9+10	Crude petroleum and natural gas									
11 12	New construction	517	15,921	21,677	1.483	646	165	313	1.466	89
13	Ordnance and accessories	(*) 2		(*) 9	(*)			7	205	
14 15	Food and kindred products			9	104	20		9	140	(*)
16 17	Broad and narrow fabrics, yarn and thread mills			(*)	48 8	189 15	(*)	1	1 7	
18 19	Apparel	11		`1 5	97 531	339	1	1	77 10	(*) 18
20+21	Lumber and wood products			34	5	359 25	9	31	28	1
22+23 24	Furniture and fixtures	143		2 452	5 (*) 295	1 304	365	3 639	3 898	(*) 52
25 26A	Paperboard containers and boxes	1 24		22 16	6 34	22 22	11 17	36 31	34 78	9 3
26B 27A	Other printing and publishing Industrial and other chemicals	1,389		1,284 24	332	689 234	2,067	1,518 14	2,955 774	688
27B	Agricultural fertilizers and chemicals		269	111	5 212				291	3
28 29A	Plastics and synthetic materials					34			47	
29B 30	Cleaning and toilet preparations			36	242	898 1	9	37	717 137	1
31	Petroleum refining and related products	98		389	242	310	121	458	690	46
32 33+34	Rubber and miscellaneous plastics products	21 16	73	540 10	772 9	1,107 691	991 4	282 37	1,753 20	19 1
35 36	Glass and glass products	1 1		9 31	479 30	246	3 1	34 1	181 60	(*)
37 38	Primary iron and steel manufacturing Primary nonferrous metals manufacturing			2	1	4 29	1	4	18	`1
39	Metal containers								246	
40 41	Heating, plumbing, and fabricated structural metal products		100	61		61			152	
42 43	Other fabricated metal products	2		71	26	184	26	106	214 101	4
44+45	Farm, construction, and mining machinery		195	4					510 258	
46 47	Materials handling machinery and equipment	1		1	2	13	2	7	584	1
48 49	Special industry machinery and equipment			2 24	(*)	1	1	3	274 724	(*)
50 51	Miscellaneous machinery, except electrical Computer and office equipment	1 10		3 21	3	53 464	5 972	44 259	262 354	1
52	Service industry machinery					157			253	
53 54	Electrical industrial equipment and apparatus Household appliances	(*) (*)		59	7	39 658 27	88	1	559 29	
55 56	Electric lighting and wiring equipment	6 24		64 22	123 4	27 24	6 11	66 17	180 95	1
57 58	Electronic components and accessories	8 170		138	3	1,608 28	1,746 441	15 339	3,335 636	17
59A	Motor vehicles (passenger cars and trucks)									
59B 60	Truck and bus bodies, trailers, and motor vehicles parts	42		48	16	31	15	178	113	10
61 62	Other transportation equipment Scientific and controlling instruments	2 5		3	6 34	26	37	6	264 136	2
63 64	Ophthalmic and photographic equipment	254 141		91 134	18 116	600 1,412	29 25 62	718 378	1,397 353	10 20
65A	Railroads and related services; passenger ground transportation	325	8	445	106	78	62	130	366	28
65B 65C	Motor freight transportation and warehousing	406 7	12 3	595 14	173 10	303 21	113 4	224 22	683 126	37 2
65D 65E	Air transportation	502 69	1	424 115	46 49	187 4	551 3	1,673 10	3,276 15	43
66 67	Communications, except radio and TV Radio and TV broadcasting	2,405		1,539	587	981	1,571	2,204	3,403	210 453
68A	Electric services (utilities)	98		308	1,278	1,192	295	467	1,274	43
68B 68C	Gas production and distribution (utilities)	298		60 75	604 372	476 144	39 14	85 169	418 84	10 3
69A 69B	Wholesale trade	277 46	144 256	493 229	558 50	1,517 83	904 41	1,199 223	3,037 258	70 18
70A 70B	Finance Insurance	5,832 54,111	1,619 9,705	6,294 6,322	1,931 47	844 72	543 36	1,412 316	2,512 748	154 19
71A	Owner-occupied dwellings									
71B 72A	Real estate and royalties	4,830 1,047	12,218	32,320 910	1,523 28	3,767 84	2,051 87	8,826 3,128	6,374 1,050	1,069 191
72B 73A	Personal and repair services (except auto)	192 1,153		763 74	684 18	1,436 356	56 7,058	557 8,284	277 6,035	46 21
73B	Legal, engineering, accounting, and related services Other business and professional services, except medical	2,823	1,657 1,347	2,190	630	2,765	491	15,381	5,285	200 437
73C 73D	Advertising	1,963 2,025		7,363 6,263	2,690 658	2,246 1,492	1,674 533	16,011 493	14,020 2,320	92
74 75	Eating and drinking places	2,856 799		3,338 1,381	50 541	462 870	473 464	1,142 2,717	2,537 2,412	199 318
76 77A	Amusements Health services	66		72	17	19	11	121	152	123
77B	Educational and social services, and membership organizations	63		194	130	898	344	921	1,339	37
78 79	Federal Government enterprises State and local government enterprises	688 25		467 112	189 233	305 122	259 20	1,357 114	1,559 118	63 23
80 81	Noncomparable imports	618		56	60	10	179	465	928	24
82 83	General government industry Rest of the world adjustment to final uses									
84	Household industry									
85 	Inventory valuation adjustment	86,428	46,111	99,839	18,787	32,319	25,051	73,250	82,309	4,941
VA T	Value added	86,422 172,850	279,033 325,144	280,436 380,275	22,211 40,997	33,983 66,302	35,770 60,821	104,682 177,931	138,418 220,728	10,942 15,884
	,	-,	. ==,		,	1.,	,	,		-,

by Industries, 1987 Benchmark—Continued at producers' prices]

Eating and drinking places	Automotive repair and services	Amusements	Health services	Educational and social services, and membership organizations	Federal Government enterprises	State and local government enterprises	General government industry	Household industry	Inventory valuation adjustment	Total intermediate use	Personal consumption expenditures	Gross private fixed investment	Change in business inventories	
74	75	76	77A	77B	78	79	82	84	85		91	92	93	
391 1,446		20 8	62 121	83 95	4 14	1				81,465 59,031	3,090 15,682		-719 -4,261	
1,673 9	16	4 571	26 158	31 485	16 3	125				10,351 21,754 7,268	3,763 647	446	101	
5	6	2	6	8	1,061	1,062				21,498 97,326	138	 84	1,100 -1,758	
4 000				3		25				11,974 44	36	358,627	-8	!
1,836 47,037	654 7	1,017 (*) 655	2,742 2 3,035	7,154 5 2,970	571 (*) 393	16,093 1 4				124,100 1,304 125,260	1,099 201,153	17,300 198	457 1,771	
		69		46	14					3,664 35,123	20,774 1,047		242 599	
25 17	16 169 (*)	9 138 91	16 374 776	10 243 69	4 1 78	10 30 6				8,549 14,438 9,369	4,992 71,153 10,088	2,369	412 1,446 333	
27	(*) 9 1	209 10	46 4	200 1						68,635 3,867	1,820 19,469	3,920 15,467	1,157 596	2
(*) 735 869	189 16	152 6	1,542 124	1,529 120 578	32 15 3	50 (*)				69,529 24,501	11,902 292		916 127	
6 294 62	43 80 58	28 387 167	180 2,619 6,516	9,745 226	383 8	6 162 1,137				2,547 49,322 79,565	11,741 10,923 978	795	449 1,188 515	
		9	11	62		119				12,543 39,534	784		138 502	
117	10 785	11 3	6,464 839	127 189 39	(*) 29	3 52				11,676 6,952 11,365	23,958 25,019 194		1,199 558 197	3 3
128 1,461	3,663 1,331	104 386	922 7,834	984 1,035	641 49	4,249 115				70,488 78,219	60,189 11,669	155	3,001 1,292	
66 339 37	5 847	53 3 2	12 789	36 252 5	14 3	2 9 142				3,578 15,366	13,619 1,518		467 179	3
37 1 21	37 (*)	1 28	289 5	18 (*)		(*)				43,245 74,182 57,761	2,705 11 72	13 36	606 1,204 864	
				4	1	2				11,619 39,226	525	36 21 2,811	24 557 237 604	
9 52	3,331 4,815 245	30 59	244 176	167 289	90 8	3 31 61				29,847 43,780 8,316	1,464 3,600 461	1,945 2,302	237 604 208	
		1		(*)	4	211				6,177 2,749	248	16,909 5,032	208 333 42 50	4
1 53	18 13	18 1	8	11 1	6	15				10,100 3,126	583 176	13,439 15,053	50 198	
53 92 115	53 1,252 11	1 14 7	1 19 43	32 107	17 14 3	13 429 2				14,038 14,927 15,346	117 3,290	11,072 747 33,476	198 153 101 331	
3 15	675 173	55 (*)	9 1	11 8	22 2 3	19 504				12,881 17,719	883 161	7,186 5,878	306 110	
1 87 7	955 181	66	8 308 7	13 202	3 26 6	50 105				2,743 15,549 10,561	11,997 2,278	2,657 435 21,728	3 608	
4	532	4 7 36	22 310	122 190 167	6 38	39 113				42,174 12,838	18,387 263 5,277	21,726	446 787 361	
23	9,976	10	108	119	267	194				2,370 61,127	101,875 3,133	62,933 6,591	8,115 1,745	
	34 36	103 13 186	5 6,698	10 124	33	129 17				22,583 2,763 17,485	316 11,043 4,456	8,843 3,183 33,814	2,132 1,070 1,285	
7 293	41 47	183	683 261	498 767	13 53 724	15 43				7,770 9,277	4,625 27,179	5,653 3,876	398 2,181	
385 1,541	294 802	93 188	337 842	237 791	1,616	440 309				27,231 80,137	13,080 20,258	827 2,343	553 755	
62 171 2	112 486 92	41 234 2	84 955 20	2,603 22	77 926 10	200 98 75				8,029 36,314 18,525	4,177 31,439 2,553	167 819	49 97 39	
804	1,021	658 	2,774	1,762	146	234				81,923 924	61,963 1,326	4,389		
4,445 364	1,006 520	1,100 220	3,172 1,499	2,038 964	281 83	4,483 3,082				79,596 55,987	63,318 25,544			
329 9,302 27	82 4,700 4,855	125 498 45	289 6,618 288	255 2,462 131	83 376 10	303 1,566 23				12,350 210,780 37,597	14,864 111,741 373,725	39,161 11,178	4,929	
2,236 33	4,201 2,263	718 77	1,449 1,223	2,085 715	45 43	403 492				121,959 93,582	135,789 81,638			
8,898 28	4,643	4,145	21,791	16,283	529	686 51				225,105	325,144 122,178 20,180	23,701		
569 216	153 1,790 18	230 412 327	466 986 4,764	1,052 409 1,402	26 9 30	17 260				18,052 17,186 53,578	48,030 855	10	39	
2,226 4,140	764 4,027	2,138 3,869	2,169 9,636	2,319 5,121	79 451	2,202 856				127,255 165,951	31,456 12,602	7,509	59	
4,629 790	1,517 865	2,605 578	912 1,939	3,256 1,163	3 77 530	104 113				107,841 43,381	661 169,638			
404 965	2,503 18	476 15,940	3,374 87 6,761	1,300 969	520 38	180 4				61,098 30,722 7,505	67,684 47,411 363,015		7	
299 118	168 528	379 365	718 1,866	355 2,088	13 381	81 70				12,086 24,980	148,974 6,430			
187 73	374 12	85 154	226 45	227 855	25 1,085	5				4,424 39,151	14,152 29,295		85 4 000	
	169									6,460	13,705 -31,136	-24,960	1,969	
											7,709		-17,817	
100,603	68,309	40,640	119,710	80,088	11,636	41,734 27,750		l l	i l	3,602,186				

Table 2.1.—The Use of Commodities by Industries, 1987 Benchmark—Continued

[Millions of dollars at producers' prices]

	[Millions	of dollars a	at producers	' prices]							
mber	For the distribution of output of a commodity, read the row for that commodity	Exports of	Imports of	Federal (Government p	urchases	State a	ind local gover	rnment		Total
Commodity number	For the composition of inputs to an industry, read the column for that industry	goods and services	goods and services	Total	National defense	Non- defense	Total	Education	Other	GDP	commodity output
Comu	Industry number	94	95		96	97		98	99		
1 2	Livestock and livestock products Other agricultural products	485 12,747	-808 -2,353	12 750	2	10 750	84 587	30 220	54 368	2,144 23,152	83,609 82,183
3 4	Forestry and fishery products	544 122	-3,747 -16	-1,112 121	38	-1,112 84	-413 1,040	6 284	-419 756	-864 1,914	9,488 23,668
5+6	Metallic ores mining	559	-1,349	-141	-142	1				-466	6,802
8	Coal mining	2,663 1,494	-65 -28,965	86 -173	56 5	29 -177	32	21	11	3,953 -29,318	25,451 68,008
9+10 11	Nonmetallic minerals mining New construction	633 15	-734	2 15,550	-2 7,495	8,055	–19 71,111	10,091	-19 61.020	-90 445,303	11,884 445,347
12	Maintenance and repair construction	81	_467	6,258 22,745	4,358 20,365	1,900 2,380	25,728 117	5,912	19,816	49,367	173,466
13 14	Ordnance and accessories Food and kindred products	2,725 12,111	-18,538	2,025	189	1,836	5,854	3,739	116 2,114	26,873 204,376	28,177 329,636
15 16	Tobacco products	2,591 1,407	-879 -3,601	115	105	10	-11 142	-1 58	-10 84	22,717 –291	26,381 34,832
17 18	Miscellaneous textile goods and floor coverings	782 1,197	-919 -25,395	30 567	3	27 1	51 853	8 15	43 838	7,717 49,821	16,266 64,259
19 20+21	Miscellaneous fabricated textile products	362	-1,772	185	566 140	45 13	441 113	95 59	347 55	9,637 4,301	19,006 72,936
22+23	Lumber and wood products	3,645 684	-6,399 -5,287	45 129	32 39 124	90	1,775	992	784	32,833	36,700
24 25	Paper and allied products, except containers	5,922 262	-9,914 -126	366 74	124 42	243 31	2,240 158	1,183 32	1,057 125	11,432 786	80,961 25,288
26A 26B	Newspapers and periodicals Other printing and publishing	555 1,062	-226 -1,335	153 1,097	42 15 428	138 669	456 4,870	302 3,403	154 1,466	13,128 17,804	15,674 67,126
27A	Industrial and other chemicals	14,630	-10,727	1,893	1,793	100	2,203	567	1,635	10,286	89,852
27B 28	Agricultural fertilizers and chemicals	542 5,364	-990 -2,009	25 13	9	15 1	324 2	111	213 1	823 3,872	13,365 43,407
29A 29B	Drugs	2,959 983	-7,590 -1,281	795 202	472 160	324 42	2,865 439	86 119	2,778 321	24,186 25,920	35,862 32,872
30 31	Paints and allied products	342 6,128	-214 -13,332	6 3,193	1 2,649	5	294 7,931	228 3,789	66 4,142	818 67,111	12,183 137,599
32	Rubber and miscellaneous plastics products	3,233	-9,702	636	480	545 157	1,348	88	1,260	8,631	86,851
33+34 35	Footwear, leather, and leather products	666 777	-9,700 -1,837	50 59	22	37	106 273	(*) 66	105 207	5,209 968	8,787 16,335
36 37	Stone and clay products	1,019 1,407	-4,513 -10,824	108 151	47 22 51 78 395	57 72	170 57	66 6	104 51	95 -7,982	43,340 66,201
38 39	Primary nonferrous metals manufacturing	3,303 166	-6,992 -155	644 57	395 57	250	58	4	54 3	-2,014 120	55,746 11,739
40	Heating, plumbing, and fabricated structural metal products	869	-961	658	491	168			1	4,460	43,686
41 42	Screw machine products and stampings Other fabricated metal products	2,123 2,634	-2,261 -6,573	138 481	110 407	28 75 167	277 550	216 177	61 373	1,978 3,241	31,826 47,022
43 44+45	Engines and turbines	2,899 6,063	-2,102 -5,402	2,045 321	1,879 303	167 18	265 1,358	84	265 1,274	6,078 19,829	14,394 26,005
46	Materials handling machinery and equipment	540	-1,321	321	312	9	13	4	9	4,627	7,376
47 48	Metalworking machinery and equipment	2,335 2,696	-4,911 -4,993	220 82	180 76	40 6	236 74	134 69	102 5	11,951 13,285	22,051 16,411
49 50	General industrial machinery and equipment	4,182 1,660	-6,947 -604	560 2,657	542 2,573	18 84	162 251	(*) 116	162 135	9,183 4,929	23,221 19,855
51 52	Computer and office equipment Service industry machinery	13,167 1,217	-17,329 -1,504	4,168 123	3,493 101	675 21	1,982 655	1,196 476	786 179	39,085 8,865	54,431 21,746
53	Electrical industrial equipment and apparatus	1,847 943	-3,346 -2,950	636	467	168 4	273	140 101	132	5,557 12,927	23,277 15,670
54 55	Household appliances	1,358	-3,341	42 62	38 41	21	235 472	284	134 189	1,871	17,421
56 57	Audio, video, and communication equipment	4,137 12,596	-20,190 -13,704	5,265 5,912	4,964 5,884	301 28	703 174	335 81	368 94	30,476 6,029	41,037 48,203
58 59A	Miscellaneous electrical machinery and supplies	2,404 12,918	-4,511 -61,157	1,671 740	1,577 609	95 131	191 5,714	71 1,288	120 4,426	8,149 131,139	20,987 133,509
59B	Truck and bus bodies, trailers, and motor vehicles parts	10,874	-16,950	1,093	1,050	43	716	294	422	7,200	68,327
60 61	Aircraft and parts	22,891 1,278	-6,875 -2,937	34,512 7,160	33,306 6,754	1,206 405	20 515	103	20 411	61,838 21,311	84,421 24,074
62 63	Scientific and controlling instruments	10,311 2,224	-9,990 -5,696	25,249 1,129	23,710 704	1,540 425	3,249 2,604	517 1,015	2,732 1,589	68,373 10,937	85,858 18,707
64 65A	Miscellaneous manufacturing	2,831 3,377	-15,769 -135	-424 810	123 320	-547 490	1,932 2,653	1,184 2,256	747 397	21,805 21,164	31,083 48,394
65B	Motor freight transportation and warehousing	4,606		5,150	2,729	2,421	1,944	897	1,048	35,056	115,194
65C 65D	Water transportation	7,512 11,216	3,264 -5,711	834 2,837	697 2,159	137 678	167 2,048	35 956	133 1,093	16,169 42,745	24,198 79,060
65E 66	Pipelines, freight forwarders, and related services	1,958 2,496		80 3,853	42 1,954	38 1,899	146 5,540	40 2,519	106 3,021	4,776 78,241	23,301 160,164
67 68A	Radio and TV broadcasting	134	-986	2,671	1,734	937	11,720	4,541	7,180	1,326 76,857	2,250 156,453
68B 68C	Gas production and distribution (utilities) Water and sanitary services	161	-1,763	579 236	465 184	114	1,672 983	685 1,018	987 -35	26,192 16,120	82,180 28,469
69A	Wholesale trade	26,294	15,533	5,860	5,039	53 821	9,454	3,940	5,514	212,971	423,751
69B 70A	Retail trade	85 12,598	-161	114 1,400	92	22 1,400	263 9,366	-41	304 9,366	385,364 158,991	422,960 280,950
70B 71A	Insurance	2,906	-3,078	1,746	36	1,710	827	666	161	84,039 325,144	177,621 325,144
71B 72A	Real estate and royalties Hotels and lodging places	10,830 49		1,243 947	547 692	696 254	6,563 836	713 -1,237	5,850 2,073	164,515 22,012	389,620 40,064
72B	Personal and repair services (except auto)	31		125	65	60	898	301	597	49,085	66,271
73A 73B	Computer and data processing services	928 2,398	-104 -391	4,133 8,099	2,833 7,561	1,300 538	5,248 1,656	1,402 1,729	3,845 -73	11,110 50,727	64,687 177,982
73C 73D	Other business and professional services, except medical	1,546 475	-740 -253	20,907 85	15,944 79	4,963 5	11,433 597	4,136 416	7,298 181	45,807 1,564	211,758 109,406
73D 74 75	Eating and drinking places Automotive repair and services	271		1,139 185	79 371 94	768 92	-3,409 2,223	-5,546 823	2,138 1,400	167,639 70,129	211,021 131,228
76	Amusements	1,222	-64	1,001	823	179	-1,452	189	-1,641	48,119	78,841
77A 77B	Health services Educational and social services, and membership organizations	16 144	-9	613 7,326	-352 1,127	965 6,199	-32,757 -16,252	-10 -15,934	-32,747 -318	330,888 140,184	338,393 152,270
78 79	Federal Government enterprises	169		409 111	312 80	97 31	1,482 359	128 171	1,354 187	8,490 14,621	33,469 19,045
80 81	Noncomparable imports	A 267	-78,696	10,116	8,673 -104	1,443 778	49 2,272	43 683	6 1,589	-39,151	2,321
82	Scrap, used and secondhand goods General government industry	4,267	-2,068	675 150,627	108,244	42,383	2,272 316,158	173,286	1,589	-4,139 466,785	2,321 466,785
83 84	Rest of the world adjustment to final uses	31,653		-517	-161	-356				7,709	7,709
85 I	Inventory valuation adjustment									-17,817	-17,817
VA T	Value added Total industry output	348,572		384,927	292,052	92,875	496,592	218,272	278,320	4,572,829	8,175,016
	Total madely output	340,372	+30,442	304,327	292,002	32,013	+30,332	210,212	210,320		0,173,010

*Less than \$500,000.

Table 2.2.—Input Components of Total Industry Output, 1987 Benchmark [Millions of dollars at producers' prices]

	·		<u> </u>					
			Value	added				
Industry				Indianat husinaan		Total intermediate	Total industry	Industry
number		Total	Compensation of	Indirect business tax and nontax	Other value	inputs	output	number
		rotai	employees	liability	added			
				,				
1	Livestock and livestock products	15,074	3,284	1,091	10,700	72,410	87,484	1
2 3	Other agricultural products	46,721 3,708	5,619 779	2,536 158	38,566 2,771	40,021 3,748	86,742 7,456	2
4	Agricultural, forestry, and fishery services	9,948	9,941	130	7	12,253	22,201	4
5+6	Metallic ores mining	3,476	1,836	501	1,139	3,331	6,807	5+ <u>6</u>
7 8	Coal mining	15,488 55,484	8,383 11,699	2,033 3,939	5,072 39,847	9,964 28,744	25,452 84,228	7 8
9+10	Nonmetallic minerals mining	8,213	4.008	688	3,518	4,751	12,964	9+10
11+12	Construction	291,000	189,998	4,487	96,515	327,813	618,813	11+12
13 14	Ordnance and accessories	18,928 100,498	12,370 43,805	235 7,225	6,323 49,468	12,510 225,473	31,438 325,972	13 14
15	Tobacco products	16,795	2,853	4,701	9,242	9,588	26,383	15
16	Broad and narrow fabrics, yarn and thread mills	12,140	8,413	235	3,491	26,104	38,244	15 16 17
17 18	Miscellaneous textile goods and floor coverings	4,354 27,003	2,729 17,503	102 239	1,523 9,262	11,628 37,181	15,982 64,184	17 18
19	Miscellaneous fabricated textile products	6,915	4,048	83	2,784	10,072	16,987	19
20+21	Lumber and wood products	25,923	16,168	1,251	8,503	46,952	72,875	20+21
22+23	Furniture and fixtures	17,259 34,278	11,412	230	5,617	19,518	36,777	22+23
24 25	Paper and allied products, except containers	34,278 8,806	16,521 6,370	1,345 205	16,412 2,231	47,704 16,705	81,982 25,511	24 25
26A	Newspapers and periodicals	29,037	15,391	255	13,392	20,689	49,727	26A
26B	Other printing and publishing	45,145	27,499	957	16,689	42,232	87,378	26B
27A 27B	Industrial and other chemicals	37,277 3,364	15,582 1,950	1,824 226	19,871 1,188	47,098 10,148	84,375 13,512	27A 27B
28	Plastics and synthetic materials	14,365	6,560	766	7,040	26,308	40,672	28
29A	Drugs	22,172	8,292	152	13,728	13,840	36,012	29A
29B 30	Cleaning and toilet preparations	17,646 5,568	5,308 2,505	184 32	12,155 3,031	15,583 6,504	33,229 12,072	29B 30
31	Petroleum refining and related products	24,258	6,857	10,590	6,812	113,613	137,871	31
32	Rubber and miscellaneous plastics products	37,624	23,433	1,672	12,519	47,948	85,572	32
33+34 35	Footwear, leather, and leather products	3,681 8,210	2,362 4,875	28 218	1,292 3,117	5,018 7,875	8,700 16,085	33+34 35
36	Stone and clay products	20,563	11,952	803	7,807	23,169	43,732	36
37	Primary iron and steel manufacturing	25,370	17,894	1,183	6,293	42,721	68,091	36 37
38 39	Primary nonferrous metals manufacturing	14,213 3,421	10,442 2,019	590 85	3,182 1,318	42,163 8,483	56,376 11,904	38 39 40 41 42
40	Metal containers Heating, plumbing, and fabricated structural metal products	19,001	12,772	492	5,737	24,930	43,930	40
41	Screw machine products and stampings	14,187	11,245	512	2,430	17,787	31,973	41
42 43	Other fabricated metal products	22,269	14,716	501	7,053	22,155	44,424	42
43 44+45	Engines and turbines	6,226 11,852	3,973 7,478	175 449	2,077 3,925	7,870 14,902	14,096 26,753	43 44+45
46	Materials handling machinery and equipment	3,309	2,409	66	835	3,884	7,194	46 47
47	Metalworking machinery and equipment	12,470	9,843	275	2,353	8,756	21,227	47
48 49	Special industry machinery and equipment	8,595 12,400	6,147 8,544	163 262	2,285 3,595	7,659 10,836	16,254 23,236	48 49 50 51
50	Miscellaneous machinery, except electrical	11,839	9,391	250	2,198	8,164	20,003	50
51	Computer and office equipment	24,195	13,585	440 151	10,170	31,625	55,819	51
52 53	Service industry machinery	10,422 11,609	6,580 7,919	151 243	3,691 3,447	11,987 11,056	22,409 22,665	52 53
54	Household appliances	6,594	3,660	127	2,807	8,767	15,361	54
55	Electric lighting and wiring equipment	9,083	5,249	158	3,675	8,532	17,615	52 53 54 55 56 57
56 57	Audio, video, and communication equipment	20,337 26,895	11,383 18,527	358 852	8,596 7,517	20,363 21,758	40,700 48,654	56 57
58	Miscellaneous electrical machinery and supplies	9,452	6,579	235	2,639	11,371	20,823	58
59A	Motor vehicles (passenger cars and trucks)	25,004	15,227	2,108	7,669	109,111	134,115	59A
59B 60	Truck and bus bodies, trailers, and motor vehicles parts	26,270 39,508	19,067 30,002	1,597 614	5,607 8,892	42,721 42,620	68,991 82,128	59B 60
61	Other transportation equipment	11,396	8,713	117	2,566	12,687	24,082	61
62	Scientific and controlling instruments	49,114	33,494	955	14,665	36,349	85,463	62
63 64	Ophthalmic and photographic equipment	11,264 15,742	4,276 8,637	220 309	6,768 6,796	8,462 17,347	19,725 33,089	63 64
65A	Railroads and related services; passenger ground transportation	26,684	18,648	1,581	6,456	16,774	43,458	65A
65B	Motor freight transportation and warehousing	64,722	40,701	3,083	20,938	51,373	116,095	65B
65C	Water transportation	7,647	5,732	687 5,749	1,229	16,406 41,048	24,053	65C
65D 65E	Air transportation	35,205 15,309	23,231 7,945	5,749 642	6,225 6,722	41,048 10,599	76,253 25,908	65D 65E
66	Communications, except radio and TV	94,949	36,761	11,910	46,278	66,178	161,127	66
67	Radio and TV broadcasting	13,460	9,886	600	2,975	15,936	29,396	67
68A 68B	Electric services (utilities)	85,706 26,325	19,453 8,626	9,242 3,151	57,012 14,548	46,665 41,224	132,371 67,549	68A 68B
68C	Water and sanitary services	3,786	3,510	584	-309	7,477	11,262	68C
69A	Wholesale trade	297,947	174,697	57,724	65,525	125,804	423,751	69A
69B 70A	Retail trade	293,322 144,596	187,889 109,452	53,073 8,317	52,360 26,827	127,371 142,016	420,694 286,613	69B 70A
70A 70B	Insurance	86,422	62,328	12,429	11,666	86,428	172,850	70B
71A	Owner-occupied dwellings	279,033		50,971	228,062	46,111	325,144	71A
71B	Real estate and royalties	280,436	27,230	53,227	199,979	99,839	380,275	71B
72A 72B	Personal and repair services (except auto)	22,211 33,983	10,663 21,130	3,698 1,187	7,850 11,666	18,787 32,319	40,997 66,302	72A 72B
73A	Computer and data processing services	35,770	25,443	655	9,673	25,051	60,821	73A
73B	Legal, engineering, accounting, and related services	104,682	79,014 92,121	818	24,850 42,345	73,250 82,309	177,931	73B
73C 73D	Other business and professional services, except medical	138,418 10,942	92,121 7,404	3,952 126	42,345 3,412	82,309 4,941	220,728 15,884	73C 73D
74	Eating and drinking places	108,791	81,909	9,606	17,276	100,603	209,394	74
75	Automotive repair and services	62,395	28,995	4,301	29,099	68,309	130,704	74 75 76
76 77A	Amusements Health services	37,552 218,801	24,710 178,143	2,857 1,901	9,986 38,757	40,640 119,710	78,192 338,511	76 77A
77B	Educational and social services, and membership organizations	72,590	68,100	418	4,072	80,088	152,678	77B
78	Federal Government enterprises	33,760	31,077		2,683	11,636	45,396	78 79 82
79 82	State and local government enterprises	27,750 466,785	19,296 466,785	26	8,428	41,734	69,484 466,785	79 82
84	Household industry	7,709	7,709				7,709	84
85	Inventory valuation adjustment	-17,817			-17,817	2 002 400	-17,817	85
'	Total	4,572,829	2,698,657	364,986	1,509,186	3,602,186	8,175,016	T

* Less than \$500,000.

Total and Per Capita Personal Income by State and Region

This article was written by Howard L. Friedenberg and Duke D. Tran. The estimates of State personal income, as well as the section on the revisions, were prepared by the Regional Economic Measurement Division.

T his article presents preliminary fourth-quarter and year 1993 estimates of total personal income for States, regions, and the United States and preliminary 1993 estimates of per capita personal income. In addition, the article includes revised annual State estimates for 1988–92 and revised quarterly estimates for 1990:1–1993:111.

The first section of this article looks at the preliminary estimates of total State personal income, and the second section discusses the preliminary estimates of per capita State personal income. The last section contains information about the revised estimates. Tables 1–4, at the end of the article, present the preliminary and revised estimates: Tables 1 and 2 contain the quarterly estimates of total and nonfarm State personal income for 1990–93, and tables 3 and 4 contain the annual estimates of total and per capita State personal income for 1988–93. Table 5 presents percent changes in earnings for selected industries for 1993.

Total Personal Income

Total personal income in the Nation increased 1.8 percent in the fourth quarter of 1993 after increasing 0.8 percent in the third quarter. The

pickup was mainly in farm income, which increased substantially in the fourth quarter after having declined in the third quarter as a result of the floods in the Midwest, lower farm subsidy payments, and the drought in the Southeast.

In the fourth quarter, the five States with the fastest growth in personal income were North Dakota, Iowa, South Dakota, Nebraska, and Minnesota. In these States, personal income rebounded sharply after having declined in the third quarter as a result of the crop damage and uninsured losses to property due to the floods and of lower farm subsidy payments.

In 1993 as a whole, personal income in the Nation increased 4.7 percent after increasing 6.1 percent in 1992. The slowdown mainly reflected the effect on personal income of payments of bonuses in a number of industries in late 1992 that typically would have been paid in early 1993. If the timing of the bonus payments had been typical, personal income in the Nation would have increased 5.5 percent in 1993 and 5.7 percent in 1992.

Per Capita Personal Income

Per capita personal income in the Nation increased 3.5 percent in 1993 after increasing 4.9 percent in 1992. The slowdown mainly reflected the effect on personal income of the change in the

BEA Estimates of Wages and Salaries for 1993

The annual change from 1992 to 1993 in the national totals of the preliminary State estimates of wages and salaries is the same as the change in the national income and product accounts (NIPA) estimates of wage and salary disbursements that appear in this issue. This year, the national totals for both the NIPA and the State estimates are based primarily on monthly national data on employment, hours, and earnings from the Bureau of Labor Statistics (BLS) establishment survey; in some years, such as last year, the national totals for the preliminary State estimates presented in April have instead been based primarily on BLS tabulations of wages and salaries of employees covered by unemployment insurance for the first three quarters and on a BEA

estimate for the fourth quarter.¹ The unemployment insurance data are used instead of the monthly establishment data when there are significant differences between the two series. In July, both the NIPA and the State estimates for 1993 will be revised to incorporate the unemployment insurance tabulations for all four quarters of 1993.

^{1.} In this article, these percent changes are not at annual rates.

^{1.} The monthly establishment survey covers total employment and the average weekly hours and average hourly earnings of production and nonsupervisory workers. The unemployment insurance tabulations are compiled from reports that are filed quarterly by all employers covered by State unemployment insurance laws and by the unemployment compensation program for Federal employees. (For a more detailed discussion of these two data series and their use by BEA, see "State Estimates of Wages and Salaries: A Methodological Update" in the October 1989 Survey of Current Business.)

timing of bonus payments. If the timing had not changed, per capita income would have increased 4.3 percent in 1993 and 4.5 percent in 1992.

The increases in per capita personal income for the Nation have exceeded the increases in U.S. prices (as measured by the fixed-weighted price index for personal consumption expenditures) for 2 consecutive years. In 1993, prices increased 3.0 percent, and in 1992, they had increased 3.7 percent. By State, increases in per capita income in 1993 exceeded 3.0 percent in all except eight States.

Fastest growing States

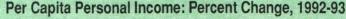
In 1993, increases in per capita personal income in the 12 fastest growing States ranged from 6.7 percent in Montana to 4.5 percent in Oregon (table A and chart 1). All of these States had above-average growth in personal income, and all except Louisiana and Indiana had average

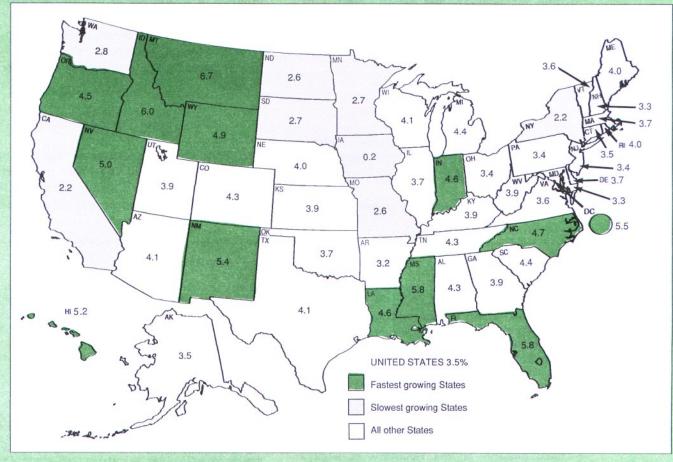
or above-average growth in population. All of these States except Florida, Hawaii, and Nevada had per capita income below the U.S. average of \$20,817 in 1993.

In Montana, Idaho, Mississippi, New Mexico, Nevada, Wyoming, North Carolina, and Oregon, personal income growth was boosted by above-average increases in earnings in nondurables manufacturing, in retail trade, in the finance-insurance-real estate group, and in government (table B).²

In addition, most of these States had aboveaverage increases in earnings in the other major nonfarm industries. In Mississippi, large increases in earnings in construction and in services reflected the growth of gaming establishments. In Montana and Idaho, personal income growth was

CHART 1





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

^{2.} Earnings is the sum of wage and salary disbursements, other labor income, and proprietors' income.

boosted substantially by large increases in farm income.

In Florida and Hawaii, personal income growth rebounded from the effects in 1992 of Hurricanes Andrew in Florida and Iniki in Hawaii. Construction earnings rebounded substantially in Florida and moderately in Hawaii.

In Louisiana and Indiana, increases in earnings were above average in trade, in the financeinsurance-real estate group, and in government. In addition, Louisiana had above-average in-

Table A.—Per Capita Personal Income for Selected States and the United States, 1992–93

			Per	cent char	ige	
Rank		Per capita person-	Per	sonal inco	ome	Popula-
		al in- come	Total	Farm	Non- farm	tion
	Fastest growing States:					
1 2 3 4 5 6 7 8 9 10 11 12	Montana Idaho Florida Mississippi New Mexico Hawaii Nevada Wyoming North Carolina Louisiana Indiana Oregon	6.7 6.0 5.8 5.4 5.2 5.0 4.9 4.7 4.6 4.5	9.0 9.3 7.4 6.9 7.7 6.6 9.1 6.1 6.4 5.0 5.6	91.5 40.9 2 3.9 25.4 13.9 79.5 16.8 6.6 -18.0 31.8	6.3 7.6 7.4 6.9 7.4 6.6 8.9 5.8 6.4 5.2 5.5	2.1 3.1 1.5 1.1 2.2 1.4 3.9 1.2 1.6 .4 1.0 2.0
	United States	3.5	4.7	-2.5	4.8	1.1
	Slowest growing States:					
43 44 45 46 47 48 49 50	Washington Minnesota South Dakota Missouri North Dakota California New York lowa	2.8 2.7 2.7 2.6 2.6 2.2 2.2	5.1 3.9 3.7 3.5 2.7 3.3 2.7 .6	31.1 -80.0 -22.0 -61.0 -25.2 13.1 -14.1 -86.2	4.7 5.2 6.7 4.0 5.5 3.2 2.7 4.7	2.2 1.1 1.0 .8 .1 1.0 .5

creases in earnings in nondurables manufacturing and in mining, and Indiana had above-average increases in earnings in durables manufacturing, in construction, and in services.

Slowest growing States

In 1993, increases in per capita personal income in the eight slowest growing States ranged from 0.2 percent in Iowa to 2.8 percent in Washington. All of these States except Washington had below-average growth in personal income and average or below-average growth in population. California's population growth was below average for the first time since 1948.

In Iowa, North Dakota, Missouri, South Dakota, and Minnesota, personal income growth was slowed by large declines in farm income as a result of the Midwest floods in the third quarter. The slowdown occurred despite rebounds in the fourth quarter.

In New York, California, and Washington, earnings in durables manufacturing declined, and earnings in construction either increased at below-average rates or declined. The declines in earnings in durables manufacturing in California and Washington, which were larger than those in any of the other States, reflected job cutbacks in the aircraft industry. In addition, California and New York had either declines or increases in earnings in most of the other major nonfarm industries. In New York, a large decline in earnings in the finance-insurance-real estate group reflected the atypical timing of bonus payments in the securities industry.

Table B.—Percent Change in Earnings for Selected States and the United States, 1992-93

Rank		Durables manufac- turing	Nondura- bles man- ufacturing	Construc- tion	Mining	Transpor- tation and public utilities	Whole- sale trade	Retail trade	Finance, insurance, and real estate	Services	Govern- ment
	Fastest growing States:	2.4	F. 6	4.7	0.4	4.0	7.4	F. C	6.5	0.0	7.5
1 2 3 4 5 6 7 8 9 10 11 12	Montana Idaho Florida Mississippi New Mexico Hawaii Nevada Wyoming North Carolina Louisiana Indiana Oregon	2.4 10.1 -1.1 4.2 5.4 1.6 0 1 5.2 1 4.9 2.2	5.6 3.8 .2 1.9 6.4 -5.1 8.4 6.1 1.9 1.8 1.0	4.7 12.8 12.5 18.6 20.5 6.9 27.4 7.1 13.7 4.1 8.1	2.1 -2.3 7 4.8 9.9 2.4 4.5 7.3 7.9 3.8 -5.3 12.4	4.8 6.7 6.2 3.8 4.9 8 8.2 4.3 4.6 2.8 4.3 4.8	7.4 6.3 6.6 6.7 6.5 4.0 2.7 1.0 6.0 4.5 7.3	5.6 11.1 6.4 7.1 9.2 5.3 6.8 5.9 5.8 4.8 5.5 7.1	6.5 8.4 4.3 4.1 8.4 8.7 11.5 12.8 6.0 3.9 4.2 9.7	9.8 9.6 9.5 15.3 9.6 5.2 10.2 7.1 10.0 7.2 7.8 8.7	7.5 6.7 7.7 6.9 5.6 4.1 7.3 4.9 6.8 5.3 4.9 6.5
	United States	.7	1.0	7.4	1.4	4.4	4.0	4.6	1.6	7.3	4.7
	Slowest growing States:										
43 44 45 46 47 48 49 50	Washington Minnesota South Dakota Missouri North Dakota California New York	-5.8 2.8 11.1 -1.8 7.6 -5.0 -3.3 3.2	3.2 1.5 .7 1.2 4.7 9 -2.6 3.3	2.6 6.2 8.9 7.8 12.7 9 4.1 4.5	-1.0 3.3 -5.7 8.5 5.6 5.5 7.4 3.5	3.9 1.5 5.2 4.3 4.1 2.2 1.6 6.1	5.0 5.5 5.1 2.5 4.2 7 2.9 3.6	5.5 7.4 7.6 3.6 6.5 3.1 1.8 3.9	4.6 6.7 5.6 3.8 5.3 2.0 -5.8 6.0	6.9 7.7 11.8 7.9 6.7 5.3 6.3 6.8	5.8 6.4 7.0 5.0 4.3 2.2 3.4 5.7

Revisions to the State Estimates

The State estimates of personal income for 1990–92 have been revised to reflect the routine incorporation of more current State and county source data (see table C). In addition, the annual State estimates for 1981–92 have been revised to reflect the incorporation of new source data that were not available in time to be used in the last comprehensive revision, and the quarterly State estimates for these years have been adjusted to reflect the changes in the annual estimates. The incorporation of the new source data caused changes to the estimates of both farm and nonfarm proprietors' income and of the residence adjustment, which is the net inflow of the earnings of interstate commuters.

The newly available source data were also incorporated into the estimates of personal income for local areas. For a detailed description of the revisions for both States and local areas, see

Availability of the State Estimates

Quarterly State estimates for 1969–93 are available, including tables presenting income by type of payment—for example, wages and salaries—and earnings by Standard Industrial Classification (sic) division. Annual State estimates of personal income and per capita personal income for 1929–93 are also available. The detailed tables of the State annual series have not yet been updated to reflect the revisions to the estimates for 1981–92; however, much of the information presented in that series, including earnings by sic two-digit industry, is available in the local area series. For more information, see the "Data Availability" box on page 129.

the article "Local Area Personal Income: Estimates for 1990–92 and Revisions to the Estimates for 1981–91" beginning on page 127.

Tables C and 1 through 5 follow.

Table C.—Revisions in Total Personal Income for States and Regions, 1990-93

[Millions of dollars, quarters seasonally adjusted at annual rates]

	4000	4004	4000		199	92			1993	
State and region	1990	1991	1992	I	II	III	IV	I	II	III
United States	-1,700	-1,851	-2,244	-1,669	-2,089	-2,479	-2,738	-6,572	-5,374	-4,284
New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	-1,387 9 65 -1,161 -628 340 -13	- 1,193 -14 85 -909 -621 263	- 1,185 -7 96 -944 -643 308 5	- 1,007 -20 157 -841 -560 236 22	- 1,106 66 126 -996 -618 317 -1	- 1,141 20 100 -932 -651 319	- 1,486 -93 1 -1,006 -742 360 -4	- 1,525 -292 150 -1,052 -672 383 -42	- 1,623 -76 78 -1,257 -725 452 -95	1,665 897 198 150 –406 661 165
Mideast Delaware District of Columbia Maryland New Jersey New York Pennsylvania	-374 -971 414 486 -6,526 4,037 2,186	1,712 -949 586 354 -5,576 4,722 2,575	1,188 -983 743 299 -6,021 4,352 2,797	1,541 -952 566 339 -5,793 4,014 3,367	2,258 -1,001 667 274 -5,872 5,217 2,973	1,154 -982 812 380 -5,922 4,382 2,484	- 201 -997 927 205 -6,498 3,796 2,365	-378 -940 742 384 -5,822 2,755 2,502	- 297 -1,015 769 77 -6,332 4,146 2,056	-112 -1,159 771 -21 -6,652 4,252 2,697
Great Lakes Illinois Indiana Michigan Ohio Wisconsin	- 2,282 -2,230 -77 -746 1,340 -569	- 2,723 -2,490 -265 -959 1,881 -890	- 2,830 -2,793 -283 -949 2,082 -887	- 2,509 -2,703 -111 -1,074 2,318 -937	- 2,401 -2,649 -272 -838 2,255 -897	- 3,099 -2,876 -356 -929 1,914 -851	- 3,312 -2,945 -393 -953 1,841 -863	- 7,254 -5,133 -564 -1,374 1,042 -1,226	- 4,825 -3,280 -622 -1,266 1,638 -1,294	- 2,721 -2,363 -851 -1,064 2,115 -557
Plains Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	-1,135 -623 -358 64 -306 27 7 54	- 1,429 -902 27 48 -486 -24 -133 42	- 1,474 -878 -44 99 -493 -70 -125	- 1,056 -867 -92 236 -294 -10 -94 65	- 1,291 -875 -30 227 -454 -77 -117	- 1,684 -926 -27 31 -501 -125 -144 8	-1,867 -845 -24 -100 -724 -68 -143	- 5,948 -3,500 37 -835 -594 -732 -60 -264	- 3,767 -2,404 671 -551 -711 -614 -6 -152	- 5,454 -2,808 86 -881 -878 -252 -402 -318
Southeast Alabama Arkansas Florida Georgia Kentucky Louisiana Mississippi North Carolina South Carolina Tennessee Virginia West Virginia	365 145 -241 1,567 628 -968 147 -60 -602 110 293 -1,048 395	422 88 -320 2,592 700 -1,068 124 -79 -827 20 112 -1,315 393	500 137 -383 2,835 840 -1,218 111 -108 -956 47 233 -1,469 430	248 101 -378 2,575 850 -1,231 -55 -148 -939 73 299 -1,389 491	-314 173 -396 2,241 760 -1,228 -7 -74 -941 -38 211 -1,417 403	819 113 -417 3,220 784 -1,178 393 -90 -996 7 97 -1,516 402	1,246 163 -340 3,304 966 -1,234 -115 -121 -949 147 323 -1,554 425	-787 66 -314 2,554 676 -1,524 -104 -118 -890 171 -89 -1,609 396	-3,202 343 -1,009 1,729 705 -1,494 -280 -316 -1,244 93 -214 -1,822 307	-1,654 198 -572 2,217 59 -1,403 -602 -164 190 105 -1,975
Southwest Arizona New Mexico Oklahoma Texas	1,442 362 2 -146 1,224	2,098 337 -132 -175 2,067	2,257 301 -157 -217 2,330	1,924 251 -164 -265 2,102	2,219 298 -176 -272 2,370	2,331 307 -161 -219 2,403	2,554 348 -126 -111 2,444	3,844 214 -117 24 3,722	3,142 281 -216 -100 3,176	2,959 794 -91 -359 2,615
Rocky Mountain Colorado Idaho Montana Utah Wyoming	313 -25 227 -9 -24 144	221 48 151 -37 -94 153	-3 -54 112 -53 -122 113	99 103 87 -46 -153 107	- 24 -36 115 -85 -129 111	- 22 -94 101 -26 -109 105	- 64 -188 144 -55 -94 130	1,472 526 478 464 -142 146	1,512 364 667 516 –157 122	469 69 588 160 –484 136
Far West Alaska California Hawaii Nevada Oregon Washington	1,357 -173 -1,767 509 594 454 1,739	- 959 -166 -3,233 423 603 414 1,000	- 696 -187 -3,220 403 677 446 1,184	- 912 -195 -3,127 344 626 367 1,072	-1,430 -185 -3,986 358 643 470 1,271	- 834 -201 -3,391 383 702 437 1,235	390 -167 -2,376 525 738 510 1,159	4,004 -183 452 495 762 749 1,728	3,687 -159 -292 496 766 802 2,074	563 -346 -1,694 215 928 594 866
Census Divisions: New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central West South Central Mountain Pacific	-1,387 -304 -2,282 -1,135 980 -591 984 1,272 763	-1,193 1,722 -2,723 -1,429 1,555 -947 1,696 1,030 -1,562	-1,185 1,128 -2,830 -1,474 1,786 -956 1,842 819 -1,374	-1,007 1,588 -2,509 -1,056 1,614 -980 1,403 813 -1,538	-1,106 2,318 -2,401 -1,291 948 -917 1,695 739 -2,073	-1,141 944 -3,099 -1,684 2,109 -1,058 2,161 826 -1,536	-1,486 -337 -3,312 -1,867 2,475 -869 2,108 896 -347	-1,525 -565 -7,254 -5,948 1,483 -1,666 3,328 2,332 3,242	-1,623 -130 -4,825 -3,767 -400 -1,680 1,787 2,345 2,921	1,665 296 -2,721 -5,454 88 -978 1,084 2,098 -364

Table 1.—Total Personal Income, States and Regions

[Millions of dollars, seasonally adjusted at annual rates]

1990							or dollars,	Seasonali	y aujusieu									
State and region		19	90			19	91			19	92			19	93		Percent	
]*	ll r	III r	IV ^r		ll r	III r	IV ^r	l ^r	r	III r	IV ^r	l ^r	ll r	III r 3	IVP	1993:III- 1993:IV	1992:IV- 1993:IV
United States 1	4,571,269	4,630,734	4,680,939	4,738,738	4,761,845	4,812,922	4,840,899	4,911,121	5,001,184	5,077,402	5,122,205	5,312,702	5,234,736	5,354,604	5,395,210	5,491,299	1.8	3.4
New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	287,057 82,250 20,820 132,825 22,319 19,019 9,825	289,375 83,306 21,025 133,603 22,472 19,117 9,853	291,659 84,242 21,112 134,653 22,616 19,180 9,856	291,752 84,734 20,966 134,480 22,555 19,166 9,851	292,486 83,874 21,262 135,189 22,900 19,318 9,943	294,301 84,598 21,244 135,988 23,126 19,322 10,023	294,553 84,376 21,397 135,986 23,282 19,393 10,118	298,215 85,477 21,607 137,679 23,618 19,610 10,225	301,610 86,284 22,001 139,136 23,929 19,808 10,452	305,648 87,864 22,330 140,532 24,152 20,121 10,648	309,081 89,385 22,588 141,523 24,429 20,357 10,799	319,128 92,582 22,906 146,346 25,319 20,929 11,047	311,115 89,461 22,883 142,774 24,619 20,464 10,914	318,979 91,612 23,267 146,716 25,276 20,995 11,113	325,280 93,286 23,603 149,689 25,960 21,383 11,359	328,724 94,139 23,927 151,536 26,138 21,542 11,442	1.1 .9 1.4 1.2 .7 .7	3.0 1.7 4.5 3.5 3.2 2.9 3.6
Mideast Delaware District of Columbia Maryland New Jersey New York Pennsylvania	929,692 12,838 14,029 104,095 183,775 394,875 220,080	944,206 13,090 14,573 105,468 186,556 400,956 223,563	955,881 13,382 15,279 106,939 188,648 405,101 226,532	960,957 13,462 15,631 107,439 189,687 406,402 228,336	963,886 13,711 15,656 108,234 189,085 406,790 230,412	975,020 13,673 15,593 109,262 191,132 412,825 232,535	977,639 13,717 15,319 109,497 191,917 413,058 234,130	989,606 13,893 15,397 110,606 194,104 417,980 237,626	1,006,251 13,949 15,867 111,755 198,315 424,568 241,797	1,020,286 14,205 16,151 113,353 201,323 430,058 245,196	1,033,597 14,352 16,491 114,821 204,206 435,585 248,142	1,072,138 14,766 16,822 117,727 212,308 455,203 255,311	1,036,695 14,573 16,768 116,442 206,153 432,357 250,401	1,068,888 15,031 16,944 119,217 212,472 448,817 256,406	1,079,438 15,113 17,158 120,301 214,361 453,070 259,435	1,091,975 15,452 17,244 121,541 216,927 458,062 262,749	1.2 2.2 .5 1.0 1.2 1.1 1.3	1.9 4.6 2.5 3.2 2.2 .6 2.9
Great Lakes Illinois Indiana Michigan Ohio Wisconsin	756,918 227,240 92,213 167,022 186,751 83,692	766,622 229,465 92,636 169,239 190,500 84,782	774,135 231,358 93,986 171,375 191,670 85,746	781,966 235,096 94,826 171,597 193,511 86,934	783,428 234,170 95,262 171,817 194,829 87,349	790,451 236,731 95,994 174,139 195,339 88,249	798,054 238,031 96,941 175,682 198,276 89,124	809,610 240,774 98,685 178,367 201,257 90,527	824,641 245,951 101,068 180,046 205,214 92,364	839,120 250,142 102,858 183,900 208,260 93,960	846,395 253,213 104,252 184,155 209,545 95,231	875,621 262,126 107,509 190,957 216,387 98,642	863,688 256,993 107,351 188,425 213,437 97,482	881,855 263,209 109,031 192,893 217,514 99,208	889,384 265,089 110,097 194,368 219,638 100,192	908,582 271,317 112,326 199,708 222,895 102,337	2.2 2.3 2.0 2.7 1.5 2.1	3.8 3.5 4.5 4.6 3.0 3.7
Plains lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	307,021 47,027 42,922 81,331 87,658 27,799 9,459 10,827	307,732 45,823 43,337 82,180 88,714 27,368 9,516 10,794	306,956 45,537 43,312 82,271 89,546 26,837 8,942 10,512	317,863 47,112 45,480 83,771 91,064 27,875 11,143 11,418	317,139 47,601 44,543 84,029 92,067 28,312 9,456 11,131	321,173 47,570 45,479 84,873 92,820 29,021 9,838 11,572	320,555 47,196 45,122 85,403 93,584 28,645 9,411 11,195	329,304 48,415 47,070 86,951 95,299 28,902 10,858 11,810	336,833 50,803 47,409 89,502 96,743 30,066 10,357 11,954	339,392 50,542 48,342 90,085 97,692 30,099 10,616 12,017	341,194 50,727 48,268 91,531 98,229 29,933 10,498 12,009	356,298 52,826 51,038 95,325 101,215 31,374 11,767 12,752	351,768 52,281 49,932 94,046 100,239 31,452 11,209 12,609	356,820 51,833 51,671 95,202 102,348 31,498 11,550 12,718	346,800 49,108 50,032 93,551 100,648 30,965 10,328 12,168	364,499 52,941 52,231 97,810 104,235 32,897 11,327 13,059	5.1 7.8 4.4 4.6 3.6 6.2 9.7 7.3	2.3 2.3 2.6 3.0 4.9 -3.7 2.4
Southeast Alabama Arkansas Florida 2 Georgia Kentucky Louisiana 2 Mississippi North Carolina South Carolina Tennessee Virginia West Virginia	963,653 58,999 32,300 240,335 109,132 53,349 59,113 31,881 106,209 51,644 76,498 119,565 24,626	975,579 60,131 32,325 243,366 110,585 53,940 59,748 32,204 108,085 52,665 77,123 120,580 24,826	988,281 60,595 32,334 246,508 112,529 54,720 60,541 32,473 109,587 53,315 78,366 122,160 25,153	997,618 61,603 32,842 248,209 113,379 55,806 61,510 33,033 109,475 53,794 79,156 123,280 25,531	1,012,758 62,896 33,924 252,243 114,792 55,970 62,902 33,672 110,727 54,542 80,309 124,727 26,055	1,023,089 63,416 34,184 253,922 116,478 56,982 63,640 34,065 112,388 54,808 81,179 125,791 26,238	1,032,560 64,110 34,242 255,016 117,694 58,028 64,318 34,277 114,656 55,220 82,005 126,497 26,498	1,046,586 65,027 35,014 257,158 119,412 59,099 65,472 35,044 115,796 55,952 83,833 127,807 26,971	1,069,513 66,604 36,597 261,365 122,194 60,460 66,842 36,060 118,507 57,000 86,104 130,152 27,627	1,086,481 67,562 37,271 264,855 124,237 61,411 68,004 36,589 120,771 57,821 132,205 27,944	1,088,119 68,601 37,157 256,888 125,862 62,177 67,894 36,798 122,842 58,615 88,783 134,176 28,326	1,137,196 70,665 38,711 279,946 130,277 64,125 69,927 37,862 126,350 60,202 92,566 137,603 28,961	1,131,363 70,534 39,013 277,008 128,836 63,229 70,224 38,649 126,020 60,161 91,520 137,206 28,964	1,154,972 71,896 38,657 283,608 133,212 64,676 71,143 38,814 128,828 61,447 93,369 139,882 29,440	1,169,388 72,498 38,853 287,921 134,306 65,625 71,869 39,494 130,910 62,128 94,814 141,459 29,511	1,189,918 73,690 40,030 292,665 137,027 66,727 73,137 40,492 133,798 62,845 96,270 143,139 30,095	1.8 1.6 3.0 1.6 2.0 1.7 1.8 2.5 2.2 1.2 1.5 1.2	4.6 4.3 3.4 4.5 5.2 4.1 4.6 6.9 5.9 4.4 4.0 3.9
Southwest	404,847 58,800 21,089 46,507 278,451	411,506 59,454 21,305 47,064 283,683	417,688 60,277 21,734 47,654 288,023	424,008 60,802 22,280 49,093 291,832	429,463 61,796 22,503 48,695 296,469	435,704 62,389 22,794 49,403 301,117	438,307 62,544 22,913 49,318 303,533	446,818 63,442 23,280 50,707 309,389	456,002 64,772 23,844 51,458 315,928	464,806 65,964 24,248 52,264 322,330	470,378 66,900 24,601 52,575 326,302	487,957 69,112 25,116 54,225 339,505	486,248 68,903 25,587 54,056 337,702	496,681 70,835 26,020 54,972 344,854	501,525 72,385 26,632 55,080 347,428	510,223 73,181 27,135 55,884 354,024	1.7 1.1 1.9 1.5 1.9	4.6 5.9 8.0 3.1 4.3
Rocky Mountain Colorado Idaho Montana Utah Wyoming	118,230 60,569 15,140 11,502 23,585 7,434	120,338 61,658 15,415 11,578 24,080 7,607	121,447 62,407 15,370 11,440 24,546 7,685	125,658 64,016 16,004 12,639 25,068 7,930	126,285 64,825 15,837 12,130 25,405 8,089	129,160 66,168 16,315 12,479 25,947 8,251	130,028 66,714 16,349 12,416 26,238 8,311	133,986 68,369 16,973 13,467 26,716 8,461	135,296 69,426 17,124 12,891 27,383 8,471	137,958 70,818 17,542 13,166 27,824 8,608	139,777 71,898 17,721 13,177 28,352 8,629	145,188 74,257 18,596 14,142 29,267 8,926	146,439 74,932 18,798 14,356 29,313 9,041	149,768 76,581 19,414 14,759 29,884 9,130	150,354 77,399 19,280 14,248 30,235 9,192	153,870 78,667 20,088 14,800 30,923 9,391	2.3 1.6 4.2 3.9 2.3 2.2	6.0 5.9 8.0 4.7 5.7 5.2
Far West Alaska	803,852 11,244 606,796 22,346 23,844 47,931 91,691	815,376 11,532 614,023 22,995 24,364 48,920 93,542	824,892 11,616 620,174 23,576 25,049 49,421 95,056	838,916 11,807 629,722 24,149 25,472 50,374 97,392	836,400 12,017 625,310 24,258 25,949 50,698 98,168	844,023 12,148 629,828 24,330 26,397 51,391 99,928	849,201 12,294 632,401 24,516 26,791 51,836 101,363	856,997 12,446 636,065 24,846 27,192 52,877 103,571	871,037 12,759 645,210 25,521 27,925 53,703 105,918	883,710 12,891 653,838 25,887 28,375 54,642 108,077	893,665 12,997 661,788 24,336 29,030 55,657 109,856	919,175 13,233 677,430 26,885 30,394 57,141 114,091	907,420 13,500 666,529 27,043 30,560 57,796 111,991	926,641 13,690 680,188 27,459 31,248 58,709 115,348	933,040 13,702 685,513 27,374 31,826 59,131 115,495	943,508 13,862 692,016 27,568 32,641 60,156 117,265	1.1 1.2 .9 .7 2.6 1.7 1.5	2.6 4.7 2.2 2.5 7.4 5.3 2.8
									Census D	ivisions								
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	287,057 798,730 756,918 307,021 782,474 220,728 416,371 221,962 780,009	289,375 811,075 766,622 307,732 793,239 223,398 422,820 225,461 791,012	291,659 820,281 774,135 306,956 804,852 226,154 428,553 228,507 799,843	291,752 824,425 781,966 317,863 810,200 229,598 435,278 234,212 813,444	292,486 826,286 783,428 317,139 820,685 232,847 441,990 236,534 810,451	294,301 836,492 790,451 321,173 828,152 235,641 448,345 240,740 817,626	294,553 839,105 798,054 320,555 834,114 238,420 451,411 242,276 822,410	298,215 849,710 809,610 329,304 842,992 243,003 460,582 247,899 829,805	301,610 864,680 824,641 336,833 858,417 249,228 470,824 251,838 843,112	305,648 876,577 839,120 339,392 871,542 253,374 479,870 256,544 855,335	309,081 887,933 846,395 341,194 872,372 256,359 483,928 260,308 864,635	319,128 922,822 875,621 356,298 912,656 265,218 502,368 269,810 888,781	311,115 888,911 863,688 351,768 905,978 263,932 500,994 271,490 876,860	318,979 917,695 881,855 356,820 927,609 268,755 509,626 277,872 895,393	325,280 926,865 889,384 346,800 938,807 272,431 513,231 281,196 901,214	328,724 937,738 908,582 364,499 953,807 277,180 523,075 286,826 910,867	1.1 1.2 2.2 5.1 1.6 1.7 1.9 2.0 1.1	3.0 1.6 3.8 2.3 4.5 4.5 4.1 6.3 2.5

Revised.Preliminary.

^{1.} 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) estimate of personal income 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. It can also differ from the NIPA estimate because of different data sources and revision schedules.

^{2.} The third quarter 1992 estimates of personal income reflect the losses resulting from damage caused by Hurricane Andrew in Florida and Louisiana and by Hurricane Iniki in Hawaii.

3. The third quarter 1993 estimates of personal income reflect the losses resulting from damage caused by floods in Illinois, lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, and Wisconsin and by drought in Georgia, North Carolina, South Carolina, and Virginia.

NOTE.—The quarterly estimates of State personal income were prepared by Marian B. Sacks, James P. Stehle, Isabelle B. Whiston, and James M. Zavrel, under the supervision of Robert L. Brown.

