FEDERAL RESERVE statistical release



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INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production rose 0.8 percent in January; output in December was revised downward and is now estimated to have been unchanged from the November reading. At 113.8 percent of its 1997 average, overall industrial output in January was 2.4 percent above its January 2003 level. Manufacturing output rose 0.3 percent, and mining output increased 0.1 percent; with unusually cold weather in January, the output of utilities rose 5.2 percent. The rate of capacity utilization for total industry increased from 75.6 percent in December to 76.2 percent in January.

(over)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION: SUMMARY

Seasonally adjusted

		199	7=100			Po	ercent change	e	
Industrial production	2003 Oct. ^r	Nov.r	Dec.r	2004 Jan. ^p	2003 Oct. ^r	Nov.r	Dec.r	2004 Jan. ^p	Jan. '03 to Jan. '04
Total index Previous estimates	111.8 111.9	112.9 113.1	112.9 113.2	113.8	.3 .4	1.0 1.0	.0 .1	.8	2.4
Major market groups Final Products Consumer goods Business equipment Nonindustrial supplies Construction Materials	107.7 106.0 110.8 109.6 103.1 116.9	108.8 107.0 112.8 110.6 104.1 118.0	108.5 106.6 112.8 110.5 104.2 118.5	109.1 107.4 113.4 111.5 104.5 119.5	1 1 3 .8 .9	1.1 1.0 1.8 1.0 1.0	3 4 .0 2 .0	.6 .8 .5 .9	1.4 .8 3.3 2.1 1.8 3.5
Major industry groups Manufacturing (see note below) Previous estimates Mining Utilities	112.9 113.0 93.7 111.0	114.1 114.2 94.0 112.8	114.2 114.5 94.2 111.3	114.6 94.3 117.1	.2 .2 .2 1.0	1.0 1.0 .3 1.6	.1 .3 .2 -1.3	.3 .1 5.2	2.3 .9 4.4
				Percent of	capacity				Capacity growth
Capacity utilization	Average 1972–2003	1982 low	1988–89 high	2003 Jan.	2003 Oct. ^r	Nov.r	Dec.r	2004 Jan. ^p	Jan. '03 to Jan. '04
Total industry Previous estimates	81.1	70.9	85.2	75.2	75.0 75.1	75.7 75.8	75.6 75.8	76.2	1.1
Manufacturing (see note below) Previous estimates	80.0	68.7	85.6	73.6	73.6 73.7	74.3 74.4	74.4 74.5	74.6	.9
Mining Utilities	86.9 86.9	78.6 77.6	85.6 92.8	84.8 85.9	85.4 82.4	85.7 83.4	85.9 82.1	86.0 86.1	4 4.1
Stage-of-process groups Crude Primary and semifinished Finished	86.3 82.2 78.2	77.2 68.1 71.3	88.5 86.4 83.2	82.9 77.2 71.4	83.8 77.0 71.1	84.0 77.8 71.8	84.3 77.8 71.6	84.6 78.7 71.7	-1.0 1.8 .7

r Revised. p Preliminary.

NOTE—The statistics in this release cover output, capacity, and capacity utilization in the industrial sector, which the Federal Reserve defines as manufacturing, mining, and electric and gas utilities. Manufacturing comprises those industries included in the North American Industry Classification System, or NAICS, definition of manufacturing *plus* the logging and newspaper, periodical, book and directory publishing industries that have traditionally been considered manufacturing and included in the industrial sector.

Market Groups

The output of consumer goods rose 0.8 percent in January. The production of consumer durables increased 0.6 percent, with gains spread broadly across its components. The output index for automotive products rose 0.8 percent; the index for appliances, furniture, and carpeting rose 1.0 percent; and the index for miscellaneous goods rose 0.9 percent. After a rapid run-up during the fourth quarter, the output of home electronics fell back 4.2 percent in January. The production of consumer nondurables rose 0.8 percent. The bulk of this increase occurred in consumer energy products, as utility sales to consumers jumped, while non-energy goods remained flat. The index for chemical products rose 0.5 percent, and the output of paper products was unchanged. The output of foods and tobacco decreased 0.2 percent, and clothing output fell 1.0 percent. Despite an increase during the fourth quarter, clothing output was down 11.2 percent from its level in January 2003.

The production of business equipment rose 0.5 percent in January, and increases were distributed evenly. The indexes for information processing equipment and for industrial and other equipment each rose 0.5 percent, and the production of transit equipment advanced 0.6 percent. The output of defense and space equipment fell 0.8 percent in January, to a level 1.4 percent higher than that of January 2003. The index for construction supplies rose 0.4 percent, and the output of business supplies increased 1.1 percent.

The production of industrial materials rose 0.9 percent in January. The output of durable materials increased 0.8 percent, with continued strength in equipment parts, especially semiconductors. The production of nondurable materials was unchanged, but the strength in utilities contributed to an advance of 2.0 percent for energy materials.

Industry Groups

Manufacturing output increased 0.3 percent in January and was 2.3 percent above its year-ago level. The factory operating rate rose 0.2 percentage point, to 74.6 percent, and was 5.4 percentage points below its 1972–2003 average. The output of durable goods rose 0.6 percent. The gains among the subsectors included increases of about 1.0 percent in the output indexes for computer and electronic products, motor vehicles and parts, fabricated metal products, and wood products. The indexes for the following groups all rose by smaller amounts: nonmetallic mineral products; machinery; electrical equipment, appliances, and components; furniture and related products; and miscellaneous durables. The index for primary metals declined 1.4 percent. The production of nondurable goods was unchanged in January. Textile and product mills output increased 1.2 percent, and chemical products rose 0.5 percent. The production of food, beverage, and tobacco products fell 0.2 percent. Declines of 1 percent or more occurred in the production indexes for apparel and leather and for petroleum and coal products.

