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Virginia H. Mannering: (202) 606-5304
Recorded message: 606-5306

BEA 03-02

GROSS DOMESTIC PRODUCT: FOURTH QUARTER 2002 (ADVANCE)

Real gross domestic product -- the output of goods and services produced by labor and property located in the United States -- increased at an annual rate of 0.7 percent in the fourth quarter of 2002, according to advance estimates released by the Bureau of Economic Analysis. In the third quarter, real GDP increased 4.0 percent.

The Bureau emphasized that the fourth-quarter "advance" estimates are based on source data that are incomplete or subject to further revision by the source agency (see the box on page 4). The fourth-quarter "preliminary" estimates, based on more comprehensive data, will be released on February 28, 2003.

The major contributors to the increase in real GDP in the fourth quarter were government spending, personal consumption expenditures (PCE), equipment and software, and residential fixed investment. The contributions of these components were partly offset by negative contributions from private inventory investment, from nonresidential structures, and from exports. Imports, which are a subtraction in the calculation of GDP, increased.

The deceleration in real GDP growth in the fourth quarter primarily reflected a sharp deceleration in PCE and downturns in private inventory investment and in exports that were partly offset by a smaller decrease in nonresidential structures and by accelerations in federal government spending and in residential fixed investment. Imports increased slightly more than in the third quarter.

NOTE.--Quarterly estimates are expressed at seasonally adjusted annual rates, unless otherwise specified. Quarter-to-quarter dollar changes are differences between these published estimates. Percent changes are calculated from unrounded data and annualized. "Real" estimates are in chained (1996) dollars. Price indexes are chain-type measures.

This news release is available on BEA's Web site at <www.bea.gov/bea/rels.htm>.

The price index for gross domestic purchases, which measures prices paid by U.S. residents, increased 1.8 percent in the fourth quarter, compared with an increase of 1.2 percent in the third. Excluding food and energy prices, the price index for gross domestic purchases increased 1.4 percent in the fourth quarter, compared with an increase of 1.2 percent in the third.

Real personal consumption expenditures increased 1.0 percent in the fourth quarter, compared with an increase of 4.2 percent in the third. Durable goods purchases decreased 7.3 percent, in contrast to an increase of 22.8 percent. Nondurable goods increased 3.9 percent, compared with an increase of 1.0 percent. Services expenditures increased 1.3 percent, compared with an increase of 2.3 percent.

Real nonresidential fixed investment increased 1.5 percent in the fourth quarter, in contrast to a decrease of 0.8 percent in the third. Nonresidential structures decreased 9.3 percent, compared with a decrease of 21.4 percent. Equipment and software increased 5.0 percent, compared with an increase of 6.7 percent. Real residential fixed investment increased 6.8 percent, compared with an increase of 1.1 percent.

Real exports of goods and services decreased 1.7 percent in the fourth quarter, in contrast to an increase of 4.6 percent in the third. Real imports of goods and services increased 3.7 percent, compared with an increase of 3.3 percent.

Real federal government consumption expenditures and gross investment increased 10.1 percent in the fourth quarter, compared with an increase of 4.3 percent in the third. National defense increased 11.2 percent, compared with an increase of 6.9 percent. Nondefense increased 8.3 percent, in contrast to a decrease of 0.3 percent. Real state and local government consumption expenditures and gross investment increased 1.7 percent, compared with an increase of 2.2 percent.

The real change in private inventories subtracted 0.56 percentage point from the fourth-quarter change in real GDP, after adding 0.58 percentage point to the third-quarter change. Private businesses increased inventories \$3.3 billion in the fourth quarter, following increases of \$18.8 billion in the third quarter and \$4.9 billion in the second.

Real final sales of domestic product -- GDP less change in private inventories -- increased 1.3 percent in the fourth quarter, compared with an increase of 3.4 percent in the third.

Gross domestic purchases

Real gross domestic purchases -- purchases by U.S. residents of goods and services wherever produced -- increased 1.4 percent in the fourth quarter, compared with an increase of 3.9 percent in the third.

Disposition of personal income

Current-dollar personal income increased \$88.3 billion in the fourth quarter, compared with an increase of \$79.3 billion in the third. Personal income increased 4.0 percent, compared with an increase of 3.6 percent. Personal tax and nontax payments decreased \$0.7 billion, compared with a decrease of \$14.5 billion. Personal tax and nontax payments decreased 0.3 percent, compared with a decrease of 5.1 percent.

Disposable personal income increased \$89.0 billion in the fourth quarter, compared with an increase of \$93.8 billion in the third. Real disposable personal income increased 2.6 percent, compared with an increase of 3.1 percent.

Personal outlays increased \$46.6 billion in the fourth quarter, compared with an increase of \$105.1 billion in the third. Personal outlays increased 2.5 percent, compared with an increase of 5.7 percent. Personal saving -- disposable personal income less personal outlays -- was \$345.3 billion in the fourth quarter, compared with \$303.0 billion in the third. The personal saving rate -- saving as a percentage of disposable personal income -- increased from 3.8 percent in the third quarter to 4.3 percent in the fourth.

Current-dollar GDP

Current-dollar GDP -- the market value of the nation's output of goods and services -- increased 2.5 percent, or \$66.1 billion, in the fourth quarter to a level of \$10,572.3 billion. In the third quarter, current-dollar GDP increased 5.1 percent, or \$129.3 billion.

2002 GDP

Real GDP increased 2.4 percent in 2002 (that is, from the 2001 annual level to the 2002 annual level), compared with an increase of 0.3 percent in 2001.

The major contributors to the increase in real GDP in 2002 were personal consumption expenditures (PCE), government spending, and private inventory investment. The contributions of these components were partly offset by negative contributions from nonresidential fixed investment and from exports. Imports, which are a subtraction in the calculation of GDP, increased in 2002.

The acceleration in real GDP in 2002 primarily reflected an upturn in private inventory investment, an acceleration in PCE, and smaller decreases in equipment and software and in exports that were partly offset by a larger decrease in nonresidential structures. There was also an upturn in imports in 2002.

The price index for gross domestic purchases increased 1.2 percent in 2002, compared with an increase of 1.9 percent in 2001.

Current-dollar GDP increased 3.6 percent, or \$359.9 billion, in 2002. Current-dollar GDP increased 2.6 percent, or \$257.6 billion, in 2001.

During 2002 (that is, measured from the fourth quarter of 2001 to the fourth quarter of 2002), real GDP increased 2.8 percent. Real GDP increased 0.1 percent during 2001. The price index for gross domestic purchases increased 1.6 percent during 2002, compared with an increase of 1.3 percent during 2001.

Information on the assumptions used for unavailable source data is provided in a technical note that is posted with the news release on BEA's Web site. Within a few days after the release, a detailed "Key Source Data and Assumptions" file is posted on the Web site. In the middle of each month, an analysis of the current quarterly estimates of GDP and related series is made available on the Web site; click on Survey of Current Business, "Business Situation."

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Summary BEA estimates are available on recorded messages at the time of public release at the following telephone numbers:

(202)	606-5306	Gross domestic product
	606-5303	Personal income and outlays
	606-5362	U.S. international transactions

Most of BEA's estimates and analyses are published in the Survey of Current Business, BEA's monthly journal. Subscriptions and single copies of the printed Survey are for sale by the Superintendent of Documents, U.S. Government Printing Office. Internet: <bookstore.gpo.gov>; phone: 202-512-1800; fax: 202-512-2250; mail: Stop SSOP, Washington, DC 20402-0001.

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Next release -- February 28, 2003, at 8:30 A.M. EST for:
Gross Domestic Product: Fourth Quarter 2002 (Preliminary)

Comparisons of Revisions to GDP

Quarterly estimates of GDP are released on the following schedule: "Advance" estimates, based on source data that are incomplete or subject to further revision by the source agency, are released near the end of the first month after the end of the quarter; as more detailed and more comprehensive data become available, "preliminary" and "final" estimates are released near the end of the second and third months, respectively. The "latest" estimates reflect the results of both annual and comprehensive revisions.

Annual revisions are usually carried out each summer and cover the quarters of the most recent calendar year and of the 2 preceding years. Comprehensive (or benchmark) revisions are carried out at about 5-year intervals and incorporate definitional and classificational changes that update the accounts to portray more accurately the evolving U.S. economy and statistical changes that update the accounts to reflect the introduction of new and improved methodologies and the incorporation of newly available and revised source data.

The table below shows comparisons of the revisions between quarterly percent changes of GDP for the different vintages of the estimates. These comparisons can be used to assess the likely size of future revisions. For example, two-thirds of the revisions between the quarterly change in the advance estimate of real GDP and that in the final estimate were within a range of -0.6 to +0.9 percentage point. Thus, based on past history, the fourth-quarter change in real GDP now estimated at 0.7 percent at an annual rate, is not likely to be revised below 0.1 percent or above 1.6 percent in the next two releases.