Table 2.—Nonfarm Personal Income, States and Regions

[Millions of dollars, seasonally adjusted at annual rates]

		19	90			19	91	3casoriaii	,,	19				19	93		Percent	change
State and region	P	11 "	III r	IV ^r	\mathbf{I}^r	$\ r$	r	IV ^r	I ^r	r	r	IV ^r	I ^r	$\ r\ $	^{r 2}	IV ^p	1993:III- 1993:IV	1992:IV- 1993:IV
United States	4,513,093	4,582,157	4,645,216	4,688,369	4,717,370	4,762,695	4,803,437	4,865,346	4,947,979	5,025,609	5,080,725	5,259,114	5,176,936	5,304,190	5,365,738	5,433,995	1.3	3.3
New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	286,235 82,011 20,624 132,631 22,276 18,980 9,713	288,611 83,087 20,849 133,418 22,429 19,081 9,746	290,967 84,041 20,951 134,484 22,578 19,149 9,764	291,075 84,542 20,802 134,316 22,516 19,134 9,765	291,722 83,650 21,108 134,973 22,855 19,280 9,856	293,491 84,364 21,081 135,756 23,078 19,282 9,931	293,786 84,159 21,242 135,763 23,237 19,356 10,029	297,475 85,270 21,452 137,460 23,576 19,574 10,143	300,761 86,059 21,842 138,911 23,877 19,768 10,304	304,753 87,631 22,157 140,291 24,099 20,081 10,494	308,250 89,162 22,427 141,300 24,379 20,320 10,662	318,295 92,361 22,735 146,120 25,270 20,892 10,917	310,308 89,228 22,665 142,562 24,584 20,428 10,841	318,225 91,382 23,073 146,508 25,248 20,959 11,055	324,545 93,052 23,419 149,493 25,932 21,346 11,304	327,822 93,837 23,698 151,301 26,107 21,500 11,379	1.0 .8 1.2 1.2 .7 .7	3.0 1.6 4.2 3.5 3.3 2.9 4.2
Mideast	926,970 12,667 14,029 103,665 183,521 393,982 219,107	941,638 12,937 14,573 105,074 186,301 400,120 222,632	953,644 13,246 15,279 106,591 188,435 404,393 225,700	958,790 13,339 15,631 107,110 189,471 405,721 227,518	961,816 13,573 15,656 107,885 188,847 406,073 229,782	972,793 13,519 15,593 108,874 190,872 412,072 231,863	975,629 13,579 15,319 109,146 191,673 412,384 233,529	987,592 13,753 15,397 110,258 193,872 417,307 237,005	1,003,630 13,801 15,867 111,336 198,064 423,766 240,797	1,017,620 14,062 16,151 112,941 201,042 429,263 244,160	1,031,203 14,226 16,491 114,430 203,963 434,871 247,222	1,069,733 14,630 16,822 117,329 212,063 454,481 254,408	1,034,382 14,413 16,768 116,059 205,920 431,637 249,584	1,066,876 14,865 16,944 118,871 212,254 448,217 255,724	1,077,478 14,944 17,158 119,968 214,157 452,492 258,759	1,089,625 15,245 17,244 121,144 216,680 457,352 261,960	1.1 2.0 .5 1.0 1.2 1.1 1.2	1.9 4.2 2.5 3.3 2.2 .6 3.0
Great Lakes Illinois Indiana Michigan Ohio Wisconsin	748,661 224,534 90,963 166,024 185,206 81,933	761,041 228,076 91,910 168,495 189,280 83,280	770,724 230,901 93,615 170,828 190,759 84,621	777,211 233,961 94,210 170,901 192,417 85,723	779,730 233,331 94,990 171,095 193,961 86,353	786,420 235,641 95,728 173,364 194,434 87,253	795,780 237,784 96,912 175,116 197,650 88,317	806,838 240,392 98,627 177,721 200,525 89,573	818,577 243,935 100,164 179,246 203,919 91,313	833,845 248,490 102,171 183,092 207,080 93,012	842,066 251,982 103,718 183,521 208,446 94,399	870,634 260,580 106,912 190,233 215,297 97,612	857,990 255,772 106,141 187,078 212,603 96,395	877,344 261,625 108,445 191,849 217,037 98,387	887,089 264,889 109,583 193,366 219,263 99,989	902,216 268,938 111,424 198,177 222,198 101,479	1.7 1.5 1.7 2.5 1.3 1.5	3.6 3.2 4.2 4.2 3.2 4.0
Plains lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	292,650 43,090 41,389 78,634 86,875 24,507 8,833 9,322	297,528 43,718 42,111 80,172 88,174 24,985 8,914 9,455	301,514 44,518 42,761 81,098 89,209 25,261 9,025 9,643	304,986 45,169 43,028 81,845 90,183 25,811 9,160 9,790	308,267 45,448 43,674 82,583 91,489 25,984 9,134 9,954	311,169 45,897 44,018 83,483 92,280 26,207 9,204 10,080	314,866 46,283 44,638 84,489 93,284 26,609 9,300 10,262	318,932 46,994 45,223 85,516 94,528 26,849 9,411 10,410	324,908 47,755 46,112 87,725 95,920 27,165 9,608 10,622	329,197 48,498 46,846 88,781 96,850 27,686 9,727 10,809	333,395 49,040 47,303 90,458 97,699 28,020 9,898 10,978	343,222 50,482 48,837 93,588 100,175 28,799 10,115 11,226	340,368 50,119 48,225 92,563 99,237 28,609 10,221 11,394	347,279 51,133 49,284 94,341 101,378 29,222 10,356 11,565	349,681 51,172 49,786 95,313 101,769 29,568 10,367 11,705	356,225 52,481 50,343 97,213 103,825 29,894 10,560 11,910	1.9 2.6 1.1 2.0 2.0 1.1 1.9	3.8 4.0 3.1 3.9 3.6 3.8 4.4 6.1
Southeast Alabama Arkansas Florida ¹ Georgia Kentucky Louisiana ¹ Mississippi North Carolina South Carolina Tennessee Virginia West Virginia	950,493 58,048 30,918 237,568 107,719 52,173 58,497 31,284 103,584 51,307 76,024 118,828 24,544	964,239 59,095 31,237 241,251 109,305 52,907 59,269 31,753 105,675 52,376 76,707 119,916 24,748	978,915 59,802 31,741 244,117 111,528 53,874 60,285 32,235 107,519 53,108 78,055 121,564 25,088	987,304 60,637 32,072 245,785 112,280 54,810 61,217 32,633 107,505 53,501 78,709 122,689 25,465	999,315 61,548 32,564 249,286 113,305 54,911 62,262 33,050 108,323 54,141 79,835 124,096 25,993	1,008,735 62,118 32,912 250,539 114,788 55,881 63,078 33,445 109,632 54,367 80,714 125,091 26,170	1,020,078 62,881 33,492 251,850 116,153 57,057 63,991 33,926 111,943 54,861 125,872 26,436	1,034,221 63,876 34,201 254,199 117,854 58,040 65,119 34,550 113,365 55,569 83,353 127,186 26,910	1,054,843 65,419 34,978 258,114 120,516 66,228 35,306 115,922 56,636 85,496 129,498 27,556	1,071,877 66,446 35,600 261,888 122,454 67,241 35,840 118,176 57,454 87,183 131,549 27,865	1,076,539 67,656 36,041 254,594 124,377 60,970 67,616 36,389 120,398 58,343 88,323 133,571 28,261	1,124,353 69,525 37,502 277,345 128,616 62,830 69,498 37,246 124,093 59,841 91,954 137,005 28,897	1,116,914 69,387 36,943 274,283 127,175 62,155 69,531 37,590 123,350 59,805 91,045 136,715 28,934	1,143,246 70,692 37,599 281,097 131,555 63,642 70,895 38,296 126,459 61,115 93,021 139,449 29,426	1,159,361 71,521 37,953 285,399 132,914 64,692 71,787 39,182 128,611 62,009 94,592 141,192 29,509	1,174,643 72,453 38,359 289,334 135,077 65,474 72,452 39,756 130,603 62,529 95,855 142,669 30,081	1.3 1.3 1.1 1.4 1.6 1.2 .9 1.5 1.5 1.5 1.9	4.5 4.2 2.3 4.3 5.0 4.2 4.3 6.7 5.2 4.5 4.1 4.1
Southwest	399,359 58,010 20,674 45,612 275,062	406,465 58,729 20,962 46,242 280,532	414,105 59,616 21,415 46,949 286,125	418,054 60,151 21,764 47,595 288,544	424,540 60,997 22,077 47,997 293,469	429,664 61,446 22,288 48,410 297,519	434,496 61,807 22,543 48,856 301,291	441,732 62,733 22,863 49,650 306,486	450,654 64,059 23,342 50,449 312,804	458,737 65,262 23,729 51,210 318,536	466,258 66,283 24,195 51,869 323,911	481,719 68,471 24,627 53,014 335,607	478,319 67,925 25,026 52,933 332,435	489,876 70,045 25,483 53,802 340,546	496,568 71,372 26,085 54,343 344,768	502,076 72,134 26,378 54,636 348,929	1.1 1.1 1.1 .5 1.2	4.2 5.4 7.1 3.1 4.0
Rocky Mountain Colorado Idaho Montana Utah Wyoming	115,486 59,596 14,039 11,227 23,329 7,295	117,630 60,740 14,277 11,303 23,838 7,472	119,667 61,746 14,550 11,465 24,350 7,557	121,762 62,800 14,843 11,595 24,793 7,732	124,047 64,120 15,063 11,786 25,200 7,879	126,018 65,183 15,306 11,883 25,686 7,960	127,935 66,051 15,591 12,160 26,034 8,099	130,260 67,277 15,909 12,382 26,472 8,221	132,961 68,629 16,284 12,649 27,135 8,265	135,349 69,982 16,654 12,814 27,538 8,360	137,713 71,187 16,936 13,025 28,122 8,443	141,380 73,110 17,442 13,218 28,957 8,653	142,686 73,661 17,617 13,542 29,075 8,791	145,491 75,268 18,010 13,710 29,650 8,853	147,425 76,397 18,219 13,783 30,063 8,963	149,492 77,238 18,570 13,930 30,675 9,079	1.4 1.1 1.9 1.1 2.0 1.3	5.7 5.6 6.5 5.4 5.9 4.9
Far West	793,239 11,239 598,682 22,108 23,730 47,089 90,391	805,006 11,527 606,096 22,745 24,261 48,078 92,300	815,681 11,610 613,149 23,325 24,956 48,701 93,941	829,186 11,798 622,963 23,899 25,374 49,422 95,730	827,934 12,011 619,065 24,030 25,854 49,966 97,009	834,405 12,142 622,904 24,103 26,290 50,519 98,447	840,867 12,288 626,182 24,294 26,698 51,121 100,284	848,295 12,436 630,153 24,630 27,100 51,993 101,983	861,646 12,754 638,346 25,290 27,861 52,919 104,475	874,231 12,885 647,020 25,655 28,301 53,831 106,539	885,300 12,992 655,671 24,193 28,968 54,930 108,546	909,778 13,224 671,000 26,656 30,320 56,229 112,349	895,969 13,496 658,535 26,805 30,430 56,714 109,989	915,854 13,685 672,988 27,221 31,138 57,626 113,197	923,590 13,701 678,991 27,140 31,714 58,213 113,831	931,895 13,858 684,059 27,325 32,501 58,977 115,175	.9 1.1 .7 .7 2.5 1.3 1.2	2.4 4.8 1.9 2.5 7.2 4.9 2.5
									Census D	ivisions								
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	286,235 796,610 748,661 292,650 773,911 217,529 410,089 217,901 769,509	288,611 809,054 761,041 297,528 785,855 220,463 417,279 221,582 780,745	290,967 818,528 770,724 301,514 798,039 223,965 425,100 225,653 790,726	291,075 822,710 777,211 304,986 803,307 226,790 429,427 229,052 803,812	291,722 824,702 779,730 308,267 812,258 229,345 436,292 232,975 802,080	293,491 834,807 786,420 311,169 818,573 232,158 441,919 236,042 808,115	293,786 837,585 795,780 314,866 825,157 235,481 447,630 238,983 814,169	297,475 848,184 806,838 318,932 834,490 239,819 455,456 242,956 821,195	300,761 862,626 818,577 324,908 849,246 245,394 464,460 248,223 833,785	304,753 874,465 833,845 329,197 862,539 249,652 472,587 252,642 845,929	308,250 886,056 842,066 333,395 864,691 253,338 479,437 257,160 856,332	318,295 920,952 870,634 343,222 904,579 261,556 495,621 264,798 879,458	310,308 887,141 857,990 340,368 897,503 260,177 491,842 266,066 865,539	318,225 916,195 877,344 347,279 919,781 265,652 502,841 272,157 884,716	324,545 925,407 887,089 349,681 931,705 269,988 508,851 276,596 891,876	327,822 935,992 902,216 356,225 943,926 273,538 514,376 280,504 899,395	1.0 1.1 1.7 1.9 1.3 1.3 1.1 1.4	3.0 1.6 3.6 3.8 4.3 4.6 3.8 5.9 2.3

r Revised.
 ρ Preliminary.
 NOTE.—Nonfarm personal income is total personal income less farm earnings.
 1. The third quarter 1992 estimates of personal income reflect the losses resulting from damage caused by Hurri-

cane Andrew in Florida and Louisiana and by Hurricane Iniki in Hawaii.
2. The third quarter 1993 estimates of nonfarm personal income reflect the losses resulting from damage caused by floods in Illinois, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, and Wisconsin.

Table 3.—Total and Per Capita Personal Income for States and Regions, 1988-93

	Table 3.	—ı otai	and Per	Саріта	Person	ai incon	ne for St	ates and	Region	15, 1988	-93				
				Total							Per ca	pita 3			
Area name			Millions of	of Dollars			Percent change ²			Doll	ars			Rank ii	n U.S.
	1988 ^r	1989 ^r	1990 ^r	1991 ^r	1992 ^r	1993 <i>p</i>	1992-93	1988 ^r	1989 ^r	1990 °	1991 ^r	1992 ^r	1993 <i>p</i>	1988	1993
United States ¹	4,061,806	4,366,135	4,655,420	4,831,697	5,128,373	5,368,962	4.7	16,610	17,690	18,667	19,163	20,105	20,817		
New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	265,334 75,790 18,486 124,327 20,888 17,261 8,581	281,095 80,601 20,089 130,466 22,065 18,454 9,421	289,961 83,633 20,981 133,890 22,491 19,121 9,846	294,889 84,581 21,378 136,210 23,231 19,411 10,077	308,867 89,029 22,456 141,884 24,457 20,304 10,737	321,025 92,124 23,420 147,679 25,498 21,096 11,207	3.9 3.5 4.3 4.1 4.3 3.9 4.4	20,276 23,160 15,354 20,787 19,292 17,321 15,607	21,325 24,548 16,467 21,688 19,977 18,441 16,891	21,935 25,426 17,041 22,248 20,231 19,035 17,444	22,338 25,705 17,294 22,719 20,973 19,340 17,750	23,406 27,150 18,163 23,676 21,933 20,276 18,792	24,265 28,110 18,895 24,563 22,659 21,096 19,467	1 27 3 6 14 23	1 32 4 9 17 26
Mideast Delaware District of Columbia Maryland New Jersey New York Pennsylvania	834,323 11,371 13,420 91,790 167,602 353,658 196,483	894,080 12,420 14,227 99,769 178,582 377,342 211,739	947,684 13,193 14,878 105,985 187,167 401,833 224,628	976,538 13,748 15,491 109,400 191,559 412,663 233,676	1,033,068 14,318 16,333 114,414 204,038 436,354 247,611	1,069,249 15,042 17,028 119,375 212,478 448,076 257,248	3.5 5.1 4.3 4.3 4.1 2.7 3.9	19,206 17,555 21,284 19,703 21,729 19,709 16,584	20,513 18,867 22,794 21,105 23,114 20,983 17,844	21,682 19,719 24,643 22,088 24,182 22,322 18,884	22,241 20,195 26,069 22,494 24,644 22,866 19,557	23,416 20,724 27,909 23,268 26,091 24,095 20,642	24,099 21,481 29,438 24,044 26,967 24,623 21,351	12 5 2 4 17	
Great Lakes Illinois Indiana Michigan Ohio Wisconsin	680,125 201,919 81,901 152,142 169,902 74,260	728,259 217,594 88,227 162,359 180,248 79,831	769,910 230,790 93,415 169,808 190,608 85,288	795,386 237,427 96,720 175,001 197,425 88,812	846,445 252,858 103,922 184,765 209,851 95,049	885,877 264,152 109,701 193,849 218,371 99,805	4.7 4.5 5.6 4.9 4.1 5.0	16,299 17,725 14,911 16,502 15,732 15,397	17,392 19,071 15,972 17,546 16,644 16,438	18,297 20,159 16,815 18,239 17,547 17,399	18,762 20,602 17,251 18,667 18,047 17,954	19,814 21,774 18,366 19,586 19,040 19,038	20,594 22,582 19,203 20,453 19,688 19,811	10 31 20 22 26	10 30 20 24 22
Plains lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	269,192 39,681 38,778 70,914 79,134 23,908 7,816 8,962	289,663 43,352 40,553 77,405 84,348 25,276 8,877 9,851	309,893 46,375 43,763 82,388 89,245 27,470 9,765 10,888	322,043 47,695 45,553 85,314 93,442 28,720 9,891 11,427	343,429 51,225 48,764 91,611 98,470 30,368 10,809 12,183	354,972 51,541 50,967 95,152 101,867 31,703 11,104 12,638	3.4 .6 4.5 3.9 3.5 4.4 2.7 3.7	15,351 14,332 15,748 16,504 15,570 15,211 11,925 12,835	16,462 15,647 16,399 17,843 16,552 16,050 13,735 14,139	17,519 16,683 17,639 18,784 17,407 17,379 15,320 15,628	18,104 17,096 18,290 19,276 18,121 18,059 15,617 16,286	19,164 18,275 19,387 20,503 18,970 18,974 17,048 17,198	19,662 18,315 20,139 21,063 19,463 19,726 17,488 17,666	34 21 19 24 28 49	35 21 18 27 23 39 37
Southeast Alabama Arkansas Florida Georgia Kentucky Louisiana Mississippi North Carolina South Carolina Tennessee Virginia West Virginia	849,116 52,521 28,793 205,127 97,819 46,930 53,911 28,854 93,560 45,018 68,379 106,011 22,193	916,226 56,291 30,702 228,024 104,184 50,586 56,369 30,672 100,010 47,995 73,177 114,864 23,352	981,283 60,332 32,450 244,604 111,406 54,454 60,228 32,398 108,339 52,855 77,786 121,397 25,034	1,028,748 63,863 34,341 254,585 117,094 57,520 64,083 34,265 113,392 55,130 81,831 126,206 26,440	1,095,327 68,358 37,434 265,764 125,642 62,043 68,167 36,827 122,117 58,410 88,816 133,534 28,215	1,161,410 72,154 39,138 285,300 133,345 65,064 71,593 39,362 129,889 61,645 93,993 140,421 29,503	6.0 5.6 4.6 7.4 6.1 4.9 5.0 6.9 6.4 5.5 5.8 5.2 4.6	14,607 13,051 12,289 16,666 15,485 12,751 12,568 11,181 14,435 13,192 14,177 17,558 12,124	15,600 13,967 13,085 18,043 16,250 13,756 13,254 11,915 15,233 13,884 15,074 18,768 12,926	16,501 14,899 13,779 18,785 17,121 14,751 14,279 12,578 16,284 15,101 15,903 19,543 13,964	17,071 15,614 14,485 19,180 17,666 15,483 15,100 13,218 16,802 15,484 16,524 20,071 14,695	17,926 16,522 15,635 19,711 18,549 16,528 15,931 14,082 17,863 16,212 17,674 20,883 15,598	18,753 17,234 16,143 20,857 19,278 17,173 16,667 14,894 18,702 16,923 18,434 21,634 16,209	39 47 16 25 43 44 50 33 38 36 11	41 49 19 29 42 45 50 33 44 34 13
Southwest Arizona New Mexico Oklahoma Texas	360,245 53,251 18,713 42,158 246,122	385,260 56,646 20,134 44,694 263,785	414,512 59,833 21,602 47,580 285,497	437,573 62,543 22,872 49,531 302,627	469,786 66,687 24,452 52,630 326,016	498,669 71,326 26,343 54,998 346,002	6.1 7.0 7.7 4.5 6.1	14,489 15,061 12,554 13,310 14,765	15,359 15,639 13,388 14,187 15,695	16,323 16,262 14,213 15,117 16,747	16,952 16,697 14,781 15,636 17,440	17,861 17,401 15,458 16,420 18,437	18,596 18,121 16,297 17,020 19,189	30 45 37 32	36 46 43 31
Rocky Mountain Colorado Idaho Montana Utah Wyoming	104,451 53,966 12,668 10,269 20,915 6,633	113,279 58,202 14,241 11,317 22,520 6,999	121,418 62,163 15,482 11,790 24,320 7,664	129,865 66,519 16,368 12,623 26,076 8,278	139,555 71,600 17,746 13,344 28,206 8,659	150,108 76,895 19,395 14,541 30,089 9,188	7.6 7.4 9.3 9.0 6.7 6.1	14,500 16,540 12,850 12,832 12,379 14,260	15,659 17,767 14,321 14,152 13,201 15,270	16,639 18,818 15,304 14,743 14,063 16,905	17,456 19,740 15,773 15,632 14,759 18,076	18,293 20,666 16,649 16,227 15,573 18,631	19,160 21,564 17,646 17,322 16,180 19,539	18 40 42 46 35	14 38 40 48 25
Far West Alaska California Hawaii Nevada Oregon Washington	699,019 9,720 532,444 18,924 19,253 41,327 77,352	758,274 10,741 573,255 20,957 22,031 45,452 85,838	820,759 11,550 617,679 23,266 24,682 49,161 94,420	846,656 12,226 630,901 24,488 26,582 51,701 100,758	891,897 12,970 659,567 25,657 28,931 55,286 109,485	927,652 13,688 681,061 27,361 31,569 58,948 115,025	4.0 5.5 3.3 6.6 9.1 6.6 5.1	18,134 17,931 18,703 17,522 17,907 15,074 16,669	19,180 19,631 19,620 19,146 19,370 16,287 18,085	20,242 20,887 20,656 20,905 20,248 17,201 19,268	20,483 21,498 20,748 21,576 20,639 17,714 20,087	21,190 22,067 21,348 22,200 21,648 18,605 21,289	21,747 22,846 21,821 23,354 22,729 19,443 21,887	8 7 13 9 29 15	7 12 6 8 28 11
				•			Ce	nsus Division:	s		'				
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	265,334 717,743 680,125 269,192 686,308 196,685 370,985 195,669 679,766	281,095 767,664 728,259 289,663 744,846 210,725 395,550 212,091 736,242	289,961 813,628 769,910 309,893 797,691 224,970 425,755 227,536 796,077	294,889 837,899 795,386 322,043 831,486 237,478 450,582 241,862 820,073	308,867 888,003 846,445 343,429 878,746 256,045 484,247 259,625 862,965	321,025 917,803 885,877 354,972 931,550 270,574 511,732 279,346 896,084	3.9 3.4 4.7 3.4 6.0 5.7 5.7 7.6 3.8	20,276 19,137 16,299 15,351 16,215 13,018 14,016 14,706 18,140	21,325 20,430 17,392 16,462 17,319 13,922 14,895 15,713 19,175	21,935 21,618 18,297 17,519 18,230 14,793 15,905 16,590 20,242	22,338 22,185 18,762 18,104 18,712 15,471 16,606 17,250 20,478	23,406 23,415 19,814 19,164 19,488 16,485 17,570 18,055 21,175	24,265 24,074 20,594 19,662 20,367 17,215 18,287 18,906 21,713		

^r Revised.

P Preliminary.

1. 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) estimate of personal income because, by definition, it omits the earnings of Federal civilian and military personnel stationed abroad and of U.S. residents employed abroad tem-

porarily by private U.S. firms. It can also differ from the NIPA estimate because of different data sources and revision schedules.

2. Percent change was calculated from unrounded data.

3. Per capita personal income was computed using midyear population estimates of the Bureau of the Census. Estimates for 1990–93 reflect State population estimates available as of February 1994.

Table 4.—Total and Per Capita Disposable Personal Income for States and Regions, 1988-93

Table	4.—10ta	ii and P	er Capit		sable P	ersonai	income	tor State	es and i	Regions					
				Total							Per ca	pita ²			
Area name			Millions o	of Dollars			Percent change ¹			Doll				Rank ii	
	1988 ^r	1989 ^r	1990 r	1991 ^r	1992 ^r	1993 ^p	1992-93	1988 ^r	1989 ^r	1990 ^r	1991 ^r	1992 ^r	1993 <i>p</i>	1988	1993
United States	3,535,222	3,774,071	4,033,622	4,212,193	4,484,138	4,687,969	4.5	14,457	15,291	16,173	16,706	17,580	18,177		
New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	228,223 64,491 16,254 106,361 18,643 14,952 7,521	241,080 68,494 17,678 111,294 19,659 15,751 8,204	248,890 71,062 18,546 113,899 20,144 16,645 8,594	254,494 72,320 19,088 116,471 20,835 16,932 8,848	265,943 75,393 20,098 121,365 21,919 17,729 9,439	276,066 77,920 20,944 126,168 22,819 18,384 9,830	3.8 3.4 4.2 4.0 4.1 3.7 4.2	17,440 19,707 13,500 17,784 17,219 15,004 13,678	18,289 20,860 14,490 18,501 17,799 15,741 14,711	18,828 21,604 15,064 18,926 18,120 16,570 15,225	19,278 21,979 15,442 19,427 18,810 16,870 15,584	20,153 22,992 16,256 20,252 19,656 17,706 16,521	20,867 23,776 16,898 20,985 20,278 18,384 17,076	1 27 3 4 13 24	1 29 3 7 17 28
Mideast Delaware District of Columbia Maryland New Jersey New York Pennsylvania	709,892 9,460 11,268 78,078 143,517 296,749 170,819	756,872 10,298 11,906 83,823 153,535 313,206 184,104	806,967 11,069 12,263 89,726 161,396 337,229 195,284	837,899 11,703 12,920 92,664 165,718 350,419 204,475	887,968 12,217 13,689 97,734 176,849 371,430 216,049	918,816 12,867 14,227 102,041 184,012 381,186 224,484	3.5 5.3 3.9 4.4 4.1 2.6 3.9	16,341 14,605 17,871 16,760 18,606 16,538 14,418	17,365 15,643 19,075 17,732 19,872 17,417 15,515	18,463 16,545 20,312 18,700 20,852 18,733 16,417	19,083 17,190 21,743 19,053 21,319 19,417 17,113	20,127 17,682 23,391 19,876 22,614 20,510 18,011	20,709 18,374 24,595 20,552 23,354 20,948 18,632	15 5 2 6 18	18 5 2 4 14
Great Lakes Illinois Indiana Michigan Ohio Wisconsin	593,024 175,009 71,966 132,438 148,972 64,639	629,888 187,719 76,887 139,905 156,510 68,866	667,483 199,341 81,308 147,448 165,624 73,762	692,397 206,125 84,616 152,737 172,106 76,814	740,115 220,325 91,256 161,837 184,038 82,659	772,637 229,825 96,113 169,518 190,551 86,630	4.4 4.3 5.3 4.7 3.5 4.8	14,212 15,363 13,102 14,365 13,794 13,402	15,043 16,452 13,919 15,119 14,453 14,180	15,863 17,412 14,636 15,837 15,247 15,047	16,333 17,886 15,092 16,292 15,732 15,529	17,325 18,972 16,128 17,155 16,698 16,556	17,961 19,648 16,824 17,886 17,180 17,196	10 32 19 22 28	10 31 20 25 24
Plains lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	235,716 34,826 33,990 60,875 69,564 21,281 6,995 8,185	251,241 37,583 34,920 66,033 73,393 22,487 7,884 8,941	269,410 40,351 37,855 70,134 78,166 24,247 8,819 9,837	280,868 41,275 39,788 72,641 82,527 25,365 8,881 10,391	300,373 44,510 42,809 78,267 87,074 26,863 9,766 11,085	309,122 44,411 44,629 80,894 89,803 27,990 9,961 11,433	2.9 2 4.3 3.4 3.1 4.2 2.0 3.1	13,442 12,578 13,804 14,168 13,687 13,540 10,672 11,721	14,279 13,565 14,121 15,222 14,403 14,278 12,198 12,834	15,231 14,516 15,258 15,990 15,246 15,340 13,837 14,120	15,790 14,794 15,976 16,413 16,004 15,950 14,023 14,809	16,762 15,880 17,019 17,516 16,775 16,784 15,403 15,648	17,122 15,782 17,635 17,907 17,158 17,416 15,688 15,981	36 21 20 23 26 49 39	38 21 19 26 23 39 35
Southeast Alabama Arkansas Florida Georgia Kentucky Louisiana Mississippi North Carolina South Carolina Tennessee Virginia West Virginia	749,616 46,931 25,717 179,594 85,735 41,327 48,852 26,475 81,858 40,040 61,866 91,031 20,190	804,746 49,870 27,362 200,008 90,561 44,215 50,815 27,902 87,117 42,084 65,749 98,168 20,895	864,179 53,564 28,816 215,305 96,897 47,621 53,686 29,597 94,761 46,645 70,020 104,895 22,372	910,586 56,677 30,617 226,123 102,747 50,254 57,222 31,418 99,469 48,978 74,190 109,201 23,690	971,933 60,891 33,473 236,372 110,377 54,309 61,226 33,837 107,389 52,124 80,628 115,898 25,409	1,028,593 64,193 34,971 253,237 116,701 56,871 64,204 36,025 114,049 54,900 85,175 121,780 26,487	5.8 5.4 4.5 7.1 5.7 4.7 4.9 6.5 6.2 5.3 5.6 5.1 4.2	12,896 11,662 10,976 14,591 13,572 11,229 11,389 10,259 12,629 11,733 12,827 15,077 11,030	13,702 12,374 11,662 15,826 14,126 12,024 11,948 10,839 13,269 12,174 13,544 16,040 11,566	14,532 13,227 12,236 16,535 14,891 12,901 12,728 11,491 14,243 13,327 14,315 16,886 12,479	15,110 13,857 12,914 17,036 15,502 13,528 13,483 12,120 14,739 13,756 14,981 17,366 13,167	15,906 14,717 13,981 17,532 16,296 14,468 14,309 12,939 15,709 14,467 16,045 18,125 14,047	16,608 15,332 14,424 18,513 16,871 15,010 14,947 13,631 16,421 15,071 16,705 18,762 14,552	40 48 16 25 44 43 50 35 38 34 11 46	40 48 16 30 44 45 50 34 42 33 13
Southwest Arizona New Mexico Oklahoma Texas	319,949 46,885 16,595 37,582 218,888	341,586 49,623 18,019 39,537 234,406	365,875 52,753 19,238 41,832 252,052	388,137 54,855 20,463 43,615 269,204	418,382 58,683 21,921 46,592 291,186	443,546 62,666 23,580 48,666 308,635	6.0 6.8 7.6 4.5 6.0	12,868 13,261 11,133 11,865 13,131	13,618 13,700 11,982 12,550 13,947	14,408 14,338 12,658 13,291 14,785	15,037 14,645 13,224 13,768 15,514	15,907 15,312 13,858 14,536 16,467	16,541 15,921 14,587 15,060 17,116	29 45 37 31	37 46 43 27
Rocky Mountain Colorado Idaho Montana Utah Wyoming	92,747 47,560 11,457 9,126 18,625 5,979	99,271 50,573 12,804 9,858 19,836 6,200	105,753 53,617 13,998 10,263 21,024 6,852	113,357 57,394 14,801 11,047 22,692 7,422	121,916 61,875 16,048 11,663 24,557 7,772	131,069 66,425 17,557 12,699 26,157 8,231	7.5 7.4 9.4 8.9 6.5 5.9	12,875 14,577 11,622 11,403 11,023 12,854	13,723 15,438 12,876 12,329 11,628 13,526	14,492 16,231 13,836 12,834 12,158 15,114	15,237 17,032 14,262 13,681 12,844 16,208	15,981 17,859 15,056 14,183 13,558 16,724	16,730 18,628 15,974 15,128 14,066 17,504	17 41 42 47 33	15 36 41 49 22
Far West Alaska California Hawaii Nevada Oregon Washington	606,054 8,780 459,231 16,239 16,701 36,064 69,039	649,387 9,467 488,570 17,600 19,111 38,932 75,707	705,064 10,149 528,976 19,691 21,434 42,044 82,770	734,456 10,836 546,875 20,847 23,132 44,448 88,318	777,507 11,545 574,751 21,934 25,254 47,556 96,467	808,120 12,166 592,902 23,476 27,474 50,726 101,376	3.9 5.4 3.2 7.0 8.8 6.7 5.1	15,722 16,198 16,131 15,036 15,533 13,154 14,877	16,426 17,303 16,721 16,079 16,802 13,951 15,951	17,389 18,354 17,690 17,693 17,584 14,711 16,890	17,769 19,054 17,985 18,368 17,960 15,229 17,607	18,473 19,642 18,603 18,978 18,897 16,004 18,758	18,944 20,306 18,997 20,038 19,781 16,731 19,290	7 8 12 9 30 14	6 12 8 9 32 11
							Ce	nsus Division	s						
New England	228,223 611,085 593,024 235,716 597,254 176,599 331,039 172,928 589,353	241,080 650,845 629,888 251,241 644,859 187,736 352,121 186,024 630,277	248,890 693,909 667,483 269,410 693,933 200,802 376,386 199,179 683,630	254,494 720,612 692,397 280,868 727,494 212,540 400,658 211,807 711,324	265,943 764,328 740,115 300,373 771,209 229,665 432,477 227,774 752,253	276,066 789,681 772,637 309,122 816,289 242,264 456,476 244,789 780,646	3.8 3.3 4.4 2.9 5.8 5.5 5.5 7.5 3.8	17,440 16,294 14,212 13,442 14,111 11,688 12,506 12,997 15,728	18,289 17,321 15,043 14,279 14,994 12,403 13,259 13,782 16,415	18,828 18,437 15,863 15,231 15,859 13,204 14,061 14,522 17,383	19,278 19,080 16,333 15,790 16,372 13,847 14,766 15,107 17,763	20,153 20,154 17,325 16,762 17,103 14,787 15,692 15,840 18,459	20,867 20,713 17,961 17,122 17,847 15,414 16,313 16,567 18,916		

 $^{^{}r}$ Revised. p Preliminary. 1. Percent change was calculated from unrounded data.

^{2.} Per capita disposable personal income was computed using midyear population estimates of the Bureau of the Census. Estimates for 1990-93 reflect State population estimates available as of February 1994.

Table 5.—Percent Change in Earnings for Selected Industries, 1992-93 1

	Tabi	e s.—re	rcent Cr	lange in	Earning	s for Sei	ected in		1992-9) ·				
	Total						Transpor	Earnings ²	Finance,				Government	
Area name	personal income	Total	Nonfarm	Mining	Construc- tion	Manufac- turing	Transpor- tation, public utilities	Wholesale and retail trade	insurance, and real estate	Services	Other	Federal, civilian	Military	State and local
United States	4.7	4.4	4.5	1.4	7.4	.8	4.4	4.4	1.6	7.3	5.6	4.1	.2	5.4
New England Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	3.9 3.5 4.3 4.1 4.3 3.9 4.4	3.9 2.5 4.1 4.6 4.4 4.2 4.1	3.9 2.4 3.8 4.6 4.5 4.2 5.2	6.2 .3 21.9 7.6 5.9 4.7 17.4	11.4 6.9 5.7 16.9 10.8 6.5 9.4	-1.6 -2.4 .1 -1.5 -2.6 .6	4.3 6.6 3.7 3.0 2.8 6.6 6.0	3.0 .3 5.2 3.1 7.5 3.1 5.6	-1.4 4.9 1.5 -1.8 1.6 3.0	7.6 6.9 8.1 7.9 7.7 7.3 9.2	2.7 8.8 1.9 3 5.8 2.1 2.8	2.6 1.9 -3.0 3.6 5.9 5.3 2.3	- 2.2 -2.2 1.7 -5.4 4 3 -1.3	5.8 5.4 .9 6.8 8.5 5.3 3.6
Mideast Delaware District of Columbia Maryland New Jersey New York Pennsylvania	3.5 5.1 4.3 4.3 4.1 2.7 3.9	2.9 4.6 5.1 3.8 4.2 1.6 3.5	3.0 4.3 5.1 3.8 4.2 1.7 3.6	- 2.1 8 3.3 3.5 6.2 7.4 -5.5	5.0 8.8 -4.7 4.0 8.3 4.1 4.6	-1.2 .3 1.1 7 -1.6 -3.0 .8	4.2 3.4 0 3.5 9.1 1.6 4.7	2.8 4.2 -2.8 1.7 3.4 2.3 3.6	-3.2 7.4 -3.1 3.0 .9 -5.8	6.4 5.5 5.3 6.9 6.6 6.3 6.4	11.4 8.0 62.9 9.7 7.6 6.0 4.1	5.2 6.9 7.7 4.9 3.1 2.9 4.3	.7 2.2 2.6 2.0 -3.1 3.8 -6.2	3.8 7.7 .3 2.3 5.8 3.5 3.5
Great Lakes Illinois Indiana Michigan Ohio Wisconsin	4.7 4.5 5.6 4.9 4.1 5.0	4.7 4.2 5.5 5.7 3.7 5.2	4.8 4.3 5.4 5.3 4.2 5.6	- 3.7 -11.3 -5.3 6.4 .7 8.4	7.9 5.2 8.1 9.6 10.6 7.0	3.1 1.7 3.8 6.0 1.5 2.6	4.6 5.5 4.3 3.8 3.3 5.6	4.3 3.2 6.2 4.5 4.2 5.7	2.8 1.2 4.2 2.5 4.2 5.5	6.9 6.8 7.8 7.0 6.0 8.2	5.3 5.1 4.7 6.2 3.1 8.6	3.7 2.1 6.5 4.0 3.0 6.9	- 2.1 -2.7 1.2 -7.3 7 1.6	5.4 8.0 4.8 2.4 5.3 6.6
Plains lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	3.4 .6 4.5 3.9 3.5 4.4 2.7 3.7	3.0 8 4.2 3.6 3.5 4.3 1.9 3.5	4.9 5.0 4.2 5.4 4.3 5.2 5.8 7.8	3.6 3.5 .4 3.3 8.5 7.8 5.6 -5.7	7.2 4.5 5.7 6.2 7.8 13.7 12.7 8.9	1.6 3.2 .9 2.3 5 2.4 6.3 7.2	3.6 6.1 2.7 1.5 4.3 3.9 4.1 5.2	4.6 3.8 4.1 6.5 3.1 4.2 5.5 6.7	5.1 6.0 3.4 6.7 3.8 4.3 5.3 5.6	7.6 6.8 7.0 7.7 7.9 6.9 6.7 11.8	5.1 2.8 7.8 5.5 4.5 5.5 6.9 4.1	5.1 6.3 4.7 5.5 4.3 6.5 4.1 6.7	-1.9 .4 9 -1.5 -2.9 -10.0 4.4 3.5	6.2 5.8 6.1 6.7 6.0 6.5 4.4 7.8
Southeast Alabama Arkansas Florida Georgia Kentucky Louisiana Mississippi North Carolina South Carolina Tennessee Virginia West Virginia	6.0 5.6 4.6 7.4 6.1 4.9 6.9 6.4 5.5 5.8 5.2 4.6	5.9 5.3 4.0 7.0 6.7 4.6 4.4 7.7 6.5 5.4 6.0 5.1 3.9	6.1 5.3 4.2 7.1 6.8 5.1 4.6 7.8 6.5 5.6 6.4 4.2	-1.6 3.0 3.6 7 6.7 -2.4 3.8 4.8 7.9 11.6 5.0 -2.2 -13.8	10.9 5.2 3.6 12.5 11.6 9.9 4.1 18.6 13.7 9.6 12.9 10.7	2.3 3.1 6 2.8 3.6 1.1 3.3 3.3 3.6 3.1 1 1.1	5.2 6.1 2.4 6.2 6.4 5.1 2.8 3.8 4.6 4.8 6.6 4.1 3.7	6.2 7.0 4.9 6.4 7.2 5.6 4.7 7.0 5.8 8.3 6.2 4.5 4.6	5.1 4.0 6.5 4.3 2.9 9.9 3.9 4.1 6.0 4.6 6.1 7.8 4.7	9.0 7.9 5.8 9.5 10.6 7.4 7.2 15.3 10.0 8.8 8.0 8.2 9.5	7.2 8.5 8.5 8.6 2.9 6.5 5.7 5.8 6.4 6.4 5.9 4.9	3.8 1.5 1.7 4.7 3.5 2.6 3.8 3.6 6.8 .1 3.0 4.2 7.3	.1 3.3 -13.7 -2.6 2.0 -1.4 -11.0 12.0 1.7 -6.1 -2.0 3.4 6	7.5 6.4 5.4 10.1 7.1 3.4 7.9 7.0 8.1 5.3 8.6 6.4 6.2
Southwest Arizona New Mexico Oklahoma Texas	6.1 7.0 7.7 4.5 6.1	6.2 7.5 8.7 4.2 6.0	5.8 7.0 8.3 4.1 5.7	2.8 0 9.9 .4 2.9	8.0 14.4 20.5 9.2 5.9	2.6 3.9 5.7 2.7 2.3	5.2 6.3 4.9 3.7 5.3	6.2 7.5 8.4 3.0 6.2	4.5 6.8 8.4 3.0 3.9	8.1 9.1 9.6 7.6 7.9	5.7 5.8 10.9 6.3 5.3	4.0 4.3 5.7 .4 4.6	3.2 6 2.2 3.6 3.9	6.5 4.8 6.1 3.0 7.4
Rocky Mountain Colorado Idaho Montana Utah Wyoming	7.6 7.4 9.3 9.0 6.7 6.1	8.5 8.3 10.8 10.9 7.2 6.4	7.6 7.7 8.5 6.8 7.5 6.0	4.1 3.4 -2.3 2.1 2.3 7.3	17.3 22.1 12.8 4.7 17.5 7.1	3.0 1.0 7.8 3.5 3.6 3.3	6.7 6.5 6.7 4.8 8.9 4.3	7.9 8.3 9.5 6.2 7.6 4.6	10.6 10.9 8.4 6.5 11.5 12.8	9.4 9.3 9.6 9.8 9.7 7.1	9.6 11.0 9.0 7.1 11.5 4.2	3.8 5.7 6.3 3.6 8 8.0	3.3 3.2 8.3 8.4 -2.9 4.0	5.9 5.1 6.6 8.9 6.4 4.3
Far West Alaska California Hawaii Nevada Oregon Washington	4.0 5.5 3.3 6.6 9.1 6.6 5.1	3.0 5.5 2.1 4.4 10.1 7.0 4.2	2.8 5.5 1.9 4.3 9.8 6.5 3.7	4.1 .7 5.5 2.4 4.5 12.4 -1.0	2.3 23.3 9 6.9 27.4 11.0 2.6	-3.3 -6.2 -3.7 -3.3 2.8 2.1 -3.7	2.7 4.5 2.2 8 8.2 4.8 3.9	2.7 6.4 1.6 5.0 5.5 6.6 5.3	3.2 10.4 2.0 8.7 11.5 9.7 4.6	5.9 7.3 5.3 5.2 10.2 8.7 6.9	2.5 3.8 3.7 2 6.6 7.2 -4.2	3.1 8.1 2.8 2.8 8.2 3.2 2.6	4 2.3 -1.7 1.3 -1.8 .6 3.1	3.8 4.0 2.6 6.7 8.2 7.5 7.2
							Census I	Divisions						
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	3.9 3.4 4.7 3.4 6.0 5.7 5.7 7.6 3.8	3.9 2.7 4.7 3.0 5.9 5.7 5.5 8.5 2.8	3.9 2.8 4.8 4.9 6.0 5.3 7.8 2.6	6.2 -2.3 -3.7 3.6 -6.6 0 2.7 4.4 4.0	11.4 5.2 7.9 7.2 10.7 10.8 5.7 18.4 1.1	-1.6 -1.3 3.1 1.6 1.6 3.0 2.3 3.4 -3.3	4.3 4.4 4.6 3.6 5.0 5.7 4.6 6.6	3.0 3.0 4.3 4.6 5.6 6.4 5.6 7.6 2.6	-4 -3.8 2.8 5.1 4.4 6.1 4.0 9.4 3.0	7.6 6.4 6.9 7.6 8.8 8.7 7.6 9.5	2.7 5.7 5.3 5.1 11.5 5.9 5.8 8.3 2.4	2.6 3.4 3.7 5.1 5.4 2.5 3.6 4.5 3.0	-2.2 7 -2.1 -1.9 .8 2.4 .6 1.9 3	5.8 4.0 5.4 6.2 7.1 6.5 6.8 5.9 3.7

Percent change was calculated from unrounded data.
 Consists of wage and salary disbursements, other labor income, and proprietors' income.

Local Area Personal Income

- Estimates for 1990-92
- Revisions to the Estimates for 1981–91

T his article presents new estimates of personal income for local areas—that is, for counties and metropolitan areas—for 1992 and revised estimates for 1990–91. It also discusses the sources of the revisions to the local area estimates for 1981–91, and it describes the changes in the definitions of the county-based metropolitan areas that were issued by the Office of Management and Budget in June 1993.

Table 1 presents estimates for the metropolitan areas. Table 2 presents estimates for counties and county equivalents. For Virginia, estimates are presented for the larger independent cities as well as for most counties; estimates for the smaller independent cities are combined with estimates for adjacent counties.

Incorporation of new source data

The local area estimates for 1981–91 have been revised to incorporate new source data that were not available in time to be used in the comprehensive revision to the estimates that was released in May 1993. These data are available either irregularly or less frequently than biennially and cannot be incorporated into the estimates without revising more than the 2 years of estimates that are normally revised each year. In addition, the 1990–91 estimates reflect the routine incorporation of the revisions to the State estimates that were released in October 1993 and of more current State and county source data.²

The introduction of the source data changed both the State and the local area estimates of personal income. The changes to the estimates for 1981–89 resulted from revisions to nonfarm proprietors' income, to some components of farm proprietors' income, and to the estimates of the residence adjustment.

Nonfarm proprietors' income.—The State and local area estimates of nonfarm proprietors' income for 1984–92 now reflect the incorporation of tabulations of data from the 1987-89 Federal income tax returns of sole proprietors and partnerships; previously, the most current of these data available to BEA were for 1983. The estimates for 1987-89 are based directly on the data for those years, and the estimates for 1984-86 are based on interpolations between the data for 1983 and 1987. The 1990 estimates are extrapolations of the 1989 estimates for each Standard Industrial Classification two-digit industry by the change in the number of small firms reported in the Census Bureau's County Business Patterns. In the absence of pertinent county data after 1990, the 1991-92 State estimates are allocated to counties in proportion to the 1990 estimates.

Farm proprietors' income.—The local area estimates of farm proprietors' income for 1983-92 now reflect the full use of data from the 1987 Census of Agriculture; previously, the estimates of important categories of both gross receipts and production expenses were based on data from the 1982 census. The 1987 county estimates of gross receipts from "other" farm-related activities (that is, other than crop and livestock production) and of a miscellaneous category of production expenses that includes interest and property taxes are based on the 1987 census data, and the 1983-86 estimates are based on interpolations between the 1982 and 1987 census data. In the absence of pertinent county data after 1987, the 1988-92 State estimates of these categories are allocated to counties in proportion to the 1987 estimates.

For 1982–92, both the State and the local area estimates of farm proprietors' income now reflect new State estimates of selected farm production expenses prepared by the Department of Agriculture.

Adjustment for residence.—The State and local area estimates of this adjustment—the net inflow of the earnings of interstate or intercounty

See Wallace K. Bailey, "Comprehensive Revision of Local Area Personal Income Estimates, 1969–90," Survey of Current Business 73 (May 1993): 63–87.

^{2.} The State estimates are presented in "State Personal Income, Revised Estimates for 1990–92," SURVEY 73 (September 1993): 70–85.

commuters—for 1981-92 now reflect the incorporation of journey-to-work data from the 1990 Census of Population; previously, the most current journey-to-work data used for the estimates were those from the 1980 Census. The estimates for 1990 reflect the incorporation of the journey-to-work data from the 1990 census, and the estimates for 1981–89 reflect interpolations between the data from the 1980 and 1990 censuses. The 1990 estimates are extrapolated to 1991-92 by (1) the BEA estimates of wages and salaries by place of work, (2) Internal Revenue Service tabulations of wages and salaries by place of residence, which are only available through 1991, and (3) Census Bureau population estimates.

Changes in the definitions of metropolitan areas

The metropolitan area definitions used by BEA for its personal income estimates are the county-based definitions issued by the Office of Management and Budget for Federal statistical purposes. These areas consist of 58 primary metropolitan statistical areas (PMSA'S), 240 metropolitan statistical areas (MSA'S), and 12 New England county

metropolitan areas (NECMA'S).³ The PMSA'S and one NECMA are grouped into 17 consolidated metropolitan statistical areas (CMSA'S).

The estimates presented here reflect the changes in the metropolitan area definitions issued in June 1993. The following changes were particularly significant: The division of the former New York-Newark, NY-NJ-PA PMSA into seven PMSA's and Pike County, Pennsylvania; the addition of Pike County to the former Orange County, NY PMSA, which is now called the Newburgh, NY-PA PMSA; the addition of a formerly nonmetropolitan county to each of five MSA'S; and the recognition of the Jackson, TN MSA.⁴

Tables 1 and 2 follow beginning on page 130.

Acknowledgments

The revised estimates of local area personal income were prepared by the Regional Economic Measurement Division under the direction of Linnea Hazen, Chief. The preparation of the estimates was a divisionwide effort.

Estimates of nonfarm labor earnings (wages and salaries and other labor income) were prepared by the Regional Wage Branch under the supervision of Sharon C. Carnevale, Chief. Major responsibilities were assigned to Elizabeth P. Cologer, Lisa C. Ninomiya, Michael G. Pilot, John A. Rusinko, and James M. Scott. Contributing staff members were E. Frances Bake, Christopher T. Berry, Susan P. Den Herder, Elizabeth A. Freeman, Lela S. Lester, Russell C. Lusher, Richard A. Lutyk, Paul K. Medzerian, Michael Phillips, Adrienne T. Pilot, William E. Reid, Jr., Dolores A. Rynn, Victor A. Sahadachny, Eugene L. Souder, Darleen K. Won, and Jaime Zenzano.

Estimates of farm earnings (wages and salaries, other labor income, and proprietors' income) and the residence adjustments were prepared by the Quarterly Income Branch under the supervision of Robert L. Brown,

Assistant Division Chief. Major responsibilities were assigned to James M. Zavrel. Contributing staff members were Elaine M. Briccetti, Daniel R. Corrin, Richard H. Grayson, Michael S. Wagner, and Daniel Zabronsky.

Estimates of nonfarm proprietors' income, dividends, interest, rent, transfer payments, and personal contributions for social insurance were prepared by the Proprietors' Income Branch under the supervision of Bruce Levine, Chief. Major responsibilities were assigned to Charles A. Jolley. Contributing staff members were Sean P. Collier, Catherine A. Cumberland, Toan A. Ly, Ellen M. Wright, and Marianne A. Ziver.

The assembly of public use tabulations and data files and the preparation of the text and tables for this article were performed by the Regional Economic Information System Branch. Major responsibilities were assigned to Kathy A. Albetski, Wallace K. Bailey, and Gary V. Kennedy. Contributing staff members were H. Steven Dolan, Jeffrey L. Newman, Michael J. Paris, Albert Silverman, Callan S. Swenson, Hilda G. Tolson, Monique B. Tyes, and Mary C. Williams.

For the New England region, BEA uses a county-based definition rather than a definition in terms of cities and towns, because the available data for cities and towns are insufficient.

A list of the metropolitan areas and their definitions (Accession Number PB 93–505–824) is available from the National Technical Information Service (NTIS). The list in electronic form (Wordperfect 5.1, Accession Number PB 93–505–816) is also available through NTIS. Write to NTIS, Document Sales, 5205 Port Royal Road, Springfield, VA 22161, or call (703) 487–4650.

^{4.} The Pmsa's into which the former New York-Newark Pmsa was divided are Bergen-Passaic, Nj; Jersey City, Nj; Midlesex-Somerset-Hunterdon, Nj; Monmouth-Ocean, Nj; Nassau-Suffolk, Ny; New York, Ny; and Newark, NJ

The MSA's to which counties were added are Augusta-Aiken, GA-SC; Baton Rouge, LA; Chattanooga, TN-GA; Huntington-Ashland, WV-KY-OH; and Wilmington, NC.

Data Availability

Personal income by type of payment and earnings by Standard Industrial Classification (SIC) division, as shown in table A, are available for metropolitan areas and counties for 1969-92. A version of this table that includes earnings by SIC two-digit industry is also available. In addition, there are supplemental tables for employment by sic division (the "one-digit" level), for transfer payments by program, and for major categories of farm income and expenses.

The entire set of these tables for all counties and metropolitan areas and for all years will be available on a CD-ROM by the end of May. This CD-ROM will also contain quarterly State estimates of personal income for 1969-93, gross state product estimates for 1977-90, projections of State and metropolitan area personal income and employment to 2040 that have been updated to reflect the June 1993 changes in the metropolitan area definitions, and a description of the sources and methods used to estimate local area personal income. The CD-ROM is designed for use with microcomputers equipped with the MS-DOS operating system and will include a program to help users select, display, print, and copy the tables. The price is \$35.00.

These tables are also available on magnetic tapes, computer printouts, and microcomputer diskettes. Each table for all years of data for all the metropolitan areas or for all the counties is available on a single reel of magnetic tape, but the table that includes earnings by sic two-digit industry requires two reels at standard blocksize; the price of each reel of magnetic tape is \$100. The tables on computer printouts are priced by the number of pages; the minimum charge is \$10. The tables on diskette are priced at \$20 per diskette.

Materials available without charge include a sample packet of all available tables, a list of the State agencies and university research bureaus from which the BEA State and local area estimates can be obtained, and the description of sources and methods used to prepare the local area estimates.

For information on ordering these products, 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. Visa or Mastercard are accepted for telephone orders.

Table A.—Example of Available Data for Local Areas: Personal Income by Major Source and Earnings by Major Industry, 1987-92 1

[Thousands of dollars]

	ius or uoliarsj					
		Ne	ew London Cou	ınty, Connecticu	ıt	
	1987	1988	1989	1990	1991	1992
Income by Place of Residence						
Total personal income Nonfarm personal income Farm income ²	4,432,832	4,696,727	5,001,642	5,129,498	5,286,014	5,567,535
	4,391,411	4,649,645	4,953,590	5,071,027	5,227,635	5,505,135
	41,421	47,082	48,052	58,471	58,379	62,400
Population (thousands) ³	251.0	254.3	254.9	255.2	254.0	248.2
	17,664	18,472	19,625	20,102	20,809	22,427
Derivation of total personal income: Total earnings by place of work Less: Personal cont. for social insur. 4 Plus: Adjustment for residence 5 Equals: Net earn. by place of residence Plus: Dividends, interest, and rent 6 Plus: Transfer payments	3,352,266	3,557,432	3,742,284	3,797,899	3,908,352	4,093,050
	203,584	221,909	238,690	246,894	259,895	269,416
	23,813	47,913	41,932	55,888	42,070	37,331
	3,172,495	3,383,436	3,545,526	3,606,893	3,690,527	3,860,965
	728,088	753,194	836,872	821,127	813,831	805,160
	532,249	560,097	619,244	701,478	781,656	901,410
Earnings by Place of Work Earnings by type: Wages and salaries Other labor income	2,809,178	2,962,737	3,122,063	3,169,878	3,255,450	3,389,483
	256,365	277,716	306,191	316,737	342,460	367,214
Proprietors' income ⁷ Farm Nonfarm	286,723	316,979	314,030	311,284	310,442	336,353
	30,829	35,200	35,595	42,317	42,424	45,747
	255,894	281,779	278,435	268,967	268,018	290,606
Earnings by industry: Farm Nonfarm Private Ag. serv., for., fish., and other ⁸ Mining Construction Manufacturing	41,421	47,082	48,052	58,471	58,379	62,400
	3,310,845	3,510,350	3,694,232	3,739,428	3,849,973	4,030,650
	2,563,059	2,717,472	2,851,514	2,831,824	2,902,963	3,092,469
	12,368	13,303	11,880	13,437	14,695	14,799
	2,333	2,870	3,032	4,236	4,681	7,480
	221,444	252,605	249,006	182,679	162,562	203,491
	1,080,152	1,041,641	1,092,398	1,108,053	1,145,270	1,099,736
Nondurable goods Durable goods Transportation and public utilities Wholesale trade Retail trade Finance, insurance, and real estate	262,218	270,198	289,288	306,990	329,023	358,943
	817,934	771,443	803,110	801,063	816,247	740,793
	169,799	177,038	194,913	194,389	207,956	205,725
	80,133	87,800	94,770	87,259	88,988	95,278
	339,406	372,678	377,057	360,025	348,428	358,137
	84,716	105,704	104,553	106,697	110,261	117,911
Services Government and government enterprises Federal, civilian Military State and local	572,708	663,833	723,905	775,049	820,122	989,912
	747,786	792,878	842,718	907,604	947,010	938,181
	132,857	140,846	144,193	158,604	156,766	164,845
	298,028	296,219	298,470	322,619	325,580	292,876
	316,901	355,813	400,055	426,381	464,664	480,460

^{1. 1987} based on 1972 SIC. 1988-92 based on 1987 SIC.

residents commuting outside U.S. borders to work less income of foreign residents commuting inside U.S. borders to work plus certain Caribbean seasonal workers.

^{2.} Farm income consists of proprietors' net farm income, the wages of hired labor, the pay-in-kind of hired farm labor, and the salaries of officers of corporate farms.

Census Bureau midyear population estimates. Estimates for 1990-92 reflect State and county estimates available as of February 1994.

^{4.} Personal contributions for social insurance are included in earnings by type and industry but excluded from personal income

^{5.} U.S. adjustment for residence consists of adjustments for border workers: Income of U.S.

^{6.} Includes the capital consumption adjustment for rental income of persons.

Includes the inventory valuation and capital consumption adjustments.
 "Other" consists of wages and salaries of U.S. residents employed by international organiza-

tions and foreign embassies and consulates in the U.S.

D Not shown to avoid disclosure of confidential information. Estimates are included in totals.