Production at mines rose 0.1 percent; the utilization rate edged up, to 86.0 percent, a rate 0.9 percentage point below its 1972–2003 average. Output at utilities jumped 5.2 percent; despite a rise of 4.0 percentage points in the industry operating rate, to 86.1 percent, utilization still was below its 1972–2003 average of 86.9 percent. By stage of processing, capacity utilization for industries in the crude stage increased 0.3 percentage point, to 84.6 percent. Utilization for industries in the primary and semifinished stages increased 0.9 percentage point, to 78.7 percent, and utilization for industries in the finished stage rose 0.1 percentage point, to 71.7 percent.

Notices

The data in this release include preliminary estimates of industrial capacity for 2004. Total industrial capacity is projected to increase 1.7 percent, and manufacturing capacity is estimated to rise 1.8 percent. The increase in manufacturing capacity, which is notably larger than the 1.0 percent gain in 2003, mainly reflects a sharp increase in the pace of capacity expansion for high-technology industries. Outside high-technology industries, manufacturing capacity is expected to edge up, on balance. In 2004, capacity expansion at utilities is estimated to slow to 1.4 percent from the 4.4 percent pace in 2003, a move reflecting a less-sizable boost in electricity-generating capability after three years of significant gains.

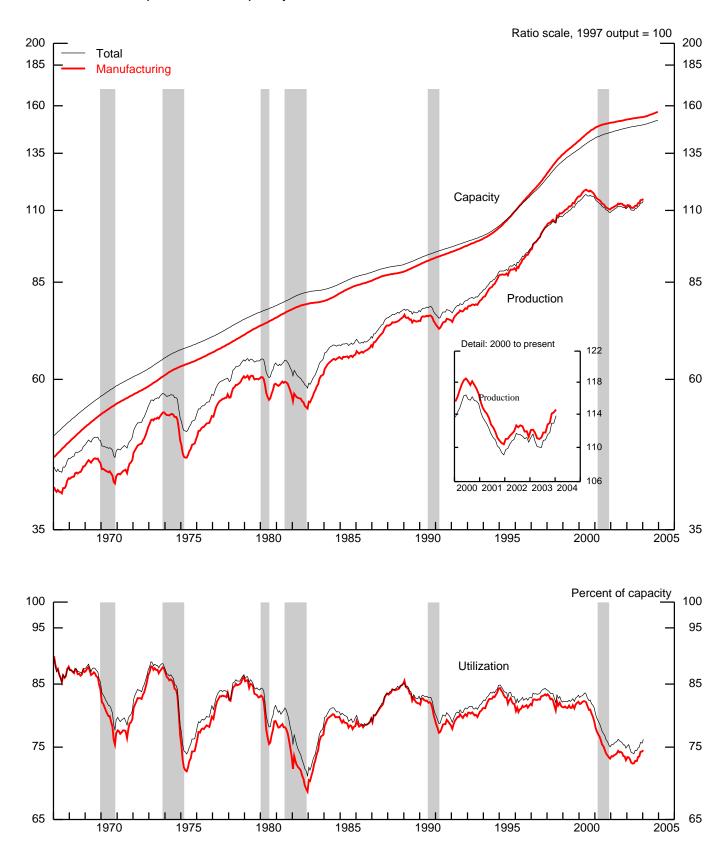
With the May 14, 2004, release of the G.17, the comparison base year for the data both in Table 9, Gross Value of Final Products and Nonindustrial Supplies, and in Table 10, Gross-Value-Weighted Industrial Production: Stage-of-Process Groups, will be advanced to 2000 to conform with the comparison base year for the national income and product accounts.

Tables

- 1. Industrial Production: Market and Industry Group Summary; percent change
- 2. Industrial Production: Special Aggregates and Selected Detail; percent change
- 3. Motor Vehicle Assemblies
- 4. Industrial Production: Market and Industry Group Summary; indexes
- 5. Industrial Production: Special Aggregates and Selected Detail; indexes
- 6. Diffusion Indexes of Industrial Production
- 7. Capacity Utilization
- 8. Industrial Capacity
- 9. Gross Value of Products and Nonindustrial Supplies
- 10. Gross-Value-Weighted Industrial Production: Stage-of-Process Groups
- 11. Electric Power Use
- 12. Historical Statistics: Total Industry
- 13. Historical Statistics: Manufacturing
- 14. Historical Statistics: Total Industry Excluding Selected High-Technology Industries
- 15. Historical Statistics: Manufacturing Excluding Selected High-Technology Industries