Revisions Between Quarterly Percent Changes of GDP: Vintage Comparisons [Annual rates]

Vintages compared	Average without regard to sign	Range	
		Two-thirds of revisions	Nine-tenths of revisions
<u>Current-dollar GDP</u>			
Advance to preliminary.....	0.6	-0.5 to 0.8	-0.9 to 1.4
Advance to final.....	.7	- .7 to 1.0	-1.0 to 1.6
Preliminary to final.....	.3	- .3 to .4	- .6 to .7
Advance to latest.....	1.3	- .6 to 2.0	-1.8 to 3.6
Preliminary to latest.....	1.2	-1.0 to 1.6	-1.5 to 3.0
Final to latest.....	1.2	-0.9 to 1.8	-1.6 to 2.9
<u>Real GDP</u>			
Advance to preliminary.....	0.5	-0.5 to 0.7	-0.9 to 1.2
Advance to final.....	.6	- .6 to .9	-1.0 to 1.3
Preliminary to final.....	.3	- .3 to .4	- .5 to .6
Advance to latest.....	1.4	-1.1 to 1.9	-1.5 to 3.2
Preliminary to latest.....	1.3	-1.0 to 1.9	-1.7 to 2.8
Final to latest.....	1.4	-1.1 to 2.1	-1.7 to 3.0

NOTE.--These comparisons are based on the period from 1978 through 2001 for the first three comparisons in each group and on the period from 1978 through 1999 for the last three comparisons in each group.

Table 1.—Real Gross Domestic Product and Related Measures: Percent Change From Preceding Period
[Percent]

	2000	2001	2002	Seasonally adjusted at annual rates															
				1999				2000				2001				2002			
				I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Gross domestic product (GDP)	3.8	0.3	2.4	3.0	2.0	5.2	7.1	2.6	4.8	0.6	1.1	-0.6	-1.6	-0.3	2.7	5.0	1.3	4.0	0.7
Personal consumption expenditures	4.4	2.5	3.1	4.7	5.7	4.6	5.0	5.3	3.0	3.8	2.1	2.4	1.4	1.5	6.0	3.1	1.8	4.2	1.0
Durable goods	8.2	6.0	7.4	5.5	14.4	10.3	10.1	17.8	-3.7	8.1	-5.3	11.5	5.3	4.6	33.6	-6.3	2.0	22.8	-7.3
Nondurable goods	3.9	2.0	3.1	4.9	4.8	2.5	7.5	2.2	4.9	2.0	2.7	2.3	-3	1.3	3.6	7.9	-1	1.0	3.9
Services	3.8	2.0	2.2	4.4	4.4	4.5	2.8	4.4	3.6	3.9	3.3	.6	1.5	.9	2.1	2.9	2.7	2.3	1.3
Gross private domestic investment	6.2	-10.7	.5	7.2	-4.7	11.0	13.7	2.3	17.3	-6.0	-3.4	-19.7	-17.6	-5.2	-17.3	18.2	7.9	3.6	-7
Fixed investment	6.1	-3.8	-3.2	7.7	7.1	5.9	2.9	13.3	6.7	2	-2.4	-2.2	-11.1	-4.3	-8.9	-5	-1.0	-3	3.1
Nonresidential	7.8	-5.2	-5.8	7.7	7.9	7.7	3.0	15.0	10.2	3.5	-3.2	-5.4	-14.5	-6.0	-10.9	-5.8	-2.4	-8	1.5
Structures	6.5	-1.7	-16.4	-4.1	-5.1	-6.3	6.1	13.8	8.2	12.1	3.6	-3.1	-8.4	2.9	-30.1	-14.2	-17.6	-21.4	-9.3
Equipment and software	8.2	-6.4	-1.8	12.0	12.5	2.1	15.5	10.9	.9	-5.4	-6.3	-16.7	-9.2	-2.5	-2.7	3.3	6.7	5.0	5.0
Residential	1.1	.3	3.8	7.6	4.9	.9	2.7	8.3	-3.0	-9.3	0	8.2	-5	.4	-3.5	14.2	2.7	1.1	6.8
Change in private inventories .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Net exports of goods and services .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Exports	9.7	-5.4	-1.3	-6.9	4.3	10.6	12.6	7.7	14.6	11.6	-4.0	-6.0	-12.4	-17.3	-9.6	3.5	14.3	4.6	-1.7
Goods	11.3	-5.9	-3.3	-9.0	4.6	13.2	15.3	6.7	16.1	19.5	-7.1	-6.1	-16.1	-18.6	-7.9	-3.4	15.9	4.1	-6.7
Services	6.0	-4.0	3.4	-1.5	3.4	4.7	6.4	10.2	11.2	-5.9	4.4	-6.0	-2.5	-13.9	-13.8	21.7	10.7	5.9	10.3
Imports	13.2	-2.9	3.5	8.4	15.4	14.5	9.4	14.7	18.6	13.8	-1.6	-7.9	-6.8	-11.8	-5.3	8.5	22.2	3.3	3.7
Goods	13.5	-3.3	3.7	10.1	17.1	15.4	9.8	13.7	20.3	13.6	-1.8	-9.2	-9.4	-9.6	-3.3	3.7	27.9	3.4	2.7
Services	11.6	-5	1.9	.2	6.8	9.7	7.1	20.6	9.6	15.1	-5	.3	8.5	-23.2	-16.5	35.7	-2.1	3.1	8.6
Government consumption expenditures and gross investment	2.7	3.7	4.4	3.0	2.9	5.3	7.1	-1.2	4.6	-1.0	2.9	5.7	5.6	-1.1	10.5	5.6	1.4	2.9	4.6
Federal	1.3	4.8	7.4	-3.3	2.6	7.4	9.9	-13.2	16.0	-7.2	2.0	9.5	6.0	1.2	13.5	7.4	7.5	4.3	10.1
National defense	-1	5.0	9.3	-5.2	-2	14.0	10.0	-19.9	15.0	-6.1	4.7	8.3	2.7	4.6	14.3	11.6	7.8	6.9	11.2
Nondefense	3.6	4.5	4.2	.2	7.9	-3.6	9.7	.3	17.9	-9.2	-2.6	11.8	12.0	-4.5	12.1	.4	6.9	-3	8.3
State and local	3.5	3.1	2.9	6.5	3.0	4.2	5.6	5.6	-8	2.4	3.3	3.8	5.4	-2.3	8.9	4.6	-1.7	2.2	1.7
Addenda:																			
Final sales of domestic product	3.7	1.5	1.8	3.1	4.1	4.3	5.2	4.4	3.1	1.7	1.3	2.8	-.4	-.2	4.2	2.4	-.1	3.4	1.3
Gross domestic purchases	4.4	.4	2.9	4.8	3.3	5.8	6.8	3.6	5.7	1.2	1.3	-1.1	-.1	2.9	5.6	2.6	3.9	1.4	.....
Final sales to domestic purchasers	4.3	1.6	2.3	4.9	5.4	4.9	5.0	5.4	3.9	2.4	1.4	2.2	0	.1	4.3	3.0	1.3	3.3	1.9
Gross national product (GNP)	3.7	2	.....	4.4	2.1	4.8	7.6	2.2	5.1	.2	1.6	-1.4	-.8	-1.1	3.7	3.7	.4	4.4	.....
Disposable personal income	4.8	1.8	4.5	2.7	.8	1.5	4.8	8.4	4.8	4.3	1.8	-1	-.6	10.5	-7.6	14.5	3.9	3.1	2.6
Current-dollar measures:																			
GDP	5.9	2.6	3.6	4.9	3.5	6.5	8.9	5.7	7.3	2.2	3.2	3.0	.9	1.9	2.2	6.5	2.5	5.1	2.5
Final sales of domestic product	5.9	3.9	3.0	5.0	5.7	5.6	7.0	7.6	5.5	3.4	3.4	6.6	2.1	2.0	3.6	3.7	1.2	4.5	3.1
Gross domestic purchases	7.0	2.4	4.1	6.3	5.5	7.8	9.1	7.4	8.0	3.4	3.4	2.1	.6	-.2	3.4	6.9	4.9	5.2	3.2
Final sales to domestic purchasers	7.0	3.6	3.5	6.4	7.6	6.9	7.3	9.3	6.2	4.6	3.6	5.5	1.7	-.1	4.8	4.2	3.6	4.6	3.8
GNP	5.9	2.6	.....	6.3	3.7	6.1	9.4	5.3	7.5	1.9	3.7	2.2	1.7	1.1	3.2	5.1	1.6	5.5	.....
Disposable personal income	7.4	3.8	5.9	4.0	3.1	3.7	7.3	12.2	7.2	6.4	4.0	3.2	1.2	10.4	-6.9	15.8	6.7	4.9	4.6

See "Explanatory Note" at the end of the tables.