^L Less than \$50,000. Estimates are included in totals

Table 1.—Total Personal Income and Per Capita Personal Income by Metropolitan Area, 1990-92

	Tab	le 1.—T	otal Pe	rsonal	Incor	ne an	d Per	Capita	Personal Income by Met	ropolita	n Area,	1990–	92				
		Total persor	nal income		Per d	apita per	sonal in	come 3		-	Total person	al income		Per o	capita per	sonal inc	come ³
Area name	Mil	llions of doll	1992	Percent change ²	1990	Dollars 1991	1992	Rank in U.S.	Area name	Mill	ions of dolla	ars 1992	Percent change ²	1990	Dollars 1991	1992	Rank in U.S.
United States ¹ Metropolitan portion Nonmetropolitan portion	4,655,420 3,928,153 727,267	4,831,697	5,128,373 4,318,618	6.1 6.0	18,667 19,797 14,266	19,163 20,289	20,105		Columbus, OH Corpus Christi, TX Cumberland, MD-WV	24,664 5,137 1,468	25,870 5,513 1,521	27,845 5,917 1,580	7.6 7.3 3.9	18,264 14,648 14,456	18,859 15,474 14,963	19,974 16,371 15,566	92 249 284
Consolidated Metropolitan Statistical Areas		,			, ,,_,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		Dallas, TX * Danville, VA Davenport-Moline-Rock Island, IA-IL	55,091 1,575 6,334	58,370 1,614 6,492	62,682 1,717 6,854	7.4 6.4 5.6	20,481 14,461 18,041	21,266 14,775 18,356	22,424 15,705 19,243	35 282 107
Chicago-Gary-Kenosha, IL-IN-WI Cincinnati-Hamilton, OH-KY-IN Cleveland-Akron, OH Dallas-Fort Worth, TX Denver-Boulder-Greeley, CO Detroit-Ann Arbor-Flint, MI Houston-Galveston-Brazoria, TX Los Angeles-Riverside-Orange County, CA	178,641 33,873 55,519 80,619 40,913 104,758 73,025	85,095 43,822	196,063 37,562 60,580 91,422 47,203 112,702 84,663 318,442	6.2 6.7 5.6 7.4 7.7 5.5 7.4	21,635 18,588 19,397 19,868 20,600 20,175 19,452 20,663	22,154 19,080 19,955 20,543 21,591 20,460 20,419 20,679	23,312 20,140 20,959 21,692 22,592 21,484 21,367 21,162		Dayton-Springfield, OH	16,900 6,313 2,037 2,110 34,181 7,777 87,449 1,919	17,719 6,536 2,183 2,147 36,565 8,183 88,794 2,033 1,738	18,665 6,895 2,326 2,252 39,331 8,798 93,890 2,180 1,846	5.5 5.5 6.5 4.9 7.6 7.5 5.7 7.3 6.2	17,749 15,650 15,419 18,004 20,995 19,715 20,483 14,624 14,567	18,512 15,805 16,267 18,254 21,965 20,457 20,705 15,372 15,182	19,411 16,348 17,100 19,134 22,930 21,647 21,796 16,359 15,909	107 103 251 214 115 31 48 45 250 275
Miami-Fort Lauderdale, FL Milwaukee-Racine, WI	62,388 31,851		64,453 35,218	.7	19,458 19,787	19,611 20,398	19,477		Dubuque, IA Duluth-Superior, MN-WI	1,427 3,686	1,471 3,873	1,585 4,111	7.7 6.1	16,509 15,342	16,953 16,098	18,172 17,060	161 218
New York-No. New Jersey-Long Island, NY-NJ-CT-PA	491,234 126,512 33,612 28,820 155,119 63,334	130,654 35,527 30,107 158,704 67,616	533,759 137,832 38,081 31,777 166,781 73,562	5.5 7.2 5.5 5.1 8.8	25,229 21,443 18,614 19,271 24,755 21,161	25,760 22,056 19,148 19,550 25,057 22,123	27,259 23,210 20,076 20,326 26,019 23,492		Dutchess County, NY* Eau Clare, WI	5,619 2,084 6,863 2,651 1,517 908 4,478 4,519 4,900 2,487	5,673 2,166 7,124 2,714 1,574 933 4,682 4,692 5,043 2,579	5,894 2,322 7,854 2,955 1,640 981 4,983 5,003 5,435 2,783	3.9 7.2 10.2 8.9 4.2 5.2 6.4 6.6 7.8 7.9	21,618 15,135 11,508 16,949 15,922 16,021 16,235 15,908 17,542 16,184	21,739 15,591 11,615 17,237 16,545 16,580 16,856 16,313 17,971 16,606	22,424 16,600 12,497 18,547 17,231 17,398 17,819 17,202 19,215 17,656	35 243 307 140 205 195 175 208 108 181
WV Metropolitan Statistical Areas 4	159,226	165,232	173,591	5.1	23,593	24,173	25,087		Fayetteville, NCFayetteville-Springdale-Rogers, AR	3,559 3,293 7,245	3,811 3,510 7,698	4,451 3,914 7,893	16.8 11.5 2.5	12,928 15,500 16,809	13,725 16,101 17,798	16,050 17,339	270 200 158
Abilene, TX Akron, OH* Albany, GA Albany-Schenectady-Troy, NY Albuquerque, NM Alexandria, LA Allentown-Bethlehem-Easton, PA Altona, PA Armarillo, TX Anchorage, AK Ann Arbor, MI* Anniston, AL Appleton-Oshkosh-Neenah, WI Asheville, NC Athens, GA Atlanta, GA Atlanta, GA Atlanta, GA Atlanta, GA Atlanta, GA Atlanta, GA Aldantic-Cape May, NJ*	1,871 11,658 1,597 16,829 9,626 1,838 11,236 3,041 5,489 10,064 1,577 5,522 3,199 1,910 60,882 7,229	1,992	2,081 12,756 1,782 18,297 10,945 1,983 12,460 2,151 3,482 6,166 10,919 1,764 6,264 3,610 2,104 68,668 7,739 7,725	4.4 6.8 7.3 8.4 5.9 5.6 8.0 7.7 5.6 7.9	15,658 17,702 14,190 19,501 16,274 13,969 18,839 14,741 16,222 24,119 20,453 13,570 17,474 16,622 15,063 20,439 22,556 16,528	16,438 18,106 15,063 20,017 16,990 14,420 19,387 15,292 16,976 24,791 20,656 14,452 14,158 17,187 15,576 20,806 22,480 16,865	17,263 19,056 15,461 20,976 17,758 15,186 20,545 16,384 18,172 25,077 21,630 15,158 19,338 18,283 16,316 21,849 23,720 17,414	203 118 286 60 177 288 71 247 161 16 49 290 106 155 252 43 24 194	Flint, MI* Florence, AL Florence, SC Fort Collins-Loveland, CO Fort Lauderdale, FL* Fort Myers-Cape Coral, FL Fort Pierce-Port St. Lucie, FL Fort Smith, AR-OK Fort Walton Beach, FL Fort Worth-Arlington, TX* Fresno, CA Gadsden, AL Gainesville, FL Galveston-Texas City, TX* Gary, IN* Glens Falls, NY Glodsboro, NC	1,915 1,696 3,158 28,114 6,563 5,177 2,471 2,333 8,184 25,527 12,136 1,387 2,931 3,787 10,373 1,898 1,379	2,011 1,795 3,394 28,737 6,801 5,383 2,589 2,520 8,365 26,724 12,431 1,430 3,102 4,023 10,723 1,938 1,446	2,141 1,920 3,643 30,068 7,151 5,635 2,854 2,709 8,969 28,740 13,767 1,547 3,309 4,317 11,278 2,063 1,543	6.5 7.0 7.4 4.6 5.1 4.7 10.2 7.5 7.2 7.5 6.0 8.2 6.7 7.3 5.4 6.7	14,543 14,786 16,885 22,276 19,396 14,023 16,139 17,904 18,663 15,964 13,889 16,078 17,344 17,118 15,954 13,146	15,099 15,352 17,682 22,393 19,603 20,649 14,533 16,987 18,175 19,124 14,320 16,692 18,032 16,142 13,571	18,208 15,949 16,192 20,3107 20,312 21,233 15,806 17,656 19,360 16,376 15,500 17,468 18,928 17,056 14,325	273 262 148 30 78 54 278 181 105 79 248 285 190 124 154 219 297
Austin-San Marcos, TX Bakersfield, CA Baltimore, MD* Bangor, ME (NECMA) Barnstable-Yarmouth, MA (NECMA) Baton Rouge, LA Beaumont-Port Arthur, TX Bellinoham, WA	14,511 8,592 50,776 2,305 4,155 8,438 5,742 2,157	15,470 8,918 52,325 2,370 4,282 8,986 6,175 2,335	16,913 9,306 54,545 2,498 4,459 9,742 6,653 2,508	9.3 4.4 4.2 5.4 4.1 8.4 7.7 7.4	17,059 15,682 21,253 15,678 22,203 15,938 15,893 16,724	17,696 15,651 21,678 16,100 22,834 16,733 16,888 17,518	18,770 15,836 22,412 17,063 23,592 17,831 17,989 18,184	131 277 37 215 25 174 170 160	Grand Forks, ND-MN Grand Rapids-Muskegon-Holland, MI Great Falls, MT Greeley, CO* Green Bay, WI Greensboro-Winston-Salem-High Point, NC Greenville, NC	1,525 16,308 1,241 1,956 3,522 19,457 1,671	1,548 17,166 1,305 2,080 3,707 20,111 1,759	1,678 18,249 1,383 2,271 3,996 21,503 1,890	8.3 6.3 6.0 9.2 7.8 6.9 7.4	14,804 17,320 15,974 14,822 18,037 18,467 15,417	15,121 17,987 16,651 15,592 18,684 18,865 15,854	16,257 18,924 17,452 16,718 19,845 19,940 16,809	94
Benton Harbor, MI Bergen-Passaic, NJ* Billings, MT Biloxi-Gulfport-Pascagoula, MS Binghamton, NY Bismingham, AL Bismarck, ND Bloomington, IN Bloomington-Normal, IL Boise City, ID Boston-Worcester-Lawrence-Lowell-Brockton, MA-NH (NECMA) Brazoria, TX* Brownsville-Harlingen-San Benito,	2,579 36,035 1,907 4,155 4,639 14,814 1,337 1,589 2,360 5,128 128,494 4,776 3,243 3,324	36,291 2,043 4,420 4,787 15,561 1,389 1,678 2,450 5,504 130,808 5,177	1,804 2,675 6,067 136,695 5,601 3,604	8.1 3.3 7.2 8.9 7.5 9.2 10.2 4.5 8.2 4.0	15,985 28,181 16,803 13,301 17,533 17,594 15,935 14,541 18,211 17,204 22,589 21,129 16,837 17,318	18,303 16,409 15,265 18,607 17,801 23,094 22,359 17,402	17,575 16,239 20,049 18,982 24,109 23,513 17,681	138 102 184 259	Greenville-Spartanburg-Anderson, SC	13,202 1,954 4,962 11,190 27,085 4,663 18,448 2,276 65,995 4,369 5,361 26,638 1,652 2,340 6,086	13,673 2,014 5,174 11,718 27,400 4,779 19,336 2,421 71,324 4,590 5,694 27,853 1,730 2,403 6,437	14,453 2,114 5,555 12,394 28,554 5,156 20,597 2,497 7,67,742 4,947 6,186 29,833 1,836 2,523 6,863	7.9 6.5 3.2 7.6 7.8 8.6 7.3	15,836 16,037 16,937 18,976 24,090 15,904 22,009 12,445 19,741 13,981 18,206 19,242 17,145 15,586 15,354	24,357 16,148 22,744	25,461 17,233 23,864 13,389 21,737 15,711 20,082	15 204 23 301 46 281 86 59 128 241
TX Bryan-College Station, TX Buffalo-Niagra Falls, NY Burlington, VT (NECMA) Canton-Nassillon, OH Casper, WY Cedar Rapids, IA Champaign-Urbana, IL Charleston-North Charleston, SC Charleston, WY Charlotte-Gastonia-Rock Hill, NC-SC	2,512 1,522 21,277 3,359 6,530 1,193 3,192 2,835 7,844 4,310 21,727 2,535	1,617 22,194 3,448 6,711 1,242 3,310 2,889 8,225 4,529 22,517	7,130 1,275 3,534 3,059 8,584 4,840 24,107	4.7 5.9 6.2 2.6 6.8 5.9 4.4 6.9 7.1	9,590 12,481 17,881 18,907 16,552 19,486 18,870 16,382 15,406 17,214 18,592 19,248	9,923 13,173 18,614 19,207 16,915 20,056 19,396 16,632 15,703 18,009 18,876 19,906	13,923 19,467 20,150 17,855 20,377 20,443 17,459 16,239 19,119	308 300 100 83 173 76 73 191 259 116 95 64	Jackson, TN Jacksonville, FL Jacksonville, NC Jamestown, NY Janesville-Beloit, WI Jersey City, NJ Johnson City-Kingsport-Bristol, TN-VA Johnstown, PA Joplin, MO Kalamazon-Battle Creek, MI	1,206 16,443 1,529 2,100 2,365 10,753 6,421 3,560 1,950 7,374	1,267 17,164 1,601 2,178 2,404 11,011 6,744 3,712 2,078 7,758	1,391 18,238 1,847 2,278 2,637 11,853 7,217 3,923 2,223 8,200	9.8 6.3 15.4 4.6 9.7 7.7 7.0 5.7 7.0 5.7	15,418 18,010 10,201 14,796 16,906 19,440 14,699 14,763 14,435 17,137	16,032 18,409 10,638 15,331 17,036 19,889 15,313 15,398 15,283 17,918	17,340 19,146 12,782 16,083 18,474 21,359 16,232 16,291 16,165 18,793	199 113 306 268 142 53 261 253 263 130
Chartottesville, VA Chattanooga, TN-GA Cheyenne, WY Chicago, IL* Chico-Paradise, CA Cincinnati, OH-KY-IN* Clarksville-Hopkinsville, TN-KY Cleveland-Lorain-Elyria, OH* Colorado Springs, CO Columbia, MO Columbia, MO Columbia, SC Columbus, GA-AL	2,535 7,039 1,292 164,535 2,757 28,911 2,060 43,861 6,644 1,834 7,898 3,815	7,237 1,360 169,936 2,831 30,014 2,212 45,363 7,130 1,969 8,224	3,002 32,006 2,547 47,824 7,708	6.5 5.9 6.3 6.0 6.6 15.1 5.4 8.1 6.9 6.0	19,248 16,572 17,663 22,157 15,024 18,904 12,091 19,904 16,724 16,269 17,339 14,594	19,906 16,906 18,432 22,692 15,169 19,427 13,066 20,511 17,650 17,165 17,699 15,624	17,895 19,093 23,891 15,935 20,517 14,295 21,533 18,300 18,004 18,472	172 117 22 274 72 299 51 153 169 143	Kankakee, IL * Kansas City, MO-KS Kenosha, WI * Killeen-Temple, TX Knoxville, TN Kokomo, IN La Crosse, WI-MN Lafayette, LA Lafayette, IN Lake Charles, LA Lakeland-Winter Haven, FL	1,570 30,369 2,163 3,298 9,699 1,711 1,959 4,704 2,494 2,409 6,229	1,612 31,854 2,270 3,319 10,346 1,766 2,037 4,999 2,608 2,626 6,472	1,728 33,871 2,421 3,792 11,211 1,887 2,173 5,283 2,805 2,768 6,816	7.2 6.3 6.7 14.2 8.4 6.9 6.7 5.7 7.6 5.4 5.3	16,257 19,133 16,805 12,897 16,498 17,618 16,793 13,630 15,428 14,322 15,292	16,525 19,876 17,242 13,225 17,272 18,026 17,411 14,300 15,979 15,438 15,676	20,948 18,071 14,878 18,364 19,141 18,417 14,954 17,015 16,137	61 167 293 151 114 145 292 221 264

Table 1.—Total Personal Income and Per Capita Personal Income by Metropolitan Area, 1990-92—Continued

1990 18 8,035 7,321 1,208 1,676 16,433 1,175 1,468 1,729 1,7070 2,475 3,019 2,475 3,019 4,721 7,311 7,311 7,311 7,311 7,311 1,731 1	8,178 7,656 1,356 1,762 1,765 1,765 1,238 1,540 1,757 7,435 3,927 9,012 3,927 9,012 3,166 187,096 1,756 4,957 7,756 2,771	cl	Percent change 2 1991–92 6.3 4.9 13.7 8.3 9.2 7.1 12.0 4.5 6.8 7.1 6.2 8.8 7.2 7.6 6.5 5.0	1990 18,918 16,890 8,972 12,279 18,928 14,302 13,183 16,412 17,351 16,019 17,237 16,481 15,531 20,752 20,752 18,197	1991 19,002 17,576 9,624 12,493 19,127 14,853 13,832 16,784 18,008 16,442 18,123 17,367	1992 20,018 18,401 10,387 13,016 19,994 15,682 14,310 17,677 18,893 17,497	Rank in U.S. 1992 90 146 309 305 91 283 298	Area name Roanoke, VA Rochester, MN Rochester, NY Rockford, IL Rocky Mount, NC	1990 4,299 2,131 21,245 5,998 2,018 26,251	1991 4,394 2,250 21,982 6,098 2,124 27,436	1992 4,675 2,386 22,941 6,473 2,224 28,936	Percent change ² 1991–92 6.4 6.1 4.4 6.2 4.7 5.5	1990 19,117 19,923 19,960 18,145 15,100 19,394	1991 19,400 20,617 20,504 18,169 15,734	1992 20,661 21,595 21,217 19,055	Rank in U.S. 1992
8,035 7,321 1,208 1,676 16,433 1,175 1,468 1,729 7,070 3,696 8,475 3,012 184,246 184,2	8,178 7,656 1,356 1,762 1,765 1,765 1,238 1,540 1,757 7,435 3,927 9,012 3,927 9,012 3,166 187,096 1,756 4,957 7,756 2,771	8,696 8,031 1,542 1,908 19,417 1,326 1,724 1,836 7,937 2,732 2,732 2,732 3,393 194,054 19,556 3,860 3,428 5,234	6.3 4.9 13.7 8.3 9.2 7.1 12.0 4.5 6.8 7.1 6.2 8.8 7.2 3.7 7.6 6.5	18,918 16,890 8,972 12,279 18,928 14,302 13,183 16,412 17,351 16,019 17,237 16,481 15,531 20,752	19,002 17,576 9,624 12,493 19,127 14,853 13,832 16,784 18,008 16,442 18,123 17,367	20,018 18,401 10,387 13,016 19,994 15,682 14,310 17,677 18,893 17,497	90 146 309 305 91 283 298	Rochester, MN Rochester, NY Rockford, IL	4,299 2,131 21,245 5,998 2,018	4,394 2,250 21,982 6,098 2,124	4,675 2,386 22,941 6,473 2,224 28,936	6.4 6.1 4.4 6.2 4.7 5.5	19,117 19,923 19,960 18,145 15,100	19,400 20,617 20,504 18,169	20,661 21,595 21,217	
7,321 1,208 1,676 16,433 1,175 1,468 1,729 1,7070 2,475 3,072 2,475 3,072 4,721 1,294 1,72	7,656 1,356 1,762 17,775 1,238 1,540 1,757 7,435 2,551 3,927 3,166 187,096 18,178 3,626 3,265 3,265 2,771 7,756 2,771	8,031 1,542 1,908 19,417 1,326 1,724 1,836 7,937 2,732 4,171 9,805 3,393 194,054 19,556 3,860 3,428 5,234	4.9 13.7 8.3 9.2 7.1 12.0 4.5 6.8 7.1 6.2 8.8 7.2 3.7 7.6 6.5	16,890 8,972 12,279 18,928 14,302 13,183 16,412 17,351 16,019 17,237 16,481 15,531 20,752	17,576 9,624 12,493 19,127 14,853 13,832 16,784 18,008 16,442 18,123 17,367	18,401 10,387 13,016 19,994 15,682 14,310 17,677 18,893 17,497	146 309 305 91 283 298	Rochester, MN Rochester, NY Rockford, IL	2,131 21,245 5,998 2,018	2,250 21,982 6,098 2,124	2,386 22,941 6,473 2,224 28,936	6.1 4.4 6.2 4.7 5.5	19,923 19,960 18,145 15,100	20,617 20,504 18,169	21,595 21,217	67
1,729 7,070 2,475 3,696 8,475 3,012 184,246 17,294 3,521 3,178 4,721 7,311 2,690 3,487 2,345 7,104 18,001 12,566	1,757 7,435 2,551 3,927 9,012 3,166 187,096 18,178 3,626 3,265 4,957 7,756 2,711 3,771	1,836 7,937 2,732 4,171 9,805 3,393 194,054 19,556 3,860 3,428 5,234	4.5 6.8 7.1 6.2 8.8 7.2 3.7 7.6 6.5	16,412 17,351 16,019 17,237 16,481 15,531 20,752	16,784 18,008 16,442 18,123 17,367	17,677 18,893 17,497		Sacramento, CA *			7 /21			19,654	16,262 20,398 18,461	50 56 119 257 74 144
26,695 2 28,581 2 54,579 5 6,759 6,054 22,892 2 1,941 4,829 1,883 2,200	2,612 35,238 27,483 29,617 56,693 7,316 6,250	2,827 4,126 2,655 7,964 20,177 2,783 34,384 29,396 6,058 7,833 6,615 2,200 5,444 2,112 2,443 4,486	5.6 7.3 4.3 9.4 7.4 6.5 -2.4 7.0 6.7 7.5 7.1 5.8 6.5 7.0 6.7 7.0 5.5 5.5 2.5	15,801 16,341 16,187 19,837 15,458 9,008 15,920 17,621 17,821 14,266 17,629 26,106 19,927 21,421 14,135 16,130 23,154 13,655 16,465 15,741 15,182 27,300	16,147 20,907 18,959 16,181 16,625 16,809 20,698 15,500 9,386 16,410 18,405 14,057 17,807 20,526 21,955 14,057 16,179 23,640 14,368 17,126 16,485 15,524 15,524 15,523 15,523 16,523 16,485 15,523 16,485 17,327	18,995 18,650 17,178 21,434 20,211 17,185 17,276 17,528 16,109 9,802 17,230 18,715 19,517 17,517 17,124 28,082 21,797 23,284 15,806 15,181 17,543 15,181 17,543 16,109 21,797 23,284 15,181 17,543 16,109 27,232	180 127 188 121 136 210 202 209 202 187 42 266 310 206 133 9 9 295 211 6 44 29 278 28 278 278 28 278 29 278 278 28 29 278 278 28 29 278 279 279 279 279 279 279 279 279 279 279	Saginaw-Bay City-Midland, MI St. Cloud, MN St. Joseph, MO St. Louis, MO-IL Salem, OR* Salem, OR* Salinas, CA Salt Lake City-Ogden, UT San Angelo, TX San Angelo, TX San Diego, CA San Francisco, CA* San Jose, CA* San Jose, CA* San Luis Obispo-Atascadero-Paso Robles, CA Santa Barbara-Santa Maria-Lompoc, CA Santa Barbara-Santa Maria-Lompoc, CA Santa Fe, NM Santa Rosa, CA* Sarasota-Bradenton, FL Savannah, GA Scranton-Wilkes-Barre-Hazelton, PA Seattle-Bellevue-Everett, WA* Sharon, PA Sheboygan, WI Sherman-Denison, TX Shreveport-Bossier City, LA Sioux City, IA-NE Sioux Falls, SD South Bend, IN Spokane, WA	6,824 2,156 1,522 50,212 4,320 6,970 16,429 1,513 30,691 47,572 36,770 3,716 8,259 4,889 2,889 4,404 10,633 47,025 1,827 1,806 1,806	7,075 2,263 1,589 52,158 4,578 7,197 17,598 21,940 50,820 48,594 37,830 3,814 8,485 5,011 2,485 11,040 50,269 1,911 1,855 11,040 50,269 1,911 1,855 1,582 1,	7,431 2,442 1,651 54,652 4,889 19,025 51,684 23,825 53,019 50,835 39,626 3,993 8,775 5,263 2,263 2,4743 2,029 1,987 6,385 2,118 2,919 4,666 6,888	5.9 3.9 4.8 6.8 6.5 8.6 4.6 4.7 4.7 4.7 4.7 4.9 6.5 9.6 9.2 7.2 7.1 6.9 9.3 7.1 4.4	17,086 22,303 21,311 4,975 16,036 15,087 17,734 16,073 14,975 16,032 16,	17,642 4,4963 16,026 19,847 15,992 19,847 15,992 10,100 10	16,491 16,854 21,700 16,854 21,700 20,322 16,855 21,6,855 21,728 21,728 22,913 24,804 18,202 25,769 16,618 18,400 25,769 16,618 18,418 17,061 18,418	272 231 47 235 77 230 223 201 75 1
69,738 7 45,370 4 5,129 21,038 2 210,790 21 48,727 5 6,174 24,258 2	70,774 45,830 5,286 22,256 216,605 50,182 6,376 25,475	21,049 73,825 48,531 5,568 23,562 231,232 53,526 6,779 27,056	9.5 4.3 5.9 5.3 5.9 6.8 6.7 6.3	18,333 26,736 27,790 20,102 16,382 24,661 25,434 18,300	19,144 26,992 28,070 20,809 17,227 25,362 26,188 18,609	20,569 27,961 29,777 22,427 18,087 27,039 27,830 19,463	70 7 3 34 165 10 8 101	Springfield, IL Springfield, MO Springfield, MA (NECMA) State College, PA Steubenville-Weirton, OH-WV Stockton-Lodi, CA Sumter, SC Syracuse, NY Tacoma, WA Tallahassee, F. Tampa-St. Petersburg-Cleanwater,	3,922 3,657 4,186 11,137 1,893 2,159 7,838 1,243 13,187 10,038 3,719	3,764 4,469 11,223 2,001 2,202 8,097 1,309 13,485 10,505 3,936	4,016 4,784 11,505 2,124 2,323 8,541 1,388 14,159 11,377 4,195	6.7 7.0 2.5 6.2 5.5 6.0 5.0 8.3 6.6	19,262 15,775 18,459 15,254 15,175 16,183 12,081 17,730 17,002 15,824	17,091 19,689 16,553 18,656 15,954 15,490 16,374 12,523 18,003 17,363 16,365	20,837 17,357 19,187 16,780 16,415 16,942 13,171 18,818 18,361 17,103	63 197 111 234
2,855 3,887 15,701 1 2,946 11,851 5 58,721 5 21,645 2 1,318 1,909 2,245	3,003 4,178 16,333 3,207 12,533 58,993 22,628 1,398 2,057 2,355	52,327 3,198 4,370 17,356 3,496 13,288 61,252 24,262 1,486 2,204 2,515	5.7 6.5 4.6 6.3 9.0 6.0 3.8 7.2 6.4 7.1 6.8	23,333 14,500 17,235 16,355 18,076 18,476 24,292 17,465 15,103 14,988 15,044	23,387 14,799 18,189 16,834 18,925 19,297 24,113 17,734 15,908 15,787 15,761	24,359 15,375 18,692 17,645 19,801 20,242 24,651 18,596 16,736 16,445 16,736	20 287 134 183 97 80 19 139 237 245 237	FL Terre Haute, IN Texarkana, TX-Texarkana, AR Toledo, OH Topeka, KS Trenton, NJ* Tusson, AZ Tulsa, OK Truscaloosa, AL Tyler, TX Ultica-Rome, NY	37,291 2,162 1,748 10,802 2,995 8,440 10,213 12,360 2,215 2,560 5,002	38,570 2,283 1,801 11,045 3,110 8,712 10,806 12,982 2,323 2,685 5,119	40,882 2,462 1,909 11,793 3,281 9,321 11,493 13,667 2,473 2,880 5,370	6.0 7.8 6.0 6.8 5.5 7.0 6.4 5.3 6.5 7.3 4.9	17,964 14,650 14,524 17,581 18,563 25,877 15,285 17,387 14,666 16,906 15,784	18,405 15,439 14,945 17,973 19,130 26,639 15,992 17,989 15,145 17,532 16,076	19,400 16,551 15,784 19,166 20,076 28,443 16,651 18,681 16,092 18,648 16,870	104 244 280 112 87 5 240 135 267 137 229
6,179 105,962 40,237 1,121 45,437 2,693 5,115 29,292 3,015 1,7372 1,728 1,945 3,270 16,725 1,248	6.263 109.572 1 47.676 1.150 47.864 47.864 2.835 5.166 30.949 17,656 3.313 1,844 2,014 3,440 17,672 2,014 3,440 17,673 2,550 6,6313	6,574 115,670 14,319 1,227 50,956 2,904 5,420 33,193 18,488 3,590 1,963 2,118 3,614 19,172 1,436 7,111 2,713 6,856	5.0 5.6 6.3 6.6 6.5 2.4 4.9 7.3 4.7 8.4 6.5 5.1 5.0 8.5 6.6 6.6 6.5	18,183 21,511 17,916 13,136 18,969 19,335 20,993 19,192 18,942 11,399 14,045 17,265 18,641 19,420 15,279 19,310 16,456 23,113	18,317 22,188 18,244 13,476 19,946 20,567 21,116 19,716 19,273 12,314 14,977 17,251 19,361 19,986 16,102 19,581 16,539 24,035	19,193 23,397 19,018 14,386 21,175 21,226 22,178 20,681 20,214 13,052 15,863 17,761 20,131 21,086 16,896 20,723 17,212 25,529	110 27 120 296	Vallejo-Fairheld-Napa, CA* Victoria, TX 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 Wichita, KS Wichita Falls, TX Williamsport, PA Wilmington-Newark, DE-MD* Wilmington, NC Yakima, WA Yolo, CA* York, PA Youngstown-Warren, OH	8,686 14,162 1,223 2,378 4,519 2,776 106,495 1,972 25,319 2,428 9,032 2,107 1,876 10,944 2,688 2,935 2,570 6,427 9,654	8,993 14,451 1,327 2,482 4,552 2,035 1,943 26,866 2,559 9,582 2,188 1,933 11,335 2,896 3,093 2,671 6,003 1,039	9,542 15,088 1,415 2,661 4,971 3,175 2,093 27,831 2,684 10,319 2,331 2,061 11,761 3,379 2,840 6,848 10,531	4.4 6.7 7.2 9.2 6.9 7.8 3.6 4.9 7.7 6.5 6.6 3.8 7.0 9.2 4.9	16,399 17,199 14,391 14,648 25,129 15,909 16,180 29,103 15,272 18,566 16,183 15,794 21,235 15,603 15,496 18,101 18,863 16,059	17,535 17,911 14,084 15,289 25,801 16,252 16,636 30,347 16,191 17,008 16,158 16,158 18,536 19,252 16,646	19,213 15,015 16,272 26,817 17,345 30,901 16,964 20,589 18,197 17,107 22,191 16,997 17,062 19,615 19,970 17,381	109 291 255 11 198 178 2 224 69 159 212 39 222 216 98 93 196
21,1 1,3 2,1 5,6 6,1 105,9 40,2 1,7 2,1 5,7 29,2 17,3 16,1 1,1	645 318 909 245 174 179 962 237 121 437 593 115 292 372 015 728 945 270 7725 248	245 22,628 318 1,398 309 2,057 245 2,355 245 2,355 245 2,355 245 2,355 245 2,355 245 2,355 245 2,355 2	22 628 24 262 318 1 348 6399 2.057 2.204 245 2.355 2.515 144 5.62 6179 6.263 6.574 362 14.1676 44.319 211 1.50 1.227 317 41.56 1.5670 327 41.676 44.319 327 41.676 44.319 327 41.676 44.319 327 41.676 44.319 327 41.676 44.319 327 41.676 44.319 327 41.664 50.956 393 2.835 2.904 31.93 31.93 372 17.656 18.488 315 3.313 3.590 328 18.44 1.963 345 2.014 2.118 270 3.440 3.614 2.15 3.40 3.614 2.15 3.40 3.614 2.15 3.40 3.614 2.15 3.40 3.614 2.15 3.40 3.614 2.15 3.40 3.614 2.15 3.40 3.614 2.55 3.40 3.614 2.55 3.55 3.55 3.55 3.55 3.55 3.55 3.55	345 22.628 24.262 7.2 318 1,388 1,486 6.4 309 2,057 2,204 7.1 245 2,355 2,515 6.8 174 5,458 5,886 7.8 179 6,263 6,574 5.0 109,572 11,5670 5.6 121 1,150 1,227 6.5 383 2,835 2,904 2,4 4,319 33,193 33,193 7.3 372 17,656 18,488 4.7 372 17,656 18,488 4.7 372 17,656 18,488 4.7 372 17,656 18,488 4.7 372 17,656 18,488 4.7 372 17,656 18,488 4.7 349 2,014 2,118 5.1 345 2,014 2,118 5.1 345 2,014 2,118 5.1	345 22,628 24,262 7.2 17,465 318 1,388 1,486 6.4 15,103 318 1,388 1,486 6.4 15,103 309 2,057 2,204 7.1 14,988 245 2,355 2,515 6.8 15,004 174 5,458 5,886 7.8 14,972 1802 109,572 115,670 5.6 21,511 237 41,676 44,319 6.3 17,916 121 1,150 1,227 6.6 13,136 347 47,864 50,956 6.5 18,933 322 30,949 33,193 7.3 19,192 372 17,656 18,488 4.7 18,942 372 17,656 18,488 4.7 18,942 372 17,656 18,488 4.7 18,942 372 17,672 19,172 8.5 14,045 3945 2,014	345 22,628 24,262 7.2 17,465 17,734 318 1,388 1,486 6.4 15,103 15,988 399 2,257 2,204 6.4 15,103 15,988 245 2,355 2,615 6.8 15,044 15,761 174 5,458 5,886 7.8 14,972 15,481 1879 6,263 6,574 5.0 18,183 18,317 302 74,1676 44,319 6.3 17,916 18,244 121 1,150 1,227 6.6 13,136 13,476 3437 47,864 50,956 6.5 18,999 19,946 393 2,835 2,904 2,4 19,335 20,567 392 30,949 33,193 7.3 19,192 19,716 392 17,656 18,488 4.7 18,942 19,273 3015 3,313 3,590 8.4 11,399 12,314	345 22,628 24,262 7.2 17,465 17,734 18,596 318 1,398 1,486 6.4 15,103 15,996 16,736 309 2,057 2,204 6.1 15,103 15,996 16,736 309 2,057 2,204 7.1 14,988 15,787 16,445 245 2,355 6.8 15,044 15,761 16,247 174 5,458 5,886 7.8 14,972 15,481 16,287 1802 109,572 115,670 5.6 21,511 22,188 23,397 121 1,150 1,227 6.6 13,136 13,476 14,399 121 1,150 1,227 6.6 6,13,136 13,476 14,389 137 47,864 50,956 6.5 18,989 19,946 21,175 292 30,949 33,193 7.3 19,192 19,776 20,681 372 17,656 18,488	345 22.628 24.262 7.2 17.465 17.734 18.596 139 318 1.398 1.486 6.4 15.103 15.908 6.736 237 3909 2.057 2.204 7.1 14.988 15.787 16.445 245 245 2.355 2.515 6.8 15.044 15.761 16.736 237 174 5.458 5.886 7.8 14.972 15.481 16.287 254 179 6.263 6.574 5.0 18.183 18.317 19.193 110 109.572 11.670 5.6 21.511 22.188 23.397 27 121 1.150 1.227 6.6 13.136 13.476 14.386 296 121 1.50 1.227 6.6 13.136 13.476 14.386 296 137 4.7864 50.956 6.5 18.989 19.462 21.175 57 583 2.835	22,828	22,628	22,828	22,628	22,628	22,628	22,828	22,828

 ^{1.} 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) estimate of personal income 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. It can also differ from the NIPA estimate because of different data sources and revision schedules.

2. Percent change was calculated from unrounded data.

^{3.} Per capita personal income was computed using Bureau of the Census midyear population estimates. Estimates for 1990-92 reflect State and county population estimates available as of February 1994.
4. 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).

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990–92

		Total persor	nal income			apita per			Japita Personal income b	I	otal person			Per c	apita pei	rsonal inc	come ³
Area name	Mil	lions of doll	ars	Percent change 2		Dollars		Rank in State	Area name	Mill	ons of dolla	ars	Percent change 2		Dollars		Rank in State
	1990	1991	1992	1991–92	1990	1991	1992	1992		1990	1991	1992	1991–92	1990	1991	1992	1992
United States ¹ Metropolitan portion Nonmetropolitan portion	4,655,420 3,928,153 727,267	4,831,697 4,073,607 758,090	5,128,373 4,318,618 809,755	6.1 6.0 6.8	18,667 19,797 14,266	19,163 20,289 14,761	20,105 21,247 15,628		Juneau Borough Kenai Peninsula Borough	639 855	678 907	720 938	3.5	23,666 20,803	24,304 21,271	25,390 21,571	5 13
Alabama Metropolitan portion Nonmetropolitan portion	60,332 43,416 16,916	63,863 45,952 17,911	68,358 49,243 19,115	7.0 7.2 6.7	14,899 15,979 12,696	15,614 16,705 13,374	16,522 17,660 14,169		Ketchikan Gateway Borough Kodiak Island Borough Lake and Peninsula Borough ⁴ Matanuska-Susitna Borough Nome Census Area	366 269 615 114	371 280 28 656 118	391 296 30 694 128	5.4 5.7 6.7 5.8 8.3	26,236 20,087 15,319 13,788	26,333 20,119 16,537 15,470 14,132	27,761 20,805 17,275 15,441 14,954	2 16 19 22 23
Autauga Baldwin Barbour Bibb Blount Bullock	482 1,498 332 200 519 105	519 1,638 366 210 558 115	552 1,765 393 229 599 120	6.4 7.8 7.5 9.1 7.3 4.8	14,034 15,141 13,049 11,982 13,164 9,534	14,795 16,020 14,449 12,363 13,975 10,339	15,291 16,595 15,563 13,309 14,850 10,961	25 66	North Slope Borough Northwest Artic Borough Prince of Wales-Outer Ketchikan Sitka Borough Skagway-Yakutat-Angoon Southeast Fairbanks Census	140 89 113 192 95	150 94 111 200 101	158 102 115 210 107	5.5 9.1 3.5	23,255 14,524 17,994 22,235 21,579	24,135 15,158 17,311 22,981 23,267	24,153 16,121 17,983 23,697 24,973	9 21 18 10 7
Butler Calhoun Chambers Cherokee Chilton	237 1,577 480 242 409	251 1,671 483 261 441	266 1,764 517 279 469	6.1 5.6 7.0 7.0	10,825 13,570 13,002 12,330 12,572	11,549 14,452 13,117 13,237 13,343	12,269 15,158 14,021 14,052 14,107	34	Area	88 230 59 167 119	93 248 59 173 91	97 269 61 190 95		15,369 22,837 10,173 23,662 14,188	16,543 23,824 9,866 24,549 13,862	17,033 25,826 9,993 26,963 14,406	20 4 26 3 25
Choctaw Clarke Clay Cleburne	193 345 169 171	207 364 180 181	217 385 193 185	5.0 5.6 7.4 2.5 7.9	12,055 12,621 12,745 13,448	12,913 13,233 13,557 14,191	13,446 13,869 14,486 14,280	33	Arizona	59,833 53,084 6,749	62,543 55,395 7,148	66,687 58,909 7,778	8.8	16,262 17,030 12,005		17,401 18,159 13,222	
Coffee Colbert Conecuh Coosa Covington Crenshaw	605 735 157 127 459	655 769 174 133 487	707 817 184 143 515	6.2 5.9 7.3 5.8	15,015 14,194 11,157 11,503 12,573	16,214 14,703 12,206 11,963 13,323 12,453	17,168 15,584 13,034 12,904 13,996	49	Apache Cochise Coconino Gila Graham Greenlee La Paz	502 1,247 1,257 510 264 105 228	542 1,320 1,341 542 278 119 223	605 1,437 1,470 585 303 135 233	11.6 8.8 9.7 8.1 8.7 13.3 4.5	8,107 12,738 12,938 12,612 9,930 13,124 16,436	8,674 13,334 13,440 13,153 10,268 14,353 16,253	9,623 14,172 14,302 13,795 10,978 15,671 17,065	15 8 7 9 13 4 2
Cullman Dale Dallas De Kalb Elmore Escambia Etowah	946 638 581 696 679 437 1,387	994 681 617 737 718 459 1,430	1,087 731 649 808 772 479 1,547	9.4 7.2 5.2 9.6 7.6 4.3 8.2	13,943 12,862 12,099 12,703 13,708 12,307 13,889	14,473 13,672 12,868 13,328 14,152 12,892 14,320	15,583 14,637 13,511 14,453 14,705 13,294 15,500	19 28 46 30 26 52 21	Maricopa Mohave Navajo Pima Pinal Santa Cruz	38,868 1,331 740 10,213 1,369 342	40,184 1,422 774 10,806 1,493 362	42,793 1,529 840 11,493 1,526 385	6.5 7.5 8.5 6.4 2.2 6.2	18,253 13,979 9,496 15,285 11,750 11,473	18,551 14,098 9,797 15,992 12,631 11,753	19,367 14,417 10,367 16,651 12,634 12,104	1 6 14 3 11 12
Fayette Franklin Geneva Greene	220 354 326 104	226 385 349 110	242 426 375 114	7.1 10.7 7.5 3.9	12,211 12,749 13,760 10,207	12,497 13,738 14,493 10,765	13,422 14,969 15,619 11,187		Yavapai Yuma Arkansas	1,554 1,303 32,450	1,646 1,490 34,341	1,785 1,569 37,434	8.5 5.2 9.0	14,314 12,092 13,779	14,711 13,377 14,485	15,376 13,345 15,635	5 10
Hale Henry Houston Jackson Jefferson Lamar Lauderdale Lawrence	163 187 1,281 666 11,758 199 1,180 382	175 213 1,351 707 12,319 205 1,241 417	187 228 1,450 771 13,194 218 1,324 445	6.8 7.3 7.3 9.0 7.1 6.7 6.6 6.7	10,488 12,128 15,695 13,903 18,029 12,652 14,769 12,100	11,156 13,621 16,400 14,596 18,797 13,046 15,355 12,996	11,783 14,662 17,389 15,724 20,061 13,986 16,182 13,821 14,358	60 27	Metropolitan portion Nonmetropolitan portion Arkansas Ashley Baxter Benton Boone Bradley Calhoun	16,084 16,367 298 322 448 1,557 386 160 65	17,006 17,335 306 352 475 1,679 407 166 68	18,599 18,835 333 374 511 1,882 435 181 73	8.8 6.1 7.5 12.1 7.0 9.0 8.1	15,422 12,474 13,758 13,232 14,333 15,834 13,623 13,548 11,155	16,126 13,171 14,269 14,397 15,002 16,536 14,209 14,151 11,660	17,367 14,233 15,628 15,209 15,788 17,827 14,897 15,579 12,744	10 17 9 4 21 11 60
Lee Limestone Lowndes Macon Madison Marengo Marion Marshall Mobile Monroe	779 131 251 4,583 284 345 1,017 5,261 298	842 143 264 4,852 305 365 1,076 5,678 333	942 141 279 5,245 319 395 1,173 6,068 338	11.8 -1.4 5.9 8.1 4.6 8.2 9.0 6.9 1.5	14,334 10,378 10,092 19,081 12,307 11,555 14,318 13,873 12,332	15,180 11,301 10,828 19,809 13,214 12,343 14,957 14,796 13,932	16,570 11,115 11,452 20,876 13,732 13,310 15,957 15,591 14,067	9	Carroll Chicot Clark Clay Cleburne Cleveland Columbia Conway Craighead	251 165 258 205 250 91 336 243 934	266 174 273 221 266 94 353 259 1,001	291 201 299 243 288 99 376 279 1,099	10.4 8.1 5.2 6.4 8.1 9.8	13,394 10,551 12,075 11,347 12,823 11,707 13,091 12,698 13,479	13,953 11,201 12,867 12,272 13,368 12,062 13,741 13,448 14,366	14,910 12,796 14,028 13,623 14,160 12,592 14,608 14,532 15,487	20 57 39 42 35 61 25 27 14
Montgomery Morgan Perry Pickens Pike Randolph Russell	3,668 1,655 122 237 359 245 603	3,866 1,766 130 248 379 254 628	4,120 1,880 137 262 402 263 669	6.6 6.5 5.8 5.7 6.0 3.6 6.4	17,517 16,462 9,623 11,462 13,000 12,318 12,841	18,222 17,296 10,422 11,963 13,598 12,708 13,136		5 63 58 32 56	Crawford Crittenden Cross Dallas Desha Drew Equitors	488 631 218 123 184 197	520 660 239 131 198 215 896	571 716 271 140 219 235 1,001	13.4 7.4	11,411 12,622 11,360 12,822 10,986 11,369 13,727	11,914 13,270 12,441 13,699 11,970 12,373 14,436	12,857 14,394 14,071 14,783 13,460 13,635 15,552	54 29 37 22 46 41 12
St. Clair Shelby Sumter Talladega Tallapoosa Tuscaloosa	642 1,895 166 907 548 2,215	687 1,997 178 950 571 2,323	727 2,160 189 997 621 2,473	5.8 8.2 5.8 5.0 8.6 6.5	12,765 18,927 10,287 12,231 14,086 14,666	13,293 19,343 11,029 12,730 14,588 15,145	13,642 20,139 11,651 13,268 15,806 16,092	44 2 61 53 13	Faulkner Franklin Fulton Garland Grant Greene Hempstead Hot Spring	830 172 96 1,165 190 369 247 312	185 103 1,230 197 396 260 315	197 108 1,316 212 432 296 338	6.9 5.2 7.0 7.5 9.2 13.9	15,727 11,542 9,517 15,836 13,582 11,582 11,396 11,946	12,349 10,313 16,478 13,972 12,257 12,014	13,038 10,869 17,287 14,693 13,179 13,539 12,795	50 73 5 24 48 45 58
Walker Washington Wilcox Winston Alaska	971 206 129 265 11,550	1,023 215 138 284 12,226	1,070 223 141 308 12,970	4.6 3.6 1.9 8.5	14,344 12,359 9,578 11,986 20,887	15,036 12,791 10,036 12,872 21,498	15,650 13,208 10,291 13,815 22,067	15 54 67 42	Howard Independence Izard Jackson Jefferson	192 413 137 225 1,121	200 431 147 239 1,150	220 472 150 272 1,227	10.0 9.3 2.4 13.9 6.6	14,138 13,245 12,031 11,838 13,136	14,714 13,693 12,760 12,550 13,476	16,207 14,933 12,821 14,347 14,386	7 19 55 31 30
Metropolitan portion Nonmetropolitan portion Aleutians East Borough Aleutians West Census Area Anchorage Borough	5,489 6,061 43 157 5,489	5,824 6,402 52 172 5,824	6,166 6,804 59 188 6,166	5.9 6.3 12.8 9.0 5.9	24,119 18,627 17,477 16,481 24,119	24,791 19,180 19,953 18,315 24,791	25,077 19,902 22,133 20,853 25,077	11	Johnson Lafayette Lawrence Lee Lincoln	203 99 183 127 119	218 104 200 127 131	243 113 217 144 150	8.7 13.5	11,130 10,339 10,524 9,785 8,695	11,765 10,982 11,409 9,799 9,460	12,996 12,104 12,535 11,185 10,793	52 69 63 71 74
Bethel Census Area Bristol Bay Borough Denali Borough 4 Dillingham Census Area Fairbanks North Star Borough Haines Borough	5,469 178 39 98 1,343 52	5,824 190 42 35 85 1,415	207 45 37 93 1,522 51	8.6 8.0 6.0 8.9 7.5	12,956 28,259 	24,791 13,594 30,578 19,976 20,703 17,706 24,466	14,416 31,159 21,026 21,732 18,435	24 1 14 12 17	Little River Logan Lonoke Madison Marion	197 245 540 146 144	200 259 576 157 152	200 291 634 175 163		14,076 11,904 13,677 12,531 11,978	14,394 12,602 14,449 13,074 12,479	14,567 14,067 15,490 14,200 13,126	

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

	rabio	9 2.—10	otal Pe	rsonai	incon	ne an	d Per	Capita	Personal Income by Cou	nty, 199	0-92-	Continu	iea				
	7	Total persor	nal income		Per c	apita pe	rsonal in	come 3		1	otal persor	nal income		Per o	apita pe	rsonal inc	come ³
Area name	Mill	ions of doll	ars 1992	Percent change ²	1000	Dollars	1002	Rank in State	Area name		ons of doll		Percent change ²	1990	Dollars 1991	1002	Rank in State
Miller Mississippi Monroe Montgomery Nevada	477 691 130 90 115	1991 496 750 139 93 121	530 782 154 97 129	7.0 4.2 10.8 4.9 6.8	1990 12,387 12,018 11,535 11,527 11,393	1991 12,846 13,129 12,576 11,813 12,062	13,726 14,209 14,139 12,218 12,949	33 36 66	Ventura Yolo Yuba Colorado	1990 14,162 2,570 733 62,163	1991 14,451 2,671 790 66,519	1992 15,088 2,840 836 71,600	4.4 6.4 5.8 7.6	21,131 18,101 12,514 18,818	21,351 18,536 13,268	21,977 19,615 13,730 20,666	1992 13 19 56
Newton Ouachita Perry Phillips Pike Poinsett Polk Pope Prairie Pulaski	69 385 91 309 129 274 209 635 108 6,218	74 400 95 322 136 302 217 680 112 6,601	80 420 107 353 147 323 239 761 120 7,134	6.8 5.2 12.5 9.6 8.6 7.0 10.1 11.9 7.1 8.1	8,997 12,653 11,474 10,712 12,814 11,127 12,053 13,758 11,360 17,767	9,626 13,401 11,750 11,405 13,597 12,417 12,492 14,392 11,992 18,788	10,406 14,229 12,793 12,575 14,743 13,238 13,613 15,867 12,997	75 32 59 62 23 47 43 8 51	Metropolitan portion Nonmetropolitan portion Adams Alamosa Arapahoe Archuleta Baca Bent Boulder Chaffee	52,444 9,719 4,024 186 9,264 69 95 76 4,776 166	56,190 10,329 4,336 184 9,912 74 94 82 5,177 181	60,517 11,083 4,721 193 10,642 79 94 83 5,601 189	7.7 7.3 8.9 4.9 7.4 7.7 2 1.6 8.2 4.5	19,471 15,935 15,115 13,687 23,531 12,767 21,005 15,121 21,129 13,093	20,442 16,632 15,899 13,337 24,381 13,186 20,881 16,673 22,359 14,219	21,366 17,529 16,761 13,942 25,285 13,672 21,150 16,691 23,513 14,630	38 55 3 56 13 40 7 53
Randolph St. Francis Saline Scott Searcy Sebastian Sevier Sharp Stone Union Van Buren Washington	175 307 888 115 76 1,598 184 161 105 732 156 1,736	184 312 939 123 80 1,659 197 171 114 765 164 1,831	197 347 1,036 133 84 1,836 215 181 124 829 176 2,032	7.1 11.2 10.3 7.7 5.4 10.7 8.9 5.9 8.8 8.4 6.9 11.0	10,548 10,776 13,793 11,282 9,681 16,052 13,414 11,392 10,722 15,641 11,127 15,212	11,049 11,000 14,305 12,039 10,505 16,520 14,157 11,833 11,353 16,448	11,616 12,273 15,447 12,806 11,158 18,109 15,066 12,140 12,179 17,832	65 15 56 72 2 18 68 67 3	Cheyenne Clear Creek Conejos Costilla Crowley Custer Delta Denver Dolores Douglas Eagle Elbert	55 132 66 41 43 31 266 10,390 21 1,488 477 169	55 141 70 40 43 33 291 10,983 21 1,617 518 182	57 150 74 42 50 35 316 11,830 25 1,748 576 198	3.0 6.8 5.9 4.8 16.1 8.3 8.4 7.7 19.0 8.1 11.3 8.9	23,085 17,345 8,898 12,828 10,972 15,699 12,665 22,248 13,683 24,147 21,503 17,376	9,383 12,264 10,964 16,116 13,567 23,256 15,123 24,216 22,087	23,370 18,713 10,043 13,070 12,780 16,583 14,395 24,449 18,200 23,845 23,419 18,281	9 23 63 60 61 42 54 4 28 5 8
White Woodruff Yell California Metropolitan portion Nonmetropolitan portion	660 110 232 617,679 602,829 14,850	706 117 247 630,901 615,638 15,263	770 134 276 659,567 643,475 16,092	8.9 13.8 11.8 4.5 4.5 5.4	12,011 11,642 13,049 20,656 20,834 15,336	12,637 12,510 13,847 20,748 20,933 15,311	13,558 14,506 15,291 21,348 21,539 15,765	44 28 16	El Paso Fremont Garfield Gilpin Grand Gunnison Hinsdale	6,644 388 506 47 134 137	7,130 408 528 53 144 150	7,708 446 551 62 153 162	8.1 9.3 4.3 16.9 6.6 8.0 6.5	16,724 12,039 16,671 15,404 16,741 13,259 17,273	17,650 12,699 16,927 16,688 17,667 14,321 18,701	18,300 13,634 17,640 19,400 18,154 14,963 18,806	26 58 31 17 29 51 20
Alameda Alpine Arnador Butte Calaveras Colusa Contra Costa Del Norte El Dorado Fresno	28,164 21 473 2,757 531 301 20,603 302 2,480 10,864	28,434 22 501 2,831 554 314 21,067 320 2,588 11,113	30,058 22 524 3,002 587 320 22,268 337 2,726 11,754	5.7 1.3 4.4 6.0 6.0 1.9 5.7 5.5 5.3 5.8	21,986 19,066 15,619 15,024 16,336 18,423 25,465 12,610 19,357 16,171	21,986 18,776 16,029 15,169 16,254 18,928 25,588 11,319 19,340 16,110	22,988 19,249 16,433 15,935 16,609 18,987 26,491 11,683 19,729 16,658	20 43 44 39 21 4 58 18 38	Huerfano Jackson Jefferson Kiowa Kit Carson Lake La Plata Larimer Las Animas Lincoln	69 23 9,015 44 135 85 508 3,158 163 83	75 26 9,716 42 134 92 553 3,394 177 93	80 27 10,390 41 147 97 602 3,643 185 97	4.6 4.8	11,522 14,669 20,511 26,272 18,892 14,156 15,638 16,885 11,881 18,466	12,772 16,240 21,768 26,118 18,653 15,065 16,501 17,682 13,069 20,570	13,636 16,415 22,807 25,492 20,452 15,811 17,399 18,389 13,593 21,298	57 43 10 2 14 47 32 25 59 12
Glenn Humboldt Imperial Inyo Kern Kings Lake Lassen Los Angeles Madera	354 1,890 1,694 316 8,592 1,286 827 343 184,246 1,282	342 1,934 1,684 319 8,918 1,344 880 369 187,096 1,318	375 2,026 1,783 334 9,306 1,415 924 400 194,054 1,422	9.7 4.7 5.9 4.7 4.4 5.2 5.0 8.5 3.7 7.9	14,224 15,808 15,244 17,266 15,682 12,628 16,189 12,420 20,752 14,400	13,551 16,021 14,208 17,409 15,651 12,781 16,678 13,128 20,907 13,841	14,694 16,605 13,827 18,158 15,836 13,174 17,179 14,237 21,434 14,361	55 25 45 57 31 53	Logan Mesa Mineral Moffat Montezuma Montrose Morgan Otero Ouray	281 1,425 8 181 252 352 386 272 38	288 1,536 9 188 266 378 411 296 41	323 1,656 10 203 291 411 431 311 43	12.3 7.8 6.5 8.2 9.3 8.8 4.7 5.2 6.4	16,039 15,202 15,309 15,898 13,490 14,367 17,616 13,515 16,347	16,310 13,993 15,101 18,405 14,728 16,697	18,774 16,897 17,208 17,376 14,885 16,116 18,968 15,588 17,253	21 37 35 33 52 45 19 48 34
Marin Mariposa Mendocino Merced Modo Mono Monterey Napa Nevada Orange	7,977 235 1,308 2,566 138 178 6,970 2,526 1,427 58,721	8,082 236 1,328 2,612 135 172 7,197 2,621 1,474 58,993	8,430 254 1,386 2,783 140 186 7,485 2,761 1,551 61,252	4.3 7.9 4.4 6.5 3.4 8.3 4.0 5.3 5.3 3.8	34,654 16,299 16,189 14,266 14,306 17,675 19,515 22,714 18,028 24,292	13,904	18,712 20,322 24,387 18,653	41 33 49 52 23 16 7	Park Phillips Pitkin Prowers Pueblo Rio Blanco Rio Grande Routt Saguache San Juan	117 73 403 202 1,728 88 171 300 57 12	127 78 426 207 1,844 93 162 316 58	137 79 469 215 1,963 102 162 338 59	8.6 .9 9.9 3.9 6.5 9.4 4 7.0 .7	16,173 17,443 31,695 15,178 14,045 14,877 15,933 21,100 12,193 15,432	18,873 33,565 15,582 14,977 15,401 15,156 21,531 12,277 14,979	16,646 15,151 22,426 12,191 15,176	36 18 1 44 46 41 50 11 62 49
Placer Plumas Riverside Sacramento San Benito San Bemardino San Diego San Francisco San Joaquin San Luis Obispo	3,747 324 21,348 20,023 619 23,137 49,587 20,868 7,838 3,716	3,945 337 21,815 20,904 617 23,945 50,820 21,472 8,097 3,814	4,158 356 22,783 22,052 643 25,265 53,019 22,554 8,541 3,993	5.4 5.6 4.4 5.5 4.4 5.5 4.3 5.0 5.5 4.7	21,364 16,349 17,886 19,070 16,803 16,100 19,731 28,863 16,183 17,036	21,728 16,710 17,489 19,345 16,483 16,046 19,875 29,571 16,374 17,413	22,218 17,170 17,682 20,171 16,760 16,466 20,384 30,942 16,942 18,105	32 28 17 35 42 15 2	San Miguel Sedgwick Summit Teller Washington Weld Yuma Connecticut Metropolitan portion	96 1,956 1,956 1,956 180 83,633 77,584	73 48 318 227 93 2,080 185 84,581	80 47 347 259 95 2,271 181 89,029 82,652	9.7 -1.6 9.2 14.1 1.4 9.2 -2.1 5.3 5.3	17,680 17,158 21,691 16,376 20,194 14,822 20,168 25,426 25,757	18,013 23,198 17,586 19,578 15,592 20,761 25,705	18,714 17,950 23,824 18,678 20,418 16,718 20,315 27,150 27,555	22 30 6 24 15 39 16
San Mateo Santa Barbara Santa Clara Santa Clara Santa Cruz Shasta Sierra Siskiyou Solano Sonoma Stanislaus	18,727 8,259 36,770 4,889 2,446 52 655 6,160 8,435 6,054	19,040 8,485 37,830 5,011 2,550 55 663 6,371 8,775 6,250	19,852 8,775 39,626 5,263 2,713 57 696 6,781 9,188 6,615	4.3 3.4 4.7 5.0 6.4 3.8 5.0 6.4 4.7	28,806 22,303 24,550 21,311 16,456 15,809 14,981 17,884 21,624 16,130	29,056 22,717 25,038 21,883 16,539 16,715 15,059 17,876 22,180 16,179	29,918 23,368 25,924 22,784 17,212 17,575 15,708 18,738 22,913	3 8 5 11 30 29 46 22	Metropolitan portion Nonmetropolitan portion Fairfield Hartford Litchfield Middlesex New Haven New London Tolland Windham	27,470 21,014 4,162 3,448 17,901 5,129 2,623 1,887	78,516 6,065 27,620 21,232 4,149 3,520 18,209 5,286 2,648 1,917	82,652 6,377 29,356 22,158 4,350 3,639 19,175 5,568 2,757 2,027	5.3 5.1 6.3 4.4 4.8 3.4 5.3 5.3 4.1 5.8	25,757 21,825 33,177 24,666 23,855 24,037 22,246 20,102 20,344 18,377	21,757 33,305 24,931 23,628 24,462	27,555 22,805 35,423 26,161 24,645 25,181 23,937 22,427 21,213 19,657	1 2 4 3 5 6 7
Sutter Tehama Trinity Tulare Tuolumne	1,094 646 181 4,519 746	1,181 679 188 4,552 797	1,260 729 201 4,971 846	6.7 7.3 6.5 9.2	16,859 12,951 13,855 14,391 15,277	17,542 13,309 14,350 14,084 15,862	18,136 14,037 15,152 15,015 16,661	26 54 47	Delaware	13,193 11,319 1,874 1,626	13,748 11,781 1,967 1,738	14,318 12,265 2,053 1,846	4.1 4.1 4.4 6.2	19,719 20,389 16,456 14,567	20,885 16,859	17,137	3

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

		Total persor		Jona			rsonal inc		reisonal income by coul	-	Total persor		lou	Per c	apita pei	reonal in	nome 3
Area name		ions of dolla		Percent	1616	Dollars	Jonai III	Rank in	Area name		ions of dolla		Percent	1616	Dollars	Jonai III	Rank in
	1990	1991	1992	change ²	1990	1991	1992	State 1992		1990	1991	1992	change ²	1990	1991	1992	State 1992
New Castle	9,693 1,874	10,043 1,967	10,418 2,053	3.7 4.4	21,854 16,456	22,336 16,859	22,897 17,137	1 2	Bleckley Brantley Brooks	142 123 171	157 132 191	164 143 205	4.5 8.4 7.0	13,538 11,071 11,096	14,834 11,683 12,391	15,424 12,289 13,288	49 150 124
District Of Columbia	14,878 244,604	15,491 254,585	16,333 265,764	5.4 4.4	24,643 18,785	26,069 19.180	27,909 19,711		Bryan Bulloch	204 519 230	218 559 247	237 597 261	8.3 6.9 5.9	12,999 11,974	13,256 12,653 11,954	13,351 13,179 12,434	122 128 148
Metropolitan portion Nonmetropolitan portion	230,987 13,617	240,170 14,414	250,601 15,162	4.3 5.2	19,087 14,810	19,468 15,390	19,996 15,956		Burke Butts Calhoun Camden	192 65 366	203 72 414	221 73 461	8.6 1.7 11.2	11,166 12,455 12,999 11,871	13,081 14,456 12,108	14,082 15,120 12,237	102 62 151
Alachua Baker Bay	2,931 232 1,909	3,102 245 2,057	3,309 260 2,204	6.7 6.1 7.1	16,078 12,470 14,988	16,692 12,908 15,787	17,468 13,437 16,445	21 53 29	Candler	106 996	116 1,035	124 1,101	6.4 6.4	13,659 13,858	14,638 14,195	15,398 14,910	50 70
Bradford Brevard Broward	253 7,104 28,114	267 7,484 28,737	287 7,964 30,068	7.7 6.4 4.6	11,188 17,621 22,276	11,620 18,019 22,393	12,440 18,715 23,107	61 15 6	Catoosa Charlton	534 91	555 97	597 103	7.4 6.3 6.9	12,511 10,686 17,650	12,818	13,476 11,688 19,108	118 155 7
Calhoun Charlotte	116 1,945	122 2,014	129 2,118	5.9 5.1	10,521 17,265	10,847 17,251	11,356 17,761	65 19	Chatham	3,839 195 276	3,972 211 294	4,245 241 319	14.4 8.4	11,613 12,397	18,109 13,945 13,123	14,782 14,202	76 96
Citrus Clay	1,367 1,786	1,429 1,874	1,508 1,970	5.5 5.1	14,447 16,720	14,685 16,999	15,123 17,241	38 22	CherokeeClarke	1,507 1,306	1,571 1,362	1,722 1,434	9.6 5.3	16,497 14,876	16,227 15,484	16,875 16,263	21 31
Collier Columbia Dade	4,209 555 34,274	4,377 587 35,238	4,486 633 34,384	2.5 8.0 -2.4	27,300 12,951 17,629	27,327 13,438 17,807	27,232 14,236 17,124	4 45 25	Clayton	35 2,881	41 3,029	43 3,258	5.0 7.6	10,451 15,738	12,163 16,288	12,629 17,198	142 18
De Soto	326 114	361 113	368 123	2.0 8.1	13,622 10,635	14,898 10,265	15,148 10,790	37 66	Clinch	9,890	72 10,280	79 11,188	10.4 8.8	10,716 21,933	11,489 22,148	12,697 23,368	140
Duval Escambia	12,038 3,952	12,528 4,149	13,324 4,463	6.4 7.6	17,780 15.007	18,189 15,540	19,011 16,474	14 28	Colfee Colquitt Columbia	409 500 1,129	435 528 1,176	471 558 1,246	8.2 5.5 5.9	13,777 13,633 16,867	14,465 14,402 16,736	15,292 15,093 17,062	53 63 19
Flagler Franklin	420 115 483	445 123 513	480 132 556	7.8 6.9 8.5	14,257 12,843 11,722	14,122 13,512 12,241	14,285 14,272 13,174	43 44 56	Cook	156 893	165 933	176 1,012	6.9 8.5	11,615 16,380	12,216 16,316	13,093 16,775	131
GadsdenGilchrist	111	121	131	8.2	11,416	12,029	12,538	60	Crawford	107 265	112 284	119 303	6.7 6.4	11,869 13,227	12,107 13,896	12,888 14,850	135 72
GladesGulf	94 142	102 150	109 162	6.8 7.7	12,300 12,324	13,575 12,979	14,619 13,814	40 49	Dade Dawson	151 140	158 149	168 160	5.8 7.0	11,446 14,687	11,917 15,058	12,556 15,473	146 47
HamiltonHardee	123 295 403	126 312 463	136 320 475	8.3 2.6 2.6	11,227 15,085 15,610	11,353 15,585 17,071	12,127 15,930 17,128	63 31 24	Decatur De Kalb	344 11,406	372 11,880	382 12,703	2.9 6.9	13,446 20,816	14,424 21,364	14,766	77
Hendry Hernando Highlands	1,477 1,066	1,561 1,134	1,664 1,171	6.6 3.2	14,381 15,454	14,626 16,217		36 26	Dodge Dooly	206 123	222 145	235 149	5.5 3.0	11,694 12,455	12,449 14,606	13,237 14,924	126 69
Hillsborough Holmes	14,214 168	14,919 182	15,960 196	7.0 7.9	16,997 10,645	17,620 11,406	18,589 12,044	17 64	Dougherty Douglas Early	1,388 1,112 153	1,480 1,155 168	1,545 1,248 175	4.4 8.0 3.9	14,425 15,521 12,893	15,302 15,721 14,150	15,801 16,550 14,617	42 25 82
Indian RiverJackson	2,275 520	2,377 563	2,445 607	2.9 8.0	25,028 12,542	25,765 13,481	26,158 14,335	5 42	Echols	26	27	29	7.1	11,244	11,599	12,571	144
Jefferson Lafayette	145 66	157 68	170 72	8.3 5.6	12,758 11,784	13,571 12,078	14,473 12,550	41 59	Effingham	361 254	368 268	390 280	6.2 4.7	13,897 13,388	13,840 14,108	14,202 14,783	97 75
Lee	2,500 6,563 3,235	2,603 6,801 3,423	2,776 7,151 3,639	6.6 5.1 6.3	16,274 19,396 16,697	16,529 19,603 17,234		23 11 18	Emanuel Evans Fannin	241 116 186	255 124 199	265 131 216	3.8 6.0 8.6	11,730 13,297 11,617	12,392 14,117 12,248	12,836 14,731 12,988	136 79 133
Leon Levy Liberty	306 68	328 72	351 78	6.9 9.1	11,710 12,098	12,337 12,612	12,920 13,584	58 52	Fayette Floyd	1,348 1,270	1,439 1,345	1,570 1,440	9.1 7.0	21,312 15,612	21,696 16,458	22,534 17,515	4
Madison	183	195	208	6.6	11,053	11,681	12,430	62	Forsyth Franklin	832 249	883 262	968 281	9.7 7.2	18,597 14,924	18,763 15,498	19,420 16,389	6 29
Manatee Marion Martin	4,066 2,855 2,897	4,273 3,003 2,995	4,552 3,198 3,129	6.5 6.5 4.5	19,078 14,500 28,443	19,806 14,799 28,900	21,009 15,375 30,005	10 35 2	Fulton	16,835 192	17,500 201	18,771 214	7.3 6.4	25,916 14,252	26,662 14,455	28,194 14.925	68
Monroe Nassau	1,673 771	1,732 823	1,767 880	2.0 6.9	21,389 17,413	21,853 18,054	22,056 18,676	8 16 20	Glascock	31 1,096	34 1,135	36 1,205	7.3 6.2	13,283 17,481	14,689 17,914	15,867 18,881	41 9
Okaloosa Okeechobee Orange	2,333 383 12,138	2,520 400 12,739	2,709 417 13,639	7.5 4.2 7.1	16,139 12,867 17,727	16,987 13,105 18,176	17,656 13,617 19,086	20 50 13	Grady	509 233 153	531 249 163	580 267 172	9.2 7.1 5.3	14,463 11,469 12,902	14,852 12,222 13,506	15,944 13,021 14,162	38 132 98
Osceola	1,585 25,319	1,670 26,866	1,795 27,831	7.5 3.6	14,404 29,103	14,405 30,347	15,054 30,901	39 1	Greene	7,289 405	7,735 431	8,440 464	9.1 7.6	20,436 14,608	20,736 15,321	21,543 16,193	5 35
Pasco Pinellas	4,074 17,525	4,178 17,912	4,401 18,856	5.3 5.3	14,456 20,496	14,726 20,864		34 9	Hall Hancock	1,581 97	1,664 103	1,797 111	8.0 7.7	16,469 10,841	16,930 11,525	17,972 12,340	13 149
Polk Putnam	6,229 764	6,472 814	6,816 890	5.3 9.3	15,292 11,696	15,676 12,267	16,268 13,258	30 55	Haralson Harris	299 284	312 293	327 308	4.9 5.0	13,569 15,918	14,093 16,441	14,594 16,895	83 20
St. Johns	1,848 2,280	1,939 2,387	2,064 2,506	6.4 5.0	21,786 14,959	22,095 15,203	15,553	7 33	Hart Heard	284 93	312 293 295 100	308 312 104	5.5 4.1	14,350 10,686	14,860 11,286	15,452 11,555	48 156
Santa Rosa Sarasota Seminole	1,221 7,377 5,423	1,309 7,552 5,615	1,423 7,820 6,052	8.7 3.5 7.8	14,861 26,403 18,632	15,296 26,719 18,616	27,719	32 3 12	Henry Houston	976 1,395 106	1,034 1,454 116	1,119 1,523 121	8.2 4.7 3.9	16,302 15,564 12,224	16,238 15,873 13,462	16,512 16,251 13,997	27 32 107
Sumter	371	399	432	8.1	11,694	12,424	13,306	54	Irwin	420 117	444 119	478 129 174	7.6 9.0	13,931 13,761	14,431 13,867	15,223 14,876	56 71
Suwannee	354 221	369 226	395 243	6.9 7.5	13,134 12,866	13,328 13,016	13,947 14,048	47 46	Jeff Davis	162	165		5.8	13,484	13,660	14,375	92
Union Volusia Wakulla	93 5,893 189	99 6,091 201	105 6,415 216	5.7 5.3 7.2	9,055 15,760 13,160	9,527 15,944 13,498	9,922 16,526 13,905	67 27 48	Jefferson Jenkins Johnson	206 89 91	226 100 98	242 106	6.9 6.4 7.4	11,856 10,822 10,926	12,909 12,028 11,663	13,843 12,561 12,693	108 145 141
WaltonWashington	334 193	368 209	402 225	9.3 7.9	12,002 11,361	12,817 12,101	13,592 12,955	51	JonesLamar	320 160	335 167	105 356 178	6.3 6.5	15,393 12,229	16,001 12,597	16,751 13,159	24 129
Georgia Metropolitan portion	111,406 82,762	117,094 86,608	125,642 93,043	7.3 7.4	17,121 18,917	17,666 19,372	18,549 20,283		Lanier Laurens	70 552	76 591 229	81	6.8 7.5	12,561 13,793	13,331 14,640	14,049 15,524	105 45
Nonmetropolitan portion	28,644 182	30,485	32,599 205	6.9 3.3	13,434 11,546	14,132 12,446	14,912		Liberty Lincoln	209 436 96	509 102	635 236 626 108	3.2 23.0 5.4	12,805 8,261 12,797	13,683 9,498 13,598	13,557 10,973 14,129	116 158 99
Atkinson	76 113	80 120	88 130	10.4 8.4	12,244 11,824	12,872 12,440	14,085 13,221	101 127	Long Lowndes	59 1,068	64 1,128	70 1,210	9.5 7.2	9,283 13,999	10,300 14,645	10,148 15,510	159 46
Baker Baldwin	48 572	59 620	58 657	-1.8 6.0	13,303 14,443	16,070 15,487	15,983 16,225	37 34	Lumpkin McDuffie	205 280	214 298 101	233 318	8.6 6.5	13,928 13,875	14,182 14,586	15,065 15,185	65 58
Barks Barrow Bartow	139 425 814	147 444 832	157 484 904	6.9 9.0 8.6	13,417 14,132 14,432	14,007 14,264 14,322	14,676 15,076 15,170	81 64 60	McIntosh	94 157	169	106 182	5.2 7.7	10,880 11,973	11,540 12,914	11,849 14,092	153 100
Ben Hill Berrien	215 185	234 195	244 210	4.4 7.3	13,257 13,095	14,139 13,678	14,742	78 86	Madison Marion Meriwether	292 63 245	305 68 258 95	106 182 325 73 272 96	6.6 7.4 5.1	13,747 11,301 10,887	14,079 12,022 11,407	14,722 12,805 11,972	80 138 152
Bibb	2,574	2,717	2,881	6.0	17,145	17,948		8	Miller	82	95	96	1.0	13,124	15,029	15,182	
							ı	i	1								