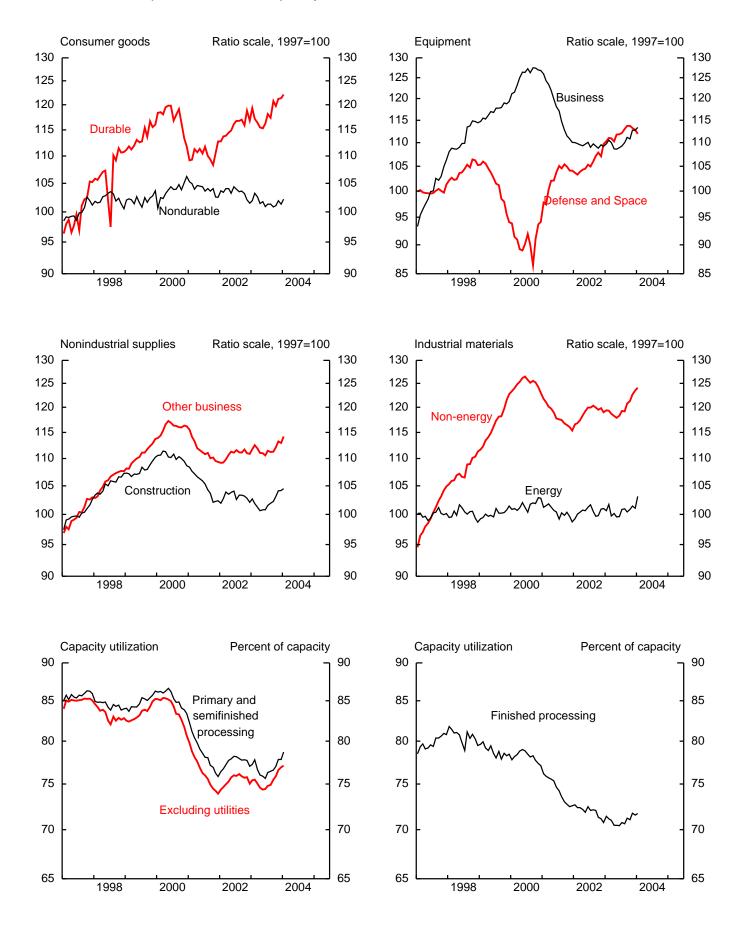
Further detail is available on the Board's web site (http://www.federalreserve.gov/releases/G17/).

1. Industrial production, capacity, and utilization

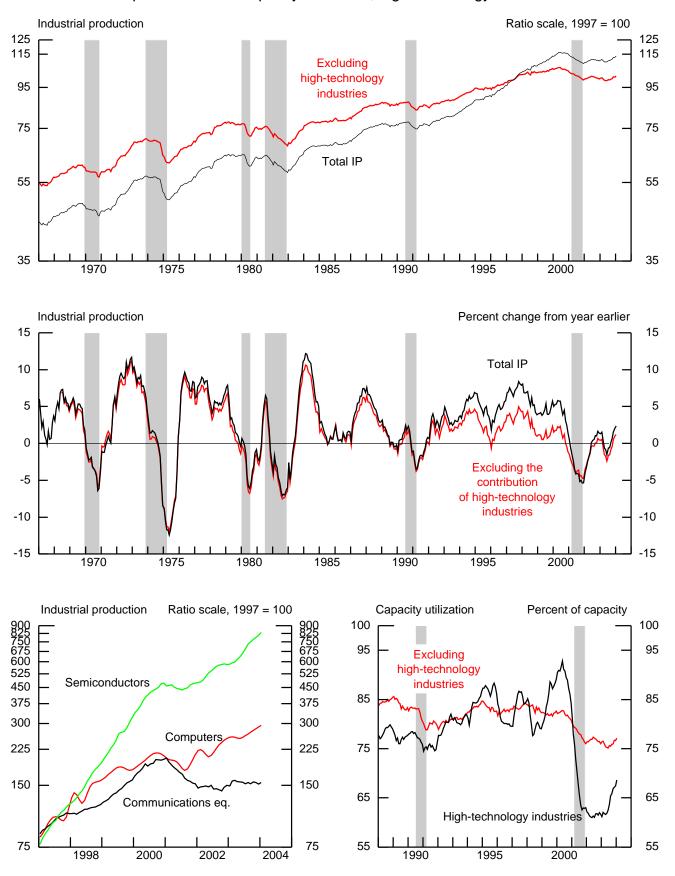


Notes: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER). See note on cover page.

2. Industrial production and capacity utilization



3. Industrial production and capacity utilization, high-technology industries



Notes: High-technology industries are defined as semiconductors and related electronic components (NAICS 334412-9), computers (NAICS 3341), and communications equipment (NAICS 3342).

The shaded areas are periods of business recession as defined by the NBER.