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

	2000	2001	2002	Seasonally adjusted at annual rates															
				1999				2000				2001				2002			
				I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Percent change at annual rate:																			
Gross domestic product	3.8	0.3	2.4	3.0	2.0	5.2	7.1	2.6	4.8	0.6	1.1	-0.6	-1.6	-0.3	2.7	5.0	1.3	4.0	0.7
Percentage points at annual rates:																			
Personal consumption expenditures	2.94	1.67	2.12	3.06	3.72	3.14	3.45	3.54	2.11	2.54	1.37	1.53	.92	.97	4.05	2.22	1.22	2.93	.67
Durable goods .....	.65	.48	.60	.43	1.09	.81	.81	1.36	-.30	.63	-.44	.87	.42	.36	2.45	-.55	.16	1.74	-.64
Nondurable goods .....	.77	.39	.62	.94	.93	.51	1.48	.45	.99	.40	.52	.45	-.07	.25	.73	1.57	-.02	.22	.77
Services	1.51	.80	.89	1.70	1.70	1.81	1.16	1.73	1.43	1.51	1.29	.21	.57	.35	.87	1.20	1.08	.97	.55
Gross private domestic investment	1.08	-1.90	.08	1.25	-.86	1.85	2.32	.39	2.92	-1.09	-.55	-3.65	-3.09	-.81	-2.88	2.53	1.16	.55	-1.0
Fixed investment	1.03	-.65	-.51	1.26	1.18	1.01	.53	2.15	1.15	.04	-.41	-.38	-1.95	-.72	-1.49	-.07	-.15	-.03	.46
Nonresidential .....	.98	-.66	-.68	.95	.97	.97	.41	1.80	1.28	.46	-.41	-.71	-1.93	-.73	-1.33	-.66	-.27	-.08	.16
Structures .....	.20	-.05	-.52	-.14	-.17	-.20	.18	.40	.25	.37	.12	-.10	-.29	.10	-.12	-.44	-.53	-.62	-.24
Equipment and software .....	.78	-.61	-.16	1.08	1.14	1.17	.22	1.41	1.03	.09	-.53	-.61	-1.64	-.83	-.21	-.22	.26	.53	.40
Residential .....	.05	.01	.17	.32	.21	.04	.12	.35	-.13	-.42	0	.34	-.02	.02	-.16	.60	.12	.05	.30
Change in private inventories	-.06	-1.24	.60	-.01	-2.04	.84	1.80	-1.77	1.77	-1.12	-.10	-3.27	-1.14	-.09	-1.39	2.60	1.31	.58	-.56
Net exports of goods and services	-.75	-.18	-.61	-1.77	-1.41	-.75	.04	-1.17	-1.00	-.72	-.23	.53	-.42	-.24	-.28	-.75	-1.40	-.01	-.68
Exports	1.04	-.59	-.14	-.78	.43	1.08	1.31	.82	1.53	1.25	-.46	-.69	-1.42	-1.94	-.99	.33	1.29	.45	-.17
Goods .....	.85	-.47	-.24	-.72	.33	.94	1.11	.51	1.18	1.44	-.60	-.49	-1.34	-1.49	-.56	-.23	.99	.28	-.47
Services .....	.19	-.13	.10	-.06	.10	.14	.20	.31	.35	-.19	.14	-.20	-.08	-.45	-.42	.56	.30	.17	.30
Imports	-1.79	.42	-.47	-.99	-1.84	-1.83	-1.27	-1.99	-2.54	-1.97	.23	1.22	1.00	1.70	.70	-1.08	-2.69	-.47	-.51
Goods	-1.54	.40	-.40	-1.01	-1.72	-1.64	-1.12	-1.56	-2.32	-1.64	.22	1.21	1.18	1.17	.37	-.40	-2.74	-.40	-.31
Services	-.24	.01	-.07	.02	-.12	-.19	-.15	-.43	-.21	-.32	.01	.01	-.18	.53	.33	-.68	.05	-.07	-.20
Government consumption expenditures and gross investment .....	.49	.65	.81	.51	.50	.93	1.26	-.20	.83	-.18	.51	.99	1.00	-.21	1.85	1.04	.27	.56	.86
Federal .....	.08	.29	.47	-.21	.15	.44	.60	-.85	.91	-.45	.12	.54	.36	.07	.80	.47	.47	.29	.65
National defense	0	.19	.37	-.21	-.01	.52	.39	-.86	.54	-.24	.17	.30	1.0	.18	.54	.46	.32	.29	.46
Nondefense .....	.08	.10	.10	0	.16	-.08	.21	.01	.37	-.21	-.06	.24	.25	-.11	.26	.01	.16	-.01	.19
State and local .....	.41	.36	.35	.72	.34	.49	.67	.65	-.08	.28	.39	.45	.64	-.28	1.05	.56	-.21	.27	.21

See "Explanatory Note" at the end of the tables.

Table 3.—Gross Domestic Product and Related Measures: Level and Change From Preceding Period