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

	1			oullai					Personal Income by Cou	111y, 198	10-32 -	Continu	ieu				
	1	Total persor	nal income		Per c	apita per	rsonal inc				otal person	al income		Per c	apita per	sonal inc	
Area name		lions of doll		Percent change 2		Dollars		Rank in State	Area name		ions of dolla		Percent change ²		Dollars		Rank in State
Mitchell	1990 242	1991 267	1992	1991–92 4.8	1990 11,931	1991	1992 13,620	1992	Custer	1990	1991 54	1992 55	1991–92	1990 14,527	1991	1992 13,548	1992
Monroe Montgomery Morgan Murray Muscogee Newton Oconee Oglethorpe Paulding Peach Pickens	243 90 189 325 2,733 590 312 130 576	249 95 194 340 2,942 623 325 135 596 343 230	265 100 208 376 3,135 670 345 143 652 360 248	6.2 5.1 7.3 10.4 6.6 7.5 6.0 6.3 9.3 5.0 8.2	14,177 12,482 14,614 12,329 15,200 14,031 17,555 13,211 13,710 15,529 15,307	14,210 13,144 14,823 12,540 16,345 14,305 17,796 13,539 13,343 16,009 15,505	14,792 13,697 15,701 13,517 16,823 14,973 18,447 14,053 13,775 16,367 16,526	74 113 43 117 22 66 12 104 110	Elmore Franklin Freemont (incl. Ylwstn. Natl. Pk.) Gem Gooding Idaho Jefferson Jerome Kootenai Latah Lemhi	98 143 164 181 188 204 230 1,097 433 90	339 103 141 174 188 193 212 235 1,197 452 93	358 110 154 189 201 208 226 253 1,325 488 99	5.6 6.6 9.2 8.7 7.2 7.4 7.0 8.0 10.8 7.9 6.6	15,242 10,637 13,038 13,750 15,571 13,580 12,297 15,121 15,586 14,134 12,989	10,906 12,608 14,178 15,826 13,896 12,471 15,149 16,203 14,527 13,216	17,390 11,563 13,698 15,021 16,712 14,625 12,939 16,153 17,110 15,347 13,993	9 43 33 22 12 27 36 13 11 18
Pierce Pike Polk Polk Pulaski Punam Quitman Rabun Randolph Richmond Rockdale	169 142 437 115 205 25 147 91 3,172 966	181 151 446 131 210 28 156 101 3,327 1,018	197 162 472 140 229 29 164 105 3,507 1,100	5.2	12,579 13,740 12,899 14,160 14,335 11,529 12,596 11,396 16,655 17,677	13,397 14,332 13,084 16,266 14,305 12,385 13,203 12,409 17,057 17,851	17,367 15,243 12,966 13,733	89 51 111 15 55 134 112 130	Lewis Lincoln Madison Minidoka Nez Perce Oneida Owyhee Payette Power	62 51 230 239 554 40 105 209 133 198	61 46 235 251 578 42 107 220 120 195	62 51 245 258 631 43 109 239 133 200	1.9 10.4 4.4 3.0 9.1 3.4 1.5 8.8 10.6 3.1	17,565 15,193 9,692 12,354 16,372 11,505 12,428 12,702 18,784 14,165	17,007 13,797 9,965 12,702 16,836 12,067 12,604 12,996 16,513 13,802	17,122 14,961 10,228 12,807 18,061 12,460 12,712 13,700 17,624 14,694	10 23 44 38 4 40 39 32 7 25
Schley Screven Seminole Spalding Stephens Stewart Sumter	46 175 110 761 322 62 411	47 189 120 803 338 65 446	50 200 127 861 361 69 470	7.3 5.9 6.2 7.2 6.6 5.5	12,767 12,679 12,232 13,909 13,828 10,884 13,584	13,094 13,763 13,207 14,459 14,344 11,811 14,610	14,073 14,520 14,046 15,327 15,123 12,589	103 87 106 52 61 143 54	Shoshone Teton Twin Falls Valley Washington	40 804 106 106 230,790	43 851 115 113	47 896 124 122 252,858	8.6 5.3 8.4 7.8	11,667 14,951 17,268 12,320 20,159	11,978 15,498 17,446 13,127 20,602	12,050 16,006 17,913 14,021 21,774	42 15 5 30
TalbotTaliaferro	69 24	72 24	75 26	3.7 6.2	10,529 12,450	10,981 13,277	11,277	157 88	Metropolitan portion Nonmetropolitan portion	202,665 28,125	208,866 28,561	221,965 30,893	6.3 8.2	21,129	21,599 15,402	22,749 16,646	
Tathall Taylor Telfair Terreil Thomas Tift Toombs Towns Treutlen	219 99 135 122 572 495 326 86 65	236 104 143 134 607 528 346 89 71	248 110 152 143 639 555 366 94 74	5.0 6.2 6.4 6.3 5.2 5.1 5.6 6.3 4.3	12,373 12,875 12,309 11,434 14,660 14,132 13,522 12,627 10,864	13,259 13,605 13,029 12,699 15,509 14,933 14,305 12,880 11,884	13,812 14,400 13,246 13,588 16,141 15,603 14,941 13,440	109 91 125 115 36 44 67 120 147	Adams Alexander Bond Boone Brown Bureau Calhoun Carroll Cass Champaign	1,075 120 214 555 72 583 78 267 213 2,835	1,114 124 216 550 74 601 77 267 214 2,889	1,187 136 232 583 82 656 83 292 233 3,059	6.6 9.1 7.6 5.9 11.0 9.0 7.5 9.1 9.0 5.9	16,265 11,342 14,226 17,922 12,365 16,333 14,574 15,893 15,813 16,382	16,801 11,749 14,357 17,339 12,578 16,888 14,581 16,078 15,925 16,632	17,895 12,838 15,417 17,785 13,876 18,427 15,989 17,542 17,506 17,459	32 100 82 36 96 24 72 38 40 43
Troup Turner Twiggs Union Upson Walker Walton Ware Waren Waren	846 106 102 145 335 772 563 455 69 277	868 122 109 160 350 809 601 485 72 293	918 130 115 173 376 865 649 513 77 316	7.5 6.9 8.0 5.8 8.0	15,220 12,221 10,331 12,050 12,735 13,223 14,507 12,844 11,333 14,480	15,375 13,995 11,148 12,924 13,344 13,739 15,047 13,672 11,777 15,250	13,430 14,348 14,577 15,923 14,354 12,830	33 57 154 121 94 85 39 93 137 28	Christian Clark Clay Clinton Coles Cook Crawford Cumberland De Kalb De Witt	586 227 213 566 776 108,616 308 150 1,267	572 232 217 571 797 111,876 323 152 1,293 269	616 254 239 619 861 118,479 347 166 1,384 296	7.6 9.4 10.2 8.4 7.9 5.9 7.6 9.5 7.0	17,004 14,252 14,735 16,670 15,042 21,273 15,891 14,027 16,183 15,874	16,680 14,670 14,975 16,774 15,460 21,863 16,653 14,123 16,328 16,201	17,986 16,039 16,664 18,068 16,615 23,053 17,810 15,386 17,314 17,836	31 71 59 29 61 3 35 83 45
Wayne Webster Wheeler White Whitfield Wilcox Wilkes Wilkinson Worth Hawaii	295 28 57 206 1,215 84 154 139 239	321 32 60 222 1,259 96 161 141 263 24,488	339 33 64 240 1,374 101 169 148 274 25,657		13,141 12,410 11,544 15,741 16,723 12,021 14,517 13,600 12,097 20,905	13,808 14,171 12,334 16,532 17,177 13,730 15,279 13,759 13,168 21,576	15,912 14,415 13,465	95 73 123 17 11 84 40 90 119	Douglas Du Page Edgar Edwards Effingham Fayette Ford Franklin Fulton Gallatin	302 21,726 292 109 529 258 256 555 560 104	307 22,549 287 108 527 259 258 555 567 98	324 24,146 313 114 562 289 284 602 606 112	5.4 7.1 9.2 5.6 6.6 11.5 10.0 8.5 6.9 13.6	15,528 27,656 14,958 14,684 16,643 12,331 18,047 13,780 14,709 15,052	15,791 28,133 14,777 14,680 16,517 12,514 18,451 13,843 14,934 14,489	16,661 29,587 16,225 15,586 17,514 13,935 20,420 15,091 15,917	60 1 68 79 39 95 10 86
Metropolitan portion Nonmetropolitan portion Hawaii Honolulu Kauai	18,448 4,818 1,948 18,448 929	19,336 5,152 2,087 19,336 1,008	20,597 5,060 2,196 20,597 636	5.2 6.5	22,009 17,538 16,032 22,009 17,996	22,744 18,090 16,520 22,744 18,928	17,294 16,846 23,864	3 1 4	Greene	189 624 115 304 62	188 628 116 307 69	201 698 130 339 73	7.2 11.1 11.9 10.3 5.5	12,331 19,195 13,617 14,242 11,969	12,358 18,871 13,790 14,389 13,556	13,273 20,629 15,528 15,818 14,102	99 8 81
Maui + Kalawao Idaho Metropolitan portion Nonmetropolitan portion	1,941 15,482 5,128 10,355	2,056 16,368 5,504 10,865	2,228 17,746 6,067 11,679	8.4 8.4 10.2	19,107 15,304 17,204 14,511	19,551 15,773 17,801 14,912	20,633 16,649 18,982	2	Henderson Henry Iroquois Jackson Jasper	113 813 503 773 157	117 802 513 795 159	131 857 566 844 179	11.4 6.8 10.4 6.1 12.3	13,961 15,913 16,336 12,670 14,837	14,431 15,730 16,624 13,109 15,073	15,756 16,761 18,184 13,848 16,970	76 57 26 97
Ada Adams Bannock Bear Lake Benewah Bingham Blaine Boise Bonner Bonneville	3,961 48 884 67 112 514 314 50 369 1,191	4,259 50 939 70 118 534 338 54 401 1,273	4,713 53 1,018 77 128 566 359 59 441 1,369	10.2 9.1 5.9 6.2 9.0 10.1	19,093 14,840 13,347 11,054 14,040 13,667 22,774 13,999 13,792 16,403	19,739 15,048 14,029 11,530 14,670 13,900 23,588 14,483 14,345 16,943	15,071 14,854 12,374 15,849 14,278 24,111 14,639 15,238	3 20 24 41 16 28 2 26 19	Jefferson Jersey Jo Daviess Johnson Kane Kankakee Kendall Knox Lake La Salle	541 297 365 119 6,574 1,570 767 871 14,281 1,704	566 301 370 122 6,843 1,612 792 888 14,936 1,778	600 321 403 130 7,318 1,728 846 959 15,899 1,925	6.1 6.8 8.9 6.6 7.0 7.2 6.9 8.0 6.4 8.3	14,594 14,434 16,753 10,457 20,561 16,257 19,394 15,450 27,477 15,909	15,295 14,481 16,847 10,627 20,962 16,525 19,577 15,778 28,139 16,541	16,212 15,291 18,417 11,147 21,936 17,471 20,515 17,071 29,386 17,842	69 84 25 102 6 42 9 51 2
Boundary Butte Camas Canyon Caribou Cassia Clark Clearwater	97 37 12 1,167 96 332 24 119	102 36 11 1,245 99 332 22 130	114 38 12 1,353 107 352 22 137	11.3 4.8 9.6 8.7 7.9 6.2 .5 5.0	11,555 12,868 15,808 12,879 13,767 16,930 31,411 14,065	12,214 12,589 14,664 13,326 14,010 16,780 28,720 15,235	16,114 14,057 15,029 17,471 27,566	35 37 14 29 21 8 1	Lawrence Lee Livingston Logan McDonough McHenry McLean	257 547 682 481 433 4,001 2,360	271 518 679 482 451 4,106 2,450	295 557 738 520 492 4,421 2,675	8.7 7.5 8.6 8.0 9.0 7.7	16,130 15,868 17,332 15,638 12,280 21,594	17,048 14,989 17,271 15,776 12,919 21,301 18,607	18,713 16,061 18,608 16,965 14,117 22,099 20,049	22 70 23 53 93 5

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

	rabie	2.—1	otal Pe	rsonai	Incon	ne an	a Per	Саріта	Personal Income by Cou	iity, 19	90-92-	Continu	iea				
	1	Total persor	nal income	D	Per d	apita pe	sonal in			•	Total persor	nal income	D	Per d	apita pe	rsonal in	_
Area name	Mill 1990	ions of doll	1992	Percent change ² 1991–92	1990	Dollars 1991	1992	Rank in State	Area name	Mil 1990	lions of dolla	1992	Percent change ² 1991–92	1990	Dollars 1991	1992	Rank in State
Macon	2,110 759 4,433 621 212 238 195 192 263 400	2,147 759 4,528 635 214 241 201 194 265 401	2,252 818 4,795 697 232 263 217 213 284 424	4.9 7.7 5.9 9.8 8.2 9.0 8.1 9.9 7.1 5.7	18,004 15,924 17,747 14,932 16,498 14,582 13,201 17,238 15,239	18,254 15,864 17,985 15,281 16,754 14,678 13,618 17,248 15,286	19,134 17,119 18,931 16,785 18,095 15,936 14,604 18,749 16,362	56 28 73 91 21 64	Johnson Knox Kosciusko Lagrange Lake La Porte Lawrence Madison Marion Marshall	1,618 574 1,117 365 7,962 1,682 619 2,048 15,625 649	1,699 598 1,142 372 8,218 1,737 654 2,068 16,352 666	1,834 661 1,228 404 8,633 1,853 702 2,177 17,521 721	7.9 10.7 7.5 8.6 5.1 6.7 7.3 5.3 7.1 8.3	18,257 14,431 17,085 12,340 16,707 15,683 14,413 15,652 19,554 15,360	18,564 15,020 17,464 12,508 17,138 16,059	19,648 16,623 18,625 13,341 17,918 17,018 16,177 16,551 21,555 16,708	3 7 8 46 5 14 8 89 3 23 3 31 7 54 1 47 5 3
Monroe Montgomery Morgan Moultrie Ogle Peoria Perry Platt Pike Pope Pulaski Putnam	448 575 207 750 3,375 313 288 228 49 90 113	456 583 207 761 3,457 305 287 235 50 91 119	504 621 229 817 3,606 321 315 255 55 101 127	10.6 6.5 10.5 7.3 4.3 5.2 9.6 8.2 7.9 11.1 6.9	17,718 14,610 15,801 14,811 16,274 18,436 14,588 18,484 13,003 11,330 12,002 19,754	17,436 14,908 16,009 14,915 16,230 18,801 14,276 18,348 13,495 11,560 12,308 20,662	18,040 16,522 17,123 16,347 17,201 19,647 15,044 19,983 14,675 12,676 13,739 22,129	62 49 66 47 15 87 13 89 101 98 4	Martin Miami Monroe Montgomery Morgan Newton Noble Ohio Orange Owen Parke	140 510 1,589 557 875 197 555 68 229 217	148 518 1,678 575 922 188 563 71 237 232	158 540 1,804 639 986 215 618 76 259 253	6.7 4.4 7.5 11.0 7.0 14.3 9.8 7.3 9.6 9.1	13,483 13,829 14,541 16,153 15,569 14,502 14,597 12,729 12,409 12,511 13,789	16,094 13,696 14,705 13,331 12,748 13,118	15,022 14,612 16,239 18,206 16,813 15,510 15,982 14,350 14,006 13,864	2 79 53 6 20 8 39 6 67 2 57 0 82 6 84 4 87
Randolph Richland Rock Island St. Clair Saline Sangamon Schuyler Scott Shelby Stark Siephenson Tazeweil	503 238 2,798 4,113 400 3,465 100 75 321 104 861 2,245	505 245 2,872 4,234 417 3,570 100 73 317 99 864 2,243	526 271 3,020 4,517 441 3,803 110 82 350 111 929 2,365	4.2 10.3 5.1 6.7 5.7 6.5 9.4 11.1 10.4 12.5 7.6 5.5	14,580 14,398 18,827 15,653 15,102 19,389 13,288 13,354 14,412 15,899 17,891 18,116	14,607 14,814 19,245 16,133 15,851 19,841 13,308 13,170 14,244 15,415 17,930 17,979	15,282 16,351 20,151 17,166 16,715 20,968 14,651 14,538 15,732 17,499 19,211 18,820	65 11 48 58 7 90 92 77 41 17	Perry Pike Porter Posey Pulaski Putnam Randolph Ripley Rush St. Joseph Scott	240 190 2,411 416 196 413 394 378 259 4,166 265	248 193 2,505 431 183 434 396 399 265 4,303 283	264 205 2,645 478 204 474 410 433 291 4,606 313	6.4 6.0 5.6 10.9 11.4 9.1 3.4 8.6 10.0 7.1	12,556 15,196 18,632 16,022 15,517 13,558 14,525 15,283 14,260 16,830 12,610	13,015 15,596 18,916 16,607 14,381 13,955 14,586 15,894 14,558 17,297 13,253	13,956 16,442 19,593 18,316 15,843 14,953 15,141 17,046 15,943 18,387 14,528	56 85 20 50 31 9 56 19 58 60 76 73 56 30 58 58 7 17 8 80
Union Vermilion Wabash Warren Washington Wayne White Whiteside Will	235 1,336 207 274 243 228 251 975 6,679	247 1,369 204 268 238 239 253 976 6,913	266 1,472 220 300 260 264 277 1,052 7,444	7.8 7.5 7.6 11.8 9.1 10.7 9.5 7.9	13,337 15,153 15,812 14,278 16,244 13,266 15,240 16,214 18,587	14,001 15,583 15,571 14,008 16,058 14,041 15,513 16,138 18,823	14,966 16,879 15,691 17,592 15,580 17,257 17,377 19,824	88 55 54 78 37 80 46 46	Shelby Spencer Starke Steuben Sullivan Switzerland Tippecanoe Tipton Union	661 276 262 435 269 89 2,021 273	684 278 259 453 278 97 2,126 280	748 303 288 488 307 105 2,278 298	9.3 8.9 11.3 7.9 10.1 7.7 7.2 6.4	16,355 14,121 11,461 15,810 14,168 11,445 15,476 16,920 13,018	16,750 14,199 11,321 16,181 14,692 12,468 16,124 17,368	18,148 15,391 12,790 17,130 16,173 13,140 17,104 18,492	68 91 28 35 55 90 4 29 2 16
Williamson Winnebago Woodford Indiana Metropolitan portion Nonmetropolitan portion	4,694 559 93,415 69,910 23,506	888 4,786 563 96,720 72,650 24,071	5,074 602 103,922 77,819 26,103	7.5 6.0 7.0 7.4 7.1 8.4	14,717 18,512 17,018 16,815 17,606 14,833	15,364 18,625 16,907 17,251 18,107 15,098	16,339 19,555 18,100 18,366 19,203 16,254	67 16 27	Vanderburgh Vermillion Vigo Wabash Warren Warrick Washington Wayne Wells	3,031 241 1,585 533 117 787 303 1,099 432	3,122 256 1,676 541 101 807 308 1,129 436	3,356 273 1,804 568 128 855 336 1,204 469	7.5 6.7 7.6 5.1 26.0 6.0 8.9 6.6 7.4	18,346 14,371 14,944 15,175 14,273 17,476 12,770 15,264 16,646	18,854 15,433 15,732 15,482 12,421 17,602 12,831 15,673	20,176 16,487 16,836 16,298 15,658 18,346 13,751 16,689 17,985	5 7 48 37 37 52 8 62 18 88 9 44
Adams Allen Bartholomew Benton Blackford Boone Brown Carroll Cass Clark	467 5,725 1,141 152 200 774 201 304 587 1,367	471 5,865 1,179 138 201 812 212 305 597 1,440	491 6,279 1,309 162 215 880 229 329 651 1,560	4.3 7.1 11.1 17.3 6.6 8.4 8.0 7.9 9.1 8.4	14,969 18,997 17,865 16,097 14,234 20,788 14,218 16,160 15,295 15,581	15,029 19,337 18,183 14,668 14,453 21,560 14,706 15,991 15,541 16,225	15,640 20,583 19,984 16,836 15,352 22,925 15,583 17,012 16,901 17,403	4 6 36 70 2 64 32 34	White Whitley lowa Metropolitan portion Nonmetropolitan portion Adair Adams	363 440 46,375 21,609 24,766	358 449 47,695 22,552 25,143 125	399 481 51,225 24,148 27,077 136	11.4 7.0 7.4 7.1 7.7 9.2 8.2		18,564	16,453	35 35 33 34 37 37
Clay	336 473 108 378 600 352 549 1,883 668	351 482 114 390 629 368 567 1,974 688	386 527 124 422 674 406 620 2,112 735	9.8 9.2 8.6 8.2 7.1 10.4 9.3 7.0 6.9	13,580 15,228 10,909 13,698 15,374 14,890 15,486 15,741 18,208	14,181 15,369 11,483 14,084 15,716 15,384 15,789 16,485 18,469	15,377 16,640 12,309 15,175 16,333 16,743 16,941 17,543 19,637	69 45 92 72 51 41 33 25 8	Allamakee Appanoose Audubon Benton Black Hawk Boone Bremer Buchanan	199 183 116 345 1,972 425 353 312	191 190 120 347 2,035 442 359 318	211 203 127 377 2,175 477 390 339	10.3 6.7 6.1 8.6 6.9 8.0 8.5 6.7		13,849 13,868 16,559 15,429 16,252 17,468 15,780		8 90 8 93 5 24 6 62 6 46 9 11 5 52 79
Elkhart Fayette Floyd Fountain Franklin Fulton Gibson Grant Greene Hamilton	2,651 389 1,098 251 268 275 500 1,147 418 2,839	2,714 391 1,156 240 274 277 503 1,186 441 3,007	2,955 431 1,252 278 295 303 545 1,241 479 3,273	8.9 10.1 8.3 15.5 8.0 9.4 8.5 4.6 8.5 8.9	16,949 14,968 16,932 14,102 13,137 14,545 15,673 15,463 13,688 25,748	17,237 15,056 17,443 13,475 13,357 14,639 15,808 15,987 14,220 25,930	18,547 16,482 18,628 15,511 14,386 15,850 17,173 16,730 15,238 26,985	49 13 66 81 59 27 42 71	Butler Calhoun Carroll Cass Cedar Cerro Gordo Cherokee Chickasaw Clarke Clay	235 175 354 237 294 782 229 207 113	237 176 368 242 295 800 233 209 111	257 201 398 260 317 838 241 225 120	14.4 8.1 7.8 7.3 4.7 3.4 7.6 7.5	14,920 15,244 16,521 15,682 16,910 16,734 16,205 15,599 13,696	15,029 15,336 17,234 16,109 16,957 17,041 16,626 15,833	16,377 17,647 18,611 17,426 18,041 17,898 17,313 17,056 14,386	7 72 7 33 1 14 6 40 1 22 8 26 8 47 6 54 96
Hancock Harrison Hendricks Henry Howard Huntington Jackson Jasper Jay Jefferson Jennings	825 427 1,373 737 1,437 572 544 364 282 399 313	865 444 1,444 759 1,486 577 560 360 286 416 325	925 483 1,548 817 1,589 629 629 618 393 304 454 362	7.0 8.8 7.2 7.7 6.9 9.1 10.3 9.1 6.0 9.1 11.6	18,053 14,269 18,056 15,297 17,757 16,121 14,369 14,529 13,102 13,352 13,216	18,614 14,565 18,607 15,729 18,155 16,168 14,621 14,123 13,252 13,858	19,478 15,718 19,541 16,817 19,268 17,628 16,003 15,111 13,933 14,936	11 61 10 38 12 24 56 77 86	Clayton Clinton Crawford Dallas Davis Decatur Delaware Des Moines Dickinson Dubuque	285 807 252 528 113 101 289 710 273	274 828 262 556 111 101 280 726 276	302 891 283 602 119 107 300 765 299	10.2 7.6 7.9 8.2 7.2 6.1 7.2 5.3 8.2	14,940 15,806 15,094 17,668 13,584 12,173 16,026 16,641 18,251	14,537 16,254 15,748 18,336 13,396 12,434 15,407 16,977 18,171	16,128 17,409 17,032 19,491 14,401 13,225 16,376 17,846 19,610	82 9 41 55 1 55 1 95 5 99 6 73 6 28 0 4

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

-	Т	otal person	al income		Per c	apita per	sonal in	come 3		1	otal person	nal income		Per o	apita per	sonal in	come 3
Area name		ions of dolla		Percent		Dollars		Rank in	Area name	Milli	ons of dolla	ars	Percent		Dollars		Rank in
	1990	1991	1992	change ²	1990	1991	1992	State 1992		1990	1991	1992	change ²	1990	1991	1992	State 1992
Emmet Fayette Floyd Franklin Greene Grundy Guthrie Hamilton	173 316 272 180 121 152 206 175 270	171 316 272 173 124 158 211 179 286	189 337 288 198 137 181 230 193 306	6.5 6.0 14.6 10.2 14.5 9.3 8.1	14,943 14,458 15,965 15,859 14,728 15,127 17,120 15,950 16,832	14,737 14,467 16,174 15,313 15,277 15,812 17,673 16,117 17,831	16,241 15,490 17,077 17,755 16,856 18,094 19,164 17,364 19,022	53 29 60 20 9 43	Crawford Decatur Dickinson Doniphan Douglas Edwards Elk Ellis	520 76 279 118 1,175 77 44 419	549 75 277 131 1,238 78 44 427	588 76 305 140 1,326 82 48 453	7.2 1.3 10.2 6.9 7.1 4.0 9.1 6.1	14,641 18,891 14,711 14,602 14,302 20,415 13,359 16,157	15,554 19,230 14,720 16,160 14,853 21,370 13,916 16,452	16,599 19,915 15,903 17,406 15,682 22,711 15,281 17,437	85 53 91 10 97 51
Hancock Hardin Harrison Henry Howard Humboldt Ida Iowa Jackson Jasper	192 307 206 299 146 169 133 242 292 589	178 308 212 307 146 163 131 254 293 596	201 335 239 330 156 186 146 282 322 638	12.6 7.3 6.6 14.2 11.3 11.3 9.9 6.9	15,204 16,104 13,989 15,512 14,929 15,688 15,963 16,562 14,672 16,910	14,320 16,286 14,479 15,882 14,806 15,303 15,884 17,247 14,775 17,143	16,360 17,877 16,317 16,929 15,802 17,710 17,658 19,222 16,137 18,255	87 31 32 7 81 18	Ellsworth Finney Ford Franklin Geary Gove Graham Grant Gtay Greeley Greenwood	96 525 435 305 400 79 56 123 94 52	94 570 449 316 403 70 53 132 98 57 118	100 624 460 347 468 77 59 146 95 48 125	7.0 9.3 2.4 10.1 16.2 9.4 12.6 10.7 -2.8 -16.2 6.1	14,638 15,839 15,849 13,847 13,148 23,805 15,824 16,646 17,508 29,276 14,859	14,213 17,030 16,191 14,252 13,677 21,335 15,093 17,788 18,205 32,719 15,036	15,499 18,302 16,509 15,567 14,224 23,479 17,430 19,138 17,647 28,210 15,986	96 37 75 93 105 7 52 25 46 2 84
Jefferson Johnson Jones Keokuk Kossuth Lee Linn Louisa Lucas Lyon Madison	249 1,652 270 178 289 594 3,192 180 138 170	247 1,730 264 179 263 621 3,310 179 139 174	265 1,836 286 190 315 662 3,534 198 148 185	8.3 6.5 19.6 6.6 6.8 10.5 6.2	15,252 17,145 13,886 15,355 15,602 15,371 18,870 15,533 15,182 14,151	15,096 17,940 13,503 15,408 14,414 15,966 19,396 15,430 15,240 14,629 15,958	16,086 18,824 14,495 16,456 17,359 16,986 20,443 17,361 16,318 15,527	12 94 70 45 57 2 44 75 88	Hamilton Harper Harvey Haskell Hodgeman Jackson Jefferson Jewell Johnson Kearny	59 124 506 84 39 178 251 75 9,143	70 116 541 88 37 177 256 63 9,696 94	70 125 572 91 37 196 282 71 10,339 96	3 8.0 5.7 3.6 .9 10.6 10.0 11.8 6.6 2.8	24,557 17,501 16,301 21,740 18,053 15,462 15,737 17,823 25,584 25,040	29,968 16,583 17,440 22,363 16,780 15,395 16,031 15,444 26,509 23,601	29,969 18,502 18,430 22,958 17,346 17,113 17,393 17,546 27,560 24,086	1 32 34 8 55 61 54 49 3 6
Mahaska Marion Marshall Mills Mitchell Monona Monroe Montgomery Muscatine O'Brien	328 498 662 245 192 148 124 190 708	331 510 682 256 188 145 129 196 729	354 540 709 271 200 164 137 208 788	7.2 6.0 4.1 5.9 5.9 13.6 5.7 6.0 8.0	15,221 16,608 17,280 18,603 17,562 14,746 15,257 15,770 17,710	15,429 16,931 17,894 19,254 17,342 14,563 15,863 16,428 18,006	16,564 17,910 18,814 20,224 18,510 16,583 16,694 17,623 19,292	66 25 13 3 16 64 61 34 6	Kingman Kiowa Labette Lane Leavenworth Lincoln Linn Logan Lyon McPherson	129 65 333 51 891 61 115 51 500 450	126 66 350 51 940 56 114 52 535 458	139 66 363 48 1,043 64 127 52 566 493	10.4 -1.0 3.8 -6.4 11.0 14.1 11.5 .1 5.9 7.8	15,587 17,980 14,102 21,641 13,770 16,826 13,940 16,410 14,398 16,471	15,171 18,654 14,890 21,973 14,151 15,838 13,598	16,904 18,318 15,554 20,957 15,558 18,299 15,083 16,518 16,497 18,009	65 36 95 16 94 38 101 74 76 43
Osceola Page Palo Alto Plymouth Pocahontas Polk Pottawattamie Poweshiek Ringgold Sac Scott	109 270 162 385 144 6,675 1,250 311 73 187 2,723	111 277 153 400 144 7,029 1,307 315 72 187 2,817	116 299 173 426 163 7,548 1,389 336 80 207 2,978	4.7 8.2 13.0 6.5 12.9 7.4 6.3 6.5 10.4	14,937 15,996 15,190 16,465 15,173 20,324 15,109 16,354 13,471 15,212 17,988	15,356 16,478 14,531 17,097 15,410 21,101 15,747 16,637 13,487 15,407 18,364	16,189 18,093 16,554 18,025 17,617 22,315 16,584 17,720 15,004	80 21 67 23 35 1 63 30 91	Marion Marshall Meade Miami Mitchell Montgomery Morris Morton Nemaha Neosho Ness	181 200 83 366 126 571 87 58 179 254 79	181 194 86 372 115 580 85 61 186 269 72	201 221 86 402 125 610 94 63 197 287 79	11.4 13.8 .3 8.0 8.7 5.3 10.1 4.4 5.9 6.8 9.2	14,082 17,193 19,690 15,542 17,563 14,729 13,962 16,814 17,202 14,944 19,670	14,156 16,993 20,172 15,669 16,094 15,012 13,597 17,772 17,879 15,763 18,154	15,872 19,687 20,341 16,754 17,498 16,120 15,086 18,516 19,035 16,914 20,320	86 23 18 68 50 80 100 30 26 64 19
Shelby Sloux Story Tama Taylor Union Van Buren Wapello Warren Washington Wayne	206 436 1,146 271 88 185 98 538 574 329 96	212 462 1,206 269 90 186 99 558 599 335 95	224 492 1,278 286 98 200 109 593 648 350 104	6.6 5.9 6.3 7.9 7.4 10.3 6.3 8.2 4.6	15,599 14,566 15,430 15,573 12,372 14,501 12,734 15,056 15,878 16,771 13,626	16,017 15,292 16,208 15,501 12,862 14,745 12,782 15,628 16,353 16,894 13,617	16,988 16,219 17,191 16,482 14,006 16,060 14,125 16,580 17,372 17,464 14,993	78 48 68 98 85 97 65 42 39	Norton Osage Osborne Ottawa Pawnee Phillips Pottawatomie Pratt Rawlins Reno	96 221 82 86 142 109 237 169 58 1,000	94 226 75 78 145 105 243 178 52 1,038	106 246 84 87 155 115 265 185 55 1,092	12.9 9.1 11.4 12.1 6.9 9.2 9.4 3.9 6.5 5.2	16,174 14,505 16,351 15,362 18,856 16,631 14,653 17,552 17,061 16,027	18,571 15,414 16,661	18,508 15,850 17,651 15,826 20,377 17,982 15,781 19,264 16,694 17,565	
Webster Winnebago Winneshiek Woodbury Worth Wright Kansas Metropolitan portion Nonmetropolitan portion	617 203 321 1,615 125 222 43,763 25,786 17,977	655 193 320 1,699 117 218 45,553 27,203 18,350	701 218 346 1,853 126 240 48,764 29,126 19,638	7.0 13.2 8.2 9.1 8.0 10.1 7.0 7.1	15,293 16,739 15,422 16,396 15,627 15,559 17,639 19,280 15,720	16,287 16,074 15,396 17,105 14,861 15,447 18,290 20,081 16,156	17,538 18,352 16,460 18,539 16,071 16,891 19,387 21,197	36 17 69 15 84 59	Republic Rice Riley Rooks Rush Russell Saline Scott Sedgwick Seward	101 171 872 87 61 141 939 116 7,680 303	103 170 910 84 56 133 965 127 8,142 352	113 176 1,020 94 60 144 1,023 139 8,772 342	10.3 3.6 12.1 12.6 8.6 8.0 6.0 9.1 7.7 -2.7 5.5	15,653 16,166 12,973 14,501 15,897 18,129 19,023 22,025 18,979 16,206	16,424 14,071 13,994 14,606 17,208 19,313 24,335 19,867 18,863	18,442 17,091 15,204 15,835 16,082 18,920 20,273 26,429 21,053 18,267	33 62 99 88 81 27 20 4 15 39 21
Allen	198 103 237 94 472 214 165 845 47 57 279 59 57 149 178 129 49 552	200 105 243 87 486 227 168 900 44 62 290 59 52 142 166 136 46 564	219 126 268 94 501 245 50 975 50 64 321 58 52 157 176 151 47 59	19.9 10.0 7.4 3.2 7.9 7.2 8.4 12.5 1.9 10.6 6.5 10.7 2.6	13,543 13,298 14,023 16,014 16,118 14,347 14,805 16,661 15,637 13,090 18,415 23,702 16,343 16,248 15,309 21,279 14,957	13,694 13,543 14,540 15,263 15,321 15,168 17,358 15,202 14,529 13,559 18,309 22,131 15,710 15,378 16,196 20,692 15,442	14,986 16,078 16,059 16,682 17,138 16,612 16,395 18,232 17,203 14,832 14,874 18,142 22,223 17,075 16,702 17,601 21,866 16,338	82 83 71 60 72 78 40 58 104 103 41 12 63 69 47	Shawnee Sheridan Sherman Smith Stafford Stanton Stevens Sumner Thomas Trego Wabaunsee Wallace Washington Wichita Wilson Wyandotte	2,995 53 124 77 92 60 108 416 143 60 105 30 111 69 137 59 2,183	3,110 60 124 77 94 65 114 416 149 56 104 31 109 63 143 61 2,264	3,281 65 126 85 95 56 115 450 140 60 111 30 121 63 157 67 2,416	8.3 1.4 9.7 1.9 -12.6 1.0 8.2 -6.3 8.6 6.6 -2.2 11.1 -8 9.7 10.0	18,563 17,708 17,883 16,025 17,181 25,658 21,289 16,102 17,230 16,292 15,887 16,742 15,753 24,983 13,401 14,377 13,495	18,254 16,329 18,100 26,975 22,480 16,015 17,948 15,512 16,059 16,619 15,871 23,298 14,262 15,140	20,076 22,052 18,638 18,329 18,819 24,211 22,366 17,246 17,185 17,269 16,426 18,090 22,855 15,625 16,771 15,222	13 29 35 28 5 11 57 66 59 56 77 42 9

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

	Total personal income							•	Personal income by Cou	iity, 198	00-92-	Continu	leu				
	Т	otal person	al income	Percent	Per c	apita per	sonal inc			-	Total person	al income	Doroont	Per c	apita per	sonal inc	Rank in
Area name	Milli 1990	ons of dolla	1992	change ²	1990	Dollars 1991	1992	Rank in State 1992	Area name	1990	ions of dolla	1992	Percent change ²	1990	Dollars 1991	1992	State 1992
Kentucky Metropolitan portion Nonmetropolitan portion	54,454 30,654 23,800	57,520 32,275 25,244	62,043 34,698 27,345	7.9 7.5 8.3	14,751 17,187 12,474	15,483 17,957 13,165	16,528 19,068		Monroe Montgomery Morgan Muhlenberg	138 250 108 393	148 259 120 407	157 278 130 426	6.4 7.2 8.7 4.7	12,056 12,766 9,239 12,580	12,984 13,255 9,671 13,029	13,735 14,111 9,943 13,719	61 53 117 62
Adair Allen Anderson Ballard Barren Bath Bell Boone Bourbon Boyd	174 156 216 119 456 109 327 993 282 854	188 165 227 118 489 115 351 1,064 294 884	207 181 245 133 531 124 378 1,167 313 960	10.2 9.1 7.8 12.6 8.6 7.8 7.6 9.7 6.4 8.6	11,321 10,614 14,726 15,048 13,371 11,238 10,412 17,079 14,669 16,704	12,121 11,272 15,022 14,926 14,279 11,868 11,278 17,523 15,219 17,206	15,733	71 92 32 17 37 82 89 10 26 8	Nelson	83 243 756 105 40 145 369 923 113 619	92 251 799 115 44 157 385 981 119 666	474 99 268 835 124 49 168 420 1,035 132 720	7.4 7.0 4.5 8.1 10.6 7.3 9.0 5.4 10.9 8.1	12,300 14,019 12,375 11,539 22,516 11,583 7,870 11,977 12,165 12,741 9,677 12,473	13,661 11,840 22,713 12,385 8,665 12,608 12,499 13,426 10,183 13,212	15,715 15,181 14,530 12,678 22,891 13,296 9,466 13,222 13,515 14,105 11,060 13,978	48 81 1 70 120 73 66 54 106 58
Bräcken Breathitt Breckinridge Bullit Butler Caldwell Calloway Campbell Carlisle Carroll	96 162 184 609 114 162 427 1,310 77	101 168 195 642 121 171 461 1,370 78	105 189 213 697 132 182 505 1,455 87	3.8 11.9 9.2 8.5 9.2 6.1 9.4 6.2 12.2	12,289 10,333 11,298 12,715 10,162 12,254 13,867 15,592 14,735	12,782 11,210 11,945 13,013 10,690 13,143 14,948 16,236 14,884 14,225	13,043 12,453 12,932 13,631 11,586 13,989 16,125 17,106 16,685	77 84 79 63 98 57 27 15 21	Robertson Rockcastle Rowan Russell Scott Shelby Simpson Spencer Taylor Todd	23 148 201 173 385 423 200 91 270 131	25 161 221 182 418 450 211 99 286 135	26 171 235 200 460 491 233 108 318 162	6.9 5.9 6.1 10.1 10.1 9.1 10.4 8.7 11.0 19.5	10,829 9,947 9,814 11,726 16,094 16,951 13,228 13,229 12,727 11,962	11,490 10,751 10,704 12,149 17,041 17,709 13,721 14,282 13,397 12,382	12,203 11,359 11,208 13,143 18,177 18,996 15,021 15,309 14,579 14,645	90 100 102 76 11 6 44 39 47
Carter Casey Christian Clark Clay Cliton Cittenden Cumberland Daviess	256 141 742 432 198 86 106 66 1,318	277 156 799 459 218 95 110 72 1,398	303 171 911 488 243 103 118 77 1,486	9.3 9.7 14.1 6.3 11.6 7.7 7.4 6.9 6.4	10,481 9,969 10,783 14,613 9,136 9,416 11,507 9,804 15,103	11,196 10,965 12,072 15,438 9,937 10,371 11,913 10,669 15,908	13,371 16,209 10,940 11,179 12,774 11,455 16,736	93 96 68 25 109 104 80 99 20	Trigg Trimble Union Warren Washington Weyne Webster Whitley Wolfe	134 74 249 1,165 137 158 212 368 57	141 80 257 1,239 147 174 213 393 66	155 85 275 1,357 159 192 234 423 76	9.8 6.9 7.3 9.5 8.2 10.3 9.6 7.5 15.3	12,899 12,033 15,065 15,156 13,074 9,023 15,201 11,025 8,854	13,492 12,906 15,700 15,943 14,015 9,834 15,475 11,750 9,721	14,275 13,608 16,877 17,196 15,137 10,671 17,152 12,421 10,946	51 64 18 13 42 112 14 86 108
Edmonson Elliott Estill Fayette Fleming Floyd Franklin Fulton Gallatin	53 147 4,381 141 503 732 111 63	106 57 156 4,590 150 533 778 115 71	115 65 168 4,887 166 572 827 129 79	8.2 13.2 8.2 6.5 10.5 7.4 6.3 12.7 11.7	9,356 8,178 10,018 19,361 11,472 11,554 16,704 13,479 11,667	10,202 8,785 10,442 20,064 12,074 12,145 17,719 14,108 12,849	11,182 9,918 11,082 21,015 13,187 12,996 18,539 16,072 13,931	103 118 105 4 75 78 9 28 59	Woodford Louisiana Metropolitan portion Nonmetropolitan portion Acadia Allen Ascension	60,228 48,264 11,964 628 196 848	424 64,083 51,215 12,868 669 216 923	442 68,167 54,419 13,748 710 232 1,016	6.4 6.3 6.8 6.1 7.3 10.0	20,538 14,279 15,279 11,295 11,265 9,238 14,509	20,757 15,100 16,098 12,112 11,911 9,884 15,523	21,219 15,931 16,953 12,862 12,602 10,236 16,664	3
Garrard Graves Grayson Green Green Hancock Hardin Harrison Hart	155 201 455 230 117 507 128 1,160 407 223 163	161 220 485 248 127 526 133 1,206 420 244 178	173 238 555 267 137 574 140 1,308 440 260 193	7.7 7.9 14.3 7.5 8.1 9.0 5.8 8.4 4.9 6.9 8.1	13,325 12,600 13,518 10,919 11,272 13,795 16,303 12,970 11,146 13,724 10,948	13,560 13,503 14,423 11,534 12,256 14,330 16,861 13,993 11,476 14,852 11,716	14,258 14,076 16,371 12,284 13,237 15,454 17,773 15,482 12,104 15,736	552 56 23 88 72 36 12 35 95 30 83	Assumption Avoyelles Beauregard Bienville Bossier Caddo Calcasieu Caldwell Cameron Catahoula	260 384 390 179 1,183 3,903 2,409 110 111	275 402 414 195 1,266 4,134 2,626 112 113 122	287 442 440 209 1,353 4,433 2,768 124 118 141	4.5 10.1 6.2 7.6 6.8 7.2 5.4 10.5 4.6 15.5	11,438 9,812 12,962 11,211 13,781 15,769 14,322 11,191 12,056 10,344	12,133 10,309 13,461 12,265 14,718 16,824 15,438 11,542 12,195 11,015	12,708 11,311 14,146 13,294 15,644 17,996 16,137 12,697 12,922 12,727	43 59 22 34 11 5 10 44 37 42
Henderson	666 174 72 733 103 12,771	683 189 72 747 114 13,415	746 202 83 778 124 14,416	9.1 6.9 15.7 4.0 8.8 7.5	15,446 13,541 12,945 15,901 8,550 19,196	15,796 14,325 12,954 16,158 9,425 20,099	17,021 14,988 15,134 16,798 10,110 21,490	16 45 43 19 116	Claiborne Concordia De Soto East Baton Rouge East Carrol East Feliciana Evangeline	188 230 292 6,440 88 225 342	199 243 306 6,825 117 238 373	212 261 339 7,362 109 255 403	6.7 7.4 10.9 7.9 -6.6 7.1 8.0	10,831 11,048 11,547 16,913 9,106 11,743 10,272		12,291 12,478 13,528 18,798 11,432 12,864 11,939	
Jessamine	437 270 2,393 178 278 170 526 146 68 133	458 287 2,537 186 302 178 566 155 74 142	492 311 2,726 202 330 193 615 167 80 161	7.5 8.6 7.5 8.6 9.1 8.6 8.6 7.8 8.4	14,234 11,600 16,828 9,902 9,366 14,458 12,071 10,446 9,162 9,754	14,555 12,267 17,726 10,273 10,045 15,136 12,779 10,872 9,429 10,442	13,188 18,992 11,059 10,854 16,229 13,589 11,347 10,135	40 74 7 107 110 24 65 101 115 97	Franklin Grant Iberia Iberia Jackson Jefferson Jefferson Davis Lafayette Lafourche La Salle	222 187 893 387 186 7,628 332 2,675 1,053 161	252 193 963 410 200 7,986 358 2,846 1,121 168	269 206 1,015 449 211 8,395 373 2,996 1,166 183	6.7 6.4 5.3 9.5 5.1 4.3 5.3 4.1 8.3	9,912 10,695 13,075 12,472 11,862 17,011 10,826 16,193 12,275 11,787		12,125 11,690 14,574 14,435 13,606 18,340 12,035 17,489 13,447 13,309	27 3 55 7 30
Letcher Lewis Lincoln Livingston Logan Lyon	303 120 211 130 299 74	319 130 229 134 315 79	327 142 254 144 358 87	2.6 8.9 10.9 7.3 13.6 9.0	11,213 9,202 10,453 14,338 12,238 11,103	11,786 10,000 11,280 14,712 12,798 11,661	12,106 10,843 12,407 15,674 14,337 12,145	94 111 87 33 50 91	Lincoln Livingston Madison Morehouse Natchitoches Orleans Ouachita	518 874 114 369 398 8,188 1,941	580 946 139 415 422 8,701 2,055	625 1,042 151 444 459 9,284 2,200	7.8 10.2 8.6 7.0 8.7 6.7 7.0	12,401 12,343 9,212 11,568 10,910 16,541 13,655	13,845 13,091 11,419 13,091 11,497 17,726 14,368	14,710 14,094 12,427 13,929 12,513 18,962 15,181	16 23 50 26 47 1
McCracken McCreary McLean Madison Magoffin Marion Marshall Martin	1,070 122 123 741 114 202 396 153	1,139 140 121 792 128 215 423 163	1,221 153 134 855 138 234 464 171	7.2 10.0 11.3 8.0 8.2 8.8 9.8 5.3	16,979 7,820 12,758 12,843 8,717 12,271 14,527 12,214	18,019 8,842 12,569 13,508 9,658 12,923 15,318 12,797	9,655 13,913 14,338 10,326 14,089	5 119 60 49 114 55 22 69	Plaquemines	364 274 1,838 106 233 253	2,055 385 279 1,900 107 273 274	395 318 1,983 122 274 293 994	2.6 14.1 4.4 13.8 .5 6.9	14,257 12,195 13,969 11,352 11,320 11,245	15,037 12,370 14,420 11,699 13,386 12,184	15,251 14,036 15,186 13,200 13,472 12,756	12 25 13 35 29 40
Mason Meade Menifee Mercer Metcalfe	234 288 46 269 96	241 302 49 284 104	263 326 53 310 112	9.2 7.9 9.2 9.1	14,021 11,862 8,933 14,037 10,772	14,336 12,661 9,578 14,757 11,556	15,318 13,465 10,352 15,893	38 67 113 29 85	St. Bernard St. Charles St. Helena St. James St. Janes St. Janh the Baptist St. Landry	881 682 88 276 548 947	939 733 94 281 568 999	994 777 106 294 599 1,082	5.9 6.0 12.9 4.4 5.3 8.3	13,209 16,046 8,936 13,250 13,677 11,817	14,070 16,853 9,482 13,556 13,994 12,400	14,833 17,509 10,718 14,153 14,541 13,346	15 6 62 21 18 31

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

-	Total personal income Millions of dollars Perc				IIICOII	ne an	u Per	Саріта	Personal Income by Cou								
	7	Total persor	nal income	I _	Per o	apita per	rsonal in	Τ		1	Total persor	nal income		Per c	apita pe	rsonal in	_
Area name				Percent change 2	4000	Dollars	1000	Rank in State	Area name		ions of doll		Percent change 2	4000	Dollars	1,000	Rank in State
St. Martin	1990 454	1991 484	1992 495	1991–92	1990	1991	1992 11,111	1992	Alnena	1990 443	1991 465	1992 491	1991–92	1990 14,450	1991	1992 15,852	1992
St. Mary St. Tammany Tangipahoa Tensas Terrebonne Union Vermillon Vermon	698 2,472 968 83 1,223 254 592 659	735 2,662 1,053 92 1,300 263 602 738	706 2,825 1,160 85 1,331 293 633 782	-4.0 6.1 10.2 -7.5 2.4 11.3 5.2 5.9 9.9 4.8	12,018 17,024 11,293 11,838 12,596 12,291 11,843 10,610	12,631 17,685 12,161 13,314 13,191 12,765 12,019 11,548	12,161 18,089 13,188 12,511 13,339 14,064 12,570 12,213	53 4 36 48 32 4 24 46 52	Alpena Antrim Arenac Baraga Barry Bay Benzie Berrien Branch	260 200 96 769 1,835 181 2,579 576	269 210 103 818 1,916 194 2,670 604	286 218 106 859 2,011 205 2,836 621	6.3 3.7 3.7 5.1 5.0 5.9	14,430 14,241 13,367 12,060 15,351 16,417 14,827 15,985 13,847	13,074 14,432 13,635 12,820 16,181 17,140 15,622 16,553 14,472	15,632 15,118 13,921 13,576 16,785 17,936 16,266 17,566 14,833	50 67 70 29 18
Washington Webster West Baton Rouge West Carroll West Feliciana Winn Maine	476 534 276 113 107 185 20,981	499 572 291 129 115 190 21,378	549 599 322 135 129 206	9.9 4.8 10.7 4.1 12.5 8.6 5.0	11,030 12,732 14,228 9,335 8,261 11,380 17,041	11,698 13,789 14,849 10,675 8,894 11,898 17,294	12,773 14,459 16,267 11,228 9,863 12,734 18,163	9 60 64 4 41	Calhoun Cass Charlevoix Cheboygan Chippewa Clare Clinton Crawford	2,205 711 332 288 394 299 919 144	2,329 730 353 301 416 319 963 153	2,475 783 374 315 445 341 1,013	7.1 5.9 4.5 6.9 6.9	16,176 14,373 15,369 13,435 11,347 11,933 15,808 11,681	16,939 14,816 16,117 14,075 11,800 12,349 16,323 12,084	17,888 15,934 16,819 14,454 12,490 12,924 17,054 12,447	19 38 28 58 77 76 25 78
Metropolitan portion Nonmetropolitan portion	9,149 11,832	9,293 12,084	9,753 12,703	5.0 5.1	18,445 16,093	18,716 16,340	19,719		Delta Dickinson	540 450	568 435	602 462		14,270 16,728	14,905 16,156	15,751 17,118	41 24
Androscoggin Aroostook Cumberland Franklin Hancock Kennebec Knox Lincoln Oxford	1,729 1,194 5,115 416 835 2,042 635 574 752	1,757 1,223 5,166 423 867 2,088 653 577 764	1,836 1,277 5,420 446 910 2,188 685 609 801	4.5 4.4 4.9 5.5 4.9 4.8 5.6 4.9	16,412 13,724 20,993 14,291 17,714 17,560 17,459 18,866 14,267	16,784 14,005 21,116 14,460 18,208 17,832 17,829 18,920 14,535	17,677 14,661 22,178 15,167 18,968 18,680 18,621 19,913 15,228	13 1 1 11 3 5 7 7 2 10	Eaton Emmet Genesee Gladwin Gogebic Grand Traverse Gratiot Hillsdale	1,588 465 7,245 272 233 1,096 550 606	1,674 492 7,698 286 254 1,180 575 617	1,764 516 7,893 305 263 1,271 610 670	5.3 4.9 2.5 6.8 3.5 7.7 6.0	17,044 18,491 16,809 12,336 12,929 16,983 14,089 13,929	17,723 19,143 17,798 12,658 14,178 17,942 14,596 14,023	18,515 19,799 18,208 13,271 14,715 18,884 15,456	14 8 15 74 56 11 46 52
Penobscot Piscataquis Sagadahoc Somerset Waldo Washington York Maryland	2,305 246 603 687 456 462 2,929 105,985	2,370 252 615 715 465 488 2,953	2,498 265 640 766 495 511 3,109	5.4 5.1 4.0 7.1 6.4 4.8 5.3	15,678 13,125 17,877 13,741 13,753 13,051 17,743 22,088	16,100 13,489 18,012 14,157 13,795 13,682 17,811 22,494	17,063 14,138 18,848 15,090 14,507 14,244 18,658	16 4 12 14 15 6	Houghton Huron Ingham Ionia Iosco Iron Isabella Jackson Kalamazoo Kalkaska	545 4,815 737 409 176 741 2,340 4,191 162	570 5,019 771 432 178 789 2,403 4,396 179	596 5,255 808 429 185 822 2,523 4,628 189	4.6 4.7 4.9 7 3.9 4.2 5.0 5.3	15,599 17,062 12,901 13,521 13,377 13,522 15,586 18,737 12,001	13,472 16,252 17,789 13,366 13,990 13,684 14,314 15,893 19,608 12,845	17,032 18,646 13,940 14,191 14,105 14,622 16,628 20,511	26 13 66 61 62 57 31 6
Metropolitan portion Nonmetropolitan portion	100,104 5,881	103,275 6,125	108,011 6,403	4.6 4.6	22,473 17,102	22,880 17,516	23,669 18,095		Kent Keweenaw	9,185 25	9,692 26	10,249 27		18,285 14,577	19,074 15,615	20,018 16,076	7 37
Allegany Anne Arundel Baltimore Calvert Caroline Carroll Cecil Charles Dorchester Frederick	1,122 9,331 16,391 1,066 391 2,549 1,251 1,954 478 2,949	1,155 9,536 16,841 1,093 399 2,640 1,291 2,025 488 3,010	1,200 9,929 17,483 1,160 417 2,769 1,343 2,137 512 3,214	3.9 4.1 3.8 6.1 4.4 4.9 4.0 5.5 4.9 6.8	14,986 21,759 23,616 20,521 14,425 20,528 17,414 19,190 15,811 19,489	15,437 21,936 24,034 20,031 14,586 20,720 17,593 19,438 16,189 19,385	16,102 22,492 24,794 20,289 14,942 21,228 17,910 20,147 16,945 20,122	5 4 10 22 3 9 16 12 12	Lake Lapeer Leelanau Lenawee Livingston Luce Mackinac Macomb	93 1,247 291 1,458 2,326 90 158 14,530	103 1,296 307 1,530 2,397 99 169 15,101	110 1,333 331 1,622 2,550 91 179 15,963	7.1 2.8 7.7 6.0 6.4 -7.4 6.1 5.7	10,831 16,589 17,601 15,883 19,950 15,561 14,818 20,223	11,653 16,859 18,327 16,373 20,047 17,185 15,736 20,868	12,201 16,971 19,129 17,231 20,786 16,297 16,654	81 27 10 23 5 34 30 4
Garrett Harford Howard Kent Montgomery Prince Georges Queen Annes St. Marys Somerset Talbot	381 3,576 5,074 350 24,150 14,881 722 1,246 290 777	392 3,687 5,227 356 25,076 15,286 732 1,324 304 805	412 3,824 5,486 371 26,254 16,043 763 1,398 313 836	5.1 3.7 4.9 4.3 4.7 5.0 4.2 5.6 3.0 3.9	13,514 19,464 26,799 19,611 31,800 20,326 21,167 16,301 12,377 25,360	13,640 19,461 26,832 19,668 32,583 20,532 21,095 16,874 12,976	14,183 19,562 27,439 20,216 33,614 21,373 21,690 17,560 13,279	23 15 2 6 11 1 7 6 18 18 24	Marquette Mason Mecosta Menominee Midland Missaukee Monroe Montcalm Montmorency	992 363 420 359 1,589 152 2,231 662 101	1,074 382 447 376 1,628 160 2,296 684 107	1,127 409 477 402 1,748 172 2,441 738 115	4.9 7.1 6.8 6.8 7.4 7.4 6.3 7.8 7.5	13,979 14,174 11,217 14,421 20,918 12,440 16,658 12,426 11,276	15,104 14,731 11,649 15,255 21,197 12,846 16,999 12,519 11,780	15,779 15,487 12,371 16,339 22,421 13,496 17,957 13,303 12,340	40 45 79 32 3 71 17 73 80
Washington Wicomico Worcester Baltimore City Massachusetts	1,954 1,235 732 13,133	2,014 1,298 760 13,662	2,114 1,350 794 14,291	5.0 4.0 4.5 4.6	16,037 16,537 20,771 17,870 22,248	16,281 17,089 20,870 18,665 22,719	16,846 17,610 21,290 19,682	20 17 8 14	Muskegon Newaygo Oakland Oceana Ogemaw Ontonagon Osceola	2,299 502 29,518 311 209 122 242	2,412 536 30,086 329 226 128 257	2,542 570 32,072 349 237 132 285	6.5 6.6 5.9 5.0 3.1 10.9	14,427 13,072 27,168 13,799 11,108 13,763 11,984	13,627 27,312 14,432 11,717 14,493 12,617	13,992 28,671 15,185 12,086 15,090 13,821	51 68
Metropolitan portion Nonmetropolitan portion	132,212 1,678	134,485 1,726	140,099 1,785		22,295 19,083	22,766 19,600	23,728	8	Oscoda Otsego Ottawa	80 270 3,424	88 280 3,564	94 299 3,853	6.8	10,227 14,939 18,115	11,024 15,040 18,416	11,406 15,641 19,531	83 43 9
Barnstable Berkshire Bristol Dukes Essex Franklin Hampden Hampshire Middlesex Nantucket	4,155 2,693 8,843 263 14,568 1,234 8,563 2,573 36,171 181	4,282 2,835 9,005 271 14,897 1,261 8,647 2,576 36,753 194	4,459 2,904 9,360 281 15,566 1,299 8,859 2,646 38,361 205	4.1 2.4 3.9 3.7 4.5 3.0 2.4 2.7 4.4 5.7	22,203 19,335 17,446 22,559 21,725 17,561 18,758 17,530 25,870 30,092	22,834 20,567 17,774 23,126 22,262 17,962 19,031 17,496 26,377 31,595	27,510	8 13 5 7 12 11 14 14 13 14 13 14 13 14 13 14 13 14 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Presque Isle Roscommon Saginaw St. Clair St. Joseph Sanilac Schoolcraft Shiawassee Tuscola Van Buren	183 264 3,399 2,477 869 569 110 1,057 792 978	190 281 3,531 2,563 902 583 119 1,096 832 1,032	195 297 3,673 2,701 969 615 121 1,141 867 1,097	5.8 4.0 5.4 7.4	13,319 13,238 16,032 16,927 14,748 14,226 13,268 15,125 14,257 13,909	13,718 13,759 16,620 17,244 15,261 14,468 14,384 15,580 14,923 14,488	14,052 14,238 17,284 17,994 16,315 15,069 14,328 16,106 15,452 15,164	63 60 21 16 33 53 59 36 47 49
Norfolk Plymouth Suffolk Worcester	16,513 8,590 15,980 13,563	16,775 8,636 16,294 13,785	17,555 9,037 17,014 14,339	4.6 4.6 4.4 4.0	26,785 19,698 24,146 19,091	27,200 19,738 25,102 19,474	28,270 20,554 26,618 20,248	9 4	Washtenaw Wayne Wexford Minnesota	6,281 37,445 358 82,388	6,386 37,452 374 85,314	6,747 39,380 405 91,611		22,138 17,756 13,536 18,784	22,309 17,811 14,012 19,276	23,427 18,787 14,955 20,503	
Michigan Metropolitan portion Nonmetropolitan portion	169,808 147,504 22,304	175,001 151,533 23,468	184,765 159,974 24,791	5.6 5.6 5.6	18,239 19,134 13,929	18,667 19,536 14,502	19,586 20,513 15,164		Metropolitan portion Nonmetropolitan portion	62,023 20,365	64,467 20,847	69,284 22,326	7.5	20,531 14,918	21,080	22,377	
Alcona Alger Allegan	128 108 1,401	137 116 1,498	143 123 1,605	4.6 6.4	12,642 11,999 15,402	13,367 12,459	13,952 13,147 17,244	65 75	Aitkin	157 4,139 371	165 4,303 379	173 4,639 400	7.8	12,614 16,872 13,297	13,199 17,046 13,459	17,913	