Table 1 INDUSTRIAL PRODUCTION: MARKET AND INDUSTRY GROUP SUMMARY

Percent change, seasonally adjusted

•			1	rth quarte urth quar			Annua	al rate			Month	ly rate		Jan. '03
Item		2003 proportion ¹	2001	2002	2003	2003 Q1	Q2	Q3	Q4 ^r	2003 Oct. ^r	Nov.r	Dec.r	2004 Jan. ^p	to Jan. '04
Total IP		100.00	-5.2	1.3	1.4	.9	-4.0	3.8	5.4	.3	1.0	.0	.8	2.4
Market Groups	log.	59.60	1.0	5	1 1	1.0	15	2.0	11	1	1.0	2	7	1.6
Final products and nonindustrial suppli Consumer goods	es	58.62 31.18	-4.9 -2.2	.5 1.0	1.1	1.9 1.4	-4.5 -5.1	2.9	4.1 2.6	.1 1	1.0	3 4	.7	1.6
Durable		8.15	-2.9	6.0	3.1	1.6	-6.5	11.2	7.0	8	1.2	.1	.6	2.3
Automotive products		4.13	1.1	9.9	5.0	3.2	-8.8	20.5	7.0	-2.4	1.0	.2	.8	3.8
Home electronics		.36	-10.3	4.4	24.5	39.2	-8.7	18.6	59.7	7.1	3.3	-1.2	-4.2	3.9
Appliances, furniture, carpeting Miscellaneous goods		1.42 2.24	-2.0 -8.1	1.8 2.4	1.2 -2.3	.2 -5.4	1.7 -7.2	2.8	.0	.0	1.4	1 .2	1.0	2.0
Nondurable		23.03	-0.1	8	-2.3	1.2	-4.5	8	4.1	.2	.9	6	.8	.3
Non-energy		18.27	-1.0	-2.8	3	1.1	-1.4	-2.3	1.6	.3	.8	6	.0	5
Foods and tobacco		9.97	6	-3.9	-1.9	7	-1.7	-2.1	-3.2	3	.4	8	2	-2.5
Clothing		.86	-15.1	-2.4	-13.4	-18.7	-18.5	-18.2	3.9	1.7	.6	2	-1.0	-11.2
Chemical products Paper products		4.67 2.24	3.0	-1.8 9	3.3 5.6	1.7 15.6	.9 4.2	1.0 -2.8	9.8 6.1	1.0	1.6	7 4	.5	4.0 3.5
Energy		4.75	-5.8	8.7	-2.8	2.2	-16.0	5.5	-1.2	4	1.4	4	4.1	3.4
Elicigy		4.73	3.0	0.7	2.0	2.2	10.0	3.3	1.2		1.7	.5	7.1	3.4
Business equipment		9.57	-12.8	-1.4	2.7	3.3	-4.8	5.3	7.3	3	1.8	.0	.5	3.3
Transit		1.57	-5.9	-15.2	-3.1	-11.8	-12.6	3.9	9.9	-1.5	1.5	1.1	.6	.3
Information processing Industrial and other		3.05 4.96	-12.8 -15.0	5.5 -1.0	8.3 1.0	17.8	-1.3 -4.5	8.8 3.5	8.8 5.6	1.8 -1.3	1 3.1	7 .1	.5 .5	5.2 3.0
Defense and space equipment		1.99	12.4	3.6	4.7	9.9	1.8	6.1	1.2	.0	4	3	8	1.4
Construction supplies Business supplies		4.23 11.30	-6.5 -5.6	.4 1.4	1.1 1.4	-2.9 3.1	-4.5 -4.1	4.7 1.6	7.6 5.2	.9 .7	1.0 1.0	.0 2	.4 1.1	1.8 2.2
Materials		41.38	-5.7	2.5	2.0	6	-3.4	5.0	7.2	.5	1.0	.4	.9	3.5
Non-energy		29.85	-6.6	3.0	2.6	-1.0	-3.3	5.5	9.5	.5	1.1	.7	.5	3.9
Durable		18.64	-7.2	4.2	4.4	8	-3.1	9.4	12.8	.8	1.2	.8	.8	6.0
Consumer parts		3.92	-7.2 -7.4	6.7	2.5	.9 3.0	-9.8	8.1	12.4	7	.9 1.5	1.8	.8	3.3
Equipment parts Other		6.51 8.21	-6.8	5.9 1.5	11.8 5	-4.7	6.8 -7.3	20.4 1.7	17.9 9.0	1.2 1.3	1.3	.2	1.6 .2	14.4
Nondurable		11.20	-5.6	.9	5	-1.3	-3.8	7	4.1	2	1.0	.4	.0	.5
Textile		.68	-11.6	-1.0	-10.3	-13.7	-16.5	-17.3	8.4	1.1	1.5	6	.3	-7.2
Paper		2.61	-6.1	1.5	-4.4	-7.6	-3.9	-3.0	-2.9	-1.0	.8	.4	.1	-1.8