	Billions of current dollars						Billions of chained (1996) dollars										
	2002	Seasonally adjusted at annual rates					2002	Seasonally adjusted at annual rates					Change from preceding period				
		2001	2002					2001	2002					2002	2002		
			IV	I	II	III			IV	IV	I	II	III		IV	III	IV
Gross domestic product (GDP)	10,442.1	10,152.9	10,313.1	10,376.9	10,506.2	10,572.3	9,436.1	9,248.8	9,363.2	9,392.4	9,485.6	9,503.2	221.6	93.2	17.6		
Personal consumption expenditures	7,300.9	7,099.9	7,174.2	7,254.7	7,360.7	7,413.8	6,573.0	6,464.0	6,513.8	6,542.4	6,609.9	6,625.7	195.8	67.5	15.8		
Durable goods	872.4	882.6	859.0	856.9	897.8	876.0	1,000.5	992.0	975.9	980.7	1,032.4	1,012.9	68.6	51.7	-19.5		
Motor vehicles and parts	376.1	399.5	365.8	362.1	400.7	375.9	382.3	400.4	370.0	369.1	407.6	382.6	20.4	38.5	-25.0		
Furniture and household equipment	319.1	311.5	317.1	319.1	319.2	321.1	438.7	413.6	428.2	435.2	441.4	449.8	40.7	6.2	8.4		
Other	177.2	171.5	176.1	175.8	177.9	178.9	186.0	178.9	184.2	184.1	187.0	188.7	10.7	2.9	1.7		
Nondurable goods	2,113.9	2,044.4	2,085.1	2,108.2	2,116.9	2,145.4	1,928.0	1,885.0	1,921.4	1,920.9	1,925.8	1,944.2	58.2	4.9	18.4		
Food	1,028.0	1,002.8	1,025.0	1,023.9	1,024.8	1,038.3	901.1	887.1	901.4	899.2	897.9	906.0	14.1	-1.3	8.1		
Clothing and shoes	324.2	317.4	325.8	323.9	321.0	326.1	356.9	344.8	355.8	355.1	355.3	361.3	19.2	.2	6.0		
Gasoline, fuel oil, and other energy goods	173.7	156.7	156.2	174.7	178.2	185.6	157.3	153.4	157.2	156.5	157.5	157.9	6.1	1.0	.4		
Gasoline and oil	158.9	142.2	142.3	160.7	163.5	168.9	144.9	141.4	145.1	144.7	145.4	144.6	6.1	.7	-8		
Fuel oil and coal	14.8	14.5	13.9	14.0	14.7	16.7	12.6	12.2	12.4	12.1	12.4	13.5	0	.3	1.1		
Other	588.0	567.5	578.0	585.6	592.9	595.3	515.9	502.0	510.1	513.1	518.0	522.5	20.4	4.9	4.5		
Services	4,314.5	4,172.9	4,230.1	4,289.5	4,346.0	4,392.5	3,673.6	3,616.6	3,642.2	3,666.2	3,687.0	3,699.1	78.7	20.8	12.1		
Housing	1,071.5	1,035.5	1,051.7	1,066.0	1,078.0	1,090.4	880.1	869.6	874.0	878.5	882.1	885.8	14.1	3.6	3.7		
Household operation	403.1	396.9	399.2	400.9	406.3	406.0	382.8	377.7	381.3	382.9	384.7	382.3	.2	1.8	-2.4		
Electricity and gas	145.7	143.1	143.9	144.9	147.4	146.6	134.1	130.2	133.5	133.6	135.7	133.8	-.4	2.1	-1.9		
Other household operation	257.5	253.8	255.4	256.1	258.9	259.5	248.8	247.8	248.0	249.5	249.1	248.7	.6	-.4	-.4		
Transportation	275.9	269.0	273.3	275.6	276.1	278.7	250.4	248.6	250.9	250.3	249.8	250.5	-.7	-.5	.7		
Medical care	1,149.0	1,103.1	1,119.0	1,139.3	1,158.8	1,179.0	978.6	954.9	963.4	974.7	984.4	992.1	40.3	9.7	7.7		
Recreation	285.1	276.6	279.0	283.8	285.9	291.6	237.4	234.8	235.6	237.1	237.9	239.9	4.2	0	2.8		
Other	1,129.8	1,091.8	1,107.8	1,123.8	1,140.9	1,146.7	942.4	929.2	935.3	941.0	947.0	946.3	19.7	6.0	-.7		
Gross private domestic investment	1,586.3	1,500.7	1,559.4	1,588.0	1,597.3	1,600.5	1,582.8	1,490.3	1,554.0	1,583.9	1,598.0	1,595.3	8.2	14.1	-2.7		
Fixed investment	1,587.8	1,597.2	1,589.4	1,584.6	1,579.7	1,597.5	1,576.1	1,578.4	1,576.4	1,572.6	1,571.6	1,583.6	-51.3	-1.0	12.0		
Nonresidential	1,116.9	1,149.8	1,126.8	1,115.8	1,109.8	1,115.1	1,182.8	1,206.4	1,188.4	1,181.1	1,178.7	1,183.2	-72.3	-2.4	4.5		
Structures	269.3	302.3	288.3	275.2	259.4	254.4	226.5	252.7	243.2	231.7	218.2	212.9	-.44.4	-13.5	-5.3		
Nonresidential buildings, including farm	178.9	200.4	192.4	182.3	171.1	169.6	145.3	163.5	157.1	148.2	139.1	137.0	-33.4	-9.1	-2.1		
Utilities	53.3	54.4	56.3	53.9	51.5	51.5	47.5	49.3	50.8	48.4	45.6	45.4	-2.8	-2.8	-.2		
Mining exploration, shafts, and wells	30.6	40.4	32.3	31.7	31.0	27.6	29.3	34.8	30.2	30.3	29.9	26.7	-.4	-.4	-3.2		
Other structures	6.5	7.2	7.3	7.3	5.8	5.7	5.6	6.3	6.3	6.3	5.0	4.9	-3.7	-1.3	-.1		
Equipment and software	847.6	847.4	838.5	840.7	850.4	860.7	970.4	960.3	953.7	961.4	977.2	989.3	-17.8	15.8	12.1		
Information processing equipment and																	
software	399.9	385.5	388.7	397.1	406.9	407.0	563.4	531.8	540.4	557.0	575.2	580.8	14.9	18.2	5.6		
Computers and peripheral equipment	74.4	69.3	71.9	72.8	76.8	75.9	284.1	243.3	262.1	271.6	297.6	304.9	44.2	26.0	7.3		
Software	183.2	178.9	177.2	181.0	186.3	188.3	186.1	180.6	179.0	184.3	189.4	191.9	4.1	5.1	2.5		
Other	142.4	137.3	139.6	143.3	143.8	142.8	157.9	151.2	154.1	158.5	159.7	159.2	-.6	1.2	-.5		
Industrial equipment	151.9	149.8	153.4	150.5	153.3	150.3	146.6	144.7	148.3	145.6	147.9	144.8	-.7	2.3	-3.1		
Transportation equipment	148.5	168.3	154.1	145.2	141.7	153.0	146.6	165.4	151.5	143.4	141.7	149.8	-17.0	-1.7	8.1		
Other	147.3	143.8	142.3	148.0	148.5	150.3	139.2	136.2	134.6	140.1	140.3	141.9	-.1	.2	1.6		
Residential	470.9	447.4	462.6	468.7	469.9	482.4	387.6	371.0	383.6	386.1	387.1	393.6	14.1	1.0	6.5		
Structures	461.4	438.0	453.0	459.2	460.4	472.8	377.9	361.5	373.9	376.4	377.4	383.8	13.9	1.0	6.4		
Single family	246.2	234.3	241.1	244.3	245.3	253.9	199.9	191.3	197.2	198.4	199.8	204.4	7.3	1.4	4.6		
Multifamily	33.6	31.8	34.2	34.2	33.4	32.4	26.3	25.1	27.0	26.8	26.2	25.1	1.9	-.6	-1.1		
Other	181.6	171.9	177.7	180.7	181.7	186.5	151.5	145.1	149.6	151.0	151.3	154.2	4.6	.3	2.9		
Equipment	9.6	9.4	9.5	9.6	9.5	9.6	9.7	9.6	9.7	9.7	9.7	9.8	.2	0	.1		
Change in private inventories	-1.5	-96.5	-29.9	3.4	17.6	3.0	-5	-98.4	-28.9	4.9	18.8	3.3	60.9	13.9	-15.5		
Farm	-7	3.0	5.3	.4	-2.3	-.4	-3	3.6	6.4	.8	-2.2	-.6	-2.3	-3.0	-4.2		
Construction, mining, and utilities	-1	4.7	1.6	-1.1	-2.5	1.6	0	4.3	1.6	-1.0	-2.3	1.5	-.6	-1.3	3.8		
Manufacturing	-11.3	-39.6	-31.1	-14.2	-2.7	2.9	-11.4	-40.2	-31.9	-14.1	-2.6	2.9	24.8	11.5	5.5		
Wholesale trade	-6.5	-25.4	-19.5	-9.0	7.1	-.4	-6.3	-26.8	-19.8	-8.7	7.9	-.4	10.2	16.6	-12.5		
Retail trade	14.6	-41.5	13.8	22.2	15.6	6.6	14.4	-40.6	13.8	22.0	15.5	6.3	34.7	-.6	-9.2		
Other industries	2.6	2.3	0	5.1	2.3	2.9	2.5	2.3	0	5.0	2.3	2.8	-.1	-2.7	.5		
Net exports of goods and services	-418.1	-344.5	-360.1	-425.6	-432.9	-453.9	-482.2	-425.3	-446.6	-487.4	-488.0	-506.9	-66.3	-.6	-18.9		
Exports	1,017.6	971.1	977.5	1,018.1	1,038.6	1,036.2	1,061.7	1,021.8	1,030.6	1,065.5	1,077.7	1,073.0	-14.4	12.2	-4.7		
Goods	705.9	687.7	679.8	709.4	722.6	711.9	759.4	744.6	738.1	765.8	773.5	760.3	-.25.8	7.7	-13.2		
Foods, feeds, and beverages	49.3	49.7	49.7	48.6	49.5	49.6	60.7	63.1	63.4	61.3	59.4	58.7	-.1	-1.9	-.7		
Industrial supplies and materials	153.6	147.2	144.9	155.6	156.3	157.7	162.7	159.8	158.5	165.8	163.1	163.5	.5	-2.7	.4		
Capital goods, except automotive	293.5	288.7	284.4	294.1	301.7	293.6	327.2	320.9	316.0	327.7	336.8	328.3	-.28.6	9.1	-8.5		
Automotive vehicles, engines, and parts ...	78.5	74.3	73.8	80.4	82.5	77.4	76.1	72.3	71.7	78.1	79.9	74.7	2.7	1.8	-5.2		
Consumer goods, except automotive	84.9	84.5	82.2	84.2	86.0	87.3	85.0	83.9	82.3	84.5	86.0	87.2	-.2	1.5	1.2		
Other	46.1	43.3	44.8	46.4	46.7	46.4	47.4	44.9	46.6	47.9	47.7	47.2	2.9	-.2	-.5		
Services	311.7	283.4	297.7	308.8	316.0	324.3	301.9	278.2	292.2	299.7	304.0	311.6	9.9	4.3	7.6		
Imports	1,435.7	1,315.6	1,337.5	1,443.7	1,471.5	1,490.1	1,543.9	1,447.2	1,477.1	1,552.9	1,565.7	1,579.9	51.9	12.8	14.2		
Goods	1,190.0	1,098.3	1,102.3	1,202.9	1,220.9	1,233.8	1,317.2	1,238.7	1,250.0	1,329.2	1,340.3	1,3					

Table 3.—Gross Domestic Product and Related Measures: Level and Change From Preceding Period—Continued

	Billions of current dollars						Billions of chained (1996) dollars								
	2002	Seasonally adjusted at annual rates					2002	Seasonally adjusted at annual rates					Change from preceding period		
		2001	2002					2001	2002				2002	2002	
			IV	I	II	III			IV	IV	I	II		III	IV
Government consumption expenditures and gross investment	1,973.1	1,896.8	1,939.5	1,959.8	1,981.1	2,011.9	1,712.8	1,674.5	1,697.3	1,703.3	1,715.6	1,735.1	72.4	12.3	19.5
Federal	693.5	646.9	672.0	688.2	697.7	716.0	612.9	587.2	597.8	608.7	615.1	630.2	42.3	6.4	15.1
National defense	447.5	412.8	431.7	442.1	451.2	464.8	400.0	378.0	388.5	395.8	402.5	413.3	34.0	6.7	10.8
Consumption expenditures	386.6	356.0	372.1	382.5	388.9	402.9	336.9	319.1	326.7	333.9	338.0	349.1	28.0	4.1	11.1
Gross investment	60.9	56.8	59.7	59.6	62.4	61.9	63.5	59.0	62.2	62.2	65.0	64.4	6.2	2.8	-6
Nondefense	246.0	234.1	240.3	246.1	246.5	251.2	213.0	209.1	209.3	212.9	212.7	217.0	8.6	-2	4.3
Consumption expenditures	199.7	187.5	194.2	198.6	200.9	205.1	167.6	163.7	164.3	166.5	167.9	171.6	6.5	1.4	3.7
Gross investment	46.3	46.6	46.1	47.5	45.5	46.1	45.8	45.9	45.4	47.0	45.1	45.6	2.2	-1.9	.5
State and local	1,279.6	1,249.8	1,267.5	1,271.6	1,283.3	1,295.9	1,100.0	1,087.1	1,099.3	1,094.7	1,100.6	1,105.3	30.6	5.9	4.7
Consumption expenditures	1,034.6	1,008.2	1,017.7	1,030.6	1,039.6	1,050.5	881.2	870.7	875.9	879.4	883.0	886.4	24.4	3.6	3.4
Gross investment	245.0	241.7	249.7	241.1	243.8	245.4	218.9	216.5	223.7	215.3	217.6	219.0	6.1	2.3	1.4
Residual							-88.1	-53.5	-71.2	-75.8	-102.5	-103.3	-51.6	-26.7	-8
Addenda:															
Final sales of domestic product	10,443.6	10,249.4	10,343.0	10,373.5	10,488.7	10,569.3	9,425.6	9,324.9	9,379.4	9,377.9	9,457.2	9,488.2	167.2	79.3	31.0
Gross domestic purchases	10,860.2	10,497.4	10,673.1	10,802.4	10,939.1	11,026.2	9,880.6	9,645.3	9,778.2	9,840.8	9,934.7	9,968.6	279.9	93.9	33.9
Final sales to domestic purchasers	10,861.7	10,593.9	10,703.1	10,799.0	10,921.5	11,023.2	9,870.0	9,722.3	9,794.4	9,826.0	9,906.1	9,953.4	225.1	80.1	47.3
Gross domestic product	10,442.1	10,152.9	10,313.1	10,376.9	10,506.2	10,572.3	9,436.1	9,248.8	9,363.2	9,392.4	9,485.6	9,503.2	221.6	93.2	17.6
Plus: Income receipts from the rest of the world		269.0	264.7	276.0	287.3			247.4	242.8	251.8	261.3			9.5	
Less: Income payments to the rest of the world		233.7	262.8	296.1	298.2			213.1	239.2	268.2	269.5			1.3	
Equals: Gross national product		10,188.1	10,314.9	10,356.8	10,495.3			9,283.5	9,367.5	9,376.7	9,477.9			101.2	
Net domestic product	9,048.9	8,814.3	8,949.6	8,987.0	9,101.0	9,157.9	8,052.1	7,926.7	8,017.7	8,017.0	8,085.5	8,088.2	146.7	68.5	2.7