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990–92—Continued

	Total personal income Per capita personal income ³						Torona moone by ood	Total personal income Per capita personal income ³							3		
				Percent	Per c		sonal inc	come ³			<u> </u>		Percent	Per c		sonal inc	Rank in
Area name	1990	lions of dollar	ars 1992	change ²	1990	Dollars 1991	1992	State 1992	Area name	1990	ions of dolla	1992	change ²	1990	Dollars 1991	1992	State 1992
Beltrami Benton	437 435	467 445	496 481	6.3 8.2	12,674 14,315	13,251 14,338	13,824 15,269	79 68	Metropolitan portion Nonmetropolitan portion	11,328 21,070	11,995 22,269	12,865 23,962	7.3 7.6	14,573 11,716	15,223 12,343	16,023 13,222	
Big Stone Blue Earth Brown Carlton Carver	92 828 439 396 979	96 853 454 419 1,005	100 928 485 453 1,108	4.5 8.8 6.8 8.3 10.3	14,761 15,298 16,261 13,516 20,238	15,555 15,736 16,904 14,213 20,033	16,789 17,209 18,026 15,299 21,322	43 29 20 65 7	Adams Alcom Amite Attala Benton	449 411 122 199 74	458 434 129 213 78	497 476 138 225 85	8.5 9.7 6.8 5.2 8.8	12,726 12,939 9,218 10,776	12,973 13,494 9,660 11,527 9,820	14,306 14,622 10,290 12,215 10,617	15 11 79 52 74
Cass Chippewa Chisago Clay Clearwater Cook	279 216 469 696 92 64	295 213 485 709 98 69	321 221 518 780 104 74	9.0 3.7 6.8 10.0 5.7 8.3	12,737 16,380 15,267 13,791 11,109 16,611	13,286 16,258 15,441 14,008 11,979 17,325	14,058 17,073 16,012 15,277 12,726 18,242	78 33 54 67 87 17	Beliuri Bolivar Calhoun Carroll Chickasaw Choctaw	437 166 93 210 90	497 174 98 223 92	535 192 106 241 98	7.6 9.9 8.7 8.1 7.4	9,230 10,444 11,118 10,052 11,600 9,906	11,960 11,789 10,488 12,320 10,096	12,795 12,911 11,420 13,367 10,879	43 41 68 30 72
Cottonwood Crow Wing Dakota Dodge	196 650 5,833 251 404	192 688 6,098 254 419	204 739 6,645 271 449	6.3 7.4 9.0 6.9	15,466 14,625 20,995 15,848 14,087	15,507 15,170 21,275 15,885 14,443	16,496 15,913 22,445 16,749 15,397	63	Claiborne Clarke Clay Coahoma Copiah Covington	103 201 256 361 280 173	105 213 269 401 291 183	115 223 286 425 318 201	9.5 5.0 6.2 6.0 9.4 10.0	9,027 11,634 12,097 11,432 10,133 10,447	9,166 12,306 12,614 12,716 10,520 11,097	9,946 12,901 13,364 13,426 11,427 12,190	80 42 31 29 67 54
Faribault Fillmore Freeborn Goodhue Grant Hennepin	271 306 508 675 97 25,577	262 312 508 707 100 26,348	285 315 542 770 114 28,322	8.6 .8 6.8 8.8 14.1 7.5	16,058 14,720 15,381 16,553 15,504 24,738	15,813 15,203 15,549 17,249 16,187 25,377	17,308 15,336 16,723 18,729 18,765 27,197	28 64 45 11 10	De Soto Forrest Franklin George Greene	1,087 883 82 175	1,139 920 86 185	1,227 977 93 202	7.7 6.1 7.8 9.1	15,846 12,916 9,816 10,448 9,260	15,943 13,372 10,491 10,885 9,659	16,572 13,981 11,382 11,748	3 17 69 64 75
Houston Hubbard Isanti Itasca Jackson	292 187 385 550 187	292 198 400 581 177	310 211 430 609 184	6.0 6.4 7.5 4.9 3.6	15,759 12,537 14,820 13,424 16,022	15,779 13,028 15,148 14,119 15,247	16,479 13,648	47 81 53 72 59	Grenada Hancock Harrison Hinds Holmes Humphreys	264 397 2,192 3,994 191 148	285 423 2,299 4,200 210 156	303 451 2,474 4,459 209 156	6.6 6.7 7.6 6.2 4	12,243 12,456 13,258 15,700 8,850 12,239	13,059 13,025 13,821 16,492 9,776 13,080	13,835 13,549 14,584 17,515 9,805 13,061	18 25 12 1 81 36
Kanabec Kandiyohi Kittson Koochiching Lac Qui Parle Lake	164 605 111 230 139 137	172 632 92 228 139 147	185 663 123 240 146 156	7.7 4.9 34.2 5.2 4.8 6.1	12,789 15,597 19,286 13,981 15,656 13,141	13,375 16,175 16,164 14,070 15,958 14,096	14,264 16,824 21,991 14,858 16,886 14,781	75 41 4 70 38 71	Issaquena Itawamba Jackson Jasper	22 236 1,566	27 248 1,698	26 274 1,851 206	-5.9 10.6 9.0 8.9	11,676 11,765 13,597 10,245	14,430 12,363 14,427 11,139	13,731 13,609 15,298 11,980	21 23 8
Lake of the Woods Le Sueur Lincoln Lyon McLeod	59 364 98 396 517	62 370 101 422 537	66 400 101 455 586	6.1 8.3 -8.2 7.7 9.2	14,484 15,678 14,292 15,999 16,088	14,683 15,815 15,023 17,178 16,664	15,292	66	Jefferson Jefferson Davis Jones Kemper Lafayette Lamar	68 132 782 104 370 377	70 136 835 111 394 397	80 145 905 120 423 425	14.5 6.3 8.4 7.8 7.6 7.1	7,949 9,440 12,621 10,048 11,599 12,362	8,298 9,811 13,487 10,779 12,269 12,864	9,435 10,429 14,578 11,760 13,135 13,645	82 77 13 63 34 22
Mahnomen Marshall Martin Meeker Mille Lacs	61 164 390 310 255	57 139 374 317 263	65 184 409 330 282	12.8 32.0 9.3 3.9 7.1	12,197 14,998 16,996 14,852 13,658	11,441 12,884 16,430 15,151 13,833	12,852 17,188 18,121 15,879 14,635	86 31 18 58 73	Lauderdale Lawrence Leake Lee Leflore	1,087 133 201 1,007 469	1,146 140 219 1,061 503	1,219 153 241 1,164 540	9.8 9.6 9.7 7.3	14,400 10,678 10,850 15,286 12,567	15,126 11,234 11,889 15,783 13,431	15,980 12,387 13,027 17,015 14,411	6 49 37 2 14
Morrison Mower Murray Nicollet Nobles Norman OInsted Otter Tail	366 623 150 432 342 137 2,131 724	372 661 152 445 349 121 2,250 746	398 695 162 487 357 144 2,386 795	7.0 5.1 6.6 9.4 2.1 18.7 6.1 6.6	12,334 16,670 15,604 15,363 17,029 17,281 19,923 14,271	12,564 17,697 15,820 15,721 17,438 15,485 20,617 14,600	13,417 18,695 16,828 17,038 17,726 18,662 21,595 15,477	82 12 40 35 22 13 5	Lincoln Lowndes Madison Marion Marshall Monroe Montgomery Neshoba	355 836 798 271 325 427 129 283	374 844 855 281 336 441 137 305	398 891 919 302 365 475 149 332	6.5 5.6 7.5 7.6 8.5 7.6 8.1 8.9	11,713 14,034 14,704 10,598 10,682 11,659 10,371 11,391	12,297 14,053 15,325 11,081 10,802 12,010 11,201 12,186	12,925 14,757 15,780 11,886 11,634 12,941 12,150 13,080	40 9 7 59 66 39 55 35
Pennington Pine Pipestone Polk Pope	197 252 157 505	200 266 166 489	219 286 166 555	9.6 7.5 .2 13.5	14,824 11,800 15,006 15,545	14,977 12,374 15,962 15,138	16,475 13,083 16,004	48 85 55 32	Newton Noxubee Oktibbeha Panola Pearl River Perry	248 117 427 329 422 101	258 121 447 349 442 103	280 138 473 379 472 115	8.5 14.5 5.9 8.6 6.9 11.7	12,201 9,273 11,112 10,934 10,864 9,342	12,575 9,647 11,688 11,433 11,239 9,342	13,581 11,058 12,319 12,194 11,848 10,337	24 71 51 53 61 78
Ramsey Red Lake Redwood Renville Rice Rock	9,995 57 283 287 749 175	10,561 54 282 294 780 176	11,242 62 301 306 827 181	6.4 15.0 6.6 3.9 6.1 3.0	20,576 12,614 16,493 16,286 15,180 17,899		14,245 17,698	76 23 24 49 15	Pike Pontotoc Prentiiss Quitman Rankin	400 263 246 104	428 275 260 108	460 305 283 125 1,485	7.6 10.9 8.6 15.6	10,861 11,785 10,572	11,631 12,194 11,110 10,477 15,417	12,436 13,293 12,085 12,431 16,106	46 32 56 47
Roseau St. Louis Scott Sherburne	241 3,094 1,059 630	232 3,257 1,116 665	263 3,459 1,224 718	13.5 6.2 9.7 8.0	15,997 15,590 18,182 14,873	15,063 16,409 18,536 15,136	16,930 17,426 19,657 15,647	37 27 9 60	Scott Sharkey Simpson Smith Stone	285 77 273 173 126	310 83 292 184 136	357 82 327 200 146	15.1 -1.5 11.8 8.4 7.4	11,763 10,874 11,365 11,698 11,661	12,845 11,848 12,144 12,518 12,393	14,630 11,730 13,531 13,523 12,946	10 65 27 28 38
Sibley Stearns Steele Stevens Swift Todd	211 1,721 527 166 156 283	209 1,818 539 169 159 291	221 1,961 573 180 165 311	5.6 7.8 6.4 6.0 3.9 7.0	14,734 14,448 17,102 15,670 14,574 12,121	14,662 15,124 17,430 16,061 15,081 12,496	15,474 16,178	62 52 16 30 56 83	Sunflower	345 141 268 222	380 150 281 233	398 164 300 250	4.8 9.5 6.7 7.6	10,500 9,272 12,477 11,327	11,335 9,947 12,988 11,953	11,780 11,105 13,733 12,686	62 70 20 44
Traverse Wabasha Wadena Waseca	82 322 155 282	81 328 159 286	94 350 170 296	15.8 6.9 7.0 3.5	18,406 16,285 11,831 15,597	18,621 16,482 12,284 15,685	21,408 17,541 13,278 16,393	6 25 84 50	Tishomingo Tunica Union Walthall Warren Washington	192 82 272 130 698 788	202 84 287 138 732 855	221 96 314 150 784 881	9.4 14.2 9.6 8.7 7.1 2.9	10,820 10,069 12,301 9,029 14,594 11,617	11,320 10,399 12,868 9,575 15,323 12,686	12,337 11,885 14,007 10,445 16,346 13,203	50 60 16 76 4 33
Washington Watonwan Wilkin Winona Wright Yellow Medicine	2,994 183 109 740 1,089 179	3,087 175 110 761 1,138 182	3,288 197 129 805 1,218 188	6.5 12.9 18.0 5.8 7.0	20,357 15,606 14,548 15,480 15,771 15,342	20,253 15,020 14,772 15,918 16,084 15,756	20,758 17,065 17,513 16,850 16,822	8 34 26 39 42	Wayne Webster Wilkinson Winston	209 113 87 220	219 119 92 223	242 128 101 234	10.5 7.8 10.2 4.7	10,689 11,110 8,998 11,333	11,158 11,621 9,646 11,397	12,421 12,499 10,734 11,987	48 45 73 57
Mississippi	32,398	34,265	36,827	7.5	12,578				Yalobusha Yazoo	315	152 332	344	9.5 3.7	12,266 12,384	12,646 13,013	13,788 13,539	26

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

				SUIIdl	Per capita personal income ³				Personal income by Cou	1		i c u					
		Total person		Percent	Per c		sonal ind	come ³ Rank in			Total person		Percent	Per c		sonal inc	Rank in
Area name	Mill	ions of dolla	1992	change ²	1990	Dollars 1991	1992	State 1992	Area name	1990	ions of dolla	1992	change ²	1990	Dollars 1991	1992	State 1992
Missouri	89,245 67,681 21,564	93,442 70,812 22,631	98,470 74,411 24,058	5.4 5.1	17,407 19,350 13,236	18,121 20,109 13,841	18,970 20,999 14,605		Putnam	61 125 338 297	64 131 348 305	67 143 362 329	5.2 8.9 4.1 7.8	12,056 14,731 13,899 13,486	12,746 15,445 14,705 13,927	13,483 16,737 15,197 15,105	83 16 47
Adair Andrew Atchison Audrain Barry Barton Bates Benton Bollinger Boone	306 213 111 352 360 152 201 160 115 1,834	327 219 115 364 384 157 201 170 121 1,969	350 228 124 383 401 176 226 179 129 2,105	12.3 5.5 6.6	12,456 14,514 14,938 14,912 13,015 13,438 13,394 11,447 10,821 16,269	13,400 14,827 15,672 15,469 13,732 13,754 13,406 11,981 11,375 17,165	16,394 13,989 15,313 15,032 12,400 12,057 18,004 17,116	68 43 11 21 71 45 54 99 103 9	Ray Reynolds Ripley St. Charles St. Clair Ste. Genevieve St. Francois St. Louis Saline Schuyler Scotland Scott	297 73 122 3,909 103 224 597 25,112 347 51 64 551	133 4,034 108 228 634 26,101 369 53 67 572	77 141 4,268 116 240 663 27,230 373 373 56 75 608	7.0 -2.9 5.8 7.4 5.2 4.5 4.3 1.1 4.5 11.7 6.5	9,892 18,212 12,142 13,915 12,171 25,246 14,800 12,037 13,353 13,964	10,656 18,340 12,810 14,207 12,782 26,157 15,950 12,710 14,189 14,557	11,740 11,148 18,869 13,571 14,877 13,217 27,211 16,351 13,360 15,921 15,394	106 113 6 81 60 91 1 22 87 29
Butler Caldwell Callaway Camden Cape Girardeau Carroll Carter Cass Cedar Chariton	506 102 480 414 982 152 61 1,029 147	549 105 503 432 1,035 153 66 1,055 151	593 115 528 463 1,107 171 70 1,135 158	9.3 4.9 7.0 7.0 11.4 5.3 7.6 4.6	13,020 12,219 14,607 15,001 15,900 14,160 11,014 16,026 12,157	13,972 12,610 15,086 15,341 16,599 14,495 11,663 15,988 12,563	13,731 15,658 15,981 17,482 16,149 12,207 16,818 13,148	25	Shannon Shelby Stoddard Stone Sullivan Taney Texas Vernon Warren Washington	72 103 391 288 74 386 236 265 295 218	78 105 407 304 80 412 243 282 306 230	83 108 436 340 82 457 255 280 325 239	6.0 3.4 7.0 11.8 2.2 11.1 4.8 6 6.1 3.7	9,426 14,827 13,530 15,034 11,740 15,011 10,971 13,919 14,991 10,636	10,273 15,304 14,138 15,368 12,860 15,584 11,168 14,743 15,179 11,158	10,653 15,913 15,055 16,308 13,218 16,574 11,723 14,953 15,716 11,480	53 23 90 18 107 57 34
Christian Clark Clary Clinton Cole Cooper Crawford Dade Dallas	459 83 2,853 250 1,081 203 245 94 147	497 87 2,936 256 1,129 218 254 97 152	539 98 3,132 271 1,198 233 275 107 162	8.6 13.0 6.7 5.6 6.1 6.9 8.0 9.8 6.6	13,893 11,105 18,502 14,982 16,959 13,687 12,728 12,650 11,589	14,320 11,573 18,716 15,231 17,440 14,702 12,947 13,080 11,668	13,043 19,691 15,944 18,314 15,573 13,844 14,272	58 94 5 28 7 39 76 69 100	Wayne Webster Worth Wright St. Louis City Montana Metropolitan portion Nonmetropolitan portion	121 283 30 183 6,930 11,790 3,149 8,641	131 292 32 182 7,362 12,623 3,348 9,275	135 315 33 195 7,615 13,344 3,568 9,776	3.3 7.9 4.4 7.2 3.4 5.7 6.6 5.4	10,478 11,916 12,482 10,873 17,524 14,743 16,466 14,201	11,027 12,169 12,961 10,770 18,834 15,632 17,293 15,108	11,138 12,913 13,949 11,462 19,844 16,227 18,082 15,641	73 109 4
Daviess De Kalb Dent Douglas Dunklin Franklin Gasconade Gentry Greene Grundy	94 102 169 117 415 1,273 204 88 3,444 142	97 106 179 122 461 1,321 211 95 3,680 147	104 113 189 132 497 1,386 222 98 3,929 156	7.7 6.9 5.7 8.1 8.0 4.9 5.3 2.9 6.8 5.9	11,944 10,273 12,356 9,841 12,521 15,705 14,550 12,917 16,513 13,555	12,236 10,635 13,025 10,288 14,029 16,038 14,988 14,084 17,418 14,061	13,841 11,152 15,092	85 111 77 112 51 17 36 67 8 55	Beaverhead Big Horn Blaine Carbon Carter Cascade Chouteau Custer Daniels	119 123 79 43 121 19 1,241 95 174 35	126 123 79 47 127 21 1,305 110 184	128 128 85 52 132 20 1,383 97 196 43	1.0 4.1 7.0 10.3 4.1 -5.0 6.0 -11.9 6.6 7.7	14,099 10,904 11,848 13,062 15,025 12,608 15,974 17,417 14,881 15,637	14,971 10,732 11,733 14,126 15,912 14,510 16,651 20,331 15,830 18,850	14,847 10,949 12,524 14,855 16,029 13,328 17,452 17,796 16,683 20,393	36 56 53 35 23 48 8 6
Harrison Henry Hickory Holt Howard Howell Iron Jackson Jasper Jefferson	113 269 78 85 130 376 121 11,685 1,322 2,465	120 273 82 92 139 403 130 12,297 1,417 2,558	124 296 87 96 146 431 138 12,962 1,516 2,685	3.2 8.3 6.5 4.5 5.0 6.8 6.6 5.4 7.0 4.9	13,387 13,394 10,701 13,994 13,463 11,887 11,258 18,447 14,600 14,294	14,366 13,544 10,837 15,409 14,512 12,561 12,098 19,393 15,586 14,585	15,150 13,220 12,983 20,443 16,499 15,059		Dawson Deer Lodge Fallon Fergus Flathead Galfield Glacier Golden Valley Granite	128 125 42 181 892 742 23 136 133	140 129 47 188 956 810 24 155 15	140 138 48 192 1,033 873 22 160 15	4 7.0 1.8 2.4 8.0 7.8 -10.1 3.3 -1.2	13,646 12,232 13,643 14,947 14,989 14,627 14,679 11,228 14,374 13,010	15,140 12,766 15,062 15,264 15,721 15,620 16,009 12,834 16,963 14,356	15,443 13,759 15,754 15,514 16,440 16,202 15,065 13,095 16,783 14,462	30 44 26 29 18 22 33 50 14
Johnson Knox Laclede Lafayette Lawrence Lewis Lincoln Linn Livingston McDonald	528 57 352 481 376 125 421 192 220 201	553 58 361 500 398 130 442 202 227 218	592 63 385 529 421 142 468 209 244 230	7.6 5.6	12,369 12,644 12,935 15,468 12,416 12,240 14,501 13,884 15,129 11,832	12,785 13,039 13,195 16,066 13,078 12,732 14,804 14,695 15,777 12,735	14,233 13,932 17,023 13,745 13,952 15,444 15,287 16,857 13,209	72 41 46 14 92	Hill Jefferson Judith Basin Lake Lewis and Clark Liberty Lincoln McCone Madison Meagher	261 128 32 271 755 44 210 27 77 27	285 133 35 287 806 50 217 30 81 30	289 143 35 306 871 45 234 29 82 31	1.7 7.7 .1 6.8 8.1 -10.7 7.9 -2.6 1.8 2.0	14,757 16,023 13,931 12,902 15,880 19,343 12,029 12,126 12,861 15,056	16,065 16,346 15,546 13,306 16,679 22,139 12,356 13,831 13,201 16,664	16,257 17,316 15,679 13,897 17,534 19,851 13,231 13,960 13,506 17,137	21 10 27 42 7 2 49 41
Macon Madison Maries Marion Mercer Miller Mississippi Moniteau Monroe Montgomery	215 132 97 384 39 272 187 170 132 166	225 141 103 410 41 282 192 179 132 172	231 148 106 439 44 296 213 184 139	7.3 8.0 4.9 10.8 2.8 5.2 7.8	14,029 11,887 12,223 13,847 10,355 13,106 12,972 13,802 14,502 14,565	14,854 12,610 12,627 14,831 10,982 13,508 13,411 14,513 14,792 15,236	12,963 15,826 11,855 13,902 15,133 14,874 15,707 16,480		Mineral Missoula Musselshell Petroleum Phillips Pondera Powder River Powell Prairie Ravalli	37 1,188 50 6 75 96 26 84 20 326	38 1,264 55 9 74 108 31 92 23 348	40 1,385 56 8 71 99 30 94 21	5.1 9.6 .9 -13.8 -3.9 -8.4 -3.9 2.7 -9.4 8.3	11,111 15,053 12,227 11,206 14,463 15,038 12,735 12,619 14,366 13,007	11,514 15,703 13,378 17,619 14,396 17,328 15,100 13,696 17,698 13,373	11,672 16,801 13,608 15,305 13,989 15,985 14,506 13,883 16,402 13,744	13 46 32 40 24 37 43 19
Morgan	199 272 628 287 101 180 99 253 234 524	209 275 661 302 108 185 103 268 244 537	218 307 707 314 113 193 107 288 263 565	4.3 11.9 6.9 4.1 4.6 4.1 3.8 7.2 7.7 5.2	12,741 12,990 14,102 13,215 10,615 14,968 11,400 11,555 14,007 14,755	13,362 13,216 14,672 14,144 11,349 15,383 11,897 12,365 14,559 15,097	15,493 14,805 11,903 15,900 12,165 13,384	80 64 40 63 104 31 102 86 38 32	Richland Roosevelt Rosebud Sanders Sheridan Silver Bow Stillwater Sweet Grass Teton	147 118 150 100 67 522 95 45 94 81	156 126 175 104 75 543 98 48 106	157 137 173 110 81 579 104 49 97	1.0 9.1 -1.3 5.7 7.1 6.5 5.2 3.7 -8.6 -2.4	13,805 10,718 14,272 11,479 14,180 15,392 14,417 14,204 15,056 16,117	14,703 11,673 16,758 12,096 16,600 15,991 14,669 15,153 17,121 18,444	14,941 12,654 16,296 12,468 17,981 16,966 15,375 15,798 15,623 17,893	34 52 20 54 4 12 31 25 28
Phelps Pike Platte Polk Pulaski	485 212 1,191 272 487	511 220 1,232 285 523	537 233 1,314 303 565	6.4	13,723 13,264 20,448 12,411 11,653	14,371 13,770 20,626 12,739 12,478	21,321 13,451	62 65 2 84 97	Toole Treasure Valley Wheatland	14 118 33	14 133 38	15 137 39	1.3 2.9 4.1	15,579 14,446 14,457	16,479 16,323 16,592	17,893 16,536 16,724 17,328	17 15

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

	ı			SUNAL					Personal Income by Cou				ieu		*		
Area name		Total persor		Percent	Per c	Dollars	rsonal in	Rank in	Area name		Total persor		Percent	Per d	apita per Dollars	rsonal in	Rank in
Alea Hallie	1990	1991	1992	change ² 1991–92	1990	1991	1992	State 1992	Alea Hallie	1990	1991	1992	change ²	1990	1991	1992	State 1992
Wibaux Yellowstone Park (incl. Ylwstn. Natl. Park) Nebraska Metropolitan portion Nonmetropolitan portion	13 1,907 181 27,470 14,532 12,938	15 2,043 197 28,720 15,395 13,325	2,185 209 30,368 16,335 14,033	9 7.0 5.8 5.7 6.1 5.3	11,066 16,803 12,249 17,379 18,396 16,364	12,604 17,730 13,520 18,059 19,240 16,863	12,810 18,506 14,076 18,974 20,181 17,738		Sioux	22 98 124 15 81 86 298	19 99 121 16 82 85 309	21 103 128 16 88 87	9.4 4.2 5.8 3.6 6.4 2.6 8.1	14,062 15,681 18,789 17,750 11,623 16,741 17,907	12,300 15,721 18,361 19,083 11,833 16,870 18,487	13,366 16,612 19,632 19,959 12,650 17,467 19,703	70 20 16 92 54
Adams Antelope Arthur Banner Blaine Boone Box Butte Boyd Brown Buffalo	509 122 7 15 13 122 249 41 62 560	533 122 6 15 12 124 253 38 60 590	562 127 7 15 14 128 259 41 64	5.4 4.4 13.0 3.3 12.7 3.4 2.4 8.8 5.7 8.8	17,214 15,382 15,331 17,426 18,857 18,318 18,947 14,631 16,951 14,894	18,006 15,413 14,422 17,894 17,827 18,700 19,392 13,813 16,532 15,565	19,062 16,321 15,864 18,077 20,600 19,616 20,008 15,263 17,574	29 76 81 40 12 21 14 86 51	Wayne Webster Wheeler York Nevada Metropolitan portion Nonmetropolitan portion	77 24 253 24,682 21,026 3,656	133 76 26 264 26,582 22,666 3,917	335 142 80 28 284 28,931 24,744 4,187	6.6 5.1 8.1 7.9 8.8 9.2 6.9	13,550 17,992 25,450 17,551 20,248 20,429 19,267	13,913 18,094 27,706 18,321 20,639 20,773 19,896	14,918 19,162 30,050 19,601 21,648 21,826	8 87 2 28 1 22 3
Burt Butler Cass Cedar Chase Cherry Clay Colfax Colfax Cuning	119 139 344 138 80 98 175 131 142 183	122 144 365 139 83 89 186 131 149	125 156 389 148 85 100 188 135 158	2.8 8.2 6.5 6.8 2.3 11.9 1.1 3.2 5.5	15,107 16,174 16,075 13,680 18,114 15,578 18,440 18,497 15,482 18,156	15,580 16,836 16,900 13,789 19,013 14,226 19,759 18,517 16,232 19,361	16,052 18,105 17,623 14,738 19,968 15,795 19,722 18,855 16,831 19,517	79 39 48 88 15 82 18 32 66 23	Churchill Clark Douglas Elko Esmeralda Eureka Humboldt Lander Lincoln Lyon	14,813 701 621 27 33 240 116 69 339	16,046 763 670 34 33 262 121 72 366	17,563 804 724 39 34 275 130 72 394	9.5 5.4 8.0 12.6 2.1 5.0 7.4 .6 7.7	19,623 25,101 18,148 19,917 21,105 18,498 18,429 18,096 16,738	19,818 25,623 18,660 26,785 20,390 19,160 18,810 19,164 17,099	20,769 25,820 19,385 28,891 21,706 19,335 19,414 19,343 17,714	7 2 9 1 5 5 11 8 8 10 13
Custer Dakota Dawes Dawson Deuel Dixon Dodge Douglas Dundy Fillmore	217 234 116 343 41 95 541 8,347 54 155	226 241 120 377 41 101 566 8,841 55	237 265 128 395 42 105 597 9,404 57	5.2 9.9 6.6 4.7 2.9 4.2 5.5 6.4 3.1 4.7	17,683 13,931 12,984 17,169 18,137 15,487 15,679 19,987 20,922 21,814	18,428 14,238 13,644 18,255 18,487 16,316 16,433 20,933 21,734 21,504	17,322	26 85 90 37 24 62 59 5	Mineral Nye Pershing Storey Washoe White Pine Carson City New Hampshire Metropolitan portion Nonmetropolitan portion	107 289 72 47 5,925 157 850 22,491 14,267 8,224	109 307 72 50 6,313 156 909 23,231 14,664 8,568	119 326 74 53 6,856 163 982 24,457 15,463 8,994	8.6 6.3 2.5 5.8 8.6 4.0 8.1 5.3 5.5 5.0	16,662 16,008 16,637 18,479 23,113 16,696 20,910 20,231 20,742 19,401	16,346 16,520 19,059 24,035 16,352 21,784 20,973 21,448	19,138 16,698 16,707 20,777 25,529 16,980 22,919 21,933 22,383 21,200	17 7 16 6 3 15 4
Franklin Frontier Furnas Gage Garden Garfield Gosper Grant Greeley Hall	65 48 94 380 44 34 38 14 47 795	64 44 94 380 43 35 40 14 47 850	68 48 101 404 45 36 42 13 50 893	5.9 9.3 6.7 6.3 3.5 4.1 4.5 -4.7 7.4 5.0	16,521 15,515 16,960 16,663 17,839 15,812 19,773 18,745 15,624 16,210	16,572 14,228 16,882 16,790 18,382 15,972 19,976 18,033 15,596 17,206	19,292 17,228 20,684 16,831 17,073	49 84 42 44 27 60 11 67 61 41	Belknap Carroll Cheshire Coos Grafton Hillsborough Merrimack Rockingham Strafford Sullivan	960 756 1,287 582 1,489 7,213 2,470 5,274 1,779 681	978 785 1,339 619 1,577 7,419 2,573 5,406 1,838 696	1,008 823 1,413 642 1,662 7,809 2,712 5,706 1,949 734	3.0 4.9 5.6 3.7 5.4 5.2 5.4 5.6 6.0 5.5	19,474 21,279 18,328 16,674 19,856 21,420 20,521 21,379 17,049 17,616	19,956 21,921 18,994 17,819 21,023 22,052 21,366 22,210 17,707	20,481 22,700 20,013 18,684 21,969 22,963 22,619 23,181 18,623 19,190	6 3 7 4 9 5 3 2 4 1 1 10
Hamilton Harlan Hayes Hitchcock Holt Hooker Howard Jefferson Johnson Kearney	151 68 28 58 203 14 82 152 73 119	160 66 35 60 202 14 83 147 71	168 69 35 62 223 14 91 157 75	4.8 4.8 2.3 4.0 10.4 3.7 10.1 7.0 5.9 2.3	17,036 17,917 23,343 15,389 16,152 17,713 13,621 17,345 15,596 17,954	17,956 17,600 29,124 16,186 16,073 18,182 13,536 16,992 15,240 20,413	17,878 19,885 14,683 18,419 16,365 20,857	33 34 2 53 45 17 89 36 75 8	New Jersey Metropolitan portion Atlantic Bergen Burlington Canden Cape May Cumberland Essex Gloucester	187,167 187,167 5,210 26,643 8,373 10,160 2,019 2,378 18,204 4,260	191,559 191,559 5,208 26,739 8,570 10,402 2,058 2,482 18,974 4,371	204,038 204,038 5,540 28,235 9,066 11,042 2,199 2,661 20,268 4,664	6.5 6.5 6.4 5.6 5.8 6.2 6.9 7.2 6.8 6.7	24,182 24,182 23,135 32,273 21,136 20,181 21,188 17,199 23,417 18,430	22,892 32,296 21,488 20,563 21,374 17,911 24,515 18,638	26,091 26,091 24,148 33,815 22,801 21,748 22,708 19,213 26,206 19,691	3 10 5 2 11 17 3 12 3 21 6 8
Keith Keya Paha Kimball Knox Lancaster Lincoln Logan Loup McPherson Madison Merrick Morrill	130 18 74 141 3,696 512 16 7 11 515	133 14 75 136 3,927 548 16 8 10 530	138 16 76 145 4,171 574 17 8 9 559	2.1 6.7 6.2 4.8 5.4 .2 5 5.5	15,121 17,953 18,295 14,802 17,237 15,754 18,111 10,376 19,259 15,767 14,952 18,746	18,390 14,550 18,123 16,697 18,111 11,294 17,415 16,189 15,495 20,302	18,981 15,542 18,995 17,331 19,371 11,020 17,945 16,922 16,187 20,268	69 31 83 30 58 25 93 43 64 77	Hudson Hunterdon Mercer Middlesex Monmouth Morris Ocean Passaic Salem Somerset Sussex Union	10,753 3,024 8,440 15,817 14,110 13,171 8,782 9,392 1,226 7,854 2,812 12,657	8,712 16,242 14,394 13,468 9,128 9,552 1,268 8,099 2,849 12,971	11,853 3,373 9,321 17,364 15,408 14,393 9,633 10,125 1,368 8,659 3,043 13,769	7.7 7.3 7.0 6.9 7.0 6.9 5.5 6.0 7.8 6.9 6.8 6.2	19,440 27,965 25,877 23,502 25,461 31,236 20,211 20,726 18,750 32,535 21,406 25,645	25,761 31,787 20,924 21,034 19,463 32,968 21,463	21,359 30,139 28,443 25,369 27,226 33,616 21,976 22,196 21,000 34,580 22,581 27,910	5 5 9 7 3 15 14 19 1 13
Nance Nemaha Nuckolls Otoe Pawnee Perkins Phelps Pierce	71 128 96 221 57 68 189 118	71 135 92 225 55 62 202 118	75 137 98 241 59 66 206 125	5.8 1.8 6.7 7.4 6.7 5.4 2.0 6.1	16,741 16,052 16,638 15,583 17,249 20,257 19,502 15,111	16,645 16,943 16,130 15,808 16,672 19,265 20,630 15,103	17,359 17,560 16,890 18,462 20,696 21,121	47 57 52 65 35 10 6 78	New Mexico Metropolitan portion Nonmetropolitan portion Bernalillo Catron	1,883 21,602 13,578 8,024 8,199 29	1,919 22,872 14,402 8,470 8,692 31	2,053 24,452 15,431 9,022 9,277 31	6.9 6.9 7.1 6.5 6.7	20,488 14,213 16,057	20,711 14,781 16,682 12,382 17,758	21,927 15,458 17,410	16
Platte Polk Red Willow Richardson Rock Saline Sarpy Saunders Scotts Bluff	498 106 183 159 37 201 1,612 274 586	510 108 185 161 38 202 1,711 286 620	537 114 193 170 41 221 1,771 303 644	5.2 5.2 4.1 5.8 8.3 9.2 3.5 5.8 3.8	16,693 18,636 15,697 15,958 18,380 15,846 15,646 14,967 16,282	17,046 19,600 16,129 16,325 19,100 16,024 16,169 15,633 17,105	20,762 16,977 17,422 20,959 17,466 16,518 16,395 17,601	46 9 63 56 7 55 71 74 50	Calori Chaves Cibola Colfax Curry De Baca Dona Ana Eddy Grant	815 204 178 553 26 1,676 681 334	821 216 179 604 28 1,762 729 353	859 233 192 665 29 1,908 773 362	7.4 4.5 7.5 7.1 10.1 1.2 8.3 6.0 2.5	11,459 14,046 8,622 13,757 13,082 11,776 12,279 13,974 12,058	14,012 9,210 14,085 13,678 12,314 12,493 14,639	12,230 14,657 9,762 14,787 14,600 12,658 13,016 15,121 12,639	8 2 31 7 9 9 8 20 19 6
Seward	259 106 54	266 102 56	283 104 60	6.5 2.0 7.6	16,717 15,859 14,606	17,171 15,542	18,171 15,910	38 80	Guadalupe Harding Hidalgo	40 11 73	42 11 78	44 11 81	5.4 -3.0 4.6	9,755 10,724 12,240		10,870 10,762 13,649	29

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

	Table	e z.—10	150IIai	IIICOI	ile all	u rei	Сарна	Personal Income by Cou	Total personal income Millions of dollars Percent				Per capita personal incon				
		Total persor		Percent	Per o	capita pe	rsonal in	Come ³					Porcont	Per c		rsonal in	Come ³
Area name	Mill 1990	lions of dolla	1992	change ²	1990	Dollars 1991	1992	State 1992	Area name	Mill 1990	ions of dolla	1992	change ²	1990	Dollars 1991	1992	State 1992
Lea Lincoln Los Alamos Luna McKinley Mora Otero	728 186 473 199 540 35 630	767 199 473 219 578 37 661	807 213 511 236 619 40 709	5.2 7.2 8.0 7.7 7.1 8.3 7.2	13,114 15,200 26,078 10,978 8,807 8,275 12,155	13,818 15,611 26,189 11,604 9,178 8,825 12,691	14,244 16,234 28,087 11,976	12 4 1 24	Metropolitan portion Nonmetropolitan portion Alamance Alexander Alleghany Anson	76,585 31,753 1,790 408 127 318	79,968 33,424 1,865 421 132 331	86,372 35,745 1,977 454 142 345	8.0 6.9 6.0 7.9 7.5 4.5	17,426 14,060 16,496 14,766 13,223 13,552	17,886 14,675 16,989 15,048 13,684 14,094	19,045	18 39 64
Quay Rio Arriba Roosevelt Sandoval San Juan San Miguel Sant Fe	139 322 217 855 1,114 255 1,803	144 339 218 925 1,188 270 1,932	152 360 249 1,001 1,273 290 2,067	5.8 6.3 14.2 8.2 7.1 7.3 6.9	12,903 9,322 12,950 13,348 12,176 9,882 18,120	13,625 9,842 12,666 13,983 12,694 10,368 18,972	14,560 13,381 10,959	11 30 13 10 18 27 2	Ashe Avery Beaufort Bertie Bladen Brunswick	298 204 597 253 348 681	318 218 631 269 370 747	335 231 663 274 397 791	5.3 5.8 5.0 1.9 7.5 5.9	13,438 13,664 14,097 12,393 12,135 13,277	14,234 14,601 14,763 13,170 12,826 14,201	14,943 15,486 15,417 13,478 13,663 14,526	61 52 54 90 89 69
Sierra Socorro Taos Torrance Union Valencia	122 159 259 111 64 573 401,833	130 167 277 118 65 618 412,663	137 177 291 127 62 666 436,354	5.0 5.5 5.1 7.9 -3.6 7.9	12,184 10,780 11,161 10,772 15,525 12,561	12,982 11,387 11,699 11,119 15,704 13,208	13,911 11,783 12,030 11,898 15,394 13,793	14 26 23 25 5 15	Buncombe Burke Cabarrus Caldwell Camden Carteret Caswell Catawba Chatham	2,985 1,108 1,680 1,026 77 752 252 2,121 685	3,126 1,135 1,739 1,055 82 795 266 2,168 715	3,372 1,218 1,855 1,145 88 846 283 2,340 770	7.9 7.2 6.7 8.5 7.7 6.4 6.4 7.9 7.7	17,009 14,600 16,888 14,488 12,904 14,238 12,181 17,844 17,583	17,584 14,859 17,142 14,807 13,611 14,805 12,810 18,017 18,051	18,714 15,734 17,916 15,951 14,350 15,405 13,669 19,203 19,136	49 17 43 73 55 88 10
New York Metropolitan portion Nonmetropolitan portion Albany Allegany Bronx Broome Cattaraugus Cayuga Chautauqua Chemung Chenango	379,525 22,308 6,383 635 17,714 3,811 1,176 1,228 2,100 1,517 752	389,558 23,106 6,565 652 18,381 3,924 1,205 1,245 2,178 1,574 775	412,129 24,225 6,900 685 19,569 4,064 1,281 1,299 2,278 1,640 821	5.7 5.8 4.8 5.1 5.1 6.5 3.6 6.3 4.3 4.6 4.2 6.0	22,322 22,969 15,090 21,814 12,561 14,714 17,966 13,929 14,897 14,796 15,922 14,517	15,519 22,384 12,694 15,328 18,486 14,161 15,049 15,331 16,545 14,883	24,808 16,183 23,559 13,328 16,381 19,127 14,950 15,712 16,083 17,231 15,728	8 62 40 21 53 46 44 30 45	Cherokee Chowan Clay Cleveland Columbus Craven Cumberland Currituck Dare Davidson Davie	233 190 86 1,256 625 1,164 3,559 200 366 1,987 524	239 204 89 1,288 673 1,231 3,811 208 382 2,039 532	254 207 95 1,376 728 1,348 4,451 219 405 2,189 571	6.3 1.4 6.5 6.9 8.3 9.5 16.8 5.4 6.0 7.4 7.3	11,551 14,040 11,988 14,782 12,605 14,217 12,928 14,508 15,939 15,634 18,702	11,785 14,994 12,267 15,014 13,513 14,914 13,725 14,545 16,462 15,863 18,807	12,465 15,063 13,011 15,835 14,507 16,059 16,050 14,834 17,065 16,861 20,069	58 93 45 70 40 41 63 24 29
Columbia Cordand Delaware Dutchess Erie Essex Franklin Fulton Genesee Greene	1,228 1,104 698 659 5,619 17,586 578 607 810 1,000 706	1,261 1,117 725 674 5,673 18,352 592 635 844 1,024 720	1,313 1,178 768 703 5,894 19,250 623 679 894 1,072 759	4.1 5.5 5.9 4.3 3.9 4.9 5.3 6.8 6.0 4.7 5.4	14,248 17,523 14,225 13,944 21,618 18,151 15,501 13,001 14,927 16,626 15,724	14,620 17,788 14,750 14,215 21,739 18,901 15,763 13,387 15,565 16,932 15,868	18,695 15,531 14,801 22,424 19,798 16,595 14,147 16,561 17,617	51 23 49 55 11 15 37 57 38 27 41	Duplin Durham Edgecombe Forsyth Franklin Gaston Gates Graham Granville Greene	551 3,431 739 5,565 479 2,742 124 71 493 230	594 3,597 795 5,746 499 2,820 135 75 516 250	653 3,935 844 6,113 540 3,020 139 83 568 251	9.9 9.4 6.2 6.4 8.3 7.1 2.6 10.6 10.1	13,783 18,775 13,095 20,882 13,086 15,633 13,349 9,934 12,842 14,897	14,848 19,352 14,121 21,402 13,348 15,903 14,446 10,266 13,383 15,939	16,103 20,920 15,012 22,559 14,245 16,901 14,673 11,256 14,501 15,939	6 60 3 79 27 65 100 71 44
Hamilton Herkimer Jefferson Kings Lewis Livingston Madison Monroe Montgomery Nassau	82 931 1,595 39,735 352 994 1,118 15,350 819 40,167	87 943 1,679 40,922 370 1,028 1,150 15,859 855 40,363	92 1,001 1,766 43,885 383 1,081 1,203 16,563 894 42,018	5.8 6.2 5.2 7.2 3.6 5.1 4.6 4.4 4.5 4.1	15,493 14,141 14,308 17,285 13,087 15,898 16,133 21,467 15,737 31,237	16,191 14,261 14,934 17,874 13,599 16,297 16,347 22,053 16,456 31,195	17,089 15,130 15,535 19,196 13,967 17,059 16,935 22,863 17,165	33 52 48 20 60 34 35 10	Guilford Halifax Harnett Haywood Henderson Hertford Hoke Hyde Iredell Jackson	6,949 704 851 681 1,204 260 247 74 1,497 338	7,228 752 904 718 1,255 276 267 85 1,556 358	7,722 801 988 758 1,333 291 291 87 1,678 383	6.8 6.5 9.4 5.5 6.3 5.3 9.1 2.4 7.8 7.2	19,940 12,662 12,527 14,504 17,274 11,532 10,755 13,738 16,030 12,556	20,456 13,471 13,184 15,155 17,756 12,254 11,512 15,870 16,304 13,149	21,585 14,257 14,235 15,792 18,577 12,906 12,436 16,260 17,324 13,924	78 80 48 13 94 97 35 21
New York Niagara Oneida Onondaga Ontario Orange Orleans Oswego Otsego Putnam	66,077 3,691 4,071 8,999 1,774 5,683 624 1,843 906 2,013	68,033 3,842 4,176 9,195 1,846 5,870 653 1,895 940 2,038	73,257 3,992 4,369 9,581 1,896 6,240 681 2,076 997 2,131	4.3	44,426 16,698 16,215 19,157 18,606 18,405 14,862 15,065 14,940 23,892	16,551 19,467 19,137 18,821 15,355 15,326 15,434	17,326 20,221 19,424 19,762 15,568 16,625 16,345	29 13 17 16 47 36 42	Johnston Jones Lee Lenoir Lincoln McDowell Macon Madison Martin Mecklenburg	1,242 143 683 837 784 454 328 215 339 11,215	1,307 151 718 903 808 475 345 225 364 11,696	1,422 171 793 981 868 509 366 238 395 12,558	8.8 13.2 10.4 8.6 7.4 7.1 6.1 5.8 8.4 7.4	12,627 13,529		13,779 15,647	15 14 26 31 82 57 87 51
Queens Rensselaer Richmond Rockland St. Lawrence Saratoga Schenectady Schoharie Schuyler Seneca	41,862 2,709 8,349 6,691 1,434 3,418 3,043 456 244 537	42,651 2,809 8,575 6,774 1,502 3,562 3,113 473 255 554	45,169 2,951 9,368 7,130 1,601 3,781 3,271 500 263 575	5.9 5.1 9.2 5.3 6.6 6.1 5.1 5.8 3.1	21,444 17,518 21,967 25,160 12,787 18,751 20,371 14,268 13,035 15,944	22,259	18,877 23,954 26,323 14,065 20,068 21,791 15,396 13,931	4 59 14 12 50 61	Mitchell Montgomery Moore Nash New Hanover Northampton Onslow Orange Pamlico Pasquotank	178 304 1,129 1,279 2,007 255 1,529 1,832 156 434	191 316 1,187 1,329 2,149 277 1,601 1,934 165 448	201 335 1,258 1,380 2,307 286 1,847 2,080 171 471	5.4 5.8 6.0 3.8 7.3 3.2 15.4 7.6 3.3 5.2	12,305 12,987 19,027 16,565 16,588 12,255 10,201 19,430 13,699 13,817	13,176 13,652 19,696 16,887 17,262 13,338 10,638 20,101 14,391 14,135	17,134 18,050 13,800 12,782 20,856 14,625	74 8 22 16 86 95 7 67
Steuben Sulfolk Sullivan Tioga Tompkins Ulster Warren Washington Wayne Westchester	1,623 29,572 1,231 828 1,443 3,021 1,074 824 1,504 28,349	1,716 30,411 1,256 863 1,490 3,153 1,096 842 1,572 29,231	1,743 31,808 1,321 882 1,548 3,275 1,164 898 1,649 30,725	1.6 4.6 5.2 2.3 3.9 3.9 6.2 6.7 4.9	16,350 22,360 17,724 15,781 15,314 18,231 18,057 13,852 16,827 32,396	17,205 22,898 17,956 16,305 15,692 18,794 18,278 14,010 17,387	17,411 23,769 18,688 16,531 16,232 19,354 19,251 14,859 18,062	28 7 24 39 43 18 19 54	Pender Perquimans Person Pitt Polk Randolph Richmond Robeson Rockingham Rowan	382 129 445 1,671 293 1,624 578 1,185 1,283 1,676	406 141 458 1,759 306 1,659 593 1,286 1,346 1,715	444 148 496 1,890 322 1,812 628 1,418 1,405 1,831	9.4 5.2 8.2 7.4 5.2 9.2 5.9 10.2 4.4 6.8	13,121 12,342 14,699 15,417 20,209 15,173 12,967 11,244 14,879 15,109	14,921 15,854 21,102 15,240 13,176	14,313 14,118 16,028 16,809 21,653 16,413 13,936 13,148 16,160 16,138	81 42 30 4 33 83 83 92 36
Wyoming	573 316 108,339	575 331 113,392	615 343 122,117	7.0 3.7 7.7	13,452 13,809 16,284	13,286 14,322	14,143 14,763	58 56	Rutherford Sampson Scotland Stanly	773 709 424 777	810 764 454 799	872 842 494 837	7.7 10.1 8.8 4.6	13,526 14,979 12,527 14,982	14,069 15,996 13,305 15,224	15,050 17,349 14,435 15,820	20 72

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

				SUIIAI					Personal income by Cou	1	ieu						
		Total persor		Percent	Per c	apita per	sonal in	come ³			otal persor		Percent	Per c		rsonal inc	Come ³
Area name		ions of doll		change 2		Dollars		State	Area name		ons of dolla		change 2		Dollars		State
Stokes	550 956 115 399 53 1,399	567 998 125 418 58 1,431	1992 606 1,070 132 440 59 1,526	6.9 7.2 6.1 5.3 .3 6.6 7.1 8.4	1990 14,729 15,453 10,188 15,630 13,802 16,517 13,784 21,215	15,001 15,971 10,892 16,239 15,486 16,489 14,106	15,714 16,989 11,509 16,892 15,343 17,115 14,943	50 25 99 28 56 23 62	Clermont Clinton Columbiana Coshocton Crawford Cuyahoga Darke Defiance	2,384 536 1,520 485 695 29,945 827 649	2,492 564 1,567 499 702 31,105 849 666	2,692 614 1,651 530 742 32,639 892 703	4.9 5.1	15,780 15,057 14,014 13,679 14,523 21,210 15,410 16,467	1991 16,116 15,640 14,327 14,011 14,705 22,040 15,816 16,822		63 65 57 1 45
Wake Warren Washington Watauga Wayne Wilkes Wilson Yadkin Yancey North Dakota	9,057 180 193 491 1,379 890 1,057 467 190 9,765	9,621 189 208 501 1,446 913 1,103 475 195	10,425 201 218 542 1,543 948 1,170 514 207	8.4 6.3 5.0 8.1 6.7 3.9 6.1 8.2 5.8 9.3 7.4	10,425 13,767 13,259 13,146 14,971 15,983 15,302 12,313 15,320	21,799 10,915 14,739 13,424 13,571 15,296 16,599 15,333 12,504	22,805 11,522 15,419 14,258 14,325 15,805 17,536 16,368 13,184		Delaware Erie Fairfield Fayette Franklin Fulton Gallia Geauga Greene Guernsey	1,408 1,327 1,725 366 18,306 637 392 1,739 2,370 488	1,473 1,397 1,814 377 19,204 660 413 1,765 2,491 518	1,590 1,496 1,947 415 20,631 716 449 1,861 2,624 549	7.4 8.4 8.8 5.4 5.3	20,886 17,268 16,591 13,290 18,975 16,508 12,648 21,370 17,279 12,509	21,144 18,127 17,070 13,578 19,629 16,938 13,209 21,462 17,971 13,206	22,263 19,297 17,810 14,877	4 11 27 64 5 22 73 3
Metropolitan portion Nonmetropolitan portion Adams Barnes Benson Billings Bottineau Bowman Burke Burleigh Cass Cavalier	4,149 5,616 44 193 93 15 132 57 50 1,018 1,791 94	4,318 5,573 44 180 84 17 115 58 44 1,058 1,869 90	4,638 6,171 50 199 92 17 137 62 52 1,150 2,003	7.4 10.7 13.6 10.8 8.7 3.0 19.3 6.9 16.2 8.7 7.1 25.4	16,101 14,791 14,011 15,436 13,005 16,617 15,902 16,956 16,894 17,355 15,616	14,126 14,530 12,064 14,871 16,680 15,830 17,297 17,863 15,385	17,604 16,654 16,497 16,300 13,323 14,960 18,035 18,284 19,167 18,404 18,797 19,778	34 38 49 44 18 15 6 14	Hamilton Hancock Hardin Harrison Henry Highland Hocking Holmes Hurron Jackson	18,295 1,173 400 193 470 440 327 368 903 361	18,807 1,213 396 199 488 463 341 383 921 384	19,930 1,305 435 215 525 509 365 417 974 406	6.0 7.6 10.0 8.1 7.7 9.7 6.9 8.9 5.7 5.8	21,113 17,905 12,844 12,048 16,146 12,282 12,774 11,174 16,010 11,930	21,622 18,361 12,688 12,452 16,695 12,703 13,140 11,487 16,095 12,446	22,855 19,558 13,956 13,502 17,842 13,671 13,693 12,348 16,887 12,942	2 9 72 78 2 24 77 75 85 40 81
Dickey Divide Dunn Eddy Emmons Foster Golden Valley Grand Forks Grant Griggs	92 42 43 45 57 66 30 1,020 34	92 42 44 42 58 63 28 1,059 35	103 47 50 45 71 72 32 1,123 42 54	11.2 13.6 13.7 7.4 23.2 13.0 12.9 6.0 20.0 8.7	15,236 14,740 10,693 15,493 11,853 16,602 14,195 14,463 9,534 16,555	15,525 15,018 11,161 14,478 12,262 16,401 14,306 15,113 10,266 15,648	17,519 17,718 12,830 15,940 15,307 18,814 16,712 15,844 12,669 17,300	23 21 50 39 43 10 28 40 51 24	Jefferson Knox Lake Lawrence Licking Logan Lorain Lucas Madison Mahoning	1,194 671 4,159 764 2,056 659 4,369 8,225 518 4,246	1,227 707 4,250 804 2,162 697 4,494 8,396 539 4,433	1,295 757 4,508 864 2,326 757 4,824 8,940 593 4,627	7.4 7.6 8.5 7.3 6.5 9.9 4.4	14,901 14,086 19,262 12,327 15,955 15,532 16,080 17,785 13,951 16,029	15,343 14,784 19,485 12,879 16,539 16,178 16,400 18,172 14,232 16,736	17,436 19,371 15,211 17,419	54 6 76 29 35 31 10 61 32
Hettinger Kidder La Moure Logan McHenry McIntosh McKenzie McLean Mercer Monton	45 45 76 42 89 56 87 157 164 319	42 40 70 38 81 58 88 148 167 331	53 45 87 44 88 67 99 170 181 363	26.2 11.7 24.7 16.0 8.3 13.8 13.5 15.1 8.1 9.5	13,155 13,443 14,241 14,756 13,625 14,068 13,748 15,125 16,793 13,487	12,789 12,393 13,293 13,813 12,820 15,310 14,196 14,564 17,348 14,098	16,732 14,188 16,681 16,419 14,184 17,592 16,459 17,097 19,200 15,379	27 46 29 36 47 22 35 25 5	Marion Medina Meigs Mercer Miami Monroe Montgomery Morgan Morrow Muskingum	939 2,237 266 649 1,590 196 10,617 199 349 1,181	959 2,300 274 650 1,643 203 11,160 197 359 1,209	1,036 2,452 293 688 1,754 217 11,690 206 385 1,305	8.0 6.6 6.9 5.9 6.8 7.2 4.7 4.8 7.2 7.9	14,595 18,205 11,539 16,400 17,040 12,649 18,492 14,013 12,544 14,373	14,935 18,321 11,823 16,365 17,464 13,177 19,354 13,903 12,760 14,671	16,043 19,080 12,506 17,221 18,488 14,227 20,202 14,427 13,473 15,795	12 82 36 19 70 7 68 79 52
Mountrail Nelson Oliver Pembina Pierce Ramsey Ranssom Renville Richland Rolette	100 77 30 167 89 199 88 51 256 129	97 65 30 168 83 200 92 42 271	113 80 37 193 89 223 96 54 279	16.9 21.9 22.2 15.1 7.8 11.6 4.4 27.8 2.6 14.1	14,390 17,507 12,516 18,195 17,637 15,752 14,910 16,250 14,153 10,062	14,208 15,378 13,209 18,727 16,878 15,934 15,732 13,899 15,192 10,641	16,737 19,030 16,605 21,681 18,742 17,883 16,567 18,231 15,619 11,970		Noble Ottawa Paulding Perry Pickaway Pike Portage Preble Putnam Richland	130 721 287 374 651 282 2,170 601 540 1,995	137 731 290 378 679 304 2,239 596 535 2,009	144 763 314 403 759 333 2,384 637 577 2,085	6.9 7.8	11,512 18,010 14,012 11,814 13,480 11,560 15,195 14,965 15,952 15,813	11,853 18,247 14,255 11,889 13,878 12,298 15,511 14,713 15,657 15,798	16,304 15,572 16,737	83 62 80 47 56 44
Sargent Sheridan Sloux Slope Stark Steele Stutsman Towner Traill Walsh	78 28 28 11 306 43 351 51 138 216	84 24 30 12 317 39 341 53 142 224	89 28 33 16 339 45 363 64 153 248	5.9 13.0 12.2 39.2 7.1 16.4 6.5 21.8 7.1 10.8	17,258 12,979 7,440 12,733 13,429 17,957 15,846 14,285 15,795 15,650	18,881 11,669 7,813 12,846 13,880 16,572 15,508 15,258 16,434 16,787	20,410 13,469 8,606 18,116 14,881 19,504 16,619 19,113 17,831 18,819	17 45 4 30 7 20	Ross Sandusky Scioto Seneca Shelby Stark Summit Trumbull Tuscarawas Union	921 994 992 922 745 6,178 9,488 3,888 1,221 564	963 1,016 1,035 945 769 6,355 9,786 4,039 1,240 577	1,045 1,081 1,115 1,009 818 6,742 10,373 4,253 1,346 624	6.7 6.3 6.1 6.0 5.3	13,263 16,041 12,336 15,411 16,542 16,790 18,395 17,069 14,509 17,606	16,252 12,898 15,811 16,875 17,185 18,826 17,648 14,609 17,636	17,206 13,750 16,830 17,832 18,117 19,825 18,507 15,734 18,534	74 42 25 21 8 18 53 17
Ward Wells Williams Ohio	864 98 316 190,608	889 91 322 197,425	955 103 341 209,851	7.5 13.3 6.0 6.3	14,956 16,877 15,049 17,547	15,536 16,130 15,391 18,047	16,611 18,516 16,393		Van Wert Vinton Warren Washington Wayne Williams	471 125 1,993 893 1,598 600	473 131 2,106 935 1,640 610	509 140 2,268 994 1,761 665	7.5 6.2 7.7 6.3 7.4 9.1	15,488 11,283 17,408 14,344 15,703 16,186	15,613 11,696 17,981 15,010 15,968 16,459	16,839 12,202 18,926 15,834 16,948 17,843	87 14 51 39 23
Metropolitan portion Nonmetropolitan portion Adams Allen Ashland Ashlabula Athens Auglaize Belmont Brown Butler Carroll Champaign Clark	161,182 29,427 271 1,730 684 1,413 665 745 996 467 4,962 352 571 2,324	167,120 30,305 283 1,788 703 1,448 705 762 1,049 491 5,174 356 583 2,425	177,326 32,526 311 1,912 755 1,540 738 820 1,093 533 5,555 389 637 2,596	9.8 6.9 7.5 6.4 4.6 7.6 4.2 8.4 7.4 9.1	18,236 14,540 10,657 15,751 14,386 14,137 11,170 16,678 14,055 13,279 16,937 13,259	18,775 14,865 10,922 16,293 14,605 14,421 11,662 16,801 14,852 13,785 17,291 13,210	19,778 15,823 11,782 17,358 15,531 15,259 12,285 17,830 15,463 14,630 18,211 14,284 17,371 17,555		Wood Wyandot Oklahoma Metropolitan portion Adair Alfalfa Atoka Beaver Beckham Blaine Bryan Caddo	1,940 336 47,580 30,821 16,759 207 108 118 97 231 151 371 381	1,988 333 49,531 32,198 17,333 226 92 126 91 241 153 389 373	2,137 358 52,630 34,173 18,457 253 102 136 102 255 162 412 403	6.1 6.5 12.1 10.2 7.7 11.8 6.0 5.9 5.8	17,112 15,107 15,117 16,458 13,147 11,245 16,969 9,241 16,199 12,272 13,225 11,558 12,946	13,603 11,967 14,694 9,831 15,370 12,900 13,507 12,104	16,420 17,736 14,437 13,204 16,515 10,378 17,582 13,834 14,691 12,669	61 13 77 9 47 31 67

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

				Jonai					II -	-							
		Total persor		Percent	Per c	apita per	sonal ind	come ³			Total person		Percent	Per c	apita per	sonal inc	Rank in
Area name	Milli	ions of doll	ars	change 2		Dollars		State	Area name	Mill	ions of dolla	ars	change 2		Dollars		State
	1990	1991	1992	1991–92	1990	1991	1992	1992		1990	1991	1992	1991–92	1990	1991	1992	1992
Carter	1,128 615 440 179	1,189 645 468	1,272 688 499	7.0 6.6 6.5	15,112 14,343 12,898	15,647 15,108 13,417	16,452 15,986 14,035	43	Josephine	892 812 108 4,519	927 840 106 4,692	985 923 117 5,003	6.3 9.8 10.5 6.6	14,162 14,020 15,067 15,908	14,378 14,396 14,846 16,313	15,070 15,690 16,152 17,202	34 28 20 10
Choctaw Cimarron Cleveland Coal Comanche Cotton Craig Creek Custer	179 69 2,579 56 1,468 102 172 799 367	188 71 2,700 59 1,540 96 182 848 374	202 72 2,880 63 1,724 104 196 909 391	7.3 .9 6.7 6.2 12.0 8.4 7.7 7.2 4.6	11,676 20,960 14,764 9,731 13,183 15,400 12,223 13,138 13,687	12,320 22,325 15,175 10,414 13,832 14,911 12,989 13,759 14,180	13,138 22,801 15,878 10,966 14,310 16,069 13,916 14,606 14,867	62 1 19 75 38 17 45 32 27	Lincoln Linn Malheur Marion Morrow Multnomah Polk Sherman	597 1,344 359 3,586 124 11,532 734 39	635 1,414 376 3,805 114 12,232 774 36	678 1,499 396 4,061 120 13,054 828 38	6.8 6.0 5.4 6.7 5.1 6.7 7.0 6.7	15,283 14,662 13,741 15,616 16,244 19,677 14,722 20,204	15,880 15,150 14,144 16,232 14,253 20,558 15,083 18,529	16,559 15,853 14,625 16,969 14,731 21,727 15,748 19,633	18 24 36 14 35 1 27
Delaware Dewey Ellis Garfield Garvin Grady Grant Greer Harmon Harper	362 85 70 908 353 518 105 85 54 78	383 79 73 933 371 536 95 79 45	414 84 73 981 383 575 102 86 54	8.1 5.7 -3 5.2 3.1 7.4 7.3 8.3 19.9 13.7	12,880 15,279 15,604 16,021 13,283 12,425 18,397 12,969 14,293 19,200	13,438 14,534 16,691 16,580 14,029 12,830 17,217 12,451 12,154 17,775	14,112 15,613 16,982 17,398 14,514 13,732 18,837 13,630 14,988 20,755	41 20 12 11 34 50 6 53 26 3	Tillamook Umatilla Union Wallowa Wasco Washington Wheeler Yamhill	300 841 344 114 345 6,302 21 1,020	314 886 360 123 359 6,625 22 1,077	337 939 382 129 379 7,150 23 1,157	7.1 6.0 6.2 5.1 5.5 7.9 4.5 7.4	13,859 14,174 14,513 16,362 15,865 20,020 14,763 15,472	14,272 14,745 14,994 17,203 16,255 20,239 15,112 15,945	15,101 15,361 15,839 17,782 17,041 21,145 15,780 16,701	33 30 25 7 12 2 26 17
HaskellHughes	120 145	124 149	131 159	6.0 6.9	10,988 11,194	11,381 11,594	11,972 12,528	72 69	Pennsylvania Metropolitan portion Nonmetropolitan portion	224,628 197,469 27,159	233,676 205,496 28,180	247,611 217,697 29,914	6.0 5.9 6.2	18,884 19,564 15,073	19,557 20,276 15,537	20,642 21,405 16,391	
Jackson Jefferson Johnston Kay Kingfisher Kiowa Latimer Le Flore	380 85 93 805 194 161 112 495	366 93 99 834 201 151 120 507	392 98 109 894 213 163 128 550	7.0 5.8 9.5 7.2 6.2 8.1 6.1 8.6	13,269 12,122 9,255 16,771 14,734 14,192 10,810 11,400	12,889 13,371 10,001 17,365 15,417 13,540 11,411 11,648	13,677 14,174 10,759 18,453 16,464 14,837 12,219 12,638	52 40 76 8 14 29 71 68	Adams Allegheny Armstrong Beaver Bedford Berks Blair Bradford Bucks	1,314 28,270 1,096 2,854 600 6,516 1,925 892 12,210	1,369 29,859 1,118 2,971 621 6,673 2,005 902 12,489	1,444 31,774 1,182 3,180 683 7,111 2,151 962 13,183	5.5 6.4 5.8 7.0 9.9 6.6 7.3 6.6 5.6	16,685 21,163 14,913 15,318 12,491 19,310 14,741 14,608 22,483	17,085 22,368 15,125 15,852 12,863 19,581 15,292 14,709 22,709	17,777 23,812 15,998 16,854 14,042 20,723 16,384 15,584 23,699	26 4 49 33 64 10 41 55 5
Lincoln Logan Loye McClain McCurtain McIntosh Major Marshall Mayes Murray	356 401 103 310 364 193 112 131 428 136	377 420 110 332 386 200 110 138 442 145	402 445 117 355 429 214 120 149 463 155	6.6 6.1 6.0 6.9 11.1 7.1 8.7 8.3 4.7 6.6	12,201 13,825 12,678 13,583 10,888 11,480 14,065 12,104 12,787 11,344	12,828 14,413 13,377 14,393 11,596 11,787 14,070 12,599 13,043 12,085	13,709 15,120 13,971 15,141 12,761 12,449 15,505 13,432 13,492 12,829	51 25 44 24 66 70 21 58 55 65	Butler Cambria Cameron Carbon Centre Chester Clarion Clearfield Clinton	2,575 2,410 92 876 1,893 9,803 572 1,125 497	2,682 2,522 94 905 2,001 10,314 597 1,156 514	2,881 2,645 101 969 2,124 10,980 634 1,230 561	5.6 7.4 4.9 7.7 7.0 6.2 6.5 6.2 6.4 9.0	14,793 15,679 15,363 15,254 25,947 13,714 14,405 13,356	15,526 16,030 15,713 15,954 26,945 14,357 14,798 13,821	16,319 17,223 16,691 16,780 28,297 15,137 15,691 14,998	22 42 29 35 34 2 58 54 60
Muskogee Noble Nowata Oktuskee Oklahoma Okmulgee Osage Ottawa Pawnee Payne Pittsburg	868 157 121 115 10,524 427 501 401 203 810	896 159 126 122 10,891 455 532 420 207 858	947 168 132 133 11,552 489 550 444 216 913	5.8 5.4 5.2 8.9 6.1 7.6 3.3 5.8 4.3 6.4 7.1	12,722 14,240 12,163 9,953 17,541 11,719 12,057 13,117 13,060 13,176	13,089 14,382 12,745 10,852 17,995 12,456 12,761 13,747 13,348 14,049	13,787 15,177 13,456 11,882 18,854 13,314 13,050 14,570 13,865 14,776	54	Columbia Crawford Cumberland Dauphin Delaware Elk Erie Fayette Forest Franklin Fultro	924 1,253 3,951 4,709 12,343 571 4,478 1,981 57 1,999	966 1,290 4,130 4,958 12,774 597 4,682 2,066 59 2,100	1,028 1,370 4,356 5,239 13,470 642 4,983 2,208 63 2,209 193	6.4 6.2 5.5 5.7 5.5 7.6 6.4 6.8 6.9 5.2 6.6	14,596 14,536 20,171 19,751 22,527 16,387 16,235 13,626 11,862 16,458 13,124	15,229 14,906 20,783 20,633 23,276 17,062 16,856 14,161 12,299 17,064 12,875	16,202 15,792 21,662 21,645 24,513 18,274 17,819 15,092 13,021 17,771 13,564	45 52 8 9 3 24 25 59 67 27 66
Pontotoc Pottawatomie Pushmataha Roger Mills Rogers Seminole Sequoyah Stephens Texas Tillman	435 758 103 56 812 292 384 570 260	454 801 111 57 879 307 411 609 292	475 851 121 61 936 327 446 637 303	4.6 6.3 9.0 6.1 6.5 6.4 8.7 4.6 3.8	12,758 12,888 9,424 13,605 14,671 11,521 11,353 13,515 15,806	13,381 13,595 10,110 14,099 15,529 12,352 12,031 14,265 17,977	18,763 14,389	42 36 74 22 16 60 64 28 7	Greene Huntingdon Indiana Jefferson Juniata Lackawanna Lancaster Lawrence Lebanon Lehigh	506 537 1,284 681 295 3,744 8,035 1,424 1,926 5,802	526 564 1,317 703 305 3,896 8,178 1,473 1,995 6,056	564 606 1,388 753 324 4,133 8,696 1,560 2,122 6,466	7.2 7.5 5.4 7.0 6.4 6.1 6.3 5.9 6.4 6.8	12,806 12,145 14,275 14,772 14,240 17,098 18,918 14,790	13,270 12,712 14,531 15,221 14,617 17,835 19,002 15,314 17,326 20,593	14,204 13,615 15,275 16,296 15,385 19,003 20,018 16,165 18,321 21,842	63 65 57 43 56 15 11 46 23 7
Tulsa Wagoner Washington Washita Woods Woodward Oregon	9,606 641 963 161 144 255 49,161	10,050 673 993 153 141 257 51,701	10,566 706 1,021 154 156 271 55,286	5.1 4.9 2.8 .6 10.9 5.3	19,020 13,342 19,945 14,037 15,861 13,446 17,201	19,590 13,815 20,404 13,375 15,750 13,654 17,714	14,259 21,107 13,449 17,571	4 39 2 57 10 37	Lycoming McKean Mercer Mifflin Monroe	5,536 1,876 673 1,827 629 1,689	5,732 1,933 712 1,911 643 1,695	6,115 2,061 755 2,029 681 1,793	6.7 6.6 6.0 6.2 6.0 5.8	15,794 14,229 15,087 13,603 17,443	17,421 16,158 15,049 15,729 13,839 16,802	18,589 17,107 15,949 16,618 14,616 17,110	19 31 51 36 62 30
Metropolitan portion	36,171 12,991	38,153 13,548	40,831 14,455	7.0 6.7	18,119 15,075	18,687 15,448	19,619		Montgomery Montour Northampton Northumberland	20,025 345 4,558 1,456	20,814 374 4,708 1,509	21,906 410 5,025 1,584	5.2 9.5 6.7 5.0	29,470 19,403 18,397 15,046	30,381 20,906 18,815 15,620	31,747 22,742 19,911 16,488	1 6 13 39
Baker Benton Clackamas Clatsop Coos Crook Curry Deschutes Douglas Gilliam Grant	218 1,153 5,541 559 591 895 205 302 1,339 1,382 28	228 1,192 5,842 567 636 930 221 320 1,430 1,421	239 1,271 6,255 607 668 986 244 338 1,542 1,502	4.9 6.6 7.1 7.2 5.0 6.1 10.3 5.5 7.8 5.7	14,114 16,235 19,732 16,743 15,614 14,812 14,413 15,515 17,609 14,532 16,329 14,760	14,664 16,624 20,203 16,801 16,427 15,262 15,028 16,230 17,775 14,818 15,241 15,243	16,873 18,305 15,562 17,066 16,474	8 3 6 13 23 21 15 5 29	Perry Philadelphia Pike Potter Schuylkill Snyder Somerset Sullivan Susquehanna Tioga Union	27,563 491 229 2,378 607 1,150 89 596 542 580	1,309 635 28,570 506 244 2,453 660 1,190 91 618 580 618	1,364 676 29,990 539 265 2,600 698 1,278 98 659 617 653	5.0 6.6 5.0 6.4 9.0 6.0 5.9 7.4 7.2 6.6 6.4 5.6	17,428 17,168 13,687 15,578 16,486 14,699 14,549 14,713 13,147 16,021	15,104 18,228 16,459 14,447 16,070 17,818 15,133 14,984 15,092 14,101 16,999	15,953 19,316 16,560 15,742 17,013 18,701 16,232 16,018 16,065 14,833 17,766	59 50 14 37 53 32 18 44 48 47 61 28
Harney	106 262 2,345 187	106 279 2,472 195	111 290 2,655 221	4.5 4.0 7.4 13.3	14,988 15,475 15,920 13,548	15,158 16,511 16,410 13,775	15,939 16,814 17,230	22 16 9	Venango	978 756 3,497	1,048 797 3,657	1,103 838 3,883	5.2 5.2 6.2	16,488 16,795 17,085	17,598 17,687 17,835	18,527 18,558 18,846	21 20 16