Chemical		4.23	-5.1 -2.9	1.7	2.7	2.2	-5.2 -3.6	4.2	10.2	3 .5	1.8	.8 3	.1	3.6 2.5
Energy		11.53	-2.9	1.0	.3		-3.0	3.9	1.6		.5	3	2.0	2.3
Industry Groups														
Manufacturing (NAICS)		82.29 76.93	-5.6 -5.5	1.0 1.2	1.8 1.7	1.0	-3.2 -3.6	3.7 4.3	6.0	.2	1.0 1.0	.1	.3	2.3
Manufacturing (NAICS) Durable manufacturing		41.70	-5.5	3.0	3.7	1.4	-3.9	8.4	6.1 9.6	.1	1.0	.5	.6	4.4
Wood products	321	1.45	-2.2	-1.8	3.2	-2.7	-2.8	7.2	11.7	2.5	1.1	3	.8	4.3
Nonmetallic mineral products	327	2.26	-5.6	2.1	1.2	-2.2	-3.0	3.9	6.4	1.1	.9	.6	.6	2.1
Primary metal	331	2.16	-10.6	3.5	8	-1.8	-16.0	6	18.0	2.1	2.3	.8	-1.4	-2.4
Fabricated metal products	332	5.64	-8.4	1	-1.6	-5.1	-8.6	1.7	6.2	.2	.9	.7	.9	.7
Machinery Computer and electronic products	333 334	5.12 7.91	-17.1 -7.5	9 10.8	2.8 15.7	3 12.2	1 7.5	2.9 25.0	9.0 19.1	-1.1 2.1	3.8	.1	.6 1.0	5.8 14.9
Electrical equip., appliances,	334	7.71	1.5	10.0	13.1	12.2	1.5	23.0	17.1	2.1	.0	.2	1.0	17.7
and components	335	2.18	-12.7	-2.3	.8	-3.7	-3.1	1.3	9.3	.6	1.3	.4	.4	3.1
Motor vehicles and parts	3361–3	6.67	-2.8	9.9	3.9	.6	-11.2	19.3	9.2	-2.2	.5	.8	.9	3.2
Aerospace and other miscellaneous	2264.0	2.46	4.0	0.7	7	2.0	1 (2.5	F 0	1	0		-	2.2
transportation equipment Furniture and related products	3364–9 337	3.46 1.65	4.9 -7.4	-9.7 4	.7 -2.3	-2.9 4	-1.6 -8.1	2.5 4	5.0 1	1 5	.9 .7	.6 .3	.5 .3	2.2 -2.5
Miscellaneous	339	3.20	-7.4	3.5	-2.3	5.8	-6.4	-4.7	.3	4	.4	1.3	.3	-2.5
Nondurable manufacturing Food, beverage, and tobacco products	311,2	35.23 11.59	-3.3 4	9 -3.5	8 -1.6	-1.5 6	-3.2 -1.2	3 -1.3	2.1 -3.2	.1 4	.8 .3	2 6	.0 2	2 -2.1
Textile and product mills	311,2	11.39	-10.3	-3.3	-7.0	-11.6	-10.8	-1.3 -9.7	5.4	1.7	2.3	-1.9	1.2	-3.0
Apparel and leather	315,6	.94	-15.5	-2.0	-12.6	-17.9	-18.0	-16.7	4.3	1.6	.6	.1	-1.0	-10.4
Paper	322	2.97	-6.0	2.9	-2.8	-7.5	4	-2.9	1	.1	.7	.6	1	.1
Printing and support	323	2.35	-6.7	-1.7	-5.1	-4.2	-10.4	-2.4	-3.0	5	3	1	1	-5.3
Petroleum and coal products Chemical	324 325	2.46 10.02	-2.5 -1.3	1.2 1	2.4 2.9	2.3	-2.6 -1.7	3.4 3.4	6.7 8.0	.2	.8 1.4	.8 .0	-1.2 .5	1.7 3.8
Plastics and rubber products	323	3.72	-5.7	2.2	1	-1.0	-1.7	1.6	3.7	.3	.9	3	1	.5
Other manufacturing (non-NAICS)	1133,5111	5.36	-6.3	-2.2	4.3	16.4	3.1	-5.3	4.3	1.0	.8	8	.2	2.2
Mining	21	7.62	-1.0	-2.3	.7	.0	7	1.0	2.7	.2	.3	.2	.1	.9
Utilities	2211,2	10.08	-5.2	6.6	-1.1	.5	-13.3	6.8	2.6	1.0	1.6	-1.3	5.2	4.4
Electric	2211	8.32	-3.7	5.5	.0	.8	-10.9	9.2	2.2	1.3	1.7	-1.8	4.8	4.7
Natural gas	2212	1.77	-12.8	13.4	-6.6	5	-24.1	-3.5	4.7	2	1.0	1.0	7.0	2.8
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r Revised. p Preliminary.