NOTE.—Users are cautioned that particularly for components for which relative prices are changing rapidly, the use of chained-dollar estimates to calculate component shares or component contributions to real growth may be misleading even just a few years from the base year. For accurate estimates of the contributions to percent changes

in real GDP, use table 2.

See "Explanatory Note" at the end of the tables.

Table 4.—Chain-Type Price Indexes for Gross Domestic Product and Related Measures: Percent Change From Preceding Period

[Percent]

	2000	2001	2002	Seasonally adjusted at annual rates															
				1999				2000				2001				2002			
				I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Gross domestic product (GDP)	2.1	2.4	1.1	1.8	1.5	1.2	1.7	3.1	2.3	1.6	2.1	3.7	2.5	2.2	-0.5	1.3	1.2	1.0	1.8
Personal consumption expenditures	2.5	2.0	1.4	1.2	2.3	2.2	2.4	3.4	2.3	2.1	2.2	3.3	1.8	-1	.8	1.1	2.7	1.7	1.9
Durable goods	-1.7	-1.9	-2.8	-3.3	-1.9	-1.7	-2.0	-2.0	-8	-2.2	-1.2	-1.2	-3.4	-2.7	-1.5	-4.2	-2.9	-1.9	-2.2
Nondurable goods	3.8	1.5	.4	1.8	4.6	3.4	3.7	5.3	3.0	2.8	1.8	1.8	2.9	-1.4	-3.5	.2	4.6	.6	1.6
Services	2.8	3.1	2.7	1.9	2.0	2.3	2.7	3.6	2.5	2.6	3.2	5.1	2.3	1.1	3.5	2.7	3.0	3.0	3.0
Gross private domestic investment	1.0	1.2	-5	.2	-1	-5	.5	2.1	1.2	1.7	1.2	2.0	1.1	-4	-2	-1.5	-4	-1.1	1.4
Fixed investment	1.1	1.2	-.4	.3	0	-.4	.5	2.3	1.3	1.8	1.3	1.7	1.2	-.2	-.1	-1.5	-.2	-.9	1.4
Nonresidential .....	.1	.2	-1.4	-1.0	-1.5	-1.6	-.5	.7	.4	1.3	.5	.4	.1	-1.1	-1.6	-2.0	-1.4	-1.3	.4
Structures	4.0	5.0	-.7	1.3	1.8	2.2	3.2	5.3	4.0	4.6	5.3	10.5	4.2	-.3	-1.6	-3.6	.7	.4	2.1
Equipment and software	-1.2	-1.5	-1.6	-1.7	-2.5	-2.8	-1.6	-.7	-.8	.2	-1.1	-2.9	-1.4	-1.5	-1.6	-1.5	-2.1	-1.9	-2
Residential	4.4	4.1	2.0	4.1	4.5	3.3	3.2	7.0	3.9	3.1	3.7	5.6	4.5	2.5	3.7	0	2.6	0	4.0
Change in private inventories																			
Net exports of goods and services																			
Exports	1.4	-.8	-.2	-1.3	.4	.7	1.7	2.0	2.0	.8	.1	-.8	-1.7	-1.9	-3.8	-.8	3.0	3.5	.8
Goods	1.2	-.7	-.5	-1.4	-.3	.7	2.2	1.3	1.6	.4	.4	-.2	-1.5	-2.4	-3.7	-1.1	2.3	3.4	.9
Services	2.1	-1.0	.3	-1.0	2.1	.8	.5	3.9	3.0	2.0	-.4	-2.3	-2.1	-.6	-4.2	0	4.6	3.7	.6
Imports	4.5	-2.9	.3	-3.8	4.9	5.8	5.5	6.6	1.1	4.6	.9	-2.5	-5.9	-17.0	4.7	-1.6	11.1	4.4	1.4
Goods	4.8	-2.9	-1.6	-2.5	5.2	6.3	6.3	6.8	1.2	4.5	.8	-3.7	-6.4	-6.6	-11.1	-2.1	10.9	2.7	1.6
Services	3.3	-2.9	11.8	-10.0	3.7	3.7	1.7	5.9	.7	4.8	1.1	3.8	-3.2	-57.7	167.5	1.1	12.2	13.6	.7
Government consumption expenditures and gross investment	3.9	2.4	1.7	3.3	3.6	3.2	3.1	6.4	3.0	2.9	2.7	4.2	1.8	-.3	-.3	3.6	2.8	1.4	1.7
Federal	3.0	1.7	2.8	4.7	1.8	2.1	1.6	8.1	.7	1.6	.1	4.6	1.5	.5	-.4	8.4	2.3	1.3	.6
National defense	3.0	1.6	2.4	4.7	1.5	2.0	1.9	7.5	.7	2.0	.6	4.0	1.1	.6	-1.1	7.3	2.0	1.5	1.2
Nondefense	3.1	1.9	3.5	4.7	2.5	2.3	.9	9.3	.6	.9	-.7	5.6	2.2	.4	.7	10.4	2.9	1.0	-.4
State and local	4.3	2.7	1.1	2.5	4.5	3.7	3.9	5.5	4.2	3.6	4.0	4.1	1.9	-.8	-.3	1.1	3.1	1.5	2.2
Addenda:																			
Final sales of domestic product	2.1	2.4	1.1	1.8	1.6	1.3	1.7	3.1	2.4	1.7	2.1	3.6	2.5	2.2	-.5	1.3	1.2	1.1	1.8
Gross domestic purchases	2.5	1.9	1.2	1.4	2.1	1.9	2.2	3.7	2.2	2.2	2.1	3.3	1.7	-.2	.4	1.2	2.3	1.2	1.8
Final sales to domestic purchasers	2.5	1.9	1.2	1.4	2.1	1.9	2.2	3.7	2.2	2.2	2.1	3.2	1.7	-.1	.5	1.1	2.3	1.3	1.8
Gross national product (GNP)	2.1	2.4		1.8	1.5	1.2	1.7	3.1	2.3	1.6	2.1	3.7	2.5	2.2	-.5	1.3	1.2	1.0	
Implicit price deflators:																			
GDP	2.1	2.4	1.1	1.8	1.5	1.2	1.7	3.1	2.3	1.6	2.1	3.7	2.5	2.2	-.5	1.3	1.2	1.0	1.8
Gross domestic purchases	2.5	1.9	1.2	1.4	2.1	1.9	2.2	3.7	2.2	2.2	2.2	3.2	1.7	-.1	.4	1.2	2.3	1.2	1.8
GNP	2.1	2.4		1.8	1.5	1.2	1.7	3.1	2.3	1.7	2.1	3.7	2.5	2.2	-.5	1.4	1.2	1.0	

See "Explanatory Note" at the end of the tables.