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990–92—Continued

	iabi	5 Z.—II	Ulai Fe	SUllai	IIICOII	ile all	u rei	Сарна	Personal Income by Cou	iity, 198	10-92-	Continu	ieu				
	1	Total persor	nal income		Per c	apita per	sonal in	come 3		1	otal persor	nal income	1	Per c	apita pei	rsonal in	come 3
Area name	Mill	ions of doll	ars 1992	Percent change ²	1990	Dollars 1991	1992	Rank in State	Area name	Milli 1990	ions of dolla	ars 1992	Percent change ²	1990	Dollars 1991	1992	Rank in State
Wayne Westmoreland Wyoming York Rhode Island Metropolitan portion Nonmetropolitan portion	636 6,260 429 6,427 19,121 17,372 1,749	651 6,630 445 6,643 19,411 17,656 1,755	691 7,030 477 6,988 20,304 18,488 1,815	6.1 6.0 7.2 5.2 4.6 4.7 3.4	15,831 16,896 15,261 18,863 19,035 18,942 20,009	15,856 17,835 15,727 19,225 19,340 19,273	16,475 18,783 16,541 19,970 20,276 20,214 20,931	40 17 38 12	Fall River Faulk Grant Gregory Haakon Hamlin Hand Hanson	106 52 132 83 51 73 84 36	108 48 138 83 51 74 85 35	110 52 142 88 48 76 79	2.4 9.0 3.0 6.1 -6.2 3.0	14,478 18,888 15,787 15,471 19,754 14,692 19,769 12,104	14,968 17,384 16,620 15,799 19,809 14,847 19,898 11,780	15,617 19,322 17,004 16,871 18,798 15,252 18,628 13,965	44 10 33 36 12 50 17 56
Bristol	1,097 3,180 1,749 10,918 2,177 52,855	1,086 3,217 1,755 11,137 2,216	1,134 3,392 1,815 11,636 2,326 58,410	4.4 5.4 3.4 4.5 5.0 5.9	22,453 19,707 20,009 18,303 19,721 15,101	22,228 19,871 20,037 18,753 19,882	23,220 20,876 20,931 19,702 20,641 16,212	1 3 2 5 4	Harding Hughes Hutchinson Hyde Jackson Jerauld Jones	26 236 127 30 30 49 27	26 253 125 30 30 49 26	26 270 140 28 31 49 24	7 7.0 12.5 -4.4 3.7	15,402 15,931 15,407 17,807 10,708 20,426 20,259	15,904 16,948 15,399 18,062 10,672 20,497 19,863	16,211 17,768 17,529 17,291 10,823 20,763 18,786	41 23 25 30 62 3
Metropolitan portion Nonmetropolitan portion Abbeville Aiken Allendale Anderson Bamberg Barnwell	38,636 14,218 287 2,091 112 2,170 178 273	40,304 14,827 296 2,207 120 2,227 185 285	42,606 15,803 321 2,391 128 2,382 203 312	5.7 6.6 8.3 8.3 6.2 6.9 9.4 9.6 6.0	15,878 13,330 11,984 17,160 9,522 14,906 10,575 13,382	12,339 17,522 10,193 15,210 10,933 13,765	16,947 14,515 13,338 18,595 10,890 16,063 11,939 14,796	29	Kingsbury Lake Lawrence Lincoln Lyman McCook McPherson	92 167 298 259 61 82 50 94	97 174 314 273 63 82 52 92	99 180 337 296 60 92 56	2.5 3.9 7.1	15,577 15,833 14,379 16,760 16,622 14,408 15,598	16,664 16,525 14,953 17,588 17,600 14,540 16,707 19,406	17,044 17,038 15,791 18,710 16,527 16,497 18,466 20,165	31 32 42 14 38 39 18 6
Beaufort Berkeley Calhoun Charleston Cherokee Chester Chesterled Clarendon	1,641 1,659 169 4,958 579 385 484 301	1,698 1,733 176 5,210 589 396 502 318	1,800 1,803 184 5,466 632 428 557 336	4.1 4.5 4.9 7.3 8.2 11.0 5.7	18,848 12,806 13,217 16,759 12,978 11,942 12,536 10,564	19,030 12,992 13,708 17,149 13,052 12,162 12,849 11,038	19,596 13,240 14,184 17,947 13,861 13,117 14,290 11,602	1 32 25 6 27 34 24 43	Marshall Meade Mellette Miner Minnehaha Moody Pennington Perkins	306 25 52 2,266 115 1,248 73	319 23 54 2,422 124 1,348 75	341 22 56 2,623 116 1,436 76	6.7 -3.2 3.8 8.3 -6.1	19,489 13,987 11,955 15,792 18,216 17,662 15,279 18,828	19,406 14,198 10,770 16,798 19,067 18,852 16,102 19,695	14,636 10,570 18,022 20,179 17,447 16,896 20,304	53 64 22
Colleton Darlington Dillon Dorchester Edgefield Fairfield Florence	419 840 317 1,227 234 270	436 893 334 1,282 248 276	465 957 356 1,314 264 297	6.8 7.1 6.5 2.5 6.4 7.8	12,133 13,538 10,881 14,648 12,702 12,111 14,786	12,391 14,236 11,430 14,805 13,385 12,269 15,352	13,075 15,034 12,086 14,966 14,156 13,270	26 31 9	Potter Roberts Sanborn Shannon Spink Stanley Sully Todd	56 128 48 60 161 40 50 61	54 125 47 65 165 40 50 67	59 137 49 72 171 41 53 69	9.2 9.9 3.8 9.6 3.6 .9 5.5	17,678 12,942 17,041 6,001 20,265 16,443 31,601 7,292	16,991 12,825 16,821 6,366 20,842 16,419 32,265 7,951	18,901 14,214 17,568 6,826 21,720 16,536 33,851 7,954	11 54 24 66 2 37 1 65
Georgetown Greenville Greenwood Hampton Horry Jasper Lancaster Laurens	673 5,625 884 219 2,200 179 660 753 826	702 5,831 912 223 2,316 185 685 771 877	746 6,084 971 237 2,443 201 713 819	6.3 4.3 6.4 6.6 5.5 8.7 4.1 6.2 7.3	14,427 17,492 14,836 12,036 15,182 11,563 15,143 13,775 14,181	14,681 17,980 15,168 12,160 15,524 11,810 15,503 13,969 14,947	15,260 18,574 16,029 12,855 16,040 12,772 15,870 14,817 15,906	36 12 37 15 19	Tripp Turner Union Walworth Yankton Ziebach Tennessee Metropolitan portion	105 152 166 95 298 27 77,786 57,401	108 150 182 98 320 28 81,831 60,414	108 168 195 104 347 27 88,816 65,458	8.4 -4.8 8.5	15,238 17,669 16,291 15,814 15,415 12,042 15,903 17,354	15,456 17,785 17,624 16,759 16,257 13,210 16,524 18,031	15,625 19,840 18,704 18,079 17,447 12,580 17,674 19,227	43 8 15 21 27 58
Lee Lexington McCormick Marion Marboro Newberry Oconee Orangeburg Pickens Richland Saluda	187 2,950 88 385 305 436 901 1,076 1,314 4,948	202 3,091 92 412 343 456 919 1,111 1,357 5,132	211 3,261 100 440 353 483 954 1,196 1,423 5,455	4.6 5.5 8.2 6.9 3.1 5.9 3.8 7.7 4.9 6.3	10,124 17,463 9,964 11,362 10,373 13,127 15,603 12,657 13,913 17,266	10,884 17,830 10,367 11,985 11,577 13,641 15,757 12,908 14,009 17,621	11,286 18,338 11,082 12,727 11,924 14,447 16,182 13,773 14,425 18,553	4	Anderson Bedford Benton Bledsoe Blount Bradley Campbell Cannon Carroll	20,384 1,111 442 189 103 1,308 1,125 373 137 350	21,418 1,203 458 208 105 1,416 1,173 388 146 370	23,359 1,311 495 210 113 1,546 1,281 422 161 405	8.9 8.1 1.1 8.0 9.2 9.2 8.8 10.0 9.4	12,873 16,244 14,461 12,989 10,587 15,156 15,210 10,604 13,001 12,685	13,371 17,366 14,738 14,024 10,791 16,015 15,648 10,969 13,746 13,370	14,411 18,587 15,589 13,945 11,588 17,098 16,868 11,846 14,944 14,643	6 28 52 91 15 17 86 38 44
Spartanburg Sumter Union Williamsburg York South Dakota Metropolitan portion Nonmetropolitan portion	3,514 1,243 361 391 2,229 10,888 3,772 7,115	3,668 1,309 373 415 2,308 11,427 4,043 7,384	3,932 1,388 406 445 2,448 12,183 4,355 7,828	7.2 6.0 8.8 7.1 6.0 6.6 7.7 6.0	15,447 12,081 11,918 10,632 16,848 15,628 17,032 14,974	15,921 12,523 12,258 11,232	16,887 13,171 13,289 12,004 17,838 17,198 18,869 16,390	8 33 30 40 7	Carter Cheatham Chester Claiborne Clay Cocke Coffee Crockett Cumberland	370 131 291 82 329 637 178 431	388 137 308 87 354 664 192 446	425 151 340 94 396 726 215 486	9.3 10.3 10.3 7.9 11.7 9.2 11.7 9.1	11,636 13,541 10,171 11,115 11,292 11,261 15,722 13,330 12,324	10,663 11,575 12,119 12,095 16,166 14,356 12,363	14,743 11,673 12,559 13,016 13,412 17,429 16,180 13,234	43 88 77 67 59 11 20 61
Aurora Beadle Bennett Bon Homme Brookings Brown Brule Buffalo Butte Campbell	42 293 39 100 337 597 80 19 99	42 297 38 105 367 623 80 21 105 35	46 313 38 118 398 662 85 21 112 39	9.7 5.2 -1.2 12.6 8.5 6.3 5.7 .7 6.5 11.1	13,603 16,032 12,201 14,165 13,342 16,818 14,580 10,713 12,520 15,359	13,752 16,484 12,205 14,934 14,470 17,526 14,435 11,682 12,845 18,051	15,257 17,427 12,363 16,978 15,491 18,641 15,135 11,698 13,393 20,144	34 46 16 51 60 57	Davidson Decatur DeKalb Dickson Dyer Fayette Fentress Franklin Gibson Giles	10,070 116 192 498 517 316 151 455 641 365	10,628 122 205 521 525 340 167 475 672 392 191	11,533 132 224 569 568 370 184 515 742 426	9.4 9.1 8.2 8.8 10.1 8.5 10.3 8.8	19,700 11,086 13,294 14,108 14,796 12,343 10,297 13,085 13,816 14,135	20,721 11,639 14,138 14,528 15,059 13,190 11,322 13,518 14,511 14,892	22,273 12,739 15,320 15,583 16,287 14,233 12,345 14,586 15,986	31 29 19 48 80 45 23 24
Charles Mix Clark Clay Codington Corson Custer Davison Day Deuel Dewey Douglas Edmunds	126 78 167 346 41 91 281 106 60 54	131 79 178 373 45 97 295 102 60 57	143 84 195 403 47 103 321 106 64 60	9.5 6.5 9.3 7.9 5.8 6.7 8.8 4.3 4.9 9.3	13,864 17,773 12,667 15,187 9,768 14,818 16,033 15,262 13,234 9,769 13,242 17,096	14,359 18,330 13,575 16,278 10,667 15,683 16,912 14,859 13,217 10,218 14,596 16,655	15,469 19,379 14,802 17,343 11,126 16,219 18,369 15,570 14,185 10,742	9 52 29 61 40 19 45 55 63	Grainger Greene Grundy Hamblen Hamilton Hardeman Hardim Hawkins Haywood Henderson Henry	181 732 137 721 5,268 56 271 260 590 238 270 381	191 750 146 755 5,385 61 290 277 627 263 280 394	212 794 156 824 5,730 68 312 303 679 294 307 431	5.8 6.9 9.1 6.4 12.5 7.4 9.3	10,533 13,073 10,250 14,230 18,443 8,344 11,579 11,466 13,230 12,278 12,318 13,632	10,908 13,266 10,877 14,865 18,731 9,147 12,339 11,929 13,832 13,527 12,810 14,051	11,910 13,867 11,590 15,948 19,853 10,150 13,111 12,891 14,767 15,080 13,861 15,221	84 54 90 25 4 94 65 69 41 35 55 32

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990–92—Continued

		Total persor		Jona		apita per			- Tersonal income by cou		otal person		icu	Per c	apita per	sonal inc	nome 3
Area name		ions of dolla		Percent change 2		Dollars		Rank in State	Area name		ions of dolla		Percent change 2		Dollars		Rank in State
	1990	1991	1992	1991–92	1990	1991	1992	1992		1990	1991	1992	1991–92	1990	1991	1992	1992
Hickman Houston Humphreys Jackson Jefferson Johnson Knox Lake Lauderdale Lawrence	197 75 199 102 431 132 5,937 75 274 465	208 80 209 107 453 142 6,323 74 286 508	224 84 222 116 490 152 6,813 87 322 553	8.2 6.5 7.8 17.0 12.4	11,667 10,672 12,582 10,907 13,028 9,582 17,634 10,514 11,642 13,134	12,057 11,369 13,213 11,663 13,345 9,482 18,491 10,498 12,181 14,139	12,728 11,640 14,022 12,791 14,100 9,966 19,601 11,911 13,611 15,177	72 89 50 70 49 95 5 83 58 34	Cameron	2,512 161 106 396 160 302 555 91 149 66	2,680 172 109 419 163 326 581 88 146 64	2,968 189 123 445 166 338 627 102 158 75	10.8 10.1 12.8 6.3 1.9 3.5 7.9 15.9 8.1 17.4	9,590 16,255 16,193 13,204 17,796 15,015 13,552 15,267 14,931 14,991	9,923 17,140 16,833 13,931 18,495 16,032 14,355 14,836 14,941 15,304	10,649 18,663 19,039 14,851 19,008 16,433 15,558 16,535 16,361 17,873	242 45 38 175 40 100 144 97 103 62
Lewis Lincoln Loudon McMinn McNairy Macon Madison Marion Marshall Maury	101 386 457 574 283 189 1,206 315 331 802	110 389 478 585 292 201 1,267 330 356 887	124 425 518 627 316 223 1,391 351 398 987	9.4 8.3 7.2 8.1 10.6 9.8 6.4	10,918 13,689 14,530 13,535 12,572 11,864 15,418 12,640 15,239 14,496	11,475 13,727 14,818 13,663 12,908 12,492 16,032 13,126 15,844 15,257	12,592 14,951 15,569 14,394 13,999 13,630 17,340 13,878 17,315 16,517	75 37 30 47 51 57 12 53 13	Coke Coleman Collin Collin Collingsworth Colorado Comal Comanche Concho Coxe Coyel Coyel	44 123 6,231 57 280 933 203 41 454 622	47 123 6,606 52 297 981 195 37 468 604	50 135 7,087 61 304 1,070 211 46 499 705	6.2 9.8 7.3 18.6 2.3 9.1 8.4 22.9 6.6 16.7	12,987 12,717 23,372 15,957 15,271 17,963 15,152 13,543 14,649 9,670	13,975 13,144 23,748 14,846 16,308 18,449 14,755 12,314 15,268 9,808	15,023 14,363 24,363 17,662 16,656 19,393 16,008 15,230 16,116 10,971	167 196 6 66 91 34 121 158 114 238
Meigs Monroe Montgomery Moore Morgan Obion Overton Perry Pickett Polk	95 340 1,318 59 173 486 186 75 50 160	98 361 1,413 62 187 482 195 78 55 169	106 395 1,635 67 207 533 212 86 59 183	9.5 15.7 7.3 10.3 10.6 8.7 9.6 7.1 8.0	11,709 11,108 12,976 12,613 9,974 15,309 10,510 11,270 11,050 11,694	11,852 11,685 13,704 12,944 10,763 15,199 10,992 11,612 12,169 12,291	12,611 12,602 14,868 13,659 11,675 16,889 11,920 12,579 12,970 13,152	73 74 39 56 87 16 82 76 68 64	Cottle Crane Crockett Crosby Culberson Dallam Dallas Dawson Deaf Smith Delta	34 60 59 111 32 107 39,390 224 312 67	33 63 63 88 30 123 41,802 180 331 70	37 64 66 108 32 129 44,812 225 336 75	10.6 2.1 6.1 22.9 6.5 5.1 7.2 24.5 1.7	15,300 12,987 14,486 15,136 9,394 19,596 21,172 15,658 16,253 13,936	15,630 13,305 15,159 12,112 9,244 22,201 22,097 12,737 17,587 14,665	17,793 13,823 16,289 14,990 9,981 23,190 23,420 15,967 17,910 16,072	63 209 105 169 245 10 8 124 61
Putnam Rhea Roane Robertson Rutherford Scott Sequatchie Sevier Shelby Smith	746 299 674 592 1,909 197 105 750 15,460 193	784 305 710 623 2,047 206 113 779 16,118 203	851 330 770 687 2,301 224 122 861 17,274 219	10.4 12.4 8.6 7.3 10.5 7.2	14,446 12,265 14,274 14,202 15,948 10,706 11,784 14,612 18,671 13,607	15,011 12,354 14,874 14,584 16,492 11,095 12,575 14,671 19,281 14,185	16,000 13,040 16,016 15,714 17,875 11,888 13,245 15,749 20,447 15,210	27 8 85 60 26 3 33	Denton De Witt Dickens Dimmit Donley Duval Eastland Ector Edwards Ellis	5,092 265 37 86 62 119 236 1,664 27 1,322	5,354 275 35 92 62 123 245 1,761 29 1,406	5,781 295 38 97 67 139 260 1,820 31	8.0 7.2 8.2 5.8 6.5 12.7 6.2 3.3 6.5 10.1	18,443 14,094 14,615 8,291 16,775 9,272 12,832 14,007 12,031 15,483	18,814 15,017 14,466 8,593 17,708 9,643 13,448 14,600 12,985 16,254	19,614 16,168 15,720 9,213 19,020 10,902 14,561 14,878 12,614 17,577	28 111 135 249 39 239 192 173 228 68
Stewart Sullivan Sumner Tipton Trousdale Unicoi Union Van Buren Warren Washington	111 2,348 1,688 507 65 220 136 45 431 1,427	119 2,458 1,766 543 68 230 146 46 446 1,502	127 2,610 1,922 590 74 249 163 50 486 1,633	8.9 8.7 9.3 7.9 11.4 7.6 8.9 8.7	11,697 16,321 16,270 13,393 10,955 13,313 9,915 9,318 13,020 15,405	12,371 16,956 16,737 14,090 11,458 13,926 10,473 9,421 13,344 15,985	12,524 17,794 17,807 15,044 12,491 14,808 11,579 10,157 14,510 17,199	14	El Paso Erath Falls Fannin Fayette Fisher Floyd Foard Fort Bend Franklin	6,863 436 210 346 323 73 149 34 4,386 111	7,124 435 228 360 344 60 144 29 4,778	7,854 472 239 387 369 74 145 33 5,188 124	10.2 8.5 4.7 7.7 7.1 23.7 1.0 14.7 8.6 8.5	11,508 15,547 11,859 13,962 16,137 15,234 17,616 18,874 19,204 14,084	11,615 15,374 13,063 14,754 17,360 13,020 16,946 16,701 19,765 14,478	12,497 16,587 13,652 15,983 18,411 16,414 17,186 19,831 20,283 15,572	230 93 212 122 50 101 75 26 23 143
Wayne Weakley White Williamson Wilson Texas Metropolitan portion	149 414 238 1,900 1,100 285,497 246,922	162 427 249 2,089 1,158 302,627 262,586	182 471 271 2,318 1,294 326,016 283,066	11.7 7.7	10,641 12,931 11,836 23,221 16,174 16,747 17,353	11,430 13,341 12,250 24,524 16,618 17,440 18,075	11,965 14,753 13,221 26,149 18,181 18,437 19,074	81 42 62 1 7	Freestone Frio Gaines Galveston Garza Gillespie Glasscock	212 141 195 3,787 62 272 27	225 149 168 4,023 60 297 24	244 162 202 4,317 72 318 30	8.3 9.0 20.1 7.3 18.2 7.3 27.4	13,403 10,379 13,841 17,344 12,145 15,822 18,492	14,329 10,289 11,836 18,032 12,014 17,064 16,369	15,609 10,661 14,141 18,928 14,416 17,972 21,129	140 241 201 42 194 59 19
Anderson Andrews Angelina Aransas Archer Armstrong Austin Bailey Bandera Bastrop Baylor Bee Bee Bell Bexar Blanco Borden Bosque	38,575 558 197 1,027 257 129 32 358 320 116 168 499 71 290 2,676 18,553 98 17	40,041 580 201 1,096 276 128 33 372 328 120 178 533 68 304 2,715 19,683 105 13 217	42,951 624 215 1,165 293 139 38 405 345 119 189 580 74 317 3,087 21,365 111 16	6.3 6.2 9.1 14.0 8.6 5.4 3 5.9 8.8 9.5 4.2 13.7 8.5 6.4 23.0	11,643 13,763 14,666 14,409 16,234 15,869 11,717 16,565 15,813 13,053 16,168 11,599 13,982 15,618 16,381 20,834 14,260	14,178 12,124 13,790 15,499 14,975 16,464 11,941 16,201 17,309 16,533 13,795 16,016 12,051 14,338 16,311 16,722 17,605 14,414	15,110 13,023 14,747 16,181 15,323 18,090 19,436 12,853 16,654 17,592 17,000 14,662 17,758 16,196 17,326 16,688 22,579 15,262	221 179 110 154 56 33 224 92 67 83 185 64 226 109 70 90	Goliad Goliad Gonzales Gray Grayson Gregg Grimes Guadalupe Hall Hamilton Hardeman Hardeman Harris Harrison Harrison Hartley Hays Hemphill Hemphill Hays Hemphill Hays Hemphill Hays Harrison H	76 231 419 1,527 1,815 239 910 513 61 117 141 81 57,080 789 99 105 879 63	81 247 430 1,582 1,903 245 965 500 51 125 148 76 625 61,644 822 105 91 949	30 86 271 460 1,656 2,040 2600 1,051 518 59 135 161 82 674 66,265 877 112 108 1,041	5.8 9.6 7.0 4.7 7.2 6.1 9.0 3.6 15.0 8.2 8.7 8.5 7.9 7.5 6.8 17.7 9.7 4.4	12,657 13,488 17,631 16,073 17,272 12,663 13,994 14,796 15,625 15,160 24,175 15,453 13,870 20,140 13,731 27,303 15,583 13,361 16,990	18,288 16,578 17,801 12,843 14,671 14,398 13,218 16,565 26,145 15,276 14,740 21,217 14,405 28,987 13,705 14,177	14,157 15,846 19,647 17,418 18,900 13,432 15,783 14,721 15,437 18,110 28,701 16,535 15,491 22,298 15,346 30,630 16,240 15,213 20,958	200 127 27 69 43 217 129 180 148 55 3 98 146 14 153 2 108 159 20
Bowie Brazoria Brazos Brewster Briscoe Brooks Brown Burleson Burnet Caldwell Calhoun Callahan	1,271 3,243 1,522 114 37 77 448 179 351 313 262 154	1,305 3,464 1,617 114 33 81 464 190 375 330 273 160	1,378 3,604 1,743 119 37 89 496 207 393 360 293 173	5.6 4.0 7.7 4.4 11.1 9.4 6.8 8.5 4.8 9.2 7.3	15,529 16,837 12,481 13,191 19,237 9,453 13,062 13,122 15,511 11,897 13,724 13,109	15,935 17,402 13,173 13,431 17,838 10,052 13,465 13,965 16,501 12,441 14,038 13,551	16,751 17,681 13,923 13,777 19,557 10,855 14,510 14,831 17,040 13,423 14,567 14,619	88 65 208 210 30 240 193 176 81 218 191	Henderson Hidalgo Hill Hockley Hood Hopkins Houston Howard Hudspeth Hunt Hutchinson	776 3,487 357 310 517 441 304 484 28 955 430	808 3,771 379 326 556 447 316 492 22 1,000 457	73 874 4,126 407 361 606 498 335 515 26 1,072 469	8.9 11.4 6.0 4.8 18.6 7.2 2.7	13,535 9,008 13,111 12,810 17,884 15,326 14,243 15,031 9,559 14,843 16,835	13,705 9,386 13,922 13,359 18,448 15,477 14,828 15,302 7,438 15,628	14,615 9,802 14,891 14,702 19,485 17,223 15,724 16,024 8,684 16,509 18,507	

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990–92—Continued

				Jonai			sonal inc		Tersonal income by cou	1			lou	Dor o	anita nar	sonal inc	
Area name		Total persor		Percent	Per c	Dollars	sonai inc	Rank in	Area name		Total person		Percent	Per ci	Dollars	sonai inc	Rank in
Alea hame	1990	1991	1992	change ²	1990	1991	1992	State 1992	Alea hame	1990	1991	1992	change ²	1990	1991	1992	1992
Irion	26 92 193	29 97 213	30 102 218	4.7 5.3	16,242 13,219 14,859	18,139 14,391 16,613	18,543 15,105	47 163 85	Schleicher Scurry	36 256 53 294	37 255 56 309	40 274 58 341	6.9 7.4 4.5 10.2	11,850 13,741 16,099 13,378	12,280 13,859 17,063 14,047	13,061 14,660 18,016 15,646	220 186 58 136
Jasper Jeff Davis Jefferson Jim Hogg Jim Wells Johnson Jones Kames Kaufman Kondt	412 27 4,024 58 436 1,450 225 147 767 288	441 28 4,313 64 467 1,501 210 156 806 311	481 29 4,644 68 497 1,619 235 166 869 338	9.0 2.4 7.7 6.9 6.4 7.9 12.0 6.7 7.9 8.6	13,278 13,832 16,814 11,445 11,589 14,913 13,720 11,818 14,617 19,638	14,184 14,784 17,864 12,632 12,273 15,249 13,027 12,680 15,021 20,386		150 164 37 216 222 112 170 213 123 18	Sherman Smith Somervell Starr Stephens Sterling Stonewall Sutton Swisher Tarrant	88 2,560 79 215 122 15 34 58 167 22,527	97 2,685 86 240 127 17 33 65 177 23,587	103 2,880 92 270 135 20 36 66 181 25,351	5.3 7.3 7.0 12.7 6.6 17.2 9.8 2.2 2.6 7.5	31,174 16,906 15,034 5,261 13,664 10,188 17,081 14,001 20,727 19,149	34,234 17,532 16,244 5,592 14,686 11,502 16,353 14,973 22,209 19,617	36,822 18,648 16,586 6,015 15,764 12,964 18,072 15,591 21,872 20,778	1 46 94 254 132 223 57 141 17
Kenedy Kent Kerr Kerr Kimble King Kinney Kleberg Knox Lamar Lama	13 652 54 6 28 350 73 648 238	10 12 687 58 6 32 389 70 673 226	14 730 63 6 34 390 76 730 243	17.5 6.2 8.2 -9.5 6.4 .3 8.0 8.4	12,437 17,951 13,067 15,932 9,091 11,627 14,972 14,724 15,909	12,564 18,796 14,063 19,697 10,126 12,978 14,740 15,331 15,228	12,845 15,907 16,585 16,576	168 29 157 74 243 225 125 95	Taylor Terrell Terry Throckmorton Titus Tom Green Travis Trinity Tyler Upshur	1,871 23 181 46 366 1,513 10,641 143 215 408	1,947 24 182 40 386 1,582 11,289 149 233 440	2,081 25 200 43 418 1,684 12,307 160 248 475	6.9 4.9 10.2 7.3 8.3 6.5 9.0 7.7 6.4 8.0	15,658 16,387 13,737 24,832 15,213 15,401 18,355 12,550 12,928 12,997	16,438 17,208 13,888 22,098 15,980 16,151 18,951 13,009 13,823 13,734	17,263 18,434 15,417 24,378 17,132 16,993 20,072 13,947 13,942 14,674	71 49 149 5 80 84 24 206 207 183
Lampasas La Salle Lavaca Lee Leon Liberty Limestone Lipscomb Live Oak Llano	177 555 277 171 175 728 279 58 112 187	184 588 289 183 189 787 298 57 125 199	200 64 309 201 204 847 315 60 140 210	9.6 7.1 10.2 8.1 7.6 5.6 6.5 11.9 5.3	13,110 10,333 14,881 13,359 13,858 13,769 13,367 18,713 11,748 16,133	13,656 10,758 15,510 14,300 14,747 14,648 14,337 18,357 12,841 17,141	15,586 15,779 15,442 15,264 19,970 14,273 17,969	234 86 142 130 147 155 25 198 60	Upton Uvalde Val Verde Van Zandt Victoria Walker Waller Ward Washington	60 277 391 512 1,223 576 325 178 456	60 291 424 538 1,327 588 347 184 474	65 309 454 577 1,415 626 375 183 503 1,542	9.0 6.3 7.2 7.3 6.7 6.4 8.1 4 6.1	13,732 11,862 10,111 13,476 16,399 11,320 13,884 13,661 17,456	14,004 12,326 10,615 13,968 17,535 11,348 15,044 14,373 18,166	15,632 12,774 11,167 14,864 18,371 11,881 15,733 14,647 18,962 10,387	137 227 236 174 51 232 133 187 41
Loving Lubbock Lynn McCulloch McLennan McMullen Madison Marin Marin	3 3,521 111 116 2,776 15 145 120 78 50	3 3,626 90 121 2,916 17 153 126 62 52	4 3,860 116 130 3,117 18 167 135 69 55	14.3 6.5 28.7 7.2 6.9 4.4 9.1 7.3 12.0 6.1	26,589 15,801 16,507 13,303 14,648 18,896 13,299 12,061 15,752 14,753	30,772 16,181 13,375 14,625 15,289 21,485 13,895 12,679 12,937 15,604	25,184 17,185 17,220 15,851 16,272 21,952 15,108 13,537 14,204 16,389	4 76 73 126 106 16 162 214 199 102	Webb Wharton Wheeler Wichita Wilbarger Willacy Williamson Wilson Winkler Wise	1,208 595 96 1,977 231 135 2,180 293 104 497	1,356 614 101 2,060 219 149 2,370 311 109 505	640 106 2,192 237 170 2,625 339 114 549	13.7 4.4 4.9 6.4 8.7 14.1 10.8 9.0 5.1 8.8	8,972 14,924 16,553 16,180 15,348 7,615 15,501 12,858 12,171 14,291	9,624 15,461 17,810 17,042 14,781 8,303 16,183 13,356 12,676 14,279	16,055 19,216 18,204 16,293 9,299 17,146 14,278 13,522 15,350	244 118 36 53 104 248 79 197 215
Matagorda Maverick Medina Menard Midland Millam Mills Mitchell Montague Montgomery	534 254 341 28 2,223 314 66 110 238 3,174	595 279 364 30 2,417 337 66 105 249 3,443	593 312 390 33 2,550 362 72 115 269 3,730	4 12.1 7.4 12.0 5.5 7.6 9.7 9.3 8.1 8.3	14,516 6,900 12,426 12,428 20,828 13,695 14,546 13,824 13,838 17,235	15,791 7,192 12,977 13,568 22,159 14,789 14,569 13,659 14,537 17,810	15,622 7,687 13,708 14,795 22,880 15,836 16,024 15,028 15,772 18,313	138 253 211 177 11 128 120 166 131 52	Wood Yoakum Young Zapata Zavala Utah Metropolitan portion Nonmetropolitan portion	411 124 300 72 86 24,320 19,444 4,876	429 129 308 79 93 26,076 20,910 5,166	465 147 330 86 100 28,206 22,615 5,591	8.4 14.4 7.1 9.4 7.0 8.2 8.2 8.2	13,986 14,204 16,651 7,727 7,054 14,063 14,500 12,554	14,583 14,773 17,319 8,248 7,571 14,759 15,269 13,001	15,620 16,720 18,747 8,743 8,094 15,573 16,117 13,703	139 89 44 250 252
Moore Morris Motley Nacogdoches Navarro Newton Nolan Nueces Ochiltree Oldham	274 172 23 722 565 137 228 4,440 169 47	295 185 23 755 598 149 229 4,756 156 52	303 196 23 815 646 161 245 5,118 173 52		15,403 13,105 15,353 13,179 14,155 10,149 13,762 15,213 18,544 20,871	16,337 14,116 15,561 13,768 15,055 11,067 14,049 16,034 17,539 23,583	11,952 15,199 17,013 19,533	160 82 31	Beaver Box Elder Cache Carbon Daggett Davis Duchesne Emery Gaffield Grand	60 516 869 286 9 2,621 144 124 47 81	61 531 922 294 9 2,790 153 129 48 84	65 564 996 314 10 2,998 171 138 51	6.2 6.2 8.1 6.5 8.0 7.5 11.4 7.7 6.6 13.8	11,993 11,982	12,766 14,397 12,851 14,558 12,185 14,371 11,998 12,414 12,039 12,448	13,504 12,631	15 6 12 5 16 7 17 13 22 14
Orange Palo Pinto Panola Parker Parmer Pecos Polk Potter Presidio Rains	1,144 347 288 1,033 201 148 425 1,462 59 87	1,238 357 294 1,080 221 156 450 1,564 63	1,336 381 312 1,164 224 165 491 1,713 66	7.9 6.9 6.1 7.8 1.1 5.9 9.1 9.6 4.5 7.6	14,196 13,868 13,075 15,827 20,343 10,131 13,767 14,942 8,711 12,903	15,119 14,264 13,355 16,254 22,321 10,773 14,092 15,847 9,545 13,310	15,524 14,130 17,165 22,461 11,526 14,635 17,177 9,648	116 145 202 78 13 235 188 77 247 204	Iron Juab Kane Millard Morgan Piute Rich Salt Lake San Juan Sanpete	232 64 64 139 71 13 21 11,420 103 174	241 69 66 145 75 13 26 12,260 107 186	266 75 72 150 81 14 27 13,291 123 198	10.1 7.8 8.7 3.4 8.3 5.9 3.5 8.4 14.4 6.1	11,105 11,027 12,295 12,299 12,786 10,332 12,071 15,668 8,132 10,694	11,333 11,753 12,910 12,700 13,365 10,437 15,439 16,455 8,839 10,892	12,154 12,556 13,788 13,002 14,022 11,079 15,859 17,408 9,609 11,229	25 23 11 19 9 28 4 2 29 27
Randall Reagan Real Red River Reeves Refugio Roberts Robertson Rockwall Runnels	1,580 49 29 182 164 125 19 190 558 156	1,648 54 32 187 169 140 20 197 589 154	1,769 51 35 202 184 142 21 214 637 164	7.3 -5.1 8.9 8.2 8.9 1.3 4.6 8.8 8.3 6.5	17,618 10,922 12,167 12,761 10,393 15,810 18,402 12,229 21,533 13,875	18,207 12,071 13,436 13,323 10,765 17,976 19,705 12,816 21,647 13,954	14,675 11,830 18,145 20,308 14,097 21,993	35 237 195 182 233 54 22 203 15 165	Sevier Summit Tooele Uintah Utah Wasatch Washington Wayne Weber Marmont	183 348 357 240 3,015 126 582 23 2,388	193 378 377 257 3,313 137 640 24 2,547	205 416 408 277 3,590 149 701 26 2,736	6.0 9.9 8.2 8.0 8.4 9.1 9.5 11.9 7.4	11,852 22,102 13,381 10,749 11,399 12,451 11,852 10,494 15,049	12,405 22,263 13,910 11,157 12,314 13,093 12,236 10,757 15,803	12,948 22,859 14,810 11,781 13,052 13,929 12,660 12,441 16,616	
Rusk	639 125 96 191 697 75	663 132 102 199 757 77	703 142 110 218 799 86	9.6 5.6	14,602 13,095 12,106 11,634 11,848 13,982	15,154 13,660 12,980 11,856 12,689 14,869	13,955 12,558 13,186	178 205 229 219	Vermont Metropolitan portion Nonmetropolitan portion Addison Bennington	9,846 3,359 6,487 514 661	10,077 3,448 6,629 533 671	10,737 3,652 7,085 572 714	6.5 5.9 6.9 7.3 6.4	17,444 18,907 16,772 15,519 18,437	17,750 19,207 17,076 15,926 18,808	16,882	9

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

	ı	Fotal persor			1	apita per			reisonal income by cou	-	Total persor			Per c	apita pe	rsonal in	come 3
Area name	Mill	ions of dolla	ars	Percent change 2		Dollars		Rank in State	Area name	Mill	ions of dolla	ars	Percent change 2		Dollars		Rank in State
	1990	1991	1992	1991–92	1990	1991	1992	1992		1990	1991	1992	1991–92	1990	1991	1992	1992
Caledonia Chitenden Essex Franklin Grand Isle Lamoille Orange Orleans Rutland Washington	409 2,661 74 602 96 335 387 336 1,027 969	421 2,731 77 618 100 347 390 346 1,060 980	459 2,876 83 670 106 374 419 373 1,125 1,038	9.0 5.3 7.8 8.3 6.8 7.4 7.6 6.1 6.0	14,615 20,151 11,524 14,962 17,873 16,890 14,694 13,919 16,502 17,592	14,958 20,510 11,983 15,127 17,988 17,093 14,680 14,232 16,990 17,770	16,236 21,430 12,646 16,171 18,919 18,227 15,627 15,226 18,009 18,729	1 14 11 5 7 12 13	Independent Cities: Alexandria	3,387 2,595 2,027 2,648 3,878 1,534 4,680 1,759 830	3,499 2,756 2,156 2,769 4,011 1,607 4,743 1,804 874	3,706 2,940 2,268 2,949 4,267 1,695 5,037 1,937 915	5.9 6.7 5.2 6.5 6.4 5.5 6.2 7.4 4.7	30,442 16,914 15,119 15,501 14,851 14,778 23,012 18,200 15,867	17,324 15,896 16,109 15,869 15,506 23,385	32,761 17,712 16,551 16,632 16,815 16,237 24,902 20,024 17,182	55 5 20
Windham Windsor	762 1,013	778 1,025	1,086	8.3 5.9	18,295 18,717	18,772 18,890	20,236 19,977	2	Virginia Beach	7,495	7,890	8,429	6.8	18,928			
Virginia Metropolitan portion Nonmetropolitan portion	121,397 100,583 20,813	126,206 104,820 21,386	133,534 110,959 22,575	5.8 5.9 5.6	19,543 20,979 14,685	20,071 21,568 14,976	20,883 22,396 15,677		Combination Areas: 5 Albemarle + Charlottesville Alleghany, Clifton Frg. +	2,189	2,293	2,411	5.1		21,015		
Accomack Amelia Amherst Appomattox Arlington Bath Bland	464 133 382 178 5,166 80 78	472 137 391 185 5,337 83 80	496 145 408 195 5,640 89 84	5.1 5.5 4.4 5.2 5.7 6.8 5.6	14,649 15,083 13,326 14,493 30,248 16,699 11,933	14,813 15,338 13,562 14,797 31,293 17,480 12,251	15,504 15,735 14,050 15,530 32,872 18,648 12,690	91 67 1 26	Covington Augusta, Staunton + Waynesboro Bedford + Bedford City Campbell + Lynchburg Carroll + Galax Dinwiddle, Col. Hts. + Petersburg Fairfax, Fairfax City + Falls Church	365 1,676 887 1,909 420 1,279 24,591	378 1,690 929 1,946 432 1,322 26,105	398 1,764 982 2,038 460 1,387	5.3 4.4 5.7 4.7 6.3 5.0	14,735 17,096 17,052 16,776 12,599 16,936 28,895	17,096 17,442 17,015 12,925 17,371	17,991 17,753 13,676 18,040	29
Botetourt Brunswick Buchanan	398 188 458	415 195 466	442 202 491	6.3 3.4 5.4	15,885 11,784 14,655	16,268 12,127 14,717	17,110 12,422 15,509	43 104	Church Frederick + Winchester Greensville + Emporia	1,196 199	1,226 217	1,290 229	5.2 5.6	17,504 14,062	17,592 13,825	18,205 13,607	28 97
Buckingham Caroline Charles City Charlotte Chesterfield Clarke	163 284 93 145 4,543 224	172 286 95 150 4,635 232	183 303 101 159 4,878 242	6.1 5.8 6.1 6.3 5.3 4.1	12,623 14,697 14,717 12,364 21,493 18,516	13,251 14,441 15,117 12,687 21,239 19,374	14,053 15,078 15,838 13,433 21,660 20,170	62 98 12 17	Halifax + South Boston	487 1,215 941 1,169 1,575 769	500 1,211 984 1,182 1,614 798	528 1,278 1,035 1,238 1,717 845	5.5 5.5 5.2 4.7 6.4 6.0	13,491 16,622 20,142 12,972 14,461 15,173	20,546 13,166 14,775	13,657 15,705	36 13 96 64
Craig Culpeper Cumberland Dickenson	58 498 117 213	60 506 124 227	63 523 129 245	4.6 3.5 4.0 7.7	13,234 17,708 14,925 12,138	13,386 17,640 15,853 12,811	14,065 17,963 16,393 13,788	32 50	Manassas Park Roanoke + Salem Rockbridge, Buena Vista + Lexington	4,855 2,142 451	5,053 2,175 469	5,365 2,296 490	6.2 5.6 4.4	19,239 20,761 14,180	19,534 20,954 14,673	20,100 22,139 15,230	10
Essex Fauquier Floyd Fluvanna Franklin	133 1,155 163 198 568 234	138 1,190 171 207 577 239	149 1,236 176 222 618 250	7.4 3.9 3.3 7.0 7.2 4.7	15,260 23,581 13,556 15,721 14,298 14,311	15,762 23,961 14,050 15,590 14,228 14,610	16,701 24,389 14,240 15,853 15,107 15,272	87 60 77	Rockingham + Harrisonburg Southampton + Franklin Spotsylvania + Fredricksburg Washington + Bristol Wise + Norton	1,423 401 1,419 948 635	1,498 418 1,452 988 663	1,597 440 1,543 1,041 705	5.3 6.3 5.4 6.4	16,057 15,732 18,286 14,724 14,491	18,163 15,254 15,067	17,525 17,209 18,753 16,004 15,965	40 24 57 58
Giles Gloucester Goochland Grayson Greene	484 328 194 149	506 340 201 154	536 361 214 164	6.0 5.9 6.5 6.4	15,986 23,088 11,917 14,347	16,488 23,372 12,466 14,084	17,137 24,054 13,247 14,206	42 8 101	York + Poquoson	1,054 94,420 81,190 13,230	1,114 100,758 86,711 14,046	1,176 109,485 94,300 15,186	5.5 8.7 8.8 8.1	19,615 19,268 19,967 15,857	20,087 20,831	21,289 22,084	
Hanover Henrico Highland Isle of Wight King and Queen King George King William Lancaster Lee Loudoun	1,266 5,155 39 414 97 249 197 236 267 2,141	1,280 5,305 40 437 100 261 204 247 278 2,198	1,353 5,564 41 455 110 270 217 254 300 2,332	5.7 4.9 2.8 4.3 10.1 3.4 6.3 2.8 8.1 6.1	19,843 23,604 14,629 16,431 15,418 18,245 17,901 21,619 10,917 24,587	19,486 24,073 15,539 17,006 15,877 18,699 18,208 22,660 11,405 24,403	19,972 24,933 15,926 17,405 17,448 18,851 18,756 23,286 12,314 24,743	39 38 22 23 9 105	Adams Asotin Benton Chelan Clallam Clark Columbia Cowlitz Douglas Ferry	248 267 2,000 909 982 4,305 69 1,374 396 83	239 291 2,192 983 1,037 4,537 67 1,485 429 86	267 315 2,423 1,065 1,106 4,909 74 1,541 480 91	12.1 8.2 10.5 8.3 6.6 8.2 11.0 3.7 12.0 5.2	18,213 15,069 17,621 17,369 17,287 17,880 17,268 16,663 15,001 13,038	16,132 18,821 18,550 17,847 18,004 17,191 17,659 15,513	18,693 17,010 20,122 19,732 18,532 18,837 18,757 18,102 16,823 13,476	26 5 7 15 10 12 18 28
Louisa Lunenberg Madison Mathews Mecklenburg Middesex Nelson New Kent Northampton Northumberland	309 146 163 158 415 150 181 182 194 183	313 147 170 162 429 157 186 189 195	331 154 178 171 451 165 196 198 207 203	5.8 4.7 4.2 5.5 5.2 5.3 4.9 5.0 6.0 7.4	15,084 12,807 13,585 18,932 14,207 17,269 14,154 17,273 14,838 17,385	19,393 14,572 17,748 14,295 17,425 15,004	20,402 15,194 18,542 14,940 17,994 16,021	14 75 27 81	Franklin Garfield Grant Grays Harbor Island Jefferson King Kitsap Kititas Klickitat	538 42 788 995 985 359 37,272 3,324 397 251	584 41 853 1,052 1,051 389 39,802 3,635 417 257	633 43 957 1,133 1,137 419 43,251 3,945 454	8.4 4.8 12.2 7.7 8.2 7.8 8.7 8.5 8.9 6.4	14,328 15,457	18,378 14,983 16,263 16,799 18,215 25,947 18,145 15,074	19,236 16,289 17,295 17,363 18,765 27,769 18,717 16,251	8 31 23 22 11 1 13 32
Nottoway Orange Page Patrick Powhatan Prince Edward Pulaski Rappahannock Richmond Russell	207 345 303 240 241 214 463 125 106 351	216 350 317 245 246 219 457 131 107 368	226 365 338 257 261 232 482 136 113 388	4.8 4.4 6.4 4.9 6.0 6.1 5.5 3.5 5.4	13,771 15,999 13,912 13,760 15,599 12,307 13,418 18,745 14,557 12,246	14,793	15,560 13,146 13,960 20,075 15,417	54 76 85 66 102 92 19 71	Lewis Lincoln Mason Okanogan Pacific Pend Oreille Pierce San Juan Skagit Skamania	921 174 551 481 280 117 10,038 245 1,429	962 168 600 520 298 126 10,505 267 1,533 141	1,038 182 651 599 323 138 11,377 284 1,643	7.8 8.8 8.6 15.3 8.4 10.0 8.3 6.7 7.2 4.3	15,451 19,607 14,236 14,409 14,748 13,076 17,002 24,108 17,767 15,990	18,752 14,679 15,471 15,564 13,703 17,363 25,044 18,328	17,483 16,527 14,326 18,361 26,108 19,057	4 35 21 30 38 16 2
Scott Shenandoah Smyth Stafford Surry Sussex Tazewell Warren Westmoreland Wythe	287 502 433 1,057 93 148 640 426 231 347	303 516 454 1,112 93 152 660 438 238 360	321 546 484 1,174 97 161 704 454 254 380	6.0 5.7 6.7 5.6 3.7 6.2 6.7 3.6 6.7 5.8	12,388 15,769 13,367 16,963 15,027 14,501 13,910 16,170 14,832 13,626	14,957	13,827 16,903 14,747 16,557 15,224 15,845 15,026 16,366 15,689	84 48 74 61 80 52 65	Snohomish Spokane Stevens Thurston Wahkiakum Walla Whatcom Whitman Yakima	8,768 5,922 410 2,946 55 742 2,157 530 2,935	9,416 6,354 445 3,207 57 770 2,335 535 3,093	10,355 6,888 482 3,496 62 838 2,508 578 3,379	10.0 8.4 8.3 9.0 8.4 8.9 7.4	18,613 16,320 13,190	19,413 17,091 13,983 18,925 17,042 15,431 17,518 13,933	20,653 18,069 14,447 19,801 17,976 16,610 18,184 15,081	3 19 37 6 20 29 17 36

Table 2.—Total Personal Income and Per Capita Personal Income by County, 1990-92—Continued

	Т	otal person	al income		Per c	apita pe	sonal in	come ³		-	otal person	al income		Per d	apita pei	rsonal inc	come ³
Area name	Milli	ions of dolla	ars	Percent change 2		Dollars		Rank in State	Area name	Mill	ions of dolla	ars	Percent change 2		Dollars		Rank in State
	1990	1991	1992	1991–92	1990	1991	1992	1992		1990	1991	1992	1991–92	1990	1991	1992	1992
West Virginia Metropolitan portion Nonmetropolitan portion	25,034 11,845 13,189	26,440 12,429 14,012	28,215 13,238 14,976	6.7 6.5 6.9	13,964 15,824 12,631	14,695 16,527 13,380	15,598 17,507 14,227		Fond du Lac	1,572	1,634 103	1,754 114 745	7.3	17,421 11,230	17,975 11,655	12,746	69
Barbour Berkeley Boone Braxton Brooke Cabell Calhoun Clay Doddridge Fayette	168 879 345 147 376 1,512 76 90 72 558	177 942 371 150 384 1,596 80 96 75 602	190 1,016 396 159 403 1,708 88 104 81	7.3 7.8 6.6 6.2 4.9 7.0 10.7 8.2 7.1 6.7	10,705 14,694 13,383 11,272 13,923 15,636 9,670 9,031 10,293 11,661	11,319 15,290 14,241 11,429 14,230 16,526 10,133 9,610 10,622 12,598	11,996 16,103 14,921 12,136 15,055 17,713 11,117 10,328 11,337 13,401	45 10 19 44 18 4 51 55 50 32	Grant Green Green Lake Green Lake	698 540 300 297 79 229 1,090 288 2,163	713 549 308 307 87 238 1,126 304 2,270	745 585 327 332 91 256 1,198 321 2,421	4.6 6.5 6.1 8.1 5.0 7.4 6.3 5.3 6.7	14,148 17,783 16,054 14,734 12,882 13,812 16,023 13,309 16,805	14,527 17,922 16,424 15,107 13,999 14,276 16,451 13,787 17,242 14,661	15,154 18,840 17,365 16,178 14,458 15,300 17,315 14,442 18,071	24 34 54
Gilmer Grant Greenbrier Hampshire Hancock Hardy Harrison Jackson Jefferson Kanawha	80 148 475 190 590 143 998 313 572 3,685	87 160 507 201 592 153 1,064 330 588 3,855	92 166 542 216 626 168 1,132 365 616 4,114	6.8 3.7 6.8 7.5 5.8 9.9 6.4 10.6 4.7 6.7	10,499 14,211 13,701 11,461 16,758 13,010 14,413 12,078 15,817 17,771	11,578 15,176 14,504 11,722 16,788 13,667 15,319 12,691 15,921 18,597	12,325 15,555 15,360 12,339 17,802 14,877 16,160 13,980 16,360 19,803	43 15 16 42 3 20 9 28 7 2	La Crosse Lafayette Langlade Lincoln Manitowoc Marathon Marinette Marquette Milwaukee	1,667 245 261 370 1,266 1,872 588 167 17,814	1,744 244 273 390 1,333 1,943 622 174 18,375	1,864 249 298 416 1,413 2,093 654 184 19,511	6.8 1.9 9.0 6.9 6.0 7.8 5.1 5.6 6.2	16,988 15,244 13,392 13,653 15,734 16,180 14,461 13,499 18,575	17,718 15,251 13,877 14,185 16,503 16,636 15,220 13,803 19,215	18,784 15,480 15,066 14,970 17,394 17,735 15,950 14,219 20,497	15 39 48 50 23 19 36 60 5
Lewis Lincoln Logan McDowell Marion Marshall Mason Mercer Mingo	203 201 539 368 824 506 306 944 346 415	216 210 575 383 866 530 319 1,000 366 447	228 229 617 409 896 555 344 1,056 380 484	5.6 9.3 7.4 6.7 3.5 4.8 7.8 5.6 3.9 8.2	11,837 9,403 12,567 10,521 14,407 13,565 12,169 14,552 12,970 12,334	12,595 9,775 13,331 11,118 15,103 14,259 12,706 15,442 13,639 13,201	13,169 10,579 14,361 11,988 15,572 14,868 13,814 16,231 14,086 14,395	33 53 24 46 14 21 29 8 27 23	Monroe Oconto Oneida Outagamie Ozaukee Pepin Pierce Polk Portage Price	491 399 500 2,483 1,821 100 503 486 917 225	517 406 534 2,622 1,908 100 525 503 958 235	557 431 578 2,832 2,042 107 559 543 1,057 250	7.7 6.4 8.2 8.0 7.0 7.0 6.5 8.0 10.4 6.3	13,351 13,165 15,730 17,618 24,887 14,033 15,335 13,945 14,912 14,403	25,584 14,103 15,853 14,278 15,379 14,998		61 22 9 1 47 31 44 30 35
Monongalia Monroe Morgan Nicholas Ohio Pendleton Pleasants Pocahontas Preston Putnam	1,139 146 160 319 925 98 103 107 350 625	1,220 152 174 333 979 108 108 114 363 674	1,341 158 188 348 1,035 115 119 124 382 725	10.0 4.2 7.9 4.7 5.7 6.7 10.1 8.5 5.3 7.6	15,072 11,794 13,149 11,906 18,227 12,230 13,634 11,956 12,041 14,531	16,024 12,172 13,997 12,437 19,505 13,413 14,270 12,813 12,417 15,253	17,306 12,589 14,701 12,901 20,640 14,333 15,733 13,755 12,990 15,986	6 38 22 35 1 25 12 30 34 11	Racine Richland Rock Rusk St. Croix Sauk Sawyer Sheboygan Taylor Trempealeau	3,270 222 2,365 173 927 768 173 1,806 249 359	3,440 229 2,404 177 960 797 185 1,855 247 368	3,614 244 2,637 185 1,046 853 201 1,987 271 388	5.0 6.9 9.7 4.6 8.9 7.0 8.9 7.2 9.6 5.5	18,641 12,631 16,906 11,440 18,357 16,277 12,169 17,345 13,156 14,203	19,361 12,992 17,036 11,711 18,731 16,725 12,764 17,767 13,066 14,507	20,131 13,786 18,474 12,305 20,072 17,563 13,557 18,921 14,255 15,263	16 71 7 21 66 13 59
Raleigh Randolph Ritchie Roane Summers Taylor Tucker Tyler Upshur Wayne	1,064 338 111 153 140 155 93 111 266 477	1,145 368 117 164 152 167 100 117 277 503	1,216 398 127 178 163 177 106 124 289 539	6.2 8.3 8.9 8.9 7.7 6.3 6.4 5.6 4.1 7.1	13,854 12,146 10,803 10,187 9,897 10,280 12,085 11,381 11,611 11,469	14,840 13,070 11,488 10,851 10,864 10,985 12,914 11,928 12,010 12,011	15,705 14,142 12,596 11,784 11,539 11,702 13,688 12,570 12,538 12,832	13 26 37 47 49 48 31 39 40 36	Vemon Vilas Walworth Washburn Washington Waukesha Waupaca Waushara Winnebago Wood	333 254 1,232 173 1,863 7,082 702 280 2,488 1,283	339 268 1,295 185 1,948 7,386 743 285 2,613 1,337	362 286 1,374 197 2,092 7,960 804 302 2,821 1,429	7.0 6.7 6.1 6.7 7.4 7.8 8.1 5.7 7.9 6.9	12,996 14,290 16,372 12,510 19,436 23,131 15,200 14,446 17,677 17,405	19,757 23,563 15,904 14,538 18,301 17,998	13,933 15,372 17,709 13,945 20,591 24,850 16,978 15,035 19,479 19,122	62 4 2 28 49 10 12
Webster Wetzel Wirt Wood Wyoming	97 260 51 1,352 323	99 279 53 1,420 338	109 292 58 1,521 361	10.0 4.8 9.6 7.1 6.9	9,036 13,532 9,781 15,546 11,151	9,370 14,534 10,050 16,298 11,647	10,390 15,241 10,868 17,383 12,346	54 17 52 5 41	Shawano (incl. Menominee) Wyoming Metropolitan portion Nonmetropolitan portion	507 7,664 2,484 5,180	531 8,278 2,603 5,675	570 8,659 2,716 5,943	7.4 4.6 4.3 4.7	12,335 16,905 18,494 16,236	19,173	13,726 18,631 19,675 18,190	
Wisconsin Metropolitan portion Nonmetropolitan portion	85,288 62,184 23,105	88,812 64,806 24,006	95,049 69,382 25,667	7.0 7.1 6.9	17,399 18,625 14,781		20,395		Albany	415 145 517 280 169	448 154 578 295 178	467 160 607 303 187	4.3 3.7 4.9 2.5 5.3	13,883 17,590	14,665 14,685 19,345 17,998 15,925	15,082	22 6 8
Adams Ashland Barron Bayfield Brown Buffalo Burnett Calumet Chippewa Clark	179 214 582 183 3,522 212 154 551 777 417	188 228 611 192 3,707 212 161 567 804 421	201 238 648 202 3,996 221 174 612 866 461	6.9 4.1 6.1 5.4 7.8 4.6 7.6 8.0 7.7 9.5	11,393 13,155 14,258 13,070 18,037 15,587 11,737 16,047 14,837 13,185	11,687 14,074 14,877 13,602 18,684 15,645 12,262 16,282 15,212 13,196	12,324 14,582 15,625 14,296 19,845 16,266 13,097 17,357 16,266 14,383	70 52 38 57 8 32 68 25 33 56	Crook Fremont Goshen Hot Springs Johnson Laramie Lincoln Natrona Niobrara	90 439 182 76 102 1,292 176 1,193	105 483 212 82 113 1,360 191 1,242 48	107 506 214 87 114 1,441 202 1,275	1.9 4.8 .9 5.9 1.1 5.9 5.9 2.6 1.4	16,920 13,073 14,733 15,971 16,485 17,663 13,847 19,486	19,741 14,134 17,123 17,591 18,185 18,432 14,728	19,843 14,713 17,265 18,503 18,233 19,093 15,400	5 23 16 12 13 7 19 3
Columbia Crawford Dane Dodge Door Douglas Dunn Eau Claire Florence	713 209 7,311 1,086 438 592 469 1,306 60	752 217 7,756 1,119 447 616 476 1,362 62	809 232 8,322 1,197 471 652 521 1,456 67	7.6 6.6 7.3 7.0 5.4 5.8 9.3 6.9 7.4	15,786 13,113 19,837 14,158 17,073 14,163 13,036 15,318 13,003	16,376 13,582 20,698 14,477 17,403 14,636 13,167 15,824 12,904	17,332 14,463 21,883 15,385 18,190 15,349 14,256	26 53 3	Park Platte Sheridan Sublette Sweetwater Teton Uinta Washakie Weston	375 125 471 86 649 336 263 129 112	418 139 513 88 721 357 290 144 119	449 443 138 539 92 759 395 300 151 124	5.9 4 5.1 3.6 5.3 10.8 3.4 4.9 3.9	16,195 15,412 19,977	17,924 17,108 21,768 17,778 18,086 30,230 15,139 17,305	18,663 17,042 22,559 18,169 18,730 32,245 15,256 17,785	11 17 2 14 10 1 20 15

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) estimate of personal income 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. It can also differ from the NIPA estimate because of different data sources and revision schedules.

2. Percent change was calculated from unrounded data.

^{3.} Per capita personal income was computed using Bureau of the Census midyear population estimates. Estimates for 1990-92 reflect State and county population estimates available as of February 1994.

4. Denali and Lake + Peninsula Boroughs, AK begin in 1991.

5. Virginia combination areas consist of one or two independent cities with populations less than 100,000 combined with an adjacent county. The county name appears first, followed by the city name(s). Separate estimates for the jurisdictions making up the combined areas are not available.

BUSINESS CYCLE INDICATORS

Series originating in Government agencies are not copyrighted and may be reprinted freely. Series from private sources are provided through the courtesy of the compilers and are subject to their copyrights.

Current and historical data for the series shown in the C-pages are available on diskettes, printouts, and the Commerce Department's Economic Bulletin Board. For more information, contact the Business Cycle Indicators Branch, Business Outlook Division (BE-52), Bureau of Economic Analysis, U.S. Department of Commerce, Washington, DC 20230. (Telephone: (202) 606-5366; fax: (202) 606-5313.)

Note.—This section of the Survey is prepared by the Business Cycle Indicators Branch.