NOTE. Under industry groups, the figures to the right of the series descriptions are 2002 North American Industry Classification System (NAICS) codes. The abbreviation pt denotes part of an NAICS code. Additional industry detail is available on the Board's web site (www.federalreserve.gov/releases/G17). Under market groups, in the products category, miscellaneous consumer nondurables, oil and gas drilling, and manufactured homes are not shown separately; in the nondurable materials category, containers and miscellaneous nondurable materials are not shown separately.

1. The proportion data are estimates of the relative contribution of each series to the growth of total industrial production in the following year.

Table 2 INDUSTRIAL PRODUCTION: SPECIAL AGGREGATES AND SELECTED DETAIL

Percent change, seasonally adjusted

Te			rth quart urth quar			Annua	al rate			Month	nly rate		Jan. '03
Item	2003 proportion	2001	2002	2003	2003 Q1	Q2	Q3	Q4r	2003 Oct. ^r	Nov.r	Dec.r	2004 Jan. ^p	to Jan. '04
Total industry	100.00	-5.2	1.3	1.4	.9	-4.0	3.8	5.4	.3	1.0	.0	.8	2.4
Energy	18.95	-3.6	2.9	2	1.1	-7.6	4.1	2.1	.5	.9	5	2.7	2.8
Consumer products	4.75	-5.8	8.7	-2.8	2.2	-16.0	5.5	-1.2	4	1.4	5	4.1	3.4
Commercial products	2.41	-1.6	3.5	.8	1.8	-12.1	3.4	11.8	2.4	2.0	-1.4	4.1	3.6
Oil and gas well drilling	.25	-10.9	-14.8	4.0	-1.2	18.1	2	.5	.5	4	.0	-5.2	.4
Converted fuel	3.69	-7.9	3.7	.2	3.3	-17.2	15.7	1.9	1.4	1.1	9	4.4	2.8
Primary materials	7.84	2	4	.8	9	3.7	-1.0	1.4	.1	.3	.0	.9	2.4
Non-energy	81.05	-5.6	1.0	1.8	.8	-3.2	3.7	6.2	.2	1.0	.1	.3	2.3
Selected high-technology industries	4.93	-8.4	15.3	21.6	13.8	14.4	33.3	26.0	2.4	1.3	1.3	2.6	24.6
Computers and office equipment 3341		-5.7	24.0	14.0	15.9	-4.3	20.2	26.7	2.1	1.9	1.8	2.0	14.2
Communications equipment 3342	1.31	-22.8	-5.5	5.8	27.4	2.8	-6.7	2.4	2.2	9	-1.8	1.9	4.2
Semiconductors and related	2.45	.8	24.9	35.0	5.8	33.2	69.5	39.2	2.6	2.1	2.5	3.2	42.7
electronic components 334412–9	2.45	.8	24.9	33.0	5.8	33.2	69.5	39.2	2.0	2.1	2.5	3.2	42.7
Excluding selected high-technology industries	76.11	-5.2	1	.6	1	-4.3	1.9	4.9	.0	1.0	.0	.2	.9
Motor vehicles and parts 3361–3	6.67	-2.8	9.9	3.9	.6	-11.2	19.3	9.2	-2.2	.5	.8	.9	3.2
Motor vehicles 3361	2.94	1.5	11.6	3.7	1.3	-14.4	28.4	3.7	-4.7	5	.4	1.0	1.4
Motor vehicle parts 3363	3.32	-5.3	7.8	3.1	.6	-8.9	12.2	10.0	9	.3	1.5	1.0	3.7
Excluding motor vehicles and parts	69.44	-5.5	-1.0	.2	1	-3.6	.4	4.5	.3	1.1	.0	.1	.6
Consumer goods	26.22	-1.5	3	.7	1.1	-3.0	1.5	3.1	.0	.9	4	.2	.2
Business equipment	7.29	-11.5	-4.6	.8	3	-5.3	4.3	4.9	8	2.1	.0	.1	1.9
Construction supplies	4.19	-6.4	.5	1.0	-3.2	-4.6	4.9	7.6	.8	.9	.0	.3	1.7
Business supplies Materials	10.95 24.81	-5.5 -7.2	.7 .3	.5 2	2.9 -2.0	-5.1 -5.1	.1 .1	4.4 6.6	.6 .4	1.0 1.1	3 .4	1.0	1.2 .8
Measures excluding selected high-technology industries													
Total industry	95.07	-4.9	.4	.4	.1	-5.0	2.4	4.4	.1	1.0	1	.7	1.2
Manufacturing ¹	77.36	-5.2	1	.6	.1	-4.3	1.9	4.8	.0	1.0	.1	.2	.9
Durable	36.96	-6.9	1.0	1.3	5	-6.4	5.1	7.4	1	1.2	.4	.3	1.7
Measures excluding motor vehicles and parts													
Total industry	93.33	-5.4	.8	1.3	.9	-3.5	2.8	5.1	.4	1.0	1	.8	2.3
Manufacturing ^l Durable	75.62 35.22	-5.8 -7.9	.3 1.8	1.6 3.6	1.0 1.4	-2.4 -2.5	2.4 6.3	5.7 9.7	.4 .6	1.1 1.3	.1 .4	.3 .5	2.2 4.5
Measures excluding selected high-technology industries and motor vehicles and parts													
Total industry	88.40	-5.1	2	.1	.1	-4.5	1.2	4.0	.3	1.0	1	.7	1.1
Manufacturing ¹	70.69	-5.5	9	.3	.1	-3.6	.4	4.3	.2	1.0	.0	.1	.6
Stage-of-process components of non-energy materials, measures of the input to Finished processors	13.73	-7.4	5.0	4.8	6	-1.4	10.1	11.8	.2	1.2	1.0	1.0	6.9
Semifinished and primary processors	16.12	-5.8	1.2	.6	-1.4	-5.0	1.7	7.6	.6	1.1	.3	.0	1.4
Seminasied and primary processors	10.12	-5.6	1.2	.0	-1.4	-3.0	1./	7.0	.0	1.1	.5	.0	1.4

Table 3 MOTOR VEHICLE ASSEMBLIES

Millions of units, seasonally adjusted annual rate

Item	2003 average	2003 Q1	Q2	Q3	Q4	2003 Oct.	Nov.	Dec.	2004 Jan.
Total	12.09	12.30	11.76	12.29	12.20	12.24	12.12	12.24	12.29
Autos	4.51	4.68	4.43	4.56	4.41	4.54	4.41	4.29	4.31
Trucks	7.58	7.63	7.32	7.73	7.79	7.70	7.72	7.95	7.99
Light	7.32	7.39	7.08	7.46	7.49	7.40	7.41	7.64	7.67
Medium and heavy	.26	.23	.24	.26	.30	.29	.30	.31	.32
MEMO Autos and light trucks	11.83	12.07	11.52	12.03	11.90	11.94	11.82	11.93	11.97

Note. Seasonal factors and underlying data for auto, light truck, and medium and heavy truck production are available on the Board's web site, www.federalreserve.gov/releases/G17/mvsf.htm

r Revised. p Preliminary.