Table 5.—Quantity and Price Indexes for Gross Domestic Product

[Index numbers, 1996=100]

	2000	2001	2002	Seasonally adjusted				
				2001	2002			
					IV	I	II	III
Gross domestic product:								
Chain-type quantity index	117.64	117.94	120.77	118.37	119.84	120.21	121.41	121.63
Chain-type price index	106.89	109.42	110.66	109.78	110.14	110.48	110.76	111.24
Implicit price deflator	106.89	109.42	110.66	109.78	110.14	110.48	110.76	111.25
Personal consumption expenditures:								
Chain-type quantity index	118.83	121.76	125.50	123.42	124.37	124.92	126.20	126.51
Chain-type price index	107.39	109.56	111.07	109.84	110.14	110.89	111.36	111.90
Durable goods:								
Chain-type quantity index	142.58	151.16	162.29	160.91	158.30	159.08	167.47	164.31
Chain-type price index	91.46	89.70	87.19	88.95	88.00	87.36	86.94	86.46
Nondurable goods:								
Chain-type quantity index	116.50	118.79	122.49	119.76	122.07	122.03	122.35	123.51
Chain-type price index	107.59	109.17	109.63	108.45	108.52	109.75	109.92	110.35
Services:								
Chain-type quantity index	115.67	117.98	120.57	118.69	119.54	120.32	121.01	121.40
Chain-type price index	110.85	114.32	117.44	115.39	116.15	117.00	117.88	118.75
Private fixed investment:								
Chain-type quantity index	139.52	134.20	129.96	130.16	129.99	129.68	129.60	130.59
Chain-type price index	100.00	101.16	100.74	101.19	100.82	100.76	100.52	100.87
Nonresidential:								
Chain-type quantity index	147.23	139.55	131.51	134.13	132.13	131.32	131.05	131.55
Chain-type price index	95.59	95.73	94.43	95.31	94.82	94.48	94.17	94.25
Residential:								
Chain-type quantity index	118.88	119.22	123.73	118.44	122.44	123.25	123.59	125.65
Chain-type price index	114.40	119.09	121.49	120.60	120.61	121.40	121.38	122.57
Exports of goods and services:								
Chain-type quantity index	130.09	123.10	121.45	116.89	117.89	121.89	123.28	122.74
Chain-type price index	96.83	96.10	95.87	95.06	94.88	95.58	96.41	96.60
Imports of goods and services:								
Chain-type quantity index	159.48	154.91	160.30	150.26	153.37	161.24	162.56	164.04
Chain-type price index	95.49	92.70	93.02	90.97	90.61	93.03	94.05	94.38
Government consumption expenditures and gross investment:								
Chain-type quantity index	111.29	115.36	120.46	117.76	119.37	119.79	120.65	122.02
Chain-type price index	110.65	113.27	115.19	113.27	114.27	115.06	115.47	115.95
Federal:								
Chain-type quantity index	102.42	107.33	115.31	110.46	112.46	114.50	115.71	118.54
Chain-type price index	108.23	110.09	113.13	110.18	112.42	113.07	113.44	113.62
State and local:								
Chain-type quantity index	116.52	120.11	123.54	122.09	123.47	122.95	123.62	124.14
Chain-type price index	111.98	115.01	116.33	114.97	115.29	116.17	116.60	117.24
Addenda:								
Final sales of domestic product:								
Chain-type quantity index	117.19	118.95	121.10	119.81	120.51	120.49	121.51	121.91
Chain-type price index	107.02	109.55	110.80	109.91	110.28	110.62	110.91	111.40
Implicit price deflator	107.02	109.55	110.80	109.91	110.27	110.62	110.91	111.39
Gross domestic purchases:								
Chain-type quantity index	121.00	121.50	125.04	122.06	123.74	124.53	125.72	126.15
Chain-type price index	106.58	108.65	109.91	108.84	109.15	109.77	110.11	110.60
Implicit price deflator	106.58	108.65	109.91	108.83	109.15	109.77	110.11	110.61
Final sales to domestic purchasers:								
Chain-type quantity index	120.56	122.52	125.38	123.50	124.42	124.82	125.84	126.44
Chain-type price index	106.70	108.78	110.05	108.97	109.28	109.90	110.25	110.75
Implicit price deflator	106.70	108.78	110.05	108.97	109.28	109.90	110.25	110.75
Gross national product:								
Chain-type quantity index	117.69	117.96	.....	118.54	119.62	119.73	121.03	.....
Chain-type price index	106.86	109.39	.....	109.75	110.11	110.45	110.73	.....
Implicit price deflator	106.86	109.38	.....	109.74	110.11	110.45	110.73	.....

See "Explanatory Note" at the end of the tables.

Table 6.—Real Gross Domestic Product: Historical Perspective

[Percent change from preceding year]

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Gross domestic product (GDP)	3.4	4.2	3.5	1.8	-0.5	3.0	2.7	4.0	2.7	3.6	4.4	4.3	4.1	3.8	0.3	2.4
Personal consumption expenditures	3.3	4.0	2.7	1.8	-2	2.9	3.4	3.8	3.0	3.2	3.6	4.8	4.9	4.4	2.5	3.1
Durable goods	1.7	5.8	2.1	-9	-6.6	5.3	8.2	7.6	4.6	5.6	6.6	10.5	11.8	8.2	6.0	7.4
Nondurable goods	2.4	3.2	2.7	1.4	-4	1.9	2.9	3.8	3.0	2.9	2.9	4.1	4.7	3.9	2.0	3.1
Services	4.3	4.1	2.8	2.8	1.4	2.9	2.7	3.0	2.7	2.8	3.3	4.0	3.7	3.8	2.0	2.2
Gross private domestic investment	2.5	2.7	3.7	-3.1	-8.6	8.5	8.7	13.2	3.0	9.0	12.1	11.8	6.6	6.2	-10.7	.5
Fixed investment	0	3.6	2.7	-1.8	-6.9	6.5	8.1	9.1	6.0	9.3	9.6	11.4	7.8	6.1	-3.8	-3.2
Nonresidential	-1	5.4	5.5	.7	-4.9	3.4	8.4	8.9	9.8	10.0	12.2	12.5	8.1	7.8	-5.2	-5.8
Structures	-3.6	1.3	2.5	1.5	-11.0	-6.1	.8	.8	4.8	7.1	9.1	6.8	-1.3	6.5	-1.7	-16.4
Equipment and software	1.7	7.5	7.0	.4	-2.0	7.4	11.3	11.9	11.5	11.0	13.3	14.6	11.5	8.2	-6.4	-1.8
Residential .....	.2	-5	-4.1	-8.6	-12.8	16.3	7.3	9.7	-3.6	7.4	2.0	8.0	6.7	1.1	.3	3.8
Change in private inventories																
Net exports of goods and services																
Exports	11.2	16.1	11.8	8.7	6.5	6.2	3.3	8.9	10.3	8.2	12.3	2.1	3.4	9.7	-5.4	-1.3
Goods	11.1	18.8	12.6	8.2	7.1	6.8	3.0	9.7	11.9	8.7	14.5	2.1	3.8	11.3	-5.9	-3.3
Services	11.6	9.3	9.6	10.0	5.1	4.6	4.1	7.2	6.4	6.8	7.0	2.3	2.5	6.0	-4.0	3.4
Imports	6.1	3.8	3.9	3.8	-5	6.6	9.1	12.0	8.2	8.6	13.7	11.8	10.9	13.2	-2.9	3.5
Goods	4.6	4.1	4.2	3.0	-1	9.3	10.1	13.3	9.0	9.4	14.2	11.7	12.2	13.5	-3.3	3.7
Services	12.6	2.7	2.8	7.6	-2.3	-4.0	4.7	5.8	4.1	4.8	10.9	11.9	4.2	11.6	-5	1.9
Government consumption expenditures and gross investment	3.0	1.2	2.8	3.3	1.2	.5	-8	.1	5	1.1	2.4	1.9	3.9	2.7	3.7	4.4
Federal	3.7	-1.8	1.3	2.0	-3	-1.6	-3.9	-3.6	-2.7	-9	-4	-8	2.3	1.3	4.8	7.4
National defense	4.7	-8	-8	0	-1.1	-4.9	-5.4	-4.8	-3.7	-1.3	-2.6	-1.8	2.1	-1	5.0	9.3
Nondefense .....	.5	-5.2	8.4	8.3	1.8	7.1	-3	-1.0	-5	0	4.2	1.1	2.7	3.6	4.5	4.2
State and local	2.3	3.7	3.9	4.2	2.3	2.0	1.4	2.6	2.5	2.3	4.0	3.4	4.7	3.5	3.1	2.9
Addenda:																
Final sales of domestic product	3.0	4.3	3.3	2.0	-2	2.8	2.6	3.4	3.1	3.6	4.0	4.2	4.3	3.7	1.5	1.8
Gross domestic purchases	3.1	3.2	2.9	1.4	-1.1	3.1	3.3	4.4	2.5	3.7	4.7	5.4	5.0	4.4	.4	2.9
Final sales to domestic purchasers	2.7	3.4	2.7	1.6	-9	2.8	3.2	3.8	3.0	3.7	4.3	5.3	5.2	4.3	1.6	2.3
Gross national product	3.3	4.2	3.5	1.9	-5	3.0	2.6	3.9	2.7	3.5	4.3	4.2	4.4	3.7	.2	
Real disposable personal income	2.1	4.4	2.6	2.2	.4	3.1	1.4	2.6	2.6	2.5	3.1	5.4	2.6	4.8	1.8	4.5
Gross domestic purchases price index	3.3	3.4	3.8	4.1	3.4	2.5	2.3	2.0	2.2	1.8	1.6	.8	1.5	2.5	1.9	1.2
GDP price index	3.0	3.4	3.8	3.9	3.6	2.4	2.4	2.1	2.2	1.9	1.9	1.2	1.4	2.1	2.4	1.1
Personal consumption expenditures price index	3.8	3.9	4.4	4.6	3.8	3.1	2.4	2.0	2.3	2.1	1.9	1.1	1.6	2.5	2.0	1.4