Series	Corios title and timing electification	Year						1993							1994	
no.	Series title and timing classification	1993	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
					1. CON	IPOSITE	INDEXE	S								
	The Leading Index															
910 ♦	Composite index of leading indicators, 1987=100 (L,L,L) Percent change from previous month Percent change over 3-month span, AR	98.7 .1 1.4	99.1 .2 –3.2	98.4 7 -2.0	98.4 0 -4.0	98.1 3 -1.2	98.1 0 -2.0	97.9 2 1.2	98.4 .5 2.1	98.6 .2 5.0	99.1 .5 4.5	99.5 .4 *6.7	r 100.2 r .7 5.8	100.5 7.3 74.1	r 100.5 r 0 P 4.1	P 101.2
1 ♦ 5 ♦	Leading index components: Average weekly hours, mfg. (L,L,L) Average weekly initial claims for unemployment insurance, thous. (L,C,L) 1 ‡.	41.4 365	41.4 349	41.2 375	41.5 374	41.4 387	41.2 383	41.4 399	41.4 371	41.5 370	41.6 354	41.7 336	41.7 318	41.8 360	41.2 338	P 42.2 327
8 ♦ 32 ♦	Mfrs.' new orders, consumer goods and materials, bil. 1987\$ (L,L,L). Vendor performance, slower deliveries diffusion index,	1,304.70 51.6	109.79 53.0	107.23 52.5	106.72 53.1	105.54 51.7	106.58 50.2	105.35 50.0	106.55 51.3	109.03	111.43 50.7	r 112.55 50.7	r 114.63 51.7	^r 116.20 55.0	r 115.30 58.8	P 116.82 55.1
20 ♦	percent (L,L,L)*. Contracts and orders for plant and equipment, bil. 1987\$	434.98	36.26	734.41	34.15	33.96	37.86	34.67	36.38	35.84	37.71	r 40.53	39.98	r 41.30	r 41.39	P 42.74
29 ♦	(L,L,L). Index of new private housing units authorized by local	96.4	91.0	82.5	87.8	89.4	88.9	92.7	99.0	101.4	104.0	109.6	117.7	108.3	99.7	105.1
92 ♦	building permits, 1967=100 (L,L,L). Change in mfrs.' unfilled orders, durable goods, bil.	-2.87	-2.08	-2.18	-2.42	-2.97	-3.35	-3.30	-3.15	-3.23	-3.10	-2.92	-2.89	r−2.21	r-1.69	P −1.40
99 💠	1987\$, smoothed (L,L,L) †. Change in sensitive materials prices, percent, smoothed (L,L,L) †.	26	15	18	30	40	43	43	48	r50	r32	r05	.29	.52	.80	1.06
19 ♦	Index of stock prices, 500 common stocks, 1941-43=10, NSA (L,L,L)*.	451.41	441.70	450.16	443.08	445.25	448.06	447.29	454.13	459.24	463.90	462.89	465.95	472.99	471.58	463.81
106 ♦ 83 ♦	Money supply M2, bil. 1987\$ (L,L,L)	2,774.0 72.8	2,775.4 80.6	2,769.3 75.8	2,763.0 76.4	2,775.3 68.5	2,778.5 70.4	^r 2,778.0 64.7	2,773.1 65.8	^r 2,777.1 66.8	2,769.6 72.5	2,769.6 70.3	2,768.5 78.8	r2,773.4 86.4	r 2,764.3 83.5	^p 2,767.5 85.1
950 ◆	Diffusion index of 11 leading indicator components: Percent rising over 1-month span Percent rising over 6-month span	56.1 64.4	59.1 45.5	9.1 22.7	54.5 31.8	36.4 36.4	54.5 63.6	40.9 63.6	77.3 81.8	68.2 90.9	81.8 90.9	72.7 81.8	81.8 P 90.9	81.8	45.5	P 81.8
	The Coincident Index															
920 ♦	Composite index of coincident indicators, 1987=100 (C,C,C) Percent change from previous month Percent change over 3-month span, AR	109.1 .1 2.5	107.9 .3 –5.0	108.1 .2 3.8	108.6 .5 3.4	108.8 .2 3.0	108.9 .1 .7	108.8 1 2.2	109.4 .6 2.6	109.6 .2 4.5	110.0 .4 4.1	110.5 .5 5.6	111.1 .5 ⁷ 2.9	r110.8 r3 r4.0	r111.6 r.7 ³3.6	3.4
41 ♦ 51 ♦	Coincident index components: Employees on nonagricultural payrolls, thous. (C,C,C) Personal income less transfer payments, bil. 1987\$, AR (C,C,C).	110,178 3,519.7	109,539 3,449.3	109,565 3,471.1	109,820 3,517.7	110,058 3,524.3	110,101 3,511.7	110,338 3,499.1	110,305 3,542.3	110,502 3,544.2	110,664 3,559.7	110,880 3,578.2	111,110 3,597.4	111,079 r3,562.8	111,277 ′3,618.8	^p 111,733 ^p 3,632.6
47 ♦ 57 ♦	Index of industrial production, 1987=100 (C,C,C)	110.9 6,197,402	109.9 *510,300	110.0 *509,203	110.5 507,439	110.0 510,535	110.4 514,723	110.9 510,834	111.1 518,086	111.3 520,538	111.9 523,160	112.8 528,675	114.0 534,561	^r 114.4 ^r 532,478	^r 115.0 ^p 537,128	^p 115.6
951	Diffusion index of 4 coincident indicator components: Percent rising over 1-month span Percent rising over 6-month span	80.2 97.9	100.0 100.0	62.5 75.0	75.0 100.0	75.0 100.0	62.5 100.0	50.0 100.0	87.5 100.0	100.0 100.0	100.0 100.0	100.0 100.0	100.0 3 100.0	37.5	100.0	³ 100.0
	The Lagging Index															
930 ♦	Composite index of lagging indicators, 1987=100 (Lg,Lg,Lg) Percent change from previous month Percent change over 3-month span, AR	96.4 .1 0	96.6 0 3.4	96.4 2 8	96.4 0 -1.2	96.3 1 4	96.3 0 1.3	96.7 .4 .4	96.4 3 1.3	96.6 .2 –1.2	96.4 2 8	96.2 2 1.6	r 96.2 r 0 .4	r 96.5 r .3 r –.4	r 96.1 r – .4 4 – .8	⁴ 96.0 ⁴ 1
91 ♦ 77 ♦	Lagging index components: Average duration of unemployment, weeks (Lg,Lg,Lg) 5 ‡ Ratio, mfg. and trade inventories to sales in 1987\$ (Lg,Lg,Lg).	18.1 1.56	18.2 1.57	17.7 1.57	17.7 1.58	17.8 1.58	17.8 1.56	17.9 1.58	18.3 1.56	18.4 1.56	18.4 1.55	18.9 1.54	18.2 1.52	18.3 1.52	18.7 P 1.52	19.2
62 ♦	Change in labor cost per unit of output, mfg., percent, AR, smoothed (Lg,Lg,Lg) † 6.	-2.5	-3.6	-3.9	-4.0	-3.3	-2.9	-2.5	-1.8	8	9	-1.6	-2.5	r-2.4	r−1.9	P−1.9
109 ♦	Average prime rate charged by banks, percent, NSA (Lg,Lg,Lg)*.	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.06
101 ♦	Commercial and industrial loans outstanding, mil. 1987\$ (Lg,Lg,Lg).	371,320	369,653	363,441	365,115	368,471	370,002	375,158	376,605	376,574	373,963	374,072	r373,204	7377,946	r 373,103	p 370,667
95 ♦ 120 ♦	Ratio, consumer installment credit outstanding to personal income, percent (Lg,Lg,Lg). Change in Consumer Price Index for services, percent, AR, smoothed (Lg,Lg,Lg) †.	14.13 3.8	14.24 3.8	14.18 3.9	14.02 4.0	13.94 4.1	14.00 4.1	14.12 4.0	14.04 3.9	14.13 3.7	14.16 3.6	14.20 3.5	14.24 3.5	* 14.48 3.1	P 14.29	3.6
952	Diffusion index of 7 lagging indicator components: Percent rising over 1-month span Percent rising over 6-month span	49.4 43.3	71.4 35.7	35.7 57.1	71.4 50.0	50.0 50.0	57.1 35.7	64.3 50.0	28.6 50.0	50.0 50.0	28.6 - 50.0	28.6 - 21.4	r 42.9 4 20.0	[,] 57.1	r 42.9	4 50.0
940 💠	Ratio, coincident index to lagging index, 1987=100 (L,L,L) . I			112.1	112.7	113.0	113.1	112.5	113.5	113.5	114.1	114.9	r 115.5	^r 114.8	r116.1	P 116.8

NOTE.—The following current high values were reached before February 1993: May 1991—BCI-106 (2,865.8); August 1991—BCI-92 smoothed (–0.83); December 1991—BCI-62 smoothed (3.0) and BCI-77 (1.65); January 1992—BCI-120 smoothed (4.2); and December 1992—BCI-51 (3,689.9) and BCI-83 (89.5). See page C-6 for other footnotes.

SURVEY OF CURRENT BUSINESS

Series	Series title and timing classification	Year	ļ					1993							1994	
no.	3	1993	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
			2. LAB	OR FOR	CE, EMP	LOYME	NT, AND	UNEMP	LOYME	NT						
441 442 451 452	Labor force: Civilian labor force, thous. Civilian employment, thous. Civilian labor force participation rates (percent): Males 20 years and over Females 20 years and over	128,040 119,306 76.9 58.4	127,400 118,442 76.9 58.2	127,440 118,562 76.9 58.2	127,539 118,585 76.9 58.2	128,075 119,180 77.1 58.4	128,056 119,187 77.0 58.5	128,102 119,370 77.0 58.4	128,334 119,692 77.0 58.5	128,108 119,568 76.7 58.4	128,580 119,941 77.0 58.6	128,662 120,332 76.8 58.7	128,898 120,661 76.8 58.9	130,667 121,971 77.0 59.3	130,776 122,258 76.9 59.5	130,580 122,037 76.8 59.3
453 1 • 21 •	Both sexes 16-19 years of age ' Marginal employment adjustments: Average weekly hours, mfg. (L,C,L) Average weekly overtime hours, mfg. (L,C,L)	51.5 41.4 4.1	51.9 41.4 4.2	51.5 41.2 4.0	51.8 41.5 4.2	52.5 41.4 4.1	51.5 41.2 4.0	51.8 41.4 4.0	51.6 41.4 4.1	51.2 41.5 4.1	51.1 41.6 4.3	51.2 41.7 4.3	50.9 41.7 4.4	53.3 41.8 4.4	52.4 41.2 4.6	52.3 ^p 42.2 ^p 4.8
5 ♦ 46 ♦ 60	Average weekly initial claims for unemployment insurance, thous. (L,C,L) ² ‡. Job vacancies: Index of help-wanted advertising, 1967=100 (L,Lg,U) Ratio, help-wanted advertising to unemployed (L,Lg,U) ¹	365 101 .344	349 97 .322	375 96 .322	374 96 .319	387 100 .334	383 97 .325	399 101 .344	371 103 .355	370 101 .352	354 106 .365	336 107 .382	318 110 .397	360 105 .359	338 115 .402	327 P 117 P .407
48 ◆	Employment: Employee hours in nonagricultural establishments, bil. hours, AR (U.C.C). Persons engaged in nonagricultural activities, thous.	203.97	202.47	202.33	202.78	205.28	203.57	204.05	204.76	204.06	205.26	205.16	205.91 117,565	, 207.65	7204.97 118,867	P 207.23
41 ♦ 963	(U,C,C) ¹ . Employees on nonagricultural payrolls, thous. (C,C,C) Diffusion index of employees on private nonagricultural payrolls, 356 industries:	110,178	109,539	109,565	109,820	110,058	110,101	110,338	110,305	110,502	110,664	110,880	111,110	111,079	111,277	^p 111,733
40 ♦ 90 ♦	Percent rising over 1-month span	54.7 57.0 22,975 61.6	59.7 58.3 23,069 61.4	51.0 58.3 23,016 61.4	53.8 57.7 22,980 61.4	56.9 49.7 23,006 61.7	46.5 51.1 22,941 61.6	57.9 52.9 22,948 61.6	44.4 55.9 22,903 61.8	57.2 58.7 22,886 61.6	53.9 57.0 22,934 61.8	61.0 *** 61.0 22,994 61.9	56.0 ^p 63.9 23,008 62.0	55.8 23,024 62.2	23,018 62.3	^P 61.9 ^P 23,101 62.2
37 43 • 45	Number of persons unemployed, thous. (L,Lg,U) \(^1\frac{1}{2}\) \(^1\frac{1}2\) \(^1\frac{1}2\) \(^1\frac{1}2\) \(^1\fra	8,734 6.8 2.6	8,958 7.0 2.5	8,878 7.0 2.5	8,954 7.0 2.6	8,895 6.9 2.6	8,869 6.9 2.7	8,732 6.8 2.7	8,642 6.7 2.6	8,540 6.7 2.6	8,639 6.7 2.6	8,330 6.5 2.6	8,237 6.4 2.5	8,696 6.7 2.5	8,518 6.5 2.6	8,543 6.5 2.6
91 ♦ 44	Average duration of unemployment, weeks (Lg,Lg,Lg) \(^1\) \times Unemployment rate, 15 weeks and over, percent (Lg,Lg,Lg) \(^1\) \times.	18.1 2.4	18.2 2.5	17.7 2.4	17.7 2.3	17.8 2.4	17.8 2.4	17.9 2.3	18.3 2.3	18.4	18.4 2.4	18.9 2.3	18.2 2.2	18.3 2.3	18.7 2.4	19.2 2.4
			3. OUT	PUT, PR	ODUCTI	ON, AN	D CAPA	CITY UTI	LIZATIO	N						
55 ♦ 50 49	Output: Gross domestic product, bil. 1987\$, AR (C,C,C) Percent change from previous quarter, AR Gross national product, bil. 1987\$, AR (C,C,C) Value of domestic goods output, bil. 1987\$, AR (C,C,C). Industrial production indexes, 1987=100:	5,136.0 3.0 5,138.6 2,083.8	5,078.2 .8 5,080.7 2,060.2			5,102.1 1.9 5,104.1 2,069.1			5,138.3 2.9 5,145.8 2,074.9			5,225.6 7.0 5,223.7 2,130.9			^p 5,259.0 ^p 2.6 ^p 2,161.0	
47 ◆ 73 ◆ 74 ◆ 75 ◆	Total (C,C,C) Durable manufactures (C,C,C) Nondurable manufactures (C,L,L) Consumer goods (C,L,C)	110.9 114.3 108.6 108.8	109.9 112.1 108.2 108.9	110.0 112.5 108.2 108.9	110.5 113.5 108.7 108.6	110.0 113.2 108.5 107.8	110.4 113.0 108.9 108.1	110.9 113.7 109.1 108.9	111.1 113.9 109.2 108.6	111.3 115.0 108.5 108.5	111.9 116.2 108.8 109.2	112.8 118.0 109.1 109.7	114.0 120.1 *109.7 110.1	r 114.4 r 120.4 r 109.6 r 110.6	r 115.0 r 121.3 r 110.1 r 111.8	P 115.6 P 121.9 P 111.0 P 111.5
124 82 ♦	Capacity utilization rates (percent): Total industry (L.C.U) Manufacturing (L.C.U)	81.5 80.6	81.2 80.2	81.2 80.1	81.4 80.6	81.0 80.2	81.1 80.1	81.3 80.3	81.4 80.3	81.4 80.4	81.7 80.8	82.2 81.5	*82.9 82.3	783.1 782.2	83.4 r 82.5	^p 83.6 ^p 82.8
				4. SAI	LES, OR	DERS, A	AND DEL	IVERIES	3							
57 ◆ 59 ◆	Sales: Manufacturing and trade sales, mil. 1987\$ (C,C,C)	6,197,402 1,757,913		^r 509,203 ^r 141,543	507,439 143,700	510,535 144,933	514,723 145,871	510,834 146,477	518,086 147,360	520,538 147,695	523,160 149,968	528,675 150,802	534,561 152,695	^r 532,478 ^r 150,626	^p 537,128 ^r 152,786	P 153,164
7 ♦ 8 ♦	Mfrs.' new orders, durable goods, bil. 1987\$ (L,L,L) Mfrs.' new orders, consumer goods and materials, bil. 1987\$ (L,L,L). Mfrs.' unfilled orders, durable goods, mil. 1987\$	1,304.70 362,630	109.79 396,886	107.23 390,926	112.61 106.72 387,356	109.77 105.54 381,879	114.50 106.58 378,466	111.08 105.35 377,172	113.68 106.55 374,775	115.01 109.03 370,372	117.87 111.43 368,404	7120.10 7112.55 366,140	122.20 r 114.63 362,630	126.96 7116.20	r 115.30	^p 124.79 ^p 116.82 ^p 361,553
92 ♦ 32 ♦	Change from previous month, bil. 1987\$. Change from previous month, bil. 1987\$, smoothed (L.L.L) †. Vendor performance, slower deliveries diffusion index, percent (L,L,L)*.	-2.88 -2.87 51.6	35 -2.08 53.0	-5.96 -2.18 52.5	-3.57 -2.42 53.1	-5.48 -2.97 51.7	-3.41 -3.35 50.2	-1.29 -3.30 50.0	-2.40 -3.15 51.3	-4.40 -3.23 50.9	-1.97 -3.10 50.7	-2.26 -2.92 50.7	-3.51 -2.89 51.7	r 2.05 r – 2.21 55.0	7–1.31 7–1.69 58.8	p - 1.82 p - 1.40 55.1
				5.	FIXED C	APITAL	INVEST	MENT								
12 • 13 •	Formation of business enterprises: Index of net business formation, 1967=100 (L,L,L) Number of new business incorporations (L,L,L)	121.2	120.9 59,691	122.0 61,002	121.0 59,648	117.6 51,765	120.8 60,422	120.7 58,387	121.1 58,209	122.3 63,758	119.2 55,294	^r 123.5 ^p 61,739	^r 126.1	r 125.8	P 126.4	
10 20 ◆	Business investment commitments: Contracts and orders for plant and equipment, bil.\$ (Li,Li). Contracts and orders for plant and equipment, bil. 1987\$ (Li,Li).	427.36 434.98	36.36 36.26	r34.04 r34.41	33.89 34.15	33.25 33.96	38.15 37.86	33.77 34.67	35.63 36.38	34.94 35.84	36.56 37.71	38.78 - 40.53	38.84 39.98	40.91 ^r 41.30	r 40.73	^p 41.40 ^p 42.74
27 ♦ 9 ♦	Mfrs.' new orders, nondefense capital goods, bil. 1987\$ (L,L,L). Construction contracts awarded for commercial and industrial buildings, mil. sq.ft.(L,C,U) © ⁴ .	394.44 535.60	33.09 40.20	30.13 43.22	31.18 43.80	31.08 42.80	34.11 43.43	31.47 47.58	33.24 44.44	32.44 45.34	34.49 46.74	⁷ 37.19 47.15	36.76 52.36	r 37.68 52.76	⁷ 37.73 49.34	^p 38.54 61.83
61 100 •	Business investment expenditures: New plant and equipment expenditures by business, bil.\$, AR (C,Lg,Lg)*. New plant and equipment expenditures by business,	585.64 555.70	564.13 533.70			579.79 546.97			594.11 565.28			r 604.51			^a 621.28 ^a 595.36	
69 ♦	bil. 1987\$, AR (C,Lg,Lg)*. Mfrs.' machinery and equipment sales and business construction expenditures, bil.\$, AR (C,Lg,Lg).	464.32	447.24	465.62	448.70	454.96	462.72	442.00	468.37	464.07	469.92	492.08	513.28	r 484.00	r 491.97	P 502.18

NOTE.—The following current high values were reached before February 1993: July 1991—BCI-92 change (6.72) and August 1991—BCI-92 smoothed (-0.83). See page C-6 for other footnotes.

						1(1(1)		USINI						1 <i>p</i> 111 19	71	
Series no.	Series title and timing classification	Year		ı	ı	-	ı	1993	-	Т	-	Т		-	1994	
		1993	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
			;	5. FIXED	CAPITA	L INVES	TMENT-	–Contini	ued							
76 ♦	Business investment expenditures—Continued: Index of industrial production, business equipment, 1987=100 (C.L.g.U). Gross private nonresidential fixed investment, bil. 1987\$, AR:	134.6	130.0	131.5	133.1	133.5	133.9	134.6	134.8	136.3	137.7	139.7	r 141.8	^r 143.1	144.7	₽ 145.7
86 ♦ 87 ♦ 88 ♦	Total (C,Lg,C) Structures (Lg,Lg,Lg) Producers' durable equipment (C,Lg,C)	591.8 151.5 440.2	562.3 148.2 414.1			584.3 151.1 433.2			594.8 151.2 443.6			625.7 155.6 470.0			^P 634.1 ^P 148.9 ^P 485.1	
28 • 29 •	Residential construction and investment: New private housing units started, thous., AR (L,L,L) Index of new private housing units authorized by local	1,288 96.4	1,194 91.0	1,092 82.5	1,232 87.8	1,241 89.4	1,238 88.9	1,245 92.7	1,319 99.0	1,359 101.4	1,409 104.0	1,406 109.6	1,612 117.7	" 1,271 108.3	⁷ 1,314 99.7	^p 1,473 105.1
89 ♦	building permits, 1967=100 (L,L,L). Gross private residential fixed investment, bil. 1987\$, AR (L,L,L).	214.2	211.4			206.2			212.1			227.2			^p 232.2	
			6.	INVENT	ORIES A	ND INVE	NTORY	INVEST	MENT			-				
70 77 ◆	Inventories on hand: Mfg. and trade inventories, bil. 1987\$ (Lg,Lg,Lg) ◊ Ratio, mfg. and trade inventories to sales in 1987\$ (Lg,Lg,Lg).	810.80 1.56	799.49 1.57	801.86 1.57	803.31 1.58	804.68 1.58	805.35 1.56	806.10 1.58	806.64 1.56	809.45 1.56	809.90 1.55	812.33 1.54	810.80 1.52	r 811.15 1.52	^p 814.34 ^p 1.52	
30 ♦ 31 ♦	Inventory investment: Change in business inventories, bil. 1987\$, AR (L,L,L) Change in mfg. and trade inventories, bil.\$, AR (L,L,L)	14.3 23.9	29.3 *26.1	, 53.2	35.1	13.0 24.9	6.8	1.9	6.5 23.7	22.9	14.7	8.5 55.3	-13.6	r17.8	^p 30.5 ^p 52.3	
						7. PRIC	ES									
99 •	Sensitive commodity prices: Index of sensitive materials prices, 1987=100 Percent change from previous month Percent change from previous month , smoothed	99.60 01 26	101.30 07 15	100.81 48 18	99.87 93 30	99.31 56 40	99.15 16 43	98.88 27 43	98.03 86 48	797.67 737 750	98.55 *.90 *32	r 99.48 r .94 r –.05	100.77 *1.30 .29	101.25 .48 .52	102.92 1.65 .80	104.42 1.46 1.06
98	(L,L,L) †. Index of producer prices for sensitive crude and intermediate materials, 1987=100 (L,L,L).	161.88	157.91	161.00	161.06	159.80	159.63	160.26	159.54	161.51	165.78	^r 169.43	172.97	173.90	172.55	173.03
	Cattle hides Lumber and wood products Wastepaper, news Wastepaper, mixed, NSA Wastepaper, corrugated Iron and steel scrap Copper base scrap Aluminum base scrap Other nonferrous scrap, n.e.c., NSA Sand, gravel, and crushed stone	180.4 174.2 100.7 90.6 142.0 172.8 136.0 129.3 113.9 134.0	175.9 168.1 109.1 86.5 143.6 160.5 160.8 135.4 128.6 132.6	177.0 174.6 110.1 97.5 149.0 157.8 151.6 129.7 125.0 132.6	173.0 177.1 112.5 101.5 147.5 154.6 142.3 123.5 118.4 133.1	175.6 175.1 104.0 107.5 143.3 158.0 131.5 125.1 113.3 132.8	176.8 172.0 104.0 107.4 140.6 170.4 135.4 126.6 113.3 133.3	181.1 170.7 97.2 102.8 140.2 179.1 133.8 130.6 115.0	179.7 172.1 94.0 80.8 139.4 170.0 130.2 127.5 113.5	185.9 174.4 93.5 80.4 138.9 171.2 125.1 125.6 107.5 134.8	184.4 177.7 94.2 80.2 139.0 190.7 119.0 128.7 100.7 136.3	7185.2 7181.3 794.0 779.3 7139.9 7202.5 7117.3 7128.1 798.5 7135.7	182.7 185.2 91.5 79.2 138.0 207.7 121.2 129.9 103.7 136.3	181.7 186.6 87.8 73.8 136.4 202.7 128.5 131.3 106.6 136.5	176.4 181.7 94.5 72.0 153.7 203.8 135.3 141.1 115.4 136.7	178.1 181.5 97.9 75.2 195.0 200.3 136.6 148.7 119.8 136.9
23 ♦	Raw cotton Domestic apparel wool Index of spot market prices, raw industrial materials, 1967=100, NSA (U.L.), © ". Copper scrap, S per lb. © Lead scrap, \$ per lb. © Steel scrap, \$ per ton © Tin, \$ per lb., NSA © Zinc, \$ per lb., NSA © Burlap, \$ per yd, NSA © Cotton, \$ per lb. Print doth, \$ per yd., NSA ©	92.2 56.5 260.4 .702 .139 115.553 3.494 .484 .247 .556 .677	93.5 63.6 270.0 .864 .157 108.543 3.835 .535 .245 .569 .640	.812 .157	89.4 53.5 261.5 .737 .146 105.069 3.738 .504 .245 .650	88.3 53.5 257.8 .702 .143 104.412 3.703 .494 .245 .532 .655	84.7 55.2 257.1 .693 .144 112.183 3.482 .467 .245 .502 .644	85.5 53.4 257.2 .672 .140 119.654 3.395 .470 .245 .509	85.7 54.9 255.5 .654 .134 114.042 3.294 .451 .240 .513 .688	790.5 51.7 253.1 .611 .123 110.402 3.095 .445 .241 .547	95.9 53.1 255.6 .578 .118 127.351 3.189 .459 .247 .571 .700	97.9 56.8 258.1 .572 .123 138.940 3.225 .466 .256 .607 .750	104.3 58.1 263.7 .644 .124 140.435 3.286 .492 .265 .644 .750	114.8 56.7 268.8 .696 .128 139.625 3.324 .496 .269 .703	124.6 63.2 275.2 .717 .131 140.201 3.598 .483 .273 .753	121.4 69.3 279.1 .747 .130 138.530 3.621 .467 .275 .726
	Wool tops, \$ per lb., NSA © Hides, \$ per lb., NSA © Rosin, \$ per 100 lb © Rubber, \$ per lb. © Tallow, \$ per lb. ©	3.339 .799 59.238 .450 .147	3.312 .800 59.880 .473 .150	3.160 .816 59.880 .461	3.000 .814 59.880 .443 .157	3.050 .805 60.000 .441 .152	3.400 .774 60.000 .440 .148	3.400 .762 60.000 .437 .148	3.400 .792 59.940 .441 .146	3.400 .805 59.940 .447 .142	3.450 .815 59.118 .442 .140	3.600 .808 56.112 .448 .138	3.500 .798 56.225 .446 .143	3.500 .756 55.944 .448 .152	3.750 .746 55.944 .447 .156	3.900 .788 55.944 .493 .155
336	Producer Price Indexes: Finished goods, 1982=100 Percent change over 1-month span Percent change over 6-month span, AR	124.7 0 .2	124.8 .4 2.9	125.1 .2 1.9	125.7 .5 1.3	125.7 0 –1.1	125.1 5 -1.3	125.1 0 -2.4	124.1 8 -2.2	124.3 .2 –1.4	124.2 1 -1.0	124.3 .1 1.6	124.2 1 1.8	124.5 .2	125.1 .5	125.4 .2
337	Finished goods less foods and energy, 1982=100 Percent change over 1-month span Percent change over 6-month span, AR	.2 135.8 0 .3 123.0	135.9 .3 2.8	136.1 .1 2.1	136.5 .3 1.6	136.8 .2 –1.2	136.4 3 -1.3	136.6 .1 -2.5	135.1 -1.1 -2.2	135.2 .1 –1.3	134.8 3 7	r 135.3 r.4 1.8	135.5 7.1 2.1	136.1	136.3	136.6
334 •	Finished consumer goods, 1982=100 Percent change over 1-month span Percent change over 6-month span, AR Capital equipment, 1982=100	0 2 131.4	123.3 .4 3.0 130.8	131.0	124.3 .6 1.0 131.3	124.2 1 -1.9 131.3	123.5 6 -2.1 131.2	123.4 1 -3.2 131.6	122.1 -1.1 -2.9 131.8	122.3 .2 -2.3 131.9	122.3 0 -1.8 131.4	122.4 .1 1.5 131.8	122.1 2 1.5 132.2	122.3 .2 133.0	123.0 .6 133.1	123.2 .2 133.5
332 •	Percent change over 1-month span Percent change over 6-month span, AR Intermediate materials, supplies, and components, 1982–100.	.2 1.8 116.2	.3 2.6 115.9	.2 2.3	.2 1.8 116.6	0 1.5 116.3	1 1.4 116.3	.3 .2 116.3	.2 .8 116.3	.1 1.5 116.3	4 2.1 116.4	.3 2.0 *116.6	.3 2.4 116.2	.6116.4	.11	.3 117.1
331	Percent change over 1-month span	.1 1.0 102.4 0 .6	.4 2.1 101.6 1 4.7	.3 2.1 101.8 .2 3.8	.3 1.6 103.0 1.2 4	3 .7 105.2 2.1 -1.6	0 0 103.6 -1.5 6	0 3 101.5 -2.0 1.4	0 7.5 100.8 7 7-3.4	0 2 101.5 .7 -4.6	.1 .2 103.7 2.2 2.0	r.2 1.0 r103.4 r3 .8	r3 1.4 101.2 r-2.1 5.0	.2 102.5 1.3	.4 101.2 –1.3	.2 104.0 2.8
311	Fixed-weighted price index, gross domestic business product, 1987=100. Percent change from previous quarter, AR	124.6 3.0	123.5 3.7			124.4 2.9			125.0 1.9			125.7 2.2			^p 126.4	
320	Consumer Price Indexes for all urban consumers: All items, 1982-94=100, NSA Percent change over 1-month span Percent change over 6-month span, AR	144.5 .2 2.6	143.1 .4 3.1	143.6 .2 2.8	144.0 .3 2.7	144.2 .2 2.5	144.4 .1 2.2	144.4 .1 2.2	144.8 .3 2.4	145.1 .1 2.6	145.7 .3 2.4	145.8 .3 2.4	145.8 .2 2.9	146.2 0	146.7 .3	147.2 .3
323	All items less food and energy, 1982-84=100	152.2 .3 3.0 157.9	150.8 .4 3.5 155.6	151.1 .2 3.5	151.6 .3 3.2 156.8	152.0 .3 2.9 157.3	152.3 .2 2.7 157.8	152.6 .2 2.5 158.2	153.0 .3 2.8 158.7	153.1 .1 2.8 159.1	153.5 .3 2.6 159.5	154.1 .4 2.6 160.0	154.4 .2 3.2 160.5	154.6 .1 1	155.0 .3 161.3	155.5 .3
120 ◆	Percent change from previous month, AR Percent change from previous month, AR, smoothed (Lg,Lg,Lg)†.	3.8 3.8	3.1 3.8	4.7 3.9	4.7 4.0	3.9 4.1	3.9 4.1	3.1 4.0	3.9	3.1 3.7	3.1 3.6	3.8 3.5	3.8 3.5	.8 3.1	5.4 3.2	5.3 3.6

NOTE.—The following current high values were reached before February 1993: July 1991—BCI-120 change (5.9); December 1991—BCI-77 (1.65); January 1992—BCI-120 smoothed (4.2); March 1992—BCI-99 change (1.68); and July 1992—BCI-23 (285.7). See page C-6 for other footnotes.

SURVEY OF CURRENT BUSINESS

Series	Casing title and timing plansification	Year						1993							1994	
no.	Series title and timing classification	1993	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
				8	. PROFI	TS AND	CASH FI	LOW								
16 ♦ 18 ♦ 22 ♦	Profits and profit margins: Corporate profits after tax, bil. \$, AR (L,L,L)	275.4 233.9 7.2	258.9 219.2 6.9			272.3 230.7 7.2			274.3 232.7 7.0			7295.9 7252.8 7.8				
81 ♦	domestic income, percent (L,L,L). Ratio, corporate domestic profits after tax with IVA and	7.8	7.3			7.6			7.9			⁷ 8.4				
26 ♦	CCAdj to corporate domestic income, percent(U,L,L). Ratio, implicit price deflator to unit labor cost, all persons, nonfarm business sector, 1982=100 (L,L,L).	104.3	103.9			103.8			104.3			105.3				
35	Corporate net cash flow, bil. 1987\$, AR (L,L,L)	496.2	477.8			490.2			498.2			⁷ 518.6				
			9. '	WAGES,	LABOR	COSTS	, AND P	RODUCT	TIVITY							
345	Wages and compensation: Index of average hourly compensation, all employees, nonfarm business sector, 1982=100.	158.7	157.2			157.9			159.4			160.5				
346	Percent change from previous quarter, AR	3.6 106.0	2.9 106.0			1.7 105.6			3.9 106.1			2.8 106.1				
53 ♦	Percent change from previous quarter, AR	.5 592.5	1 581.7	578.8	596.3	-1.4 596.0	592.8	594.7	2.0 595.2	596.9	596.9	2 598.8	600.8		^r 604.3	P 604.2
63	Unit labor costs: Index of unit labor cost, all persons, business sector, 1982=100 (Lq,Lq,Lq).	136.8	136.4			137.3			137.4			136.1				
62 ♦	Index of labor cost per unit of output, mfg., 1987=100 ¹ . Percent change from previous month, AR ¹	109.1 -3.6 -2.5	109.6 -3.2 -3.6	109.6 0 -3.9	109.3 -3.2 -4.0	109.4 1.1 -3.3	109.1 -3.2 -2.9	109.0 -1.1 -2.5	109.0 0 -1.8	109.3 3.4 8	108.7 -6.4 9	108.2 -5.4 -1.6	107.7 -5.4 -2.5	r 107.9 r 2.3 r – 2.4	r108.0 r1.1 r-1.9	P 107.6 P -4.4 P -1.9
370	Productivity: Index of output per hour, all persons, business sector, 1982=100.	117.6	116.6			116.6			117.6			119.6				
•	Percent change over 1-quarter span, AR Percent change over 4-quarter span, AR	1.8	-1.6 1.3			0 2.1			3.3			6.9				
358	Index of output per hour, all persons, nonfarm business sector, 1982=100.	115.7	114.8			114.7			115.8			117.5				
			10. PI	ERSONA	L INCO	ME AND	CONSU	MER AT	TITUDES	3						
52 51 ◆	Personal income: Personal income, bil. 1987\$, AR (C,C,C) Personal income less transfer payments, bil. 1987\$, AR (C,C,C)	4,236.9 3,519.7	4,156.1 3,449.3	4,181.2 3,471.1	4,228.2 3,517.7	4,236.5 3,524.3	4,227.9 3,511.7	4,217.8 3,499.1	4,264.0 3,542.3	4,267.1 3,544.2	4,283.6 3,559.7	4,302.3 3,578.2	4,327.7 3,597.4	^r 4,297.7 ^r 3,562.8	r 4,354.6 r 3,618.8	^p 4,366.7 ^p 3,632.6
58	Indexes of consumer attitudes: Consumer sentiment, U. of Michigan, 1966:I=100, NSA	82.8	86.6	85.9	85.6	80.3	81.5	77.0	77.3	77.9	82.7	81.2	88.2	94.3	93.2	91.5
83 ♦	(L,L,L) © ² . Consumer expectations, U. of Michigan, 1966:I=100, NSA (L,L,L) © ² .	72.8	80.6	75.8	76.4	68.5	70.4	64.7	65.8	66.8	72.5	70.3	78.8	86.4	83.5	85.1
122	Consumer confidence, The Conference Board, 1985=100 (L.L.L)*.	65.9	68.5	63.2	67.6	61.9	58.6	59.2	59.3	63.8	60.5	71.9	79.8	82.6	79.9	86.7
123 ♦	Consumer expectations, The Conference Board, 1985=100 (L,L,L)*.	77.4	84.7	77.3	81.1	73.1	69.6	66.8	66.8	72.8	66.7	80.3	91.8	92.6	84.4	92.6
						11. SAV	ING									
290	Gross saving, bil.\$, AR	780.2	762.0			766.7			774.3			^r 817.8				
295 292 298 ◆	Dusiness saving, bil.\$, AR Personal saving, bil.\$, AR Government surplus or deficit, bil.\$, AR	794.9 189.9 –224.6	766.9 177.9 –262.8			779.6 208.7 –221.5			809.0 179.7 –214.4			r 824.1 193.4 r – 199.7			^p 182.0	
293 ♦	Personal saving rate, percent	4.0	3.9			4.4			3.8			4.0			^p 3.7	
		1:	2. MONE	EY, CRE	DIT, INT	EREST I	RATES, A	AND STO	OCK PRI	CES						
85 ◆ 102 ◆ 105 106 ◆	Money: Percent change in money supply M1 (L,L,L)* Percent change in money supply M2 (L,C,U) Money supply M1, bil. 1987\$ (L,L,L) Money supply M2, bil. 1987\$ (L,L,L)	.81 .13 848.9 2,774.0	.23 25 822.4 2,775.4	.46 .02 824.2 2,769.3	.66 .09 827.1 2,763.0	1.97 .68 841.4 2,775.3	.83 .19 847.7 2,778.5	.95 .14 854.4 r 2,778.0	.78 .06 859.1 2,773.1	.89 .22 866.1 *2,777.1	.75 * .04 869.8 2,769.6		7.53 .19 876.8 2,768.5	.45 7.18 7.880.7 72,773.4	.45 r –.10 r 882.6 r 2,764.3	^P .33 ^P .43 ^P 882.8 ^P 2,767.5
107	Velocity of money: Ratio, gross domestic product to money suppy M1	5.912	6.043			5.948			5.837			5.820			^p 5.807	
108	(C,C,C). Ratio, personal income to money supply M2 (C,Lg,C)	1.528	1.502	1.513	1.534	1.528	1.523	1.518	1.536	1.535	1.545	1.550	1.557	r 1.541	1.570	^p 1.573
93 94	Bank reserves: Free reserves, mil.\$, NSA (L,U,U) ‡ Member bank borrowings from the Federal Reserve, mil.\$, NSA (L,Lg,U).	901 180	1,059 45	1,122 91	1,023 73	875 121	730 181	845 244	600 352	662 428	804 285	1,012 89	981 82	1,375 73	1,070 70	P 912 P 55
112 ♦ 113 ♦	Credit flows: Net change in business loans, bil.\$, AR (L,L,L) Net change in consumer installment credit, bil.\$, AR (L,L,L).	1.09 48.99	18.70 43.74	-72.79 34.84	45.11 24.74	64.40 -22.80	12.50 25.62	58.39 60.44	2.05 60.47	43 72.84	-22.73 84.56	-2.98 83.28	⁻ -34.44 90.25	r 88.24 r 76.51	r –58.30 p 42.52	<i>p</i> –11.64
111 110 ◆	Percent change in business and consumer credit outstanding, AR (L,L,L). Funds raised by private nonfinancial borrowers in credit markets, mil.\$, AR (L,L,L).	396,874	225,244			369,424			481,616			 ₽ 511,212				
14 39	Credit difficulties: Current liabilities of business failures, mil.\$, NSA (L.L,L) ±. Percent of consumer installment loans delinquent 30	48,504.3 1.77	r 2,630.0 2.39	^p 4,343.0 2.31	^p 2,973.4 2.01	^p 6,634.4 2.16	^p 2,675.4 2.06	^p 5,496.4 2.08	^p 7,382.0 2.03	^p 3,062.6 1.95	^p 2,222.1	^p 2,991.0	^p 2,552.3	P 1,736.4	P 2,141.3	
	days and over (L,L,L) \odot 3 \Diamond ‡.			١			1	- 1	- 1			1				

NOTE.—The following current high values were reached before February 1993: May 1991—BCI-106 (2,865.8); July 1991—BCI-93 (345); August 1991—BCI-94 (764); December 1991—BCI-62 index (113.0) and BCI-62 smoothed (3.0); October 1992—BCI-111 (3.0); and December 1992—BCI-51 (3.689.9), BCI-52 (4,391.8), BCI-53 (659.1), BCI-62

change (13.8), BCI-83 (89.5), and BCI-123 (103.9). See page C-6 for other footnotes.

Series	Coring title and timing classification	Year						1993							1994	
no.	Series title and timing classification	1993	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
		12. MOI	NEY, CR	EDIT, IN	TEREST	RATES	, AND S	ГОСК Р	RICES—	Continue	ed					
66	Outstanding debt: Consumer installment credit outstanding, mil.\$	790,082	747,228	750,131	752,193	750,293	752,428	757,465	762,503	768,573	775,620	782,561	790,082	^r 796,458	P 800,000	
72	(Lg,Lg,Lg) ◊. Commercial and industrial loans outstanding, mil.\$,	429,399	425,840	419,774	423,533	428,900	429,942	434,808	434,979	434,943	433,049	432,801	^r 429,931	437,284	^r 432,426	^p 431,456
101 ◆	(Lg,Lg,Lg). Commercial and industrial loans outstanding, mil. 1987\$	371,320	369,653	363,441	365,115	368,471	370,002	375,158	376,605	376,574	373,963	374,072	^r 373,204	7377,946	^r 373,103	^p 370,667
95 ♦	(Lg,Lg,Lg). Ratio, consumer installment credit outstanding to personal income, percent (Lg,Lg,Lg).	14.13	14.24	14.18	14.02	13.94	14.00	14.12	14.04	14.13	14.16	14.20	14.24	⁷ 14.48	^p 14.29	
119 • 114 • 116 • 115 • 117 118 109 •	Interest rates (percent, NSA): Federal funds rate (L,Lg,Lg)* Discount rate on new 91-day Treasury bills (C,Lg,Lg)* Yield on new high-grade corporate bonds (Lg,Lg,Lg)* Yield on Indg-term Treasury bonds (C,Lg,Lg)* Yield on municipal bonds, 20-bond average (U,Lg,Lg)* Secondary market yields on FHA mortgages (Lg,Lg,Lg) Average prime rate charged by banks (Lg,Lg,Lg)* Index of stock prices, 500 common stocks, 1941-43=10,	3.02 3.02 7.35 6.46 5.60 7.46 6.00 451.41	3.03 2.95 7.73 6.89 5.87 7.55 6.00 441.70	3.07 2.97 7.39 6.65 5.64 7.57 6.00 450.16	2.96 2.89 7.48 6.64 5.76 7.56 6.00 443.08	3.00 2.96 7.52 6.68 5.73 7.59 6.00 445.25	3.04 3.10 7.48 6.55 5.63 7.52 6.00 448.06	3.06 3.05 7.35 6.34 5.57 7.51 6.00 447.29	3.03 3.05 7.04 6.18 5.45 7.02 6.00 454.13	3.09 2.96 6.88 5.94 5.29 7.03 6.00 459.24	2.99 3.04 6.88 5.90 5.25 7.08 6.00 463.90	3.02 3.12 7.22 6.25 5.47 7.51 6.00 462.89	2.96 3.08 7.28 6.27 5.35 7.52 6.00 465.95	3.05 3.02 7.16 6.24 5.31 7.05 6.00 472.99	3.25 3.21 7.27 6.44 5.40 7.59 6.00 471.58	3.34 3.52 7.64 6.90 5.91 8.57 6.06
	NSA (L,L,L)*.															
					13. NA	TIONAL	DEFENS	E .								
525 548 557	Defense Department prime contract awards, mil.\$	76,649 74.8	9,579 6,361 77.9	11,628 7,411 76.8	10,231 6,853 76.9	9,317 5,434 75.6	10,169 5,788 74.9	9,656 7,231 74.6	11,785 6,598 74.0	11,359 6,446 73.7	5,304 72.7	5,172 72.5	5,239 ^r 71.5	10,247 7,738 770.9	^p 9,343 ^r 6,133 ^r 69.8	^p 5,107 ^p 69.1
570 564 ◆	Employment, defense products industries, thous	950 303.4	992 304.8	982	975	964 307.6	954	943	933 301.9	929	922	912 299.2	899	890	^p 884 ^p 292.8	
				1	4. EXPO	RTS AN	ID IMPOI	RTS								
602 604 606 612 614 616 618 ◆ 620 ◆	Exports, excluding military aid shipments, mil.\$ Exports of domestic agricultural products, mil.\$ Exports of nonelectrical machinery, mil.\$ General imports, mil.\$ Imports of petroleum and petroleum products, mil.\$ Imports of automobiles and parts, mil.\$ Merchandise exports, adjusted, excluding military, mil.\$ Merchandise imports, adjusted, excluding military, mil.\$ Balance on merchandise trade, mil.\$	464,980 41,807 99,711 580,511 49,926 80,672 456,766 589,244 –132,478	36,928 3,424 8,090 44,832 4,387 6,811 111,480 140,805 -29,325	38,894 3,357 8,371 49,347 4,813 7,048	38,479 3,498 8,119 48,660 4,958 6,945	38,930 3,470 8,231 47,306 4,342 6,619 113,067 147,465 -34,398	37,639 3,537 8,094 49,698 4,651 6,819	37,109 3,405 8,169 47,534 4,149 6,090	38,050 3,350 8,513 48,097 3,745 6,691 111,935 147,907 -35,972	38,885 3,540 8,322 49,506 3,759 6,861	40,092 3,565 8,288 50,990 3,888 6,966	40,236 3,458 8,655 49,914 3,613 6,880 120,284 P 120,284 P 753,067 P -32,783	42,234 3,777 8,935 49,601 3,406 6,943	739,306 3,497 8,435 749,475 2,951 6,212	8,363 50,262 3,895	
				15. IN	ITERNA	TIONAL	COMPA	RISONS								
47 • 721 • 728 • 725 • 726 • 722 • 727 •	Industrial production indexes (1987=100): United States OECD, European countries ² Japan Federal Republic of Germany France United Kingdom Italy Canada	110.9 107 111.7 107 107 105 104.4 103.2	109.9 107 113.5 106 108 104 106.8 101.7	110.0 107 116.5 107 107 103 105.2 103.2	110.5 105 113.4 106 106 104 100.7 102.2	110.0 107 110.6 107 106 105 105.1 *102.0	110.4 106 112.5 107 106 104 102.8 103.7	110.9 107 111.9 106 107 106 105.1 102.7	111.1 107 110.9 108 107 106 103.4 103.5	111.3 107 113.3 108 *107 106 103.1 104.4	111.9 108 107.4 107 106 107 105.3 7104.4	112.8 108 109.8 7107 107 107 106.9 7105.1	114.0 107 108.0 7107 106 7106 102.5 7104.6	r114.4 109.1 r105 r106 r107	P 107	P 115.6
320 738 735 736 732 737 733	Consumer price indexes (1982-84=100): United States, NSA Percent change over 6-month span, AR Japan, NSA Percent change over 6-month span, AR Federal Republic of Germany, NSA Percent change over 6-month span, AR France, NSA Percent change over 6-month span, AR United Kingdom, NSA Percent change over 6-month span, AR Italy, NSA Percent change over 6-month span, AR Canada, NSA Percent change over 6-month span, AR Canada, NSA Percent change over 6-month span, AR	144.5 2.6 118.5 125.6 3.5 143.5 1.9 165.3 1.9 186.4 4.2 147.9	143.1 3.1 117.4 1.0 124.3 4.5 142.4 2.7 163.1 9 183.6 3.8 147.4 1.1	143.6 2.8 117.7 1.0 124.7 4.6 143.1 2.6 163.7 .7 184.0 4.1 147.3	144.0 2.7 118.5 2.6 125.1 3.8 143.2 2.1 165.2 2.7 184.7 4.6 147.3 1.0	144.2 2.5 118.6 2.7 125.5 3.2 143.5 1.5 165.8 2.3 185.4 5.1 147.6	144.4 2.2 118.5 2.0 125.7 2.9 143.4 1.3 165.7 2.3 186.4 5.0 147.6 2.1	144.4 2.2 118.8 1.0 126.0 2.7 143.5 1.5 165.3 2.3 187.1 4.7 148.0 1.9	144.8 2.4 119.2 1.0 126.0 2.9 143.5 1.7 166.0 2.0 187.2 4.5 148.1 2.2	145.1 2.6 119.3 .5 126.1 2.7 144.0 1.8 166.7 2.6 187.5 3.8 148.2 2.6	145.7 2.4 119.2 -2 126.4 2.9 144.3 1.5 166.6 2.4 188.6 3.8 148.4 1.5	145.8 2.4 118.5 5 126.7 3.4 144.4 1.8 166.4 2.4 189.5 3.4 149.1 9	145.8 2.9 118.6 3.5 144.3 1.7 166.7 2.2 189.5 3.5 148.8 -1.6	146.2 118.7 128.0 144.5 166.0 190.6	146.7 118.7 128.5 144.9 167.0 191.4	147.2 128.7 145.2 167.4 191.8
19 ◆ 748 ◆ 745 ◆ 746 ◆ 742 ◆ 747 ◆ 743 ◆	Stock price indexes (1967=100, NSA): United States* Japan* Federal Republic of Germany* France* United Kingdom* Italy* Canada*	491.0 1,380.4 312.2 969.7 1,373.6 575.2 441.1	480.5 1,171.5 291.9 908.6 1,324.5 528.2 390.0	489.7 1,233.8 296.8 945.8 1,351.0 534.4 407.1	482.0 1,409.7 293.6 938.8 1,324.5 544.0 428.2	484.3 1,471.1 286.1 902.3 1,324.5 575.4 437.4	487.4 1,462.1 293.3 907.8 1,339.0 559.7 448.2	486.6 1,468.4 311.6 954.3 1,323.9 579.9 448.3	494.0 1,509.9 325.3 1,021.0 1,404.6 634.6 467.5	499.6 1,504.5 322.8 1,006.6 1,412.4 633.2 450.9	504.6 1,489.2 337.9 1,047.2 1,438.9 617.1 480.9	503.5 1,380.9 345.9 1,023.6 1,429.9 575.1 472.3	506.9 1,306.9 362.9 1,111.7 1,507.5 622.9 488.3	514.5 1,374.5 374.1 P 1,146.0 1,582.8 646.5 514.7	513.0 1,444.0 372.7 P 1,141.6 1,582.2 P 699.6 499.9	504.5 P 1,467.7 P 374.0 P 1,096.0 P 1,526.4 P 696.5 489.2
750 ♦	Exchange rates: Exchange value of U.S. dollar, index: March 1973=100, NSA 3*.	93.18	93.82	93.65	90.62	90.24	91.81	94.59	94.32	92.07	93.29	95.47	95.73	96.54	95.79	94.35
758 • 755 • 756 • 752 • 757 • 753 •	Foreign currency per U.S. dollar (NSA): Japan (yen)* Federal Republic of Germany (d. mark)* France (franc)* United Kingdom (pound)* Italy (lira)* Canada (dollar)*	111.08 1.6545 5.6669 .6662 1,573.41 1.2902	120.76 1.6414 5.5594 .6947 1,550.43 1.2602	117.02 1.6466 5.5944 .6841 1,591.35 1.2471	112.41 1.5964 5.3984 .6474 1,536.14 1.2621	110.34 1.6071 5.4180 .6461 1,475.66 1.2698	107.41 1.6547 5.5700 .6630 1,505.05 1.2789	107.69 1.7157 5.8464 .6687 1,586.02 1.2820	103.77 1.6944 5.9298 .6705 1,603.75 1.3080	105.57 1.6219 5.6724 .6558 1,569.10 1.3215	107.02 1.6405 5.7541 .6656 1,600.93 1.3263	107.88 1.7005 5.9069 .6753 1,666.31 1.3174	109.91 1.7105 5.8477 .6706 1,687.17 1.3308	111.44 1.7426 5.9207 .6701 1,699.45 1.3173	106.30 1.7355 5.8955 .6760 1,685.96 1.3424	105.10 1.6909 5.7647 .6703 1,666.63 1.3644
				16. ALT	ERNAT	IVE CON	IPOSITE	INDEXE	S							
990 • 991 •	CIBCR long-leading composite index, 1967=100 ⁴ CIBCR short-leading composite index, 1967=100 ⁴	259.0 224.1	257.6 223.1	257.9 222.4	255.1 221.9	256.3 r219.5	257.9 223.1	258.6 222.2	258.9 223.6	259.1 226.2	261.1 226.5	263.0 r 230.0	266.5 229.6	r 266.1 r 232.4	^r 267.2 233.8	P 265.9 P 237.1

See footnotes on page C-6.

FOOTNOTES FOR PAGES C-1 THROUGH C-5

a Anticipated.

AR Annual rate.

c Corrected.© Copyrighte

Copyrighted.Estimated.

* Later data listed in notes.

NSA Not seasonally adjusted.

p Preliminary.
r Revised

• Graph included for this series.

§ Major revision—see notes.⇒ End of period.

L,C,Lg,U Cyclical indicator series are classified as L (leading), C (coincident), Lg (lagging), or U (unclassified) at reference cycle peaks, troughs, and overall. Series classifications are shown in parentheses following the series titles.

- ‡ Cyclical indicator series denoted by ‡ are inverted (i.e., the sign is reversed) for cyclical analysis calculations, including classifications, contributions to composite indexes, and current high values.
- † Cyclical indicator series denoted by † are smoothed by an autoregressive-moving-average filter developed by Statistics Canada.

For information on composite indexes and other concepts used in this section, see "Business Cycle Indicators: Upcoming Revision of the Composite Indexes" in the October 1993 Survey of Current Business and "The Composite Index of Coincident Indicators and Alternative Coincident Indexes" in the June 1992 Survey.

References to series in this section use the prefix "BCI-" followed by the series number. Unless otherwise noted, series are seasonally adjusted.

Percent change data are centered within the spans: 1-month changes are placed in the ending month, 3-month changes are placed in the 3d month, 6-month changes are placed in the 4th month, 1-quarter changes are placed in the ending quarter, and 4-quarter changes are placed in the 3d quarter.

Diffusion indexes are defined as the percent of components rising plus one-half of the percent of components unchanged. Diffusion index data are centered within the spans: 1-month indexes are placed in the ending month and 6-month indexes are placed in the 4th month.

High values reached by cyclical indicators in the expansion following the last reference cycle trough (March 1991) are shown in boldface type; high values reached prior to the period shown in the table are listed at the bottom of each page. For inverted series, low values are indicated as highs.

Sources for series in this section are shown on pages C-30 and C-31.

Page C-1

- * Preliminary April 1994 values: BCI-32 = 57.6, BCI-19 = 447.23, and BCI-109 = 6.34.
- 1. Data include initial claims made under the July 1992 Emergency Unemployment Compensation amendments. Data exclude Puerto Rico, which is included in figures published by the source agency.
- Copyrighted. This series may not be reproduced without written permission from the University of Michigan, Survey Research Center, P.O. Box 1248, Ann Arbor, MI 48106-1248.
 - 3. Excludes BCI-57, for which data are not available.
 - 4. Excludes BCI-77 and BCI-95, for which data are not available.
- 5. Data beginning January 1994 are based on the revised Current Population Survey and are not directly comparable with data for earlier periods.
- 6. The wages and salaries portion of this series has been adjusted to smooth yearend 1992 bonus payments that are in the revised national income and product accounts data. The bonus payments were too large to be adequately dealt with by the autoregressive-moving-average filter used to smooth this series.

Page C-2

- * Preliminary April 1994 values: BCI-32 = 57.6; anticipated 2d quarter 1994 values: BCI-61 = 624.99 and BCI-100 = 601.46.
 - 1. See footnote 5 for page C-1.
- Data include initial claims made under the July 1992 Emergency Unemployment Compensation amendments. Data exclude Puerto Rico, which is included in figures published by the source agency.
 - 3. Data exclude Puerto Rico, which is included in figures published by the source agency.
- Copyrighted. This series may not be reproduced without written permission from McGraw-Hill Information Systems Company, F.W. Dodge Division, Paramount Plaza, 13th Floor, 1633 Broadway, New York, NY 10019.

Page C-3

- * Preliminary April 1994 value: BCI-23 = 280.9.
- Copyrighted. This series may not be reproduced without written permission from Knight-Ridder Financial Publishing, 30 South Wacker Drive, Suite 1820, Chicago, IL 60606.

Page C-4

- * Preliminary April 1994 values: BCI-122 = 91.7, BCI-123 = 95.6, and BCI-85 = 0.12.
- 1. See footnote 6 for page C-1.
- Copyrighted. This series may not be reproduced without written permission from the University of Michigan, Survey Research Center, P.O. Box 1248, Ann Arbor, MI 48106-1248.
- Copyrighted. This series may not be reproduced without written permission from the American Bankers Association, 1120 Connecticut Avenue, NW, Washington, DC 20036.

Page C-5

- * Preliminary April 1994 values: BCI-119 = 3.55, BCI-114 = 3.70, BCI-116 = 7.94, BCI-115 = 7.28, BCI-117 = 6.25, BCI-109 = 6.34, BCI-19 (1941-43=10) = 447.23, BCI-19 (1967=100) = 486.5, BCI-748 = 1,452.0, BCI-745 = 388.2, BCI-746 = 1,071.4, BCI-742 = 1,501.9, BCI-747 = 802.5, BCI-743 = 482.2, BCI-750 = 94.77, BCI-758 = 103.80, BCI-755 = 1.7069, BCI-756 = 5.8433, BCI-752 = 0.6777, BCI-757 = 1,633.34, and BCI-753 = 1.3844.
- Balance of payments basis: Excludes transfers under military grants and Department of Defense sales contracts (exports) and Department of Defense purchases (imports).
 - 2. Organisation for Economic Co-operation and Development.
- 3. This index is the weighted-average exchange value of the U.S. dollar against the currencies of the other G-10 countries plus Switzerland. Each country is weighted by its 1972–76 global trade. For a description of this index, see the August 1978 Federal Reserve Bulletin (p. 700).
- This index is compiled by the Center for International Business Cycle Research (CIBCR), Graduate School of Business, Columbia University, New York, NY 10027.

Notes for Pages C-7 Through C-27

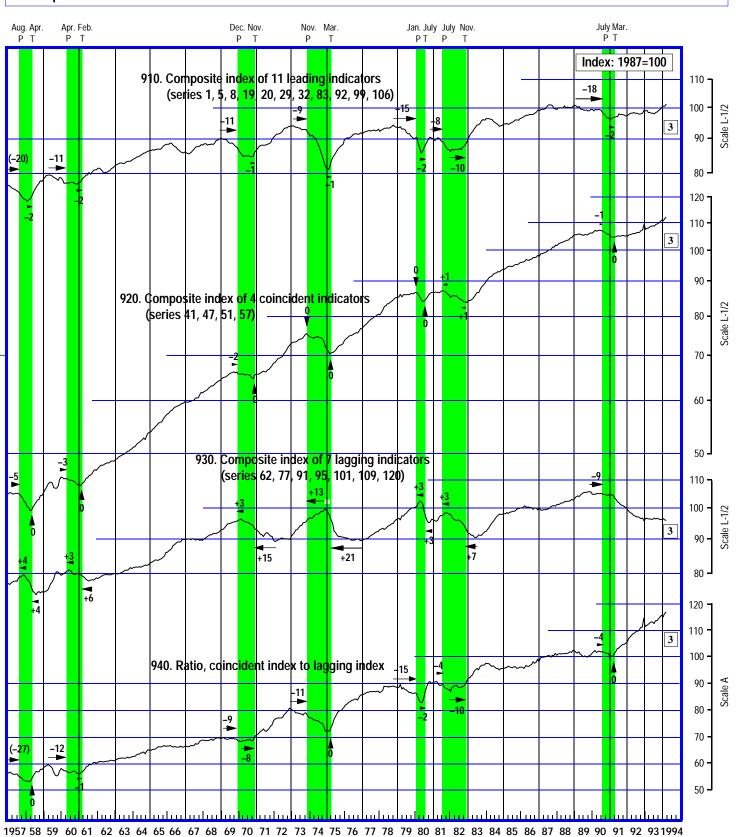
The following notes explain general features of the charts that appear in this section:

- Business cycle peaks (P) and troughs (T), as designated by the National Bureau of Economic Research, Inc., are indicated at the top of each chart. The shaded areas represent recessions.
- For each series classified as a cyclical indicator, the timing classifications at peaks, at troughs, and overall are shown in a box adjacent to the title. (L = leading, C = coincident, Lg = lagging, U = unclassified.) A complete list of series titles and sources is shown on pages C-30 through C-32.
- Arithmetic scales are designated "Scale A." On the same arithmetic scale, equal vertical distances represent equal differences in data. (For example, the vertical distance from 10 to 15 is the same as the distance from 100 to 105.)
- Logarithmic (log) scales are designated L-1, L-2, or L-3 to indicate their relative size. On log scales of the same size, equal vertical distances represent equal percentage changes. (For

example, the vertical distance from 10 to 15 is the same as the distance from 100 to 150.) Compared with an L-1 scale, the same percentage change covers half the distance on an L-2 scale and one-third the distance on an L-3 scale.

- Data are monthly unless otherwise indicated. Quarterly data are indicated by a "Q" following the series title.
- Some series include a centered moving average, which is shown as a heavy line superimposed on the actual monthly data.
- Parallel lines across a plotted series indicate a missing data value, change in definition, or other significant break in continuity.
- The box near the end of each plotted series indicates the latest data month (Arabic numeral) or quarter (Roman numeral) shown or, for series computed over a span of time (diffusion indexes and rates of change), the latest data period used in computing the series.

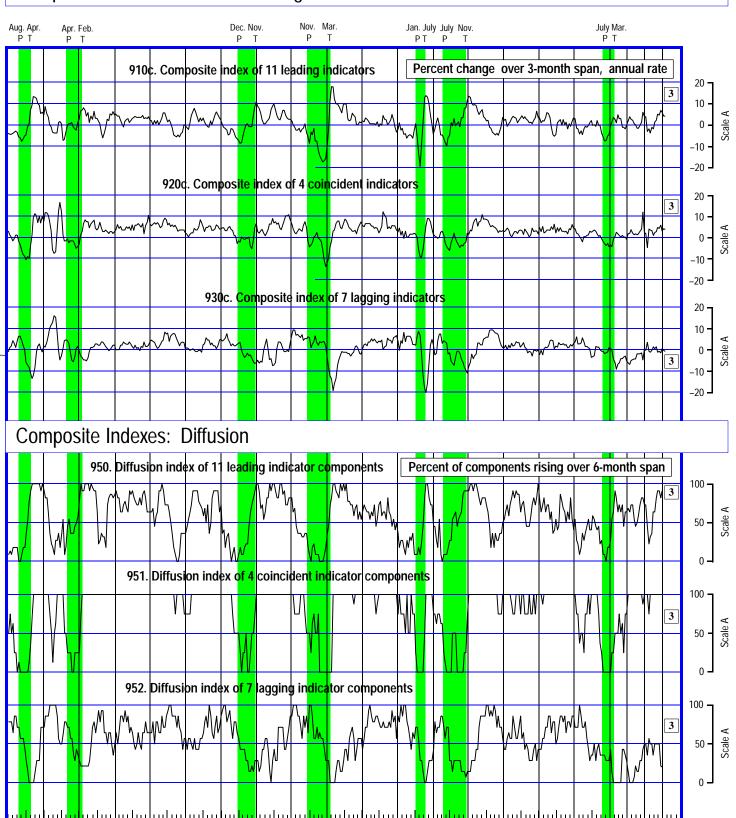
Composite Indexes



Note. — The numbers and arrows indicate length of leads (-) and lags (+) in months from business cycle turning dates. Current data for these series are shown on page C-1.