1. See note on cover page.

Table 4 INDUSTRIAL PRODUCTION INDEXES: MARKET AND INDUSTRY GROUP SUMMARY

1997 = 100, seasonally adjusted

Item		2003 proportion	2003 May	June	July	Aug.	Sept.	Oct.r	Nov.r	Dec.r	2004 Jan. ^p
Total IP		100.00	110.0	110.0	110.8	110.9	111.5	111.8	112.9	112.9	113.8
Market Groups											
Final products and nonindustrial supplie	s	58.62	107.1	106.8	107.5	107.6	108.0	108.2	109.3	109.0	109.8
Consumer goods		31.18	105.5	105.0	105.8	105.7	106.1	106.0	107.0	106.6	107.4
Durable		8.15	115.3	116.2	118.2	117.4	120.8	119.8	121.2	121.3	122.1
Automotive products Home electronics		4.13 .36	123.5 168.8	125.7 169.4	129.1 170.7	127.3 179.2	135.0 183.2	131.8 196.2	133.0 202.7	133.3 200.4	134.4 192.0
Appliances, furniture, carpeting		1.42	111.7	110.8	112.2	112.0	110.6	110.6	112.2	112.1	113.2
Miscellaneous goods		2.24	97.5	97.7	97.8	97.4	97.1	97.6	98.7	98.9	99.8
Nondurable		23.03	101.8	100.9	101.3	101.4	100.9	101.0	101.9	101.3	102.
Non-energy		18.27	100.0	99.8	99.6	99.3	99.1	99.5	100.2	99.6	99.6
Foods and tobacco		9.97	97.1	97.1	97.3	96.2	96.0	95.7	96.1	95.3	95.
Clothing		.86	64.1	62.2	61.6	59.7	59.7	60.7	61.1	60.9	60
Chemical products		4.67	115.6	114.4	114.4	116.5	116.3	117.4	119.4	118.6	119.
Paper products		2.24 4.75	109.0 110.4	110.2 107.1	108.4 109.8	108.8 111.1	108.2 109.4	109.7 109.0	110.5 110.4	110.1 109.9	110. 114.
Energy		4.73	110.4	107.1	109.6	111.1	109.4	109.0	110.4	109.9	114
Business equipment		9.57	108.6	109.0	109.3	110.0	111.2	110.8	112.8	112.8	113.
Transit		1.57	74.3	74.0	73.9	74.5	77.1	75.9	77.1	77.9	78.
Information processing		3.05	170.8	170.9	172.5	174.7	175.4	178.5	178.2	177.0	177.5 92.5
Industrial and other Defense and space equipment		4.96 1.99	88.8 111.8	89.4 111.8	89.5 112.1	89.6 113.0	90.3 113.7	89.2 113.7	91.9 113.2	92.0 112.8	92. 111.
• • •			111.0		112.1						
Construction supplies		4.23 11.30	100.8 111.0	100.8 110.6	101.5 111.5	101.9 111.2	102.3 111.3	103.1 112.1	104.1 113.2	104.2 113.0	104. 114.
Business supplies											
Materials		41.38	114.1	114.4	115.4	115.5	116.4	116.9	118.0	118.5	119.
Non-energy		29.85	117.9	118.3	119.2	119.2	120.8	121.3	122.7	123.5	124.
Durable Consumer parts		18.64 3.92	132.1 103.9	133.1 105.0	134.6 105.9	134.9 104.8	137.0 109.2	138.2 108.4	139.8 109.5	140.9 111.4	142. 112.
Equipment parts		6.51	207.9	210.5	214.2	218.2	221.6	224.2	227.6	229.7	233.
Other		8.21	93.8	94.0	94.6	94.1	94.4	95.7	96.7	96.9	97.
Nondurable		11.20	94.8	94.5	94.8	94.4	95.1	95.0	95.9	96.3	96.
Textile		.68	70.4	69.9	67.8	67.0	67.5	68.3	69.3	68.8	69.
Paper		2.61	90.5	90.7	90.9	89.3	89.6	88.7	89.4	89.7	89.
Chemical Energy		4.23 11.53	98.1 99.6	97.0 99.6	98.5 100.9	99.1 101.0	100.8 100.4	100.4 100.9	102.2 101.4	103.1 101.1	103. 103.
		11.55	////	77.0	100.9	101.0	100.1	100.9	101.1	101.1	105.
INDUSTRY GROUPS Manufacturing		82.29	111.0	111.2	111.8	111.8	112.7	112.9	114.1	114.2	114.
Manufacturing (NAICS)		76.93	111.0	111.4	111.8	111.8	113.2	113.3	114.1	114.2	114.
Durable manufacturing		41.70	122.8	123.6	124.8	124.9	127.1	127.2	128.8	129.5	130.
Wood products	321	1.45	97.0	97.7	99.6	98.7	98.7	101.2	102.2	101.9	102.
Nonmetallic mineral products	327	2.26	99.3	100.0	100.8	100.9	100.4	101.5	102.4	102.9	103.
Primary metal	331	2.16	82.2	82.7	82.9	82.5	83.0	84.7	86.7	87.4	86.
Fabricated metal products	332	5.64	93.2	93.3	94.2	93.2	94.4	94.6	95.4	96.1	96.
Machinery	333	5.12	86.2	86.3	85.9	86.7	87.3	86.3	89.5	89.6	90.
Computer and electronic products Electrical equip., appliances,	334	7.91	258.0	260.5	266.7	273.7	277.1	282.9	285.2	285.8	288.
and components	335	2.18	92.4	93.6	92.9	93.0	93.9	94.4	95.6	96.0	96.
Motor vehicles and parts	3361–3	6.67	112.0	113.8	116.6	114.9	122.7	119.9	120.5	121.6	122.
Aerospace and other miscellaneous	2201 2	0.07	112.0	110.0	110.0	11.11	12217	117.7	120.0	121.0	122.
transportation equipment	3364-9	3.46	94.2	94.0	93.8	94.9	95.0	95.0	95.8	96.4	96.
Furniture and related products	337	1.65	100.8	100.3	101.2	100.1	100.5	100.0	100.7	101.0	101.
Miscellaneous	339	3.20	116.6	117.2	116.6	114.8	115.3	114.8	115.3	116.8	117.
Nondurable manufacturing		35.23	96.8	96.3	96.7	96.5	96.6	96.7	97.4	97.3	97.
Food, beverage, and tobacco products	311,2	11.59	98.0	98.0	98.3	97.3	97.3	96.8	97.1	96.6	96.
Textile and product mills	313,4	1.17	77.7	77.2	76.7	75.9	74.9	76.2	77.9	76.4	77.
Apparel and leather	315,6	.94	64.2	62.5	62.0	60.2	60.2	61.2	61.5	61.6	61.
Paper	322	2.97	92.7	93.1	93.0	91.6	91.3	91.4	92.0	92.6	92.
Printing and support	323	2.35	88.8	88.8	89.0	88.5	88.7	88.3	88.0	87.9	87.
Petroleum and coal products Chemical	324 325	2.46 10.02	101.6 104.4	99.1 103.5	100.0 104.5	101.8 105.5	101.9 106.1	102.1 106.4	102.9 107.9	103.7 107.9	102. 108.
Plastics and rubber products	325	3.72	104.4	103.5	104.5	105.5	106.1	106.4	107.9	107.9	108.
Other manufacturing (non-NAICS)	1133,5111	5.36	106.1	107.0	105.0	105.2	104.7	105.4	106.6	105.7	106.
Mining	21	7.62	92.7	93.2	93.4	93.1	93.5	93.7	94.0	94.2	94.
Utilities	2211,2	10.08	110.2	107.9	111.3	111.8	109.9	111.0	112.8	111.3	94. 117.
Electric	2211	8.32	112.4	109.8	114.1	115.0	112.4	113.9	115.8	113.8	119.
Natural gas	2212	1.77	98.0	97.5	96.7	95.9	96.8	96.6	97.6	98.5	105.

r Revised. p Preliminary. NOTE. See notes to table 1.