Table 7.—Real Gross Domestic Product: Percent Change From Quarter One Year Ago

	1999				2000				2001				2002			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Gross domestic product (GDP)	4.0	3.9	4.2	4.3	4.2	4.9	3.7	2.3	1.5	-0.1	-0.4	0.1	1.4	2.2	3.3	2.8
Personal consumption expenditures	4.9	4.8	5.0	5.0	5.1	4.5	4.3	3.5	2.8	2.4	1.8	2.8	3.0	3.1	3.8	2.5
Durable goods	12.3	11.7	13.3	10.0	13.1	8.4	7.8	3.8	2.4	4.7	3.8	13.2	8.4	7.5	11.9	2.1
Nondurable goods	4.8	4.5	4.4	4.9	4.2	4.3	4.1	3.0	3.0	1.7	1.5	1.7	3.1	3.1	3.1	3.1
Services	3.6	3.6	3.7	4.0	4.0	3.8	3.6	3.8	2.8	2.3	1.6	1.3	1.8	2.1	2.5	2.3
Gross private domestic investment	6.3	6.8	6.6	6.6	5.3	11.0	6.4	2.2	-3.8	-11.9	-11.7	-15.1	-6.5	0	2.3	7.0
Fixed investment	9.0	7.9	8.4	5.9	7.3	7.1	5.7	4.3	.5	-4.0	-5.1	-6.7	-6.3	-3.7	-2.7	.3
Nonresidential	8.9	7.8	9.4	6.6	8.3	8.9	7.8	6.2	1.1	-5.1	-7.4	-9.3	-9.4	-6.3	-5.1	-1.9
Structures	2.6	-2.2	-3.1	-2.5	1.8	5.2	10.0	9.3	5.0	.8	-1.4	-10.6	-13.3	-15.6	-21.1	-15.7
Equipment and software	11.1	11.3	13.8	9.7	10.5	10.1	7.2	5.2	-2	-7.1	-9.5	-8.8	-8.0	-2.9	1.1	3.0
Residential	9.3	8.2	5.6	4.0	4.1	2.1	-6	-1.2	-1.2	-6	2.0	1.0	2.4	3.2	3.4	6.1
Change in private inventories																
Net exports of goods and services																
Exports .....	.4	2.5	5.7	4.9	8.8	11.4	11.6	7.3	3.7	-3.1	-10.1	-11.4	-9.3	-3.0	2.8	5.0
Goods	-2	3.2	6.4	5.6	9.9	12.8	14.3	8.3	4.9	-3.3	-12.1	-12.3	-11.7	-4.3	1.8	2.1
Services	1.9	.8	4.2	3.2	6.1	8.1	5.3	4.8	.7	-2.6	-4.7	-9.2	-3.1	0	5.3	12.0
Imports	9.0	10.0	12.6	11.9	13.5	14.3	14.1	11.1	5.2	-1.0	-7.1	-8.0	-4.1	2.6	6.7	9.2
Goods	10.1	11.3	14.3	13.0	13.9	14.7	14.3	11.1	5.1	-2.1	-7.5	-7.9	-4.8	3.8	7.3	8.9
Services	3.4	3.5	4.1	5.9	10.9	11.6	13.0	10.9	5.9	5.7	-4.5	-8.6	-1.4	-3.9	3.4	10.4
Government consumption expenditures and gross investment	4.1	3.0	3.8	4.5	3.5	3.9	2.3	1.3	3.0	3.3	3.2	5.1	5.0	4.0	5.0	3.6
Federal	2.4	.1	2.9	4.0	1.2	4.4	.7	-1.2	4.7	2.4	4.6	7.5	6.9	7.3	8.1	7.3
National defense	2.8	-3	1.7	4.4	0	3.7	-1.3	-2.5	5.2	2.2	5.1	7.4	8.2	9.5	10.1	9.4
Nondefense	1.6	.8	5.2	3.4	3.4	5.7	4.2	1.1	3.9	2.6	3.9	7.6	4.7	3.5	4.7	3.8
State and local	5.0	4.5	4.3	4.8	4.6	3.6	3.2	2.6	2.2	3.7	2.5	3.9	4.1	2.3	3.4	1.7
Addenda:																
Final sales of domestic product	4.4	4.1	4.5	4.2	4.5	4.2	3.6	2.6	2.2	1.4	.9	1.6	1.5	1.6	2.5	1.8
Gross domestic purchases	5.0	4.8	5.1	5.2	4.9	5.5	4.3	2.9	1.7	.1	-3	.1	1.8	2.8	3.7	3.4
Final sales to domestic purchasers	5.5	5.0	5.4	5.1	5.2	4.8	4.2	3.3	2.5	1.5	.9	1.6	1.8	2.2	3.0	2.4
Gross national product	4.2	4.2	4.6	4.7	4.2	4.9	3.7	2.2	1.3	-1	-4	.1	1.4	1.7	3.0	
Real disposable personal income	3.7	2.4	1.9	2.4	3.8	4.9	5.6	4.8	2.7	1.3	2.8	.3	3.8	5.0	3.2	5.9
Gross domestic purchases price index	1.1	1.4	1.6	1.9	2.5	2.5	2.6	2.5	2.4	2.3	1.7	1.3	.8	.9	1.3	1.6
GDP price index	1.3	1.5	1.4	1.6	1.9	2.1	2.2	2.3	2.4	2.5	2.6	2.0	1.4	1.1	.8	1.3
Personal consumption expenditures price index	1.2	1.6	1.8	2.0	2.6	2.6	2.5	2.5	2.5	2.4	1.8	1.5	.9	1.1	1.6	1.9

Table 8.—Relation of Gross Domestic Product, Gross National Product, and National Income

[Billions of dollars]

	2000	2001	2002	Seasonally adjusted at annual rates				
				2001	2002			
				IV	I	II	III	IV
Gross domestic product	9,824.6	10,082.2	10,442.1	10,152.9	10,313.1	10,376.9	10,506.2	10,572.3
Plus: Income receipts from the rest of the world	383.4	316.9	.....	269.0	264.7	276.0	287.3	.....
Less: Income payments to the rest of the world	360.0	295.0	.....	233.7	262.8	296.1	298.2	.....
Equals: Gross national product	9,848.0	10,104.1	.....	10,188.1	10,314.9	10,356.8	10,495.3	.....
Less: Consumption of fixed capital	1,228.9	1,329.3	1,393.2	1,338.6	1,363.5	1,389.8	1,405.3	1,414.4
Less: Indirect business tax and nontax liability	753.6	774.8	800.1	779.9	786.2	795.1	806.9	812.1
Less: Business transfer payments	43.7	42.5	44.2	42.8	43.8	43.9	44.4	44.5
Less: Statistical discrepancy	-128.5	-117.3	.....	-132.6	-110.0	-165.0	-120.3	.....
Plus: Subsidies less current surplus of government enterprises	34.1	47.3	31.8	37.5	37.0	35.1	29.1	25.9
Equals: National income	7,984.4	8,122.0	.....	8,196.8	8,268.5	8,328.0	8,388.1	.....
Compensation of employees	5,723.4	5,874.9	5,998.8	5,860.9	5,908.4	5,963.9	6,026.6	6,096.4
Wage and salary accruals	4,836.3	4,950.6	5,023.9	4,931.4	4,957.8	4,997.3	5,043.6	5,096.7
Supplements to wages and salaries	887.1	924.3	975.0	929.4	950.7	966.6	982.9	999.7
Proprietors' income with inventory valuation and capital consumption adjustments	714.8	727.9	756.9	731.3	748.4	747.5	758.7	772.9
Rental income of persons with capital consumption adjustment	146.6	137.9	143.9	139.3	141.3	153.5	144.1	136.7
Corporate profits with inventory valuation and capital consumption adjustments	788.1	731.6	.....	811.4	797.6	785.0	771.0	.....
Net interest	611.5	649.8	682.4	653.9	672.8	678.1	687.6	691.3
Addendum:								
Gross domestic income	9,953.1	10,199.4	.....	10,285.5	10,423.1	10,541.8	10,626.5	.....

Table 9.—Personal Income and Its Disposition

[Billions of dollars]

	2000	2001	2002	Seasonally adjusted at annual rates				
				2001	2002			
				IV	I	II	III	IV
Personal income ¹	8,406.6	8,685.3	8,948.1	8,700.9	8,803.4	8,914.0	8,993.3	9,081.6
Wage and salary disbursements	4,836.3	4,950.6	5,023.9	4,931.4	4,957.8	4,997.3	5,043.6	5,096.7
Other labor income	544.2	570.4	610.8	576.3	590.8	604.1	617.5	630.9
Proprietors' income with inventory valuation and capital consumption adjustments	714.8	727.9	756.9	731.3	748.4	747.5	758.7	772.9
Farm	22.6	19.0	12.7	19.2	21.7	7.5	10.7	10.9
Nonfarm	692.2	708.8	744.2	712.1	726.7	740.0	748.0	761.9
Rental income of persons with capital consumption adjustment	146.6	137.9	143.9	139.3	141.3	153.5	144.1	136.7
Personal dividend income	375.7	409.2	433.8	417.3	423.7	430.3	437.3	443.8
Personal interest income	1,077.0	1,091.3	1,077.3	1,072.9	1,069.9	1,082.3	1,080.7	1,076.1
Transfer payments to persons	1,070.3	1,170.4	1,287.1	1,205.0	1,252.0	1,282.6	1,298.4	1,315.4
Less: Personal contributions for social insurance	358.4	372.3	385.5	372.7	380.5	383.6	387.0	391.0
Less: Personal tax and nontax payments	1,286.4	1,292.1	1,118.1	1,309.7	1,136.8	1,121.8	1,107.3	1,106.6
Equals: Disposable personal income	7,120.2	7,393.2	7,830.0	7,391.2	7,666.7	7,792.2	7,886.0	7,975.0
Less: Personal outlays	6,918.6	7,223.5	7,521.7	7,329.6	7,396.3	7,477.9	7,583.0	7,629.6
Equals: Personal saving	201.5	169.7	308.2	61.5	270.4	314.3	303.0	345.3
Addenda:								
Disposable personal income, billions of chained (1996) dollars ²	6,630.3	6,748.0	7,049.2	6,729.1	6,961.0	7,027.2	7,081.6	7,127.2
Personal saving as a percentage of disposable personal income	2.8	2.3	3.9	.8	3.5	4.0	3.8	4.3

1. Personal income is also equal to national income less corporate profits with inventory valuation and capital consumption adjustments, net interest, contributions for social insurance, and wage accruals less disbursements, plus personal interest income, personal dividend income, government transfer payments to persons, and business transfer payments to persons.