1

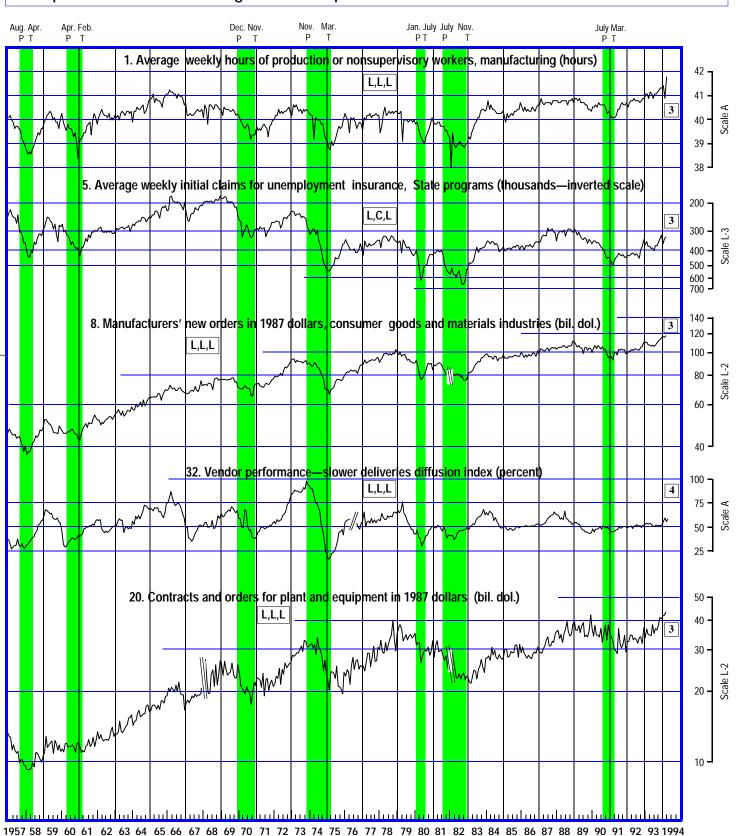
Composite Indexes: Rates of Change



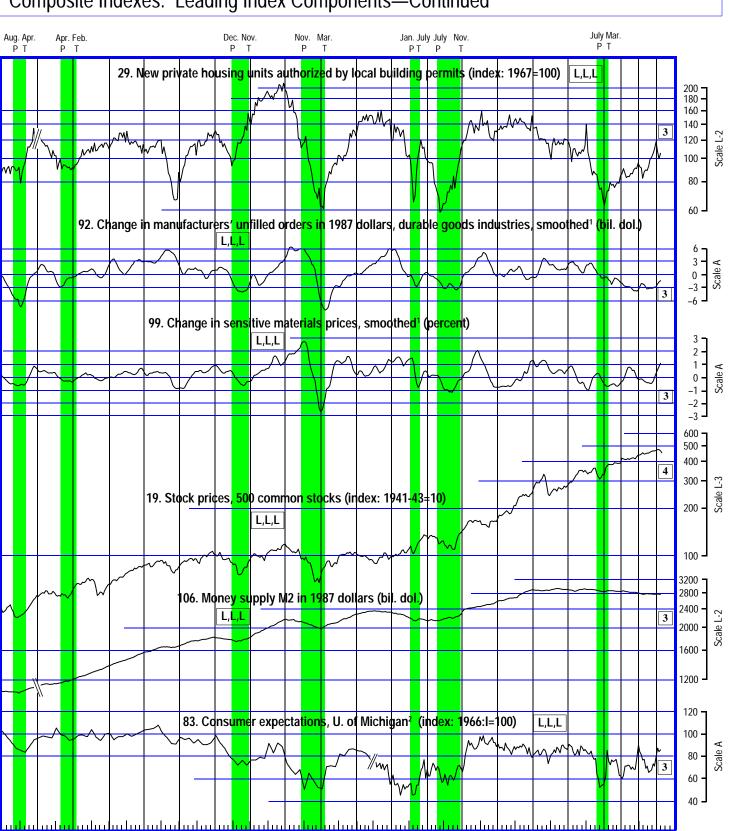
Note.—Current data for these series are shown on page C-1.

1957 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 1994

Composite Indexes: Leading Index Components



Composite Indexes: Leading Index Components—Continued



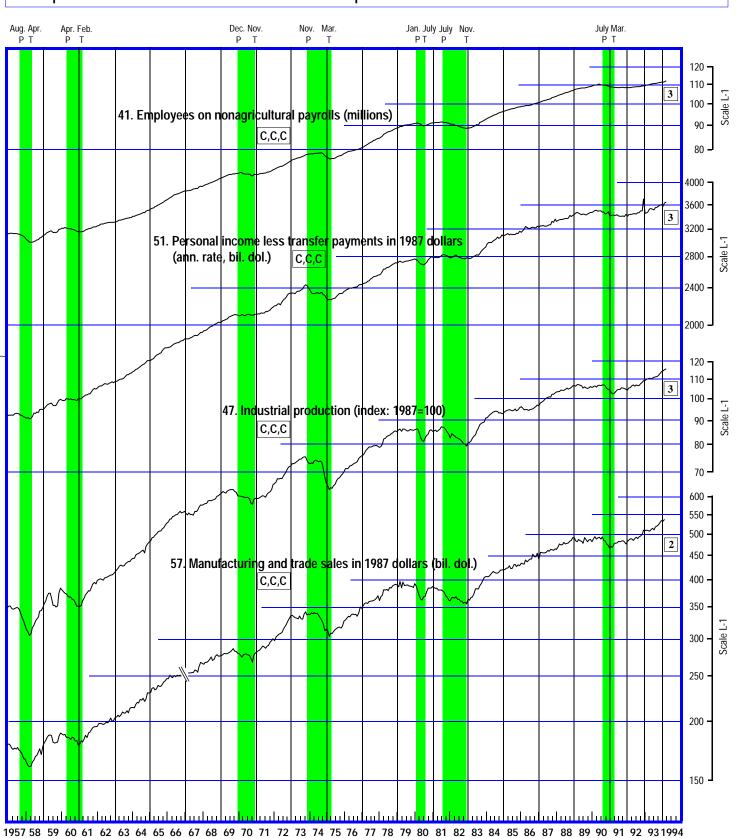
1957 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 1. This series is smoothed by an autoregressive-moving-average filter developed by Statistics Canada.

2. This is a copyrighted series used by permission; it may not be reproduced without written permission from the University of Michigan, Survey Research Center.

Note.—Current data for these series are shown on page C-1.

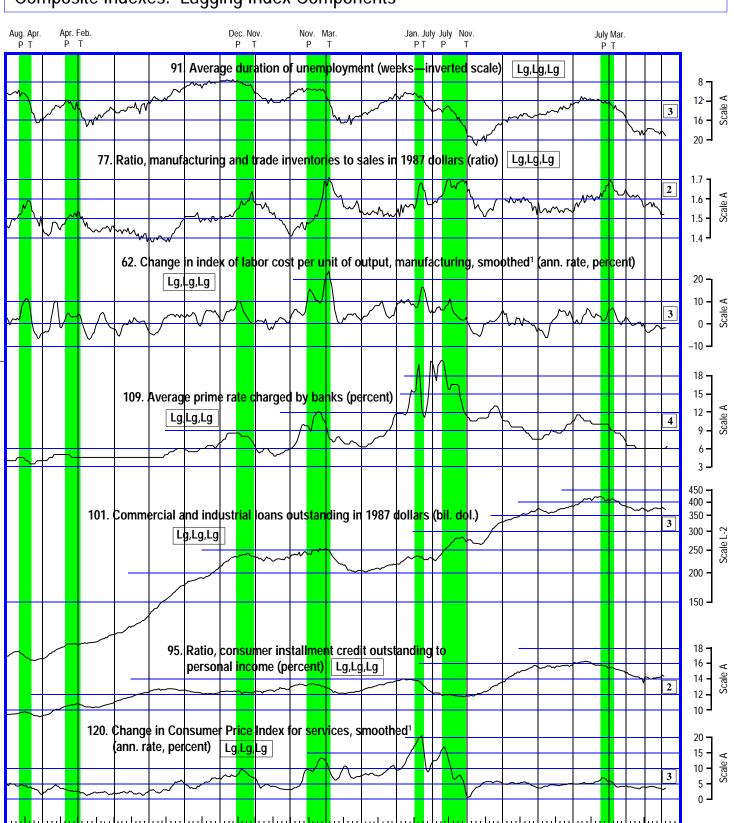
77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 1994

Composite Indexes: Coincident Index Components



Note.—Current data for these series are shown on page C-1.

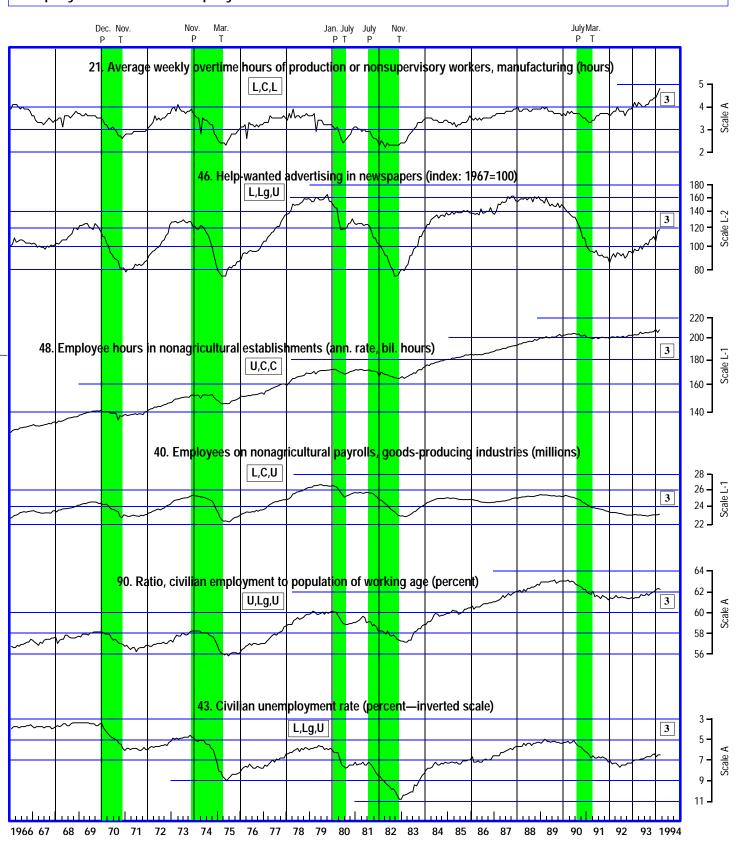
Composite Indexes: Lagging Index Components



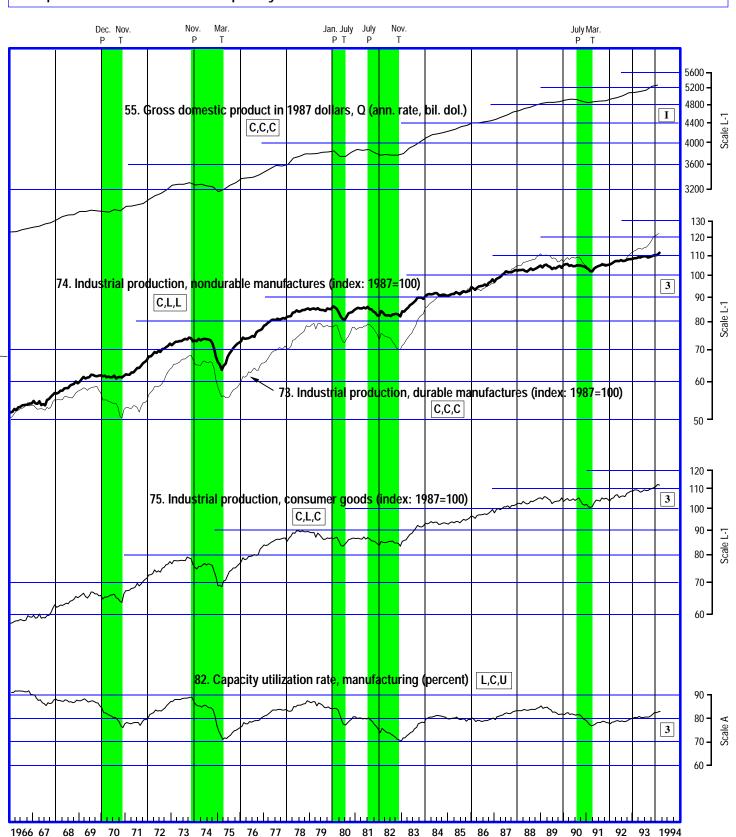
1957 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 1994

1. This series is smoothed by an autoregressive-moving-average filter developed by Statistics Canada. Note.—Current data for these series are shown on page C-1.

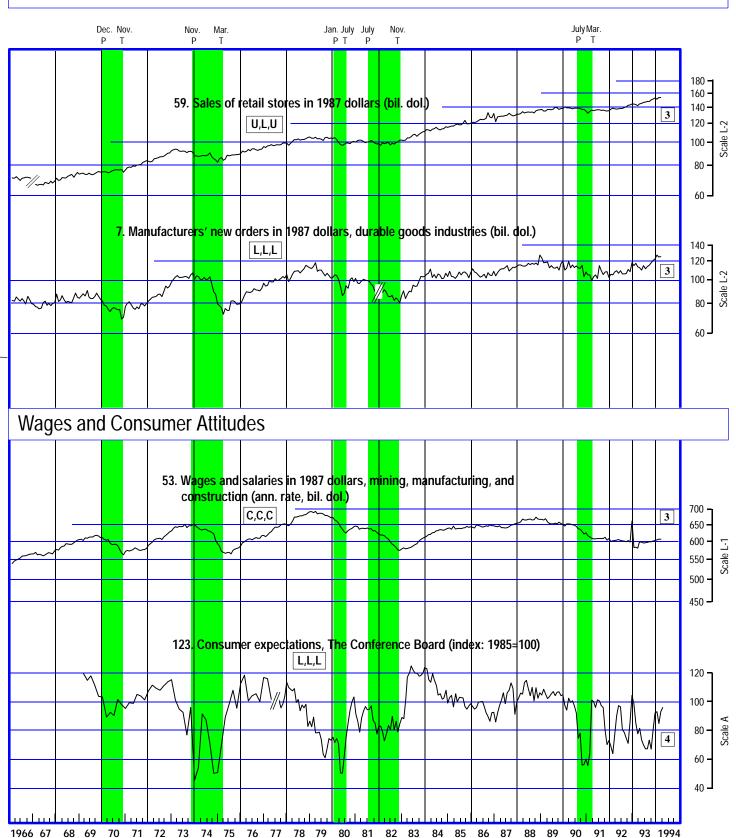
Employment and Unemployment



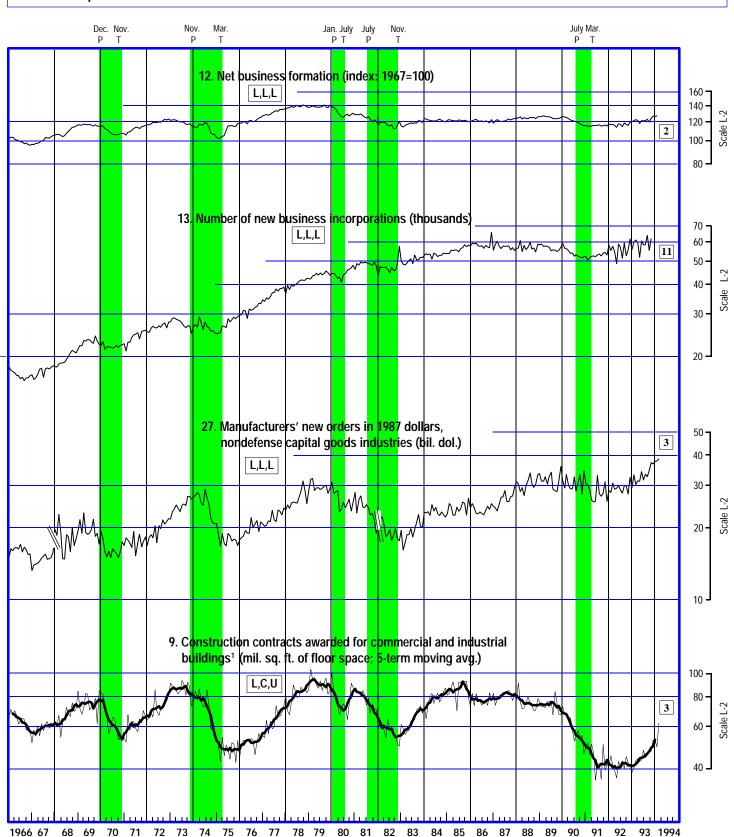
Output, Production, and Capacity Utilization



Sales and Orders



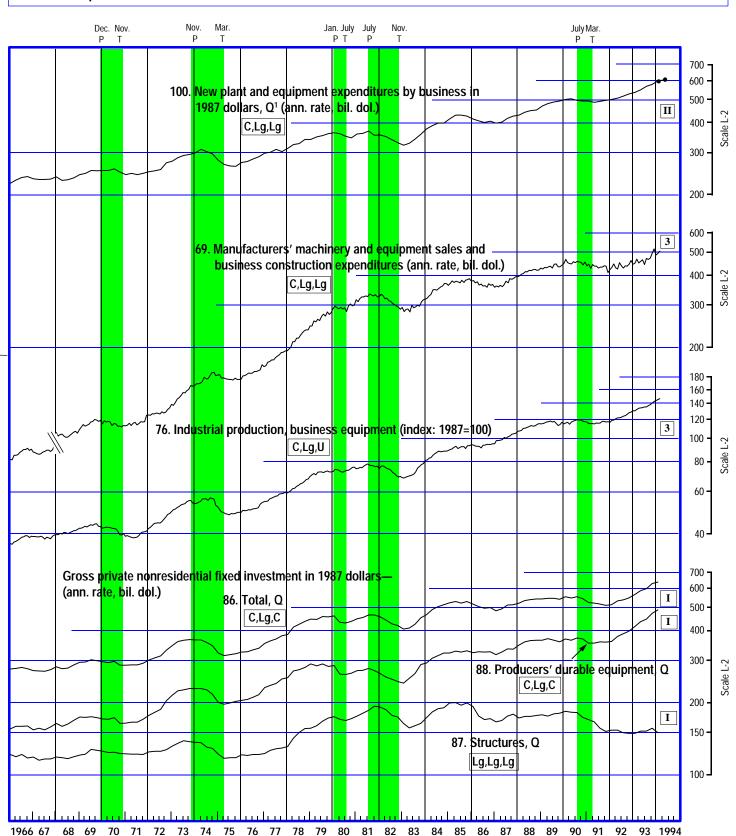
Fixed Capital Investment



^{1.} This is a copyrighted series used by permission; it may not be reproduced without written permission from McGraw-Hill Information Systems Company, F.W. Dodge Division.

Note.—Current data for these series are shown on page C-2.

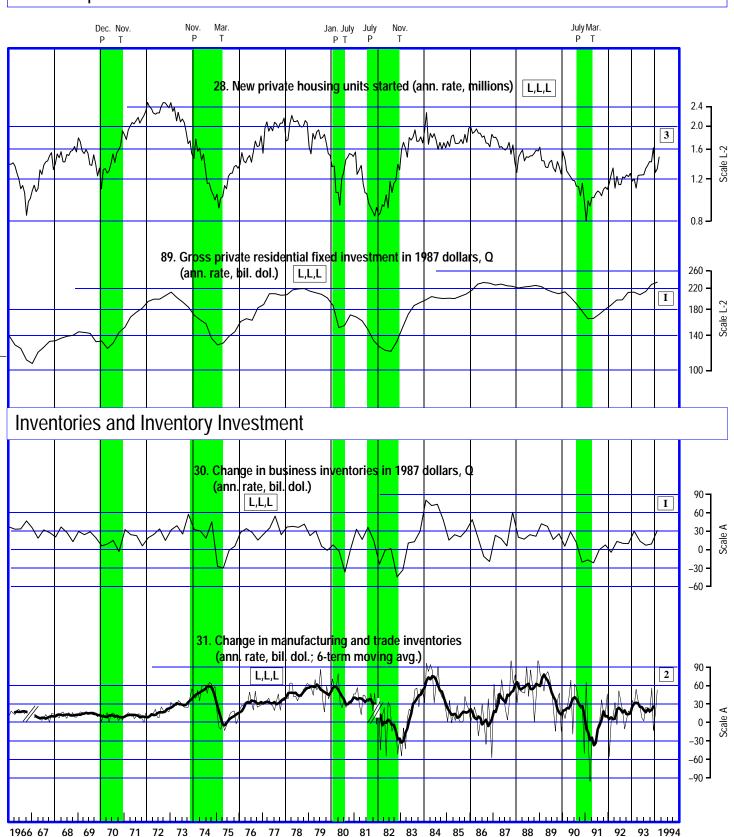
Fixed Capital Investment—Continued



^{1.} Dotted line represents anticipated expenditures.

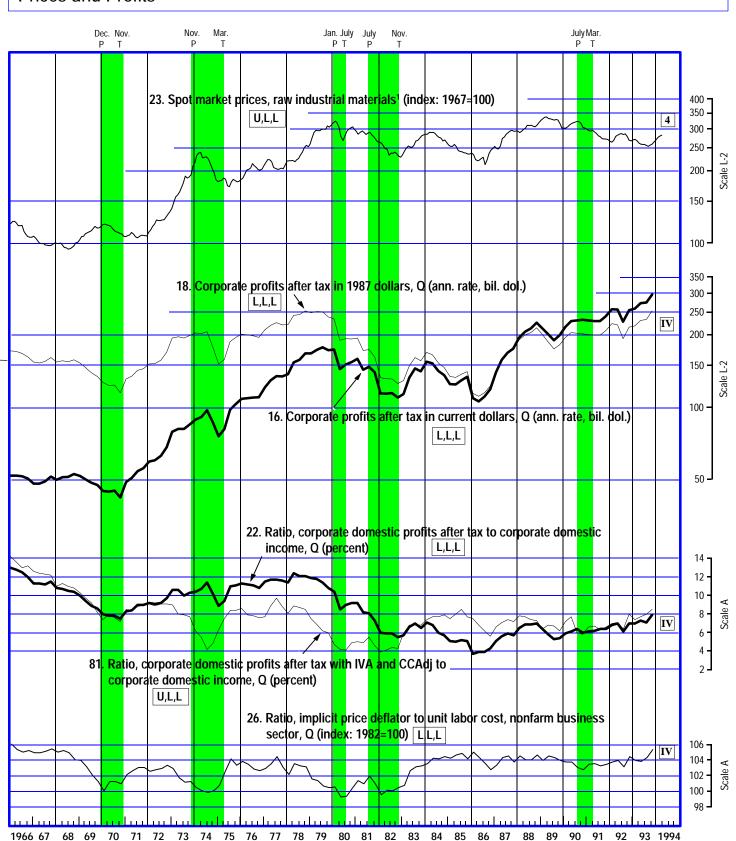
Note.—Current data for these series are shown on pages C-2 and C-3.

Fixed Capital Investment—Continued

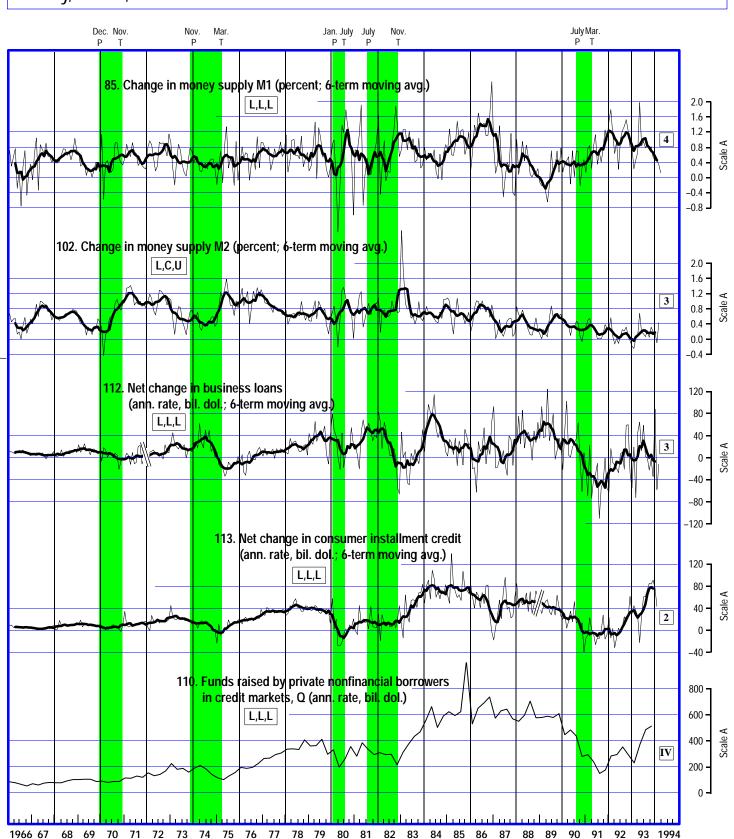


 $\label{eq:Note-Current} \mbox{Note.} -\mbox{Current data for these series are shown on page C-3}.$

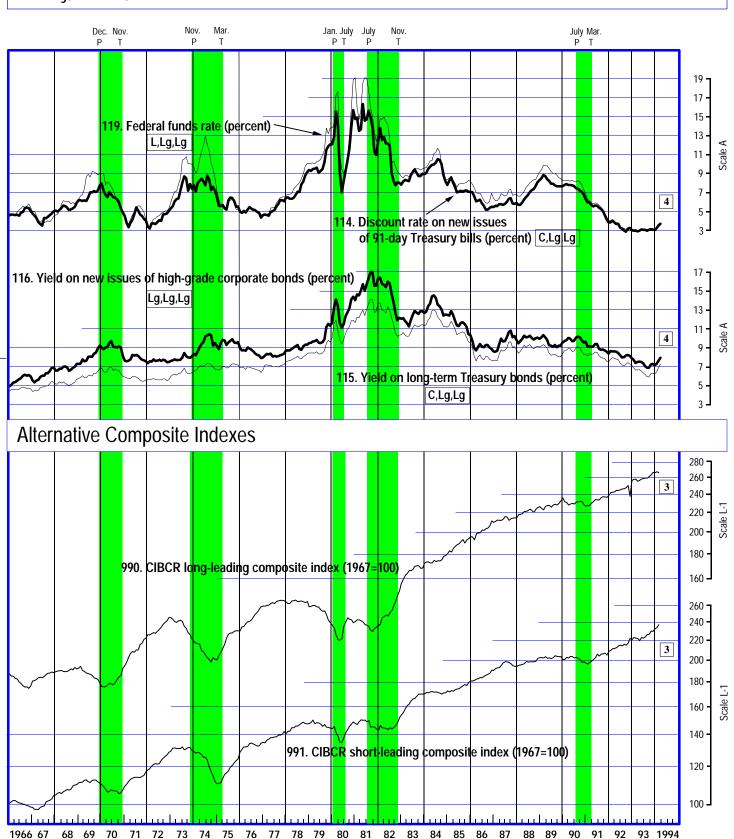
Prices and Profits



Money, Credit, and Interest Rates



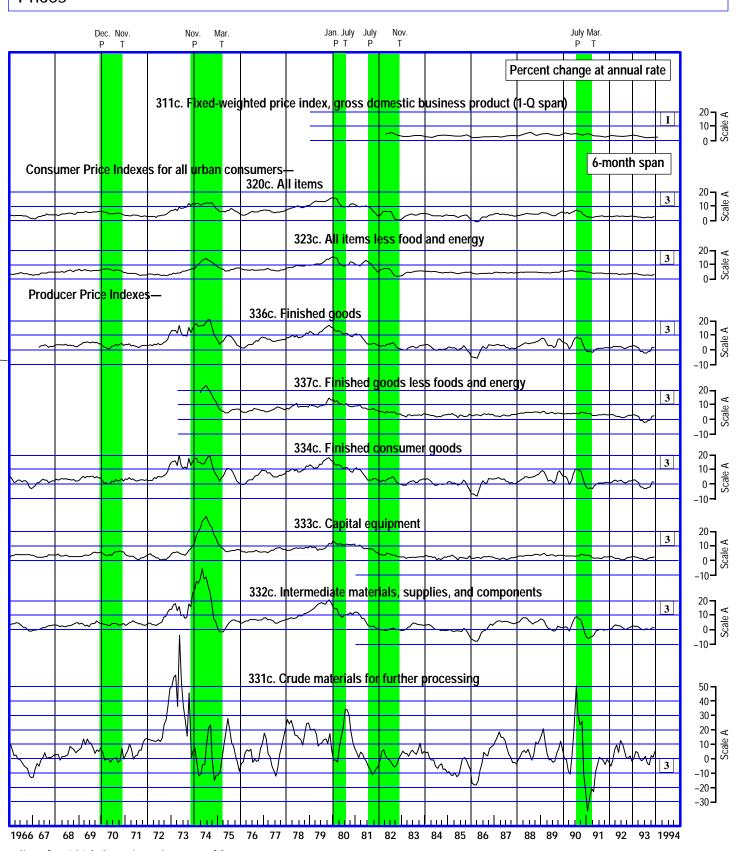
Money, Credit, and Interest Rates—Continued



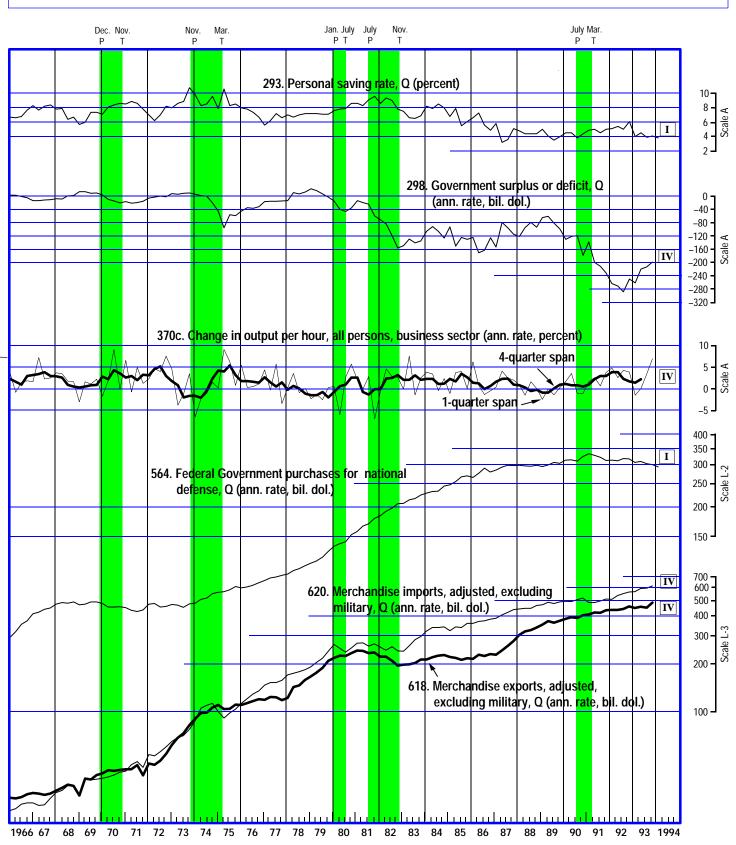
CIBCR Center for International Business Cycle Research (Columbia University) Note.—Current data for these series are shown on page C-5.



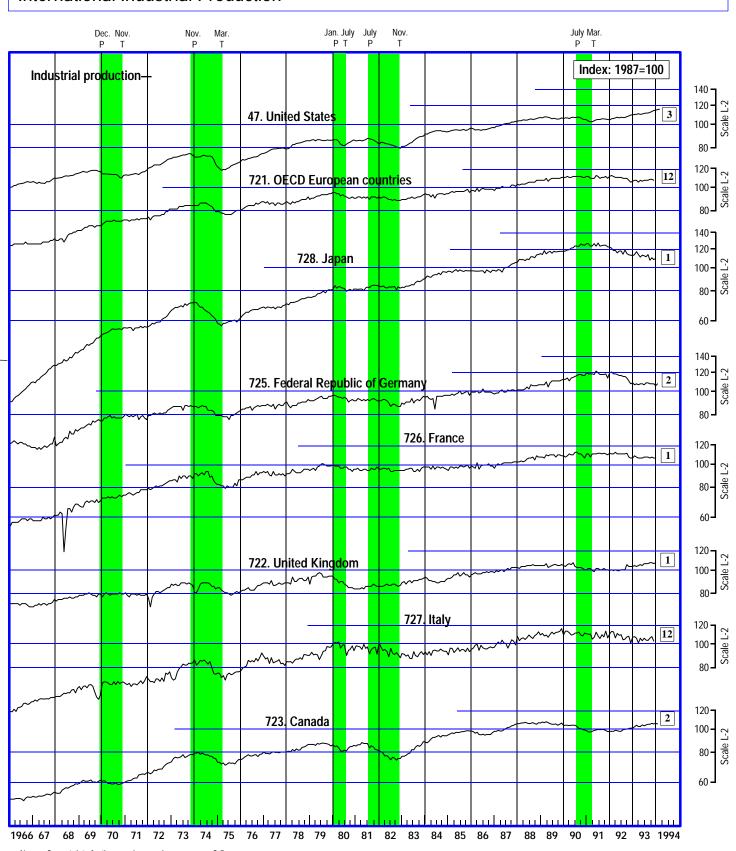
Prices



Other Measures



International Industrial Production

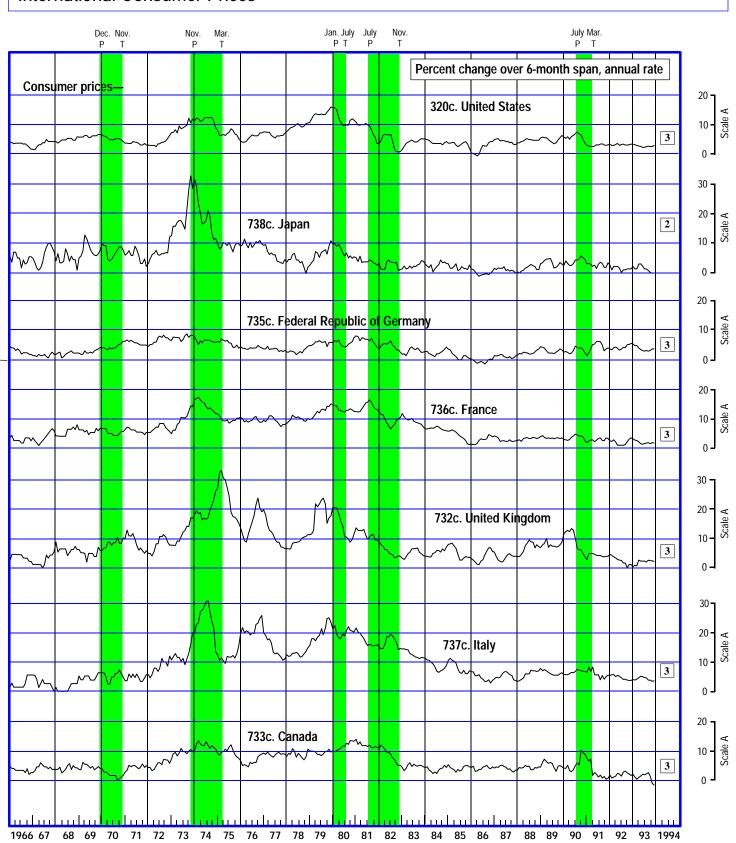


Note.—Current data for these series are shown on page C-5.

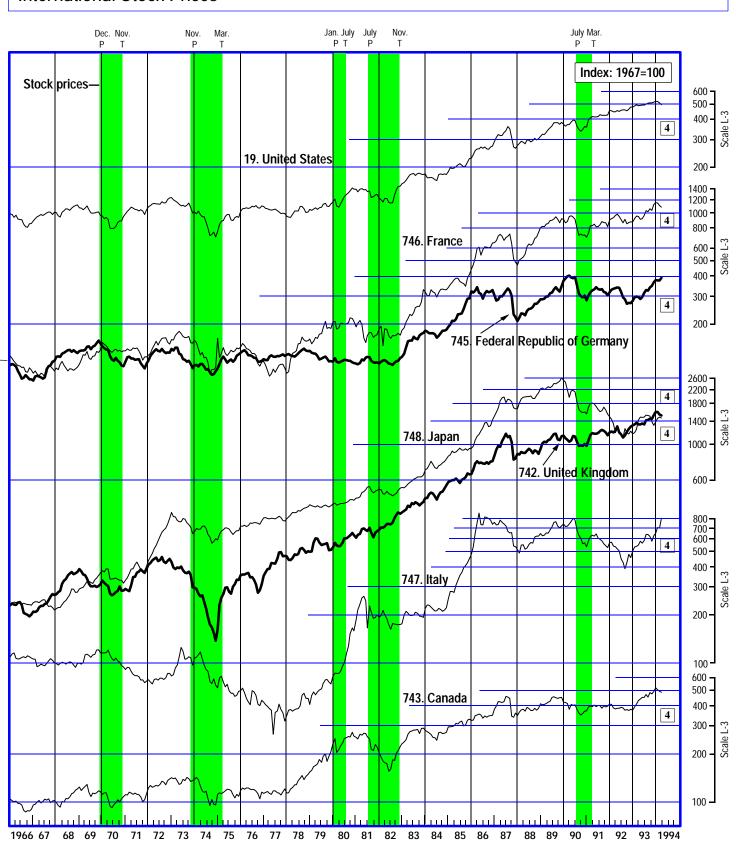
SURVEY OF CURRENT BUSINESS

OTHER IMPORTANT ECONOMIC MEASURES

International Consumer Prices



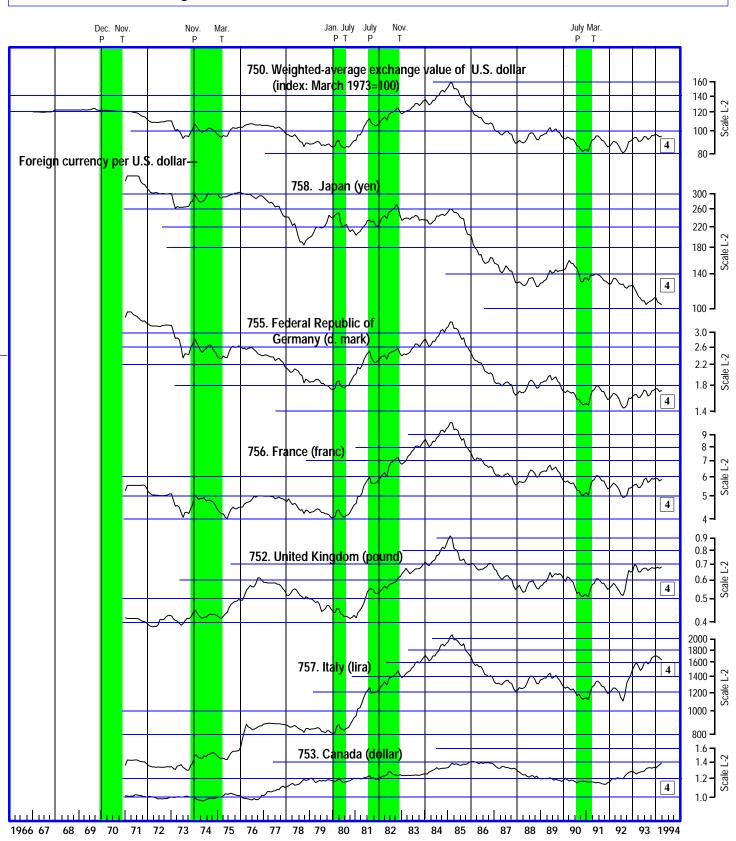
International Stock Prices



SURVEY OF CURRENT BUSINESS

OTHER IMPORTANT ECONOMIC MEASURES

International Exchange Rates



Business Cycle Expansions and Contractions

Business	cycle reference dates		Duration in	n months	
Trough	Peak	Contraction (trough from previous peak)	Expansion (trough to peak)	Cyc Trough from	le Peak from
		previous peak)		previous trough	previous peak
December 1854	October 1860	18 8 32 18	30 22 46 18 34	48 30 78 36	40 54 50 52
March 1879 May 1885 April 1888 May 1891 June 1894	March 1887	65 38 13 10 17	36 22 27 20 18	99 74 35 37 37	101 60 40 30 35
June 1897	September 1902	18 18 23 13 24	24 21 33 19 12	36 42 44 46 43	42 39 56 32 36
December 1914 March 1919 July 1921 July 1924 November 1927	January 1920	23 7 18 14 13	44 10 22 27 21	35 51 28 36 40	67 17 40 41 34
March 1933 June 1938 October 1945 October 1949 May 1954	February 1945	43 13 8 11 10	50 80 37 45 39	64 63 88 48 55	93 93 45 56 49
April 1958	December 1969	8 10 11 16 6	24 106 36 58 12	47 34 117 52 64	32 116 47 74 18
	July 1990	16 8	92	28 100	108
1854–1919 (16 cycles) 1919–1945 (6 cycles)		18 22 18 11	35 27 35 50	53 48 53 61	¹ 53 ² 49 53 61
1854–1919 (14 cycles) 1919–1945 (5 cycles)		19 22 20 11	29 24 26 43	48 46 46 53	³ 48 ⁴ 47 45 53

^{1. 30} cycles. 2. 15 cycles. 3. 25 cycles. 4. 13 cycles.

Note.—Figures printed in bold italic are the wartime expansions (Civil War, World Wars I and II, Korean war, and Vietnam war), the postwar contractions, and the full cycles that include the wartime expansions.

Source: National Bureau of Economic Research, Inc., 1050 Massachusetts Avenue, Cambridge, MA 02138.

Cyclical Leads (-) and Lags (+) for Selected Indicators

[Length in months]

			At reference peaks								
Series no.	Series title	July 1990	July 1981	Jan. 1980	Nov. 1973	Dec. 1969	Apr. 1960	Aug. 1957	July 1953	Nov. 1948	Mean
1 5 8 32 20 29 92 99 19 106 83 910 940	LEADING INDICATORS Average weekly hours, manufacturing	-15 -22 -2 +1 -7 -21 -3 +2 -1 -7 -18 -18 -4	-7 0 -2 -3 -3 -10 -6 -7 -8 NST -2 -8	-10 -16 -13 -9 -10 -19 -13 -7 NST -24 -38 -15	-7 -9 -8 0 -11 -11 -6 +33 -10 -15 -9	-14 -11 -13 -4 -11 -10 -7 -10 -12 -11 -10 -11	-11 -12 -13 -14 -13 -17 -17 -12 -17 -9 NST -2 -11	-21 -23 -25 -28 -9 -30 -19 -17 -13 -16 -9 -20	-3 -10 -3 -12 -5 -8 -26 -9 -6 NST -5 -9	-11 -13 -5 -7 -13 -3 n.a. -30 -17 n.a. -70	-11.0 -12.9 -9.3 -8.4 -7.3 -15.4 -10.6 -7.8 -11.1 -14.2 -12.4 -11.6 -11.2
41 51 47 57 920	Employees on nonagricultural payrolls Personal income less transfer payments in 1987 dollars Index of industrial production Manufacturing and trade sales in 1987 dollars Composite index of 4 coincident indicators	+2 -4	0 +1 0 -6 +1	+2 0 +2 -10 0	+11 0 0 0 0	+3 NST -2 -2 -2	0 +1 -3 -3 -3	-5 0 -5 -6 -5	-1 -1 0 -3 0	-2 -1 -4 +1 -1	+0.8 4 -1.1 -3.7 -1.2
91 77 62 109 101 95 120 930	Average duration of unemployment (inverted) ¹	-13 +6 +8 -14 0 -10 +2 -9	+5 +15 +6 +1 +14 NST +2 +3	-6 +5 +3 +2 -7 +5 +3	-2 +16 +16 +10 +10 +5 +11	-2 +11 +1 +2 +8 NST +4 +3	+2 +9 +10 +3 NST +8 -6 +3	+1 +8 +6 +4 +1 +5 -5 +4	+2 +5 +6 +7 -1 +5 n.a. +5	0 +8 0 NST +3 NST n.a. NST	-1.4 +9.2 +6.4 +2.0 +4.6 +1.0 +3.1
			At reference troughs								
		Mar. 1991	Nov. 1982	July 1980	Mar. 1975	Nov. 1970	Feb. 1961	Apr. 1958	May 1954	Oct. 1949	Mean
	LEADING INDICATORS								1001	1343	
1 5 8 32 20 29 92 99 19 106 83 910 940	Average weekly hours, manufacturing Average weekly initial claims for unemployment insurance (inverted) Manufacturers' new orders in 1987 dollars, consumer goods and materials Vendor performance, slower deliveries diffusion index Contracts and orders for plant and equipment in 1987 dollars Building permits, new private housing units Change in manufacturers' unfilled orders in 1987 dollars, durable goods (smoothed) Change in sensitive materials prices (smoothed) Index of stock prices, 500 common stocks Money supply M2 in 1987 dollars Index of consumer expectations Composite index of 11 leading indicators Ratio, coincident index to lagging index	+1 0 0 0 +3 -2 +20 0 -5 -2 -5 -2 0	-1 -2 -1 -8 +4 -13 -2 -5 -4 NST -8 -10 -10	0 -2 -2 -2 -2 -3 -1 0 NST -2 -4 -2 -2	0 0 0 -1 +9 0 +1 -2 -3 -2 -1 -1 0	-2 -1 0 +1 -1 -10 -3 -2 -5 -7 -6 -1 -8	-2 0 0 -11 +1 -2 -9 -1 -4 NST -3 -2 -1	0 0 -2 -4 -1 -2 -2 -4 -4 -3 +1 -2 0	-1 +4 -7 -6 -2 -8 -5 NST -4 -4 -5	-6 0 4 -7 -6 -9 -4 -4 -15 n.a. 4 0	-1.2 -1.8 -4.2 +.6 -5.4 -6.4 -2.4 -4.6 -5.2 -4.0 -3.1 -2.9
5 8 32 20 29 92 99 19 106 83 910	Average weekly hours, manufacturing	0 0 0 +3 -2 +20 0 -5 -2 -5 -2	-2 -1 -8 +4 -13 -2 -5 -4 NST -8 -10	-2 -2 -2 -2 -3 -1 0 NST -2 -4 -2	0 0 -1 +9 0 +1 -2 -3 -2 -1 -1	0 +1 -1 -10 -3 -2 -5 -7 -6 -1	0 0 -11 +1 -2 -9 -1 -4 NST -3 -2	0 -2 -4 -1 -2 -2 -4 -4 -3 +1 -2	-1 +4 -7 -6 -2 -8 -5 -4 -8 NST -4	-6 0 -4 -7 -6 -9 -4 -4 -15 n.a.	1 -1.8 -4.2 +.6 -5.4 6 -2.4 -4.6 -5.2 -4.0 -3.1

NOTE.—Reference peaks and troughs are the cyclical turning points in overall business activity (see page C-28); specific peaks and troughs are the cyclical turning points in individual series. This table lists, for the composite

indexes and their components, the leads (–) and lags (+) of the specific peaks and troughs in relation to the corresponding reference peaks and troughs. See *Measuring Business Cycles* by Arthur F. Burns and Wesley C. Mitchell (National Bureau of Economic Research, Inc., 1946) for information on the selection of cyclical peaks and troughs. NST No specific turn. No specific turning point is discernible in the data.

n.a. Not available. Data needed to determine a specific turning point are not available.

1. This series is inverted; i.e., low values are peaks and high values are troughs.

2. This series is smoothed by an autoregressive-moving-average filter developed by Statistics Canada.

TITLES AND SOURCES OF SERIES

Series are listed below in numerical order within each of the two major groups. Series numbers are for identification only and do not reflect relationships or order among the series. "M" following a series title indicates monthly data; "Q" indicates quarterly data. Data apply to the whole period except when indicated by "EOM" (end of month) or "EOQ" (end of quarter).

To save space, the following commonly used sources are referred to by number:

Source 1—U.S. Department of Commerce, Bureau of Economic Analysis; Source 2—U.S. Department of Commerce, Bureau of the Census; Source 3—U.S. Department of Labor, Bureau of Labor Statistics; Source 4—Board of Governors of the Federal Reserve System.

The numbers in parentheses following the sources indicate the C-pages on which the series appear: Numbers in plain type indicate data tables; numbers in bold type indicate charts.

1. Cyclical Indicators

- Average weekly hours of production or nonsupervisory workers, manufacturing (M).—Source 3 (1, 2, 9)
- Average weekly initial claims for unemployment insurance, State programs (M).—Source 1 and U.S. Department of Labor, Employment and Training Administration (1, 2, 9)
- Manufacturers' new orders in 1987 dollars, durable goods industries (M).— Sources 1, 2, and 3 (2, 15)
- Manufacturers' new orders in 1987 dollars, consumer goods and materials industries (M).—Sources 1, 2, and 3 (1, 2, 9)
- 9. Construction contracts awarded for commercial and industrial buildings, floor space (M).—McGraw-Hill Information Systems Company; seasonal adjustment by Bureau of Economic Analysis (This is a copyrighted series used by permission; it may not be reproduced without written permission from the source.) (2, 16)
- Contracts and orders for plant and equipment in current dollars (M).— Sources 1, 2, and McGraw-Hill Information Systems Company (2)
- Index of net business formation (M).—Source 1 and Dun & Bradstreet, Inc. (2, 16)
- 13. Number of new business incorporations (M).—Dun & Bradstreet, Inc. (2, 16)
- 14. Current liabilities of business failures (M).—Dun & Bradstreet, Inc. (4)
- 16. Corporate profits after tax in current dollars (Q).—Source 1 (4, 19)
- 18. Corporate profits after tax in 1987 dollars (Q).—Source 1 (4, 19)
- Index of stock prices, 500 common stocks (M).—Standard & Poor's Corporation (1, 5, 10, 26)
- Contracts and orders for plant and equipment in 1987 dollars (M).—Sources 1, 2, and McGraw-Hill Information Systems Company (1, 2, 9)
- Average weekly overtime hours of production or nonsupervisory workers, manufacturing (M).—Source 3 (2, 13)
- Ratio, corporate domestic profits after tax to total corporate domestic income (Q).—Source 1 (4, 19)
- 23. Index of spot market prices, raw industrial materials (M).—Sources 1, 3, and Knight-Ridder Financial Publishing. (From June 1981 forward, this is a copyrighted series used by permission; it may not be reproduced without written permission from Knight-Ridder Financial Publishing.) (3, 19)
- Ratio, implicit price deflator to unit labor cost, all persons, nonfarm business sector (Q).—Sources 1 and 3 (4, 19)
- Manufacturers' new orders in 1987 dollars, nondefense capital goods industries (M).—Sources 1, 2, and 3 (2, 16)
- 28. New private housing units started (M).—Source 2 (3, 18)
- 29. Index of new private housing units authorized by local building permits (M).—Sources 1 and 2 (1,3,10)
- 30. Change in business inventories in 1987 dollars (Q).—Source 1 (3, 18)
- 31. Change in manufacturing and trade inventories (M).—Sources 1 and 2 (3, 18)
- Vendor performance, slower deliveries diffusion index (M).—National Association of Purchasing Management and Purchasing Management Association of

- Chicago; seasonal adjustment by U.S. Department of Commerce, Office of the Chief Economist (1,2,9)
- 35. Corporate net cash flow in 1987 dollars (Q).—Source 1 (4)
- 37. Number of persons unemployed (M).—Source 3 (2)
- 39. Percent of consumer installment loans delinquent 30 days and over (EOM).—American Bankers Association (This is a copyrighted series used by permission; it may not be reproduced without written permission from the source.)
 (4)
- Employees on nonagricultural payrolls, goods-producing industries (M).— Source 3 (2, 13)
- 41. Employees on nonagricultural payrolls (M).—Source 3 (1, 2, 11)
- 42. Number of persons engaged in nonagricultural activities (M).—Source 3 (2)
- 43. Civilian unemployment rate (M).—Source 3 (2, 13)
- Unemployment rate, persons unemployed 15 weeks and over (M).—Source 3 (2)
- 45. Average weekly insured unemployment rate, State programs (M).—Source 1 and U.S. Department of Labor, Employment and Training Administration (2)
- Index of help-wanted advertising in newspapers (M).—The Conference Board (2, 13)
- 47. Index of industrial production (M).—Source 4 (1, 2, 5, 11, 24)
- 48. Employee hours in nonagricultural establishments (M).—Source 3 (2, 13)
- 49. Value of domestic goods output in 1987 dollars (Q).—Source 1 (2)
- 50. Gross national product in 1987 dollars (Q).—Source 1 (2)
- 51. Personal income less transfer payments in 1987 dollars (M).—Source 1 (1, 4, 11)
- 52. Personal income in 1987 dollars (M).—Source 1 (4)
- Wages and salaries in 1987 dollars, mining, manufacturing, and construction (M).—Sources 1 and 3 (4, 15)
- 55. Gross domestic product in 1987 dollars (Q).—Source 1 (2, 14)
- 57. Manufacturing and trade sales in 1987 dollars (M).—Sources 1 and 2 (1, 2, 11)
- 58. Index of consumer sentiment (Q,M).—University of Michigan, Survey Research Center (This is a copyrighted series used by permission; it may not be reproduced without written permission from the source.) (4)
- 59. Sales of retail stores in 1987 dollars (M).—Sources 1 and 2 (2, 15)
- 60. Ratio, help-wanted advertising in newspapers to number of persons unemployed (M).—Sources 1, 3, and The Conference Board (2)
- 61. New plant and equipment expenditures by business in current dollars (Q).—Source 2 (2)
- Change in index of labor cost per unit of output, manufacturing, smoothed (M).—Sources 1 and 4 (1, 4, 12)
- 63. Index of unit labor cost, all persons, business sector (Q).—Source 3 (4)
- 66. Consumer installment credit outstanding (EOM).—Source 4 (5)
- Manufacturers' machinery and equipment sales and business construction expenditures (M).—Sources 1 and 2 (2, 17)
- Manufacturing and trade inventories in 1987 dollars (EOM).—Sources 1 and 2 (3)

- Commercial and industrial loans outstanding in current dollars (M).— Sources 1, 4, and The Federal Reserve Bank of New York (5)
- 73. Index of industrial production, durable manufactures (M).—Source 4 (2, 14)
- Index of industrial production, nondurable manufactures (M).—Source 4 (2, 14)
- 75. Index of industrial production, consumer goods (M).—Source 4 (2, 14)
- 76. Index of industrial production, business equipment (M).—Source 4 (3, 17)
- Ratio, manufacturing and trade inventories to sales in 1987 dollars (M).— Sources 1 and 2 (1, 3, 12)
- Ratio, corporate domestic profits after tax with inventory valuation and capital consumption adjustments to total corporate domestic income (Q).—Source 1 (4, 19)
- 82. Capacity utilization rate, manufacturing (M).—Source 4 (2, 14)
- 83. Index of consumer expectations (Q,M).—University of Michigan, Survey Research Center (This is a copyrighted series used by permission; it may not be reproduced without written permission from the source.) (1, 4, 10)
- 85. Change in money supply M1 (M).—Sources 1 and 4 (4, 20)
- Gross private nonresidential fixed investment in 1987 dollars (Q).—Source 1 (3, 17)
- Gross private nonresidential fixed investment in 1987 dollars, structures (Q).—Source 1 (3, 17)
- Gross private nonresidential fixed investment in 1987 dollars, producers' durable equipment (Q).—Source 1 (3, 17)
- Gross private residential fixed investment in 1987 dollars (Q).—Source 1 (3, 18)
- Ratio, civilian employment to population of working age (M).—Source 3
 (2, 13)
- 91. Average duration of unemployment in weeks (M).—Source 3 (1, 2, 12)
- 92. Change in manufacturers' unfilled orders in 1987 dollars, durable goods industries, smoothed (M).—Sources 1, 2, and 3 (1, 2, 10)
- 93. Free reserves (M).—Sources 1 and 4 (4)
- 94. Member bank borrowings from the Federal Reserve (M).—Source 4 (4)
- Ratio, consumer installment credit outstanding to personal income (M).— Sources 1 and 4 (1,5,12)
- 98. Index of producer prices for sensitive crude and intermediate materials (M).—Sources 1 and 3 (3)
- Change in sensitive materials prices, smoothed (M).—Sources 1, 3, and Knight-Ridder Financial Publishing. (1, 3, 10)
- 100. New plant and equipment expenditures by business in 1987 dollars (Q).— Source 2 (2, 17)
- **101.** Commercial and industrial loans outstanding in 1987 dollars (M).—Sources 1, 3, 4, and The Federal Reserve Bank of New York (1, 5, 12)
- 102. Change in money supply M2 (M).—Sources 1 and 4 (4, 20)
- 105. Money supply M1 in 1987 dollars (M).—Sources 1, 3, and 4 (4)
- 106. Money supply M2 in 1987 dollars (M).—Sources 1, 3, and 4 (1, 4, 10)
- 107. Ratio, gross domestic product to money supply M1 (Q).—Sources 1 and 4 (4)
- 108. Ratio, personal income to money supply M2 (M).—Sources 1 and 4 (4)
- 109. Average prime rate charged by banks (M).—Source 4 (1, 5, 12)
- 110. Funds raised by private nonfinancial borrowers in credit markets (Q).— Source $4 \ (4, 20)$
- 111. Change in business and consumer credit outstanding (M).—Sources 1, 4, Federal Home Loan Bank Board, and The Federal Reserve Bank of New York (4)
- 112. Net change in business loans (M).—Sources 1, 4, and The Federal Reserve Bank of New York (4, 20)
- 113. Net change in consumer installment credit (M).—Sources 1 and 4 (4, 20)
- 114. Discount rate on new issues of 91-day Treasury bills (M).—Source 4 (5, 21)

- **115. Yield on long-term Treasury bonds** (M).—U.S. Department of the Treasury (5, *21*)
- 116. Yield on new issues of high-grade corporate bonds (M).—Citibank and U.S. Department of the Treasury (5, 21)
- 117. Yield on municipal bonds, 20-bond average (M).—The Bond Buyer (5)
- 118. Secondary market yields on FHA mortgages (M).—U.S. Department of Housing and Urban Development, Federal Housing Administration (5)
- 119. Federal funds rate (M).—Source 4 (5, 21)
- 120. Change in Consumer Price Index for services, smoothed $\,$ (M).—Sources 1 and 3 (1,3,12)
- 122. Index of consumer confidence (M).—The Conference Board (4)
- 123. Index of consumer expectations (M).—The Conference Board (4, 15)
- 124. Capacity utilization rate, total industry (M).—Source 4 (2)
- **910.** Composite index of 11 leading indicators (includes series 1, 5, 8, 19, 20, 29, 32, 83, 92, 99, 106) (M).—Source 1 (1, **7**, **8**)
- 920. Composite index of 4 coincident indicators (includes series 41, 47, 51, 57) (M).—Source 1 (1, 7, 8)
- 930. Composite index of 7 lagging indicators (includes series 62, 77, 91, 95, 101, 109, 120) (M).—Source 1 (1, 7, 8)
- 940. Ratio, coincident composite index (series 920) to lagging composite index (series 930) (M).—Source 1 (1, 7)
- 950. Diffusion index of 11 leading indicator components (M).—Source 1 (1, $\pmb{8}$)
- 951. Diffusion index of 4 coincident indicator components (M).—Source 1 (1,8)
- 952. Diffusion index of 7 lagging indicator components (M).—Source 1 (1, 8)
- 963. Diffusion index of employees on private nonagricultural payrolls, 356 industries (M).—Source 3 (2)
- 990. CIBCR long-leading composite index (M).—Columbia University, Center for International Business Cycle Research (5, 21)
- 991. CIBCR short-leading composite index (M).—Columbia University, Center for International Business Cycle Research (5, 21)

2. Other Important Economic Measures

- 290. Gross saving (Q).—Source 1 (4)
- 292. Personal saving (Q).—Source 1 (4)
- 293. Personal saving rate (Q).—Source 1 (4, 23)
- 295. Business saving (Q).—Source 1 (4)
- 298. Government surplus or deficit (Q).—Source 1 (4, 23)
- Fixed-weighted price index, gross domestic business product (Q).—Source
 1 (3, 22)
- 320. Consumer Price Index for all urban consumers, all items (M).—Source 3 (3, 5, 22, 25)
- Consumer Price Index for all urban consumers, all items less food and energy (M).—Source 3 (3, 22)
- **331.** Producer Price Index, crude materials for further processing (M).—Sources 1 and 3 (3, 22)
- 332. Producer Price Index, intermediate materials, supplies, and components (M).—Sources 1 and 3 (3, 22)
- 333. Producer Price Index, capital equipment (M).—Sources 1 and 3 (3, 22)
- 334. Producer Price Index, finished consumer goods (M).—Sources 1 and 3
- 336. Producer Price Index, finished goods (M).—Sources 1 and 3 (3, 22)
- 337. Producer Price Index, finished goods less foods and energy (M).—Sources 1 and 3 (3, 22)
- Index of average hourly compensation, all employees, nonfarm business sector (Q).—Source 3 (4)

- 346. Index of real average hourly compensation, all employees, nonfarm business sector (Q).—Source 3 (4)
- 358. Index of output per hour, all persons, nonfarm business sector (Q).—Source
- 370. Index of output per hour, all persons, business sector (Q).—Source 3 (4, 23)
- 441. Civilian labor force (M).—Source 3 (2)
- 442. Civilian employment (M).—Source 3 (2)
- 451. Civilian labor force participation rate, males 20 years and over (M).—Source 3 (2)
- **452.** Civilian labor force participation rate, females 20 years and over (M).— Source 3 (2)
- 453. Civilian labor force participation rate, both sexes 16–19 years of age (M)— Source 3 (2)
- 525. Defense Department prime contract awards for work performed in the United States (M).—U.S. Department of Defense, Office of the Assistant Secretary of Defense (Comptroller), Washington Headquarters Services, Directorate for Information Operations and Reports; seasonal adjustment by Bureau of Economic Analysis (5)
- 548. Manufacturers' new orders, defense products (M).—Source 2 (5)
- 557. Index of industrial production, defense and space equipment (M).—Source 4 (5)
- 564. Federal Government purchases, national defense (Q).—Source 1 (5, 23)
- 570. Employment, defense products industries (M).—Sources 1 and 3 (5)
- 602. Exports, excluding military aid shipments (M).—Sources 1 and 2 (5)
- 604. Exports of domestic agricultural products (M).—Sources 1 and 2 (5)
- 606. Exports of nonelectrical machinery (M).—Sources 1 and 2 (5)
- 612. General imports (M).—Source 2 (5)
- 614. Imports of petroleum and petroleum products (M).—Sources 1 and 2 (5)
- 616. Imports of automobiles and parts (M).—Sources 1 and 2 (5)
- 618. Merchandise exports, adjusted, excluding military (Q).—Source 1 (5, 23)
- 620. Merchandise imports, adjusted, excluding military (Q).—Source 1 (5, 23)
- 622. Balance on merchandise trade (Q).—Source 1 (5)
- 721. Organisation for Economic Co-operation and Development, European countries, index of industrial production (M).—Organisation for Economic Co-operation and Development (Paris) (5, 24)
- 722. United Kingdom, index of industrial production (M).—Central Statistical Office (London) (5, 24)
- 723. Canada, index of industrial production (M).—Statistics Canada (Ottawa) (5, 24)

- 725. Federal Republic of Germany, index of industrial production (M).— Statistisches Bundesamt (Wiesbaden) (5, 24)
- 726. France, index of industrial production (M).—Institut National de la Statistique et des Etudes Economiques (Paris) (5, 24)
- Italy, index of industrial production (M).—Istituto Centrale di Statistica (Rome) (5, 24)
- Japan, index of industrial production (M).—Ministry of International Trade and Industry (Tokyo) (5, 24)
- 732. United Kingdom, consumer price index (M).—Department of Employment (London); percent changes seasonally adjusted by Bureau of Economic Analysis (5, 25)
- 733. Canada, consumer price index (M).—Statistics Canada (Ottawa); percent changes seasonally adjusted by Bureau of Economic Analysis (5, 25)
- 735. Federal Republic of Germany, consumer price index (M).—Statistisches Bundesamt (Wiesbaden); percent changes seasonally adjusted by Bureau of Economic Analysis (5, 25)
- 736. France, consumer price index (M).—Institut National de la Statistique et des Etudes Economiques (Paris); percent changes seasonally adjusted by Bureau of Economic Analysis (5, 25)
- 737. Italy, consumer price index (M).—Istituto Centrale di Statistica (Rome); percent changes seasonally adjusted by Bureau of Economic Analysis (5, 25)
- 738. Japan, consumer price index (M).—Bureau of Statistics, Office of the Prime Minister (Tokyo); percent changes seasonally adjusted by Bureau of Economic Analysis (5, 25)
- 742. United Kingdom, index of stock prices (M).—Central Statistical Office (London) (5, 26)
- 743. Canada, index of stock prices (M).—Toronto Stock Exchange (Toronto) (5, 26)
- 745. Federal Republic of Germany, index of stock prices (M).—Statistisches Bundesamt (Wiesbaden) (5, 26)
- 746. France, index of stock prices (M).—Institut National de la Statistique et des Etudes Economiques (Paris) (5, 26)
- 747. Italy, index of stock prices (M).—Banca d'Italia (Rome) (5, 26)
- 748. Japan, index of stock prices (M).—Bank of Japan (Tokyo) (5, 26)
- 750. Index of weighted-average exchange value of U.S. dollar against currencies of 10 industrial countries (M).—Source 4 (5, 27)
- 752. United Kingdom, exchange rate per U.S. dollar (M).—Sources 1 and 4 (5, 27)
- 753. Canada, exchange rate per U.S. dollar (M).—Source 4 (5, 27)
- 755. Federal Republic of Germany, exchange rate per U.S. dollar (M).—Source 4 (5, 27)
- 756. France, exchange rate per U.S. dollar (M).—Source 4 (5, 27)
- 757. Italy, exchange rate per U.S. dollar (M).—Source 4 (5, 27)
- 758. Japan, exchange rate per U.S. dollar (M).—Source 4 (5, 27)