2. Equals disposable personal income deflated by the implicit price deflator for personal consumption expenditures.

Appendix Table A.—Real Gross Domestic Product and Related Aggregates and Price Indexes: Percent Change From Preceding Period
[Percent]

	2000	2001	2002	Seasonally adjusted at annual rates															
				1999				2000				2001				2002			
				I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
GDP and related aggregates:																			
GDP	3.8	0.3	2.4	3.0	2.0	5.2	7.1	2.6	4.8	0.6	1.1	-0.6	-1.6	-0.3	2.7	5.0	1.3	4.0	0.7
Goods	4.7	-2.3	3.3	1.4	1.5	8.2	12.0	1.4	6.9	-5	-2.7	-4.4	-5.7	-1.5	4.3	8.3	4	9.0	-2.5
Services	3.3	2.1	2.7	3.7	2.9	4.3	3.9	2.0	5.0	1.6	3.7	.9	1.2	1.8	3.2	2.8	3.5	2.5	2.7
Structures	2.7	-.1	-2.8	5.7	-1.5	-1.9	6.2	10.7	-3.6	-1.2	1.7	6.1	-1.3	-7.1	-5.6	6.1	-8.4	-5.5	1.9
Motor vehicle output	-2.7	-6.1	12.8	-11.1	-2.0	21.0	2.0	-1.6	-7.9	-16.4	-18.1	-19.1	19.4	10.7	16.3	9.9	8.1	37.1	-13.3
GDP less motor vehicle output	4.0	.5	2.1	3.6	2.1	4.6	7.3	2.7	5.4	1.2	1.8	0	-2.2	-6	2.3	4.9	1.0	3.0	1.3
Final sales of computers ¹	29.5	9.1	13.0	36.4	61.8	35.1	-3.9	56.9	45.2	9.6	10.2	30.0	-19.1	-5.3	28.9	-7.8	13.1	78.5	26.6
GDP less final sales of computers	3.5	.2	2.3	2.8	1.5	4.9	7.2	2.2	4.5	.5	1.0	-8	-1.4	-2	2.6	5.1	1.2	3.6	.6
Farm product ²	11.5	-5.1	.3	7.3	25.7	-7.3	8.7	35.1	4.7	15.3	-19.1	-10.6	-17.5	-4.3	74.0	-14.2	-26.7	7.9	7.8
Nonfarm business less housing product ³	4.1	-.1	2.7	3.2	1.8	6.0	8.5	2.1	5.6	.3	1.2	-.9	-2.8	-.8	3.0	6.3	.9	5.4	1.0
Price indexes:																			
GDP	2.1	2.4	1.1	1.8	1.5	1.2	1.7	3.1	2.3	1.6	2.1	3.7	2.5	2.2	-.5	1.3	1.2	1.0	1.8
GDP less food and energy	2.0	2.0	1.4	1.7	1.6	1.3	1.8	2.7	2.1	1.6	1.9	2.8	1.6	2.8	0	1.6	1.5	1.1	1.6
GDP less final sales of computers	2.3	2.6	1.3	2.2	1.8	1.5	1.9	3.3	2.5	1.8	2.2	4.1	2.7	2.4	-.4	1.5	1.4	1.2	1.9
Gross domestic purchases	2.5	1.9	1.2	1.4	2.1	1.9	2.2	3.7	2.2	2.2	2.1	3.3	1.7	-.2	.4	1.2	2.3	1.2	1.8
Gross domestic purchases less food and energy	1.9	1.8	1.4	1.5	1.4	1.2	1.7	2.7	1.9	1.5	1.7	2.9	1.3	.6	2.0	1.4	1.5	1.2	1.4
Gross domestic purchases less final sales of computers	2.8	2.2	1.4	1.8	2.4	2.2	2.4	3.9	2.4	2.4	2.3	3.8	2.0	.1	.7	1.4	2.4	1.4	2.0
Personal consumption expenditures	2.5	2.0	1.4	1.2	2.3	2.2	2.4	3.4	2.3	2.1	2.2	3.3	1.8	-.1	.8	1.1	2.7	1.7	1.9
Personal consumption expenditures less food and energy	1.8	1.8	1.7	1.3	1.4	1.5	1.7	2.2	1.8	1.3	1.8	2.8	1.2	.7	2.7	1.4	1.9	1.8	1.5

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

2. Farm output less intermediate goods and services purchased.

3. Consists of GDP less gross product of farm, of housing, of households and institutions, and of general government.

See "Explanatory Note" at the end of the tables.

Explanatory Note: Measures of Output and Prices

This note describes the calculation of chain-type quantity and price indexes used in the NIPA's.

Changes in current-dollar GDP measure changes in the market value of goods, services, and structures produced in the economy in a particular period. These changes can be decomposed into quantity and price components. Quantities, or "real" measures, and prices are expressed as index numbers with the reference year--at present, the year 1996--equal to 100.

The annual changes in quantities and prices are calculated using a Fisher formula that incorporates weights from two adjacent years. (Quarterly changes in quantities and prices are calculated using a Fisher formula that incorporates weights from two adjacent quarters; quarterly indexes are adjusted for consistency to the annual indexes before percent changes are calculated.) For example, the 2000-01 annual percent change in real GDP uses prices for 2000 and 2001 as weights, and the 2000-01 annual percent change in GDP prices uses quantities for 2000 and 2001 as weights. These annual changes are "chained" (multiplied) together to form time series of quantity and price indexes. The Fisher formula produces percent changes in quantities and prices that are not affected by the choice of reference years. In addition, because the changes in quantities and prices calculated in this way are symmetric, in general, the product of a quantity index and the corresponding price index equals the current-dollar index. (BEA also publishes a measure of the price level known as the "implicit price deflator (IPD)," which is calculated as the ratio of current-dollar value to the corresponding chained-dollar value, multiplied by 100. The values of the IPD are very close to the values of the corresponding "chain-type" price index for all periods.)

Chain-type quantity and price indexes for GDP and its major components are presented in this release as index numbers in table 5 and in the form of percentage changes from the preceding period in tables 1, 4, 6 and from the quarter one year ago in table 7. Contributions by major components to changes in real GDP are presented in table 2. BEA also prepares measures of real GDP and its components in a dollar-denominated form, designated "chained (1996) dollar estimates." For GDP and most other series, these estimates, which are presented in table 3, are computed by multiplying the 1996 current-dollar value by a corresponding quantity index number and then dividing by 100. For example, if a current-dollar GDP component equaled \$100 in 1996 and if real output for this component increased 10 percent in 1997, then the chained (1996) dollar value of this component in 1997 would be \$110 ($\100×1.10).

For analyses of changes over time in an aggregate or in a component, the percentage changes calculated from the chained-dollar estimates and from the chain-type quantity indexes are the same; any differences will be small and due to rounding. However, because the relative prices used as weights for any period other than the reference year differ from those used for the reference year, the chained-dollar values for the detailed GDP components will not necessarily sum to the chained-dollar estimate of GDP or to any intermediate aggregate. A measure of the extent of such differences is provided by a "residual" line, which indicates the difference between GDP (or another major aggregate) and the sum of the most detailed components in the table. For periods close to the reference year, when there usually has not been much change in the relative prices that are used as weights for the chain-type index, the residuals tend to be small, and the chained (1996) dollar estimates can be used to approximate the contributions to growth and to aggregate the detailed estimates. As one moves further from the reference year, the residual tends to become larger, and the chained-dollar estimates become less useful for analyses of contributions to growth. Thus, the contributions to percent change shown in table 2 provide a better measure of the composition of GDP growth. In particular, for components for which relative prices are changing rapidly, calculation of contributions using chained-dollar estimates may be misleading even just a few years from the reference year.

References: "A Preview of the 1999 Comprehensive Revision of the NIPA's: Statistical Changes," October 1999 Survey, pp. 6-17; "A Guide to the NIPA's," March 1998 Survey, pp. 36-40; "BEA's Chain Indexes, Time Series, and Measures of Long-Term Economic Growth," May 1997 Survey, pp. 58-68.