Table 5 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

1997 = 100, seasonally adjusted

Total industry Energy Consumer products Commercial products		proportion 100.00	May	June	July	Aug.	Sept.	Oct.r	Nov.r	Dec.r	Jan.p
Energy Consumer products Commercial products		100.00	1100								
Consumer products Commercial products			110.0	110.0	110.8	110.9	111.5	111.8	112.9	112.9	113.
Consumer products Commercial products		18.95	103.6	102.5	104.3	104.7	103.8	104.4	105.3	104.8	107.
Commercial products		4.75	110.4	107.1	109.8	111.1	109.4	109.0	110.4	109.9	114.
		2.41	112.3	108.9	112.5	112.0	111.5	114.2	116.5	114.9	119.
Oil and gas well drilling		.25	96.0	94.6	94.0	95.4	94.5	95.0	94.6	94.6	89.
Converted fuel		3.69	98.7	99.5	103.4	104.4	101.8	103.3	104.4	103.4	107.
Primary materials		7.84	99.3	99.1	99.1	98.8	99.2	99.2	99.5	99.5	100
Non-energy		81.05	111.0	111.2	111.8	111.7	112.7	113.0	114.1	114.3	114.
Selected high-technology industries		4.93	352.9	359.6	369.1	382.6	388.1	397.4	402.6	407.7	418
Computers and office equipment	3341	1.17	253.8	256.4	261.9	266.7	272.2	277.9	283.3	288.4	294
Communications equipment	3342	1.31	156.0	155.4	152.6	154.6	152.6	156.0	154.6	151.9	154
Semiconductors and related	3372	1.51	130.0	133.4	132.0	154.0	132.0	130.0	154.0	131.7	134
	334412–9	2.45	634.7	657.8	693.0	732.7	751.6	771.1	787.3	806.7	832
Excluding selected high-technology											
industries		76.11	97.8	97.9	98.3	98.0	98.9	98.9	99.9	100.0	100.
Motor vehicles and parts	3361–3	6.67	112.0	113.8	116.6	114.9	122.7	119.9	120.5	121.6	122
Motor vehicles	3361	2.94	114.3	116.4	121.2	117.3	130.5	124.4	123.7	124.2	125
Motor vehicle parts	3363	3.32	110.7	112.3	113.6	113.0	117.8	116.7	117.1	118.9	120
Excluding motor vehicles and parts		69.44	96.6	96.5	96.7	96.6	96.8	97.1	98.1	98.1	98
Consumer goods		26.22	103.9	103.9	104.4	103.9	104.7	104.7	105.6	105.2	105
Businessequipment		7.29	89.8	90.0	90.3	90.7	91.3	90.6	92.5	92.5	92
Construction supplies		4.19	100.5	100.5	101.3	101.7	102.0	102.9	103.9	103.9	104
Business supplies		10.95	101.4	100.9	101.6	101.2	101.2	101.8	102.9	102.6	103
Materials		24.81	93.3	93.2	93.5	93.1	93.8	94.2	95.2	95.5	95
Measures excluding selected high-technolo	ogv										
industries	<i>01</i>	0.5.05			00.4		00.0		1000	400.0	101
Total industry		95.07	98.9	98.7	99.4	99.2	99.8	99.9	100.9	100.8	101
Manufacturing ^l Durable		77.36 36.96	97.9 97.8	98.0 98.2	98.4 98.9	98.1 98.5	99.0 100.2	99.0 100.1	99.9 101.3	100.0 101.7	100 102
Measures excluding motor vehicles and pa	rte	20.70	77.0	70.2	, , , ,	70.0	100.2	100.1	101.0	10117	102
Total industry		93.33	109.9	109.7	110.4	110.6	110.7	111.2	112.4	112.3	113
Manufacturing ¹		75.62	110.9	110.9	111.4	111.5	111.9	112.3	113.5	113.6	113
Durable		35.22	124.4	124.9	125.7	126.3	127.2	128.0	129.8	130.3	131
Measures excluding selected high-technological	pgy										
industries and motor vehicles and par Total industry	ts	88.40	97.9	97.7	98.2	98.1	98.2	98.5	99.5	99.4	100
Manufacturing ¹		70.69	96.7	96.6	96.8	96.7	97.0	97.2	98.2	98.2	98
Stage-of-process components of non-energy materials, measures of the input to	gy										
Finished processors		13.73	143.5	144.8	146.2	146.5	149.5	149.9	151.7	153.2	154
Semifinished and primary processors		16.12	96.5	96.4	97.0	96.8	97.4	98.1	99.1	99.4	99
Processors		10.12	70.0	, 011	, , , , ,	, 0.0	,,,,	, 0.1	,,,,,	.,,.,	

Table 6 **DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION**

Percent

Item												
nem	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2001	39.3	38.3	41.0	45.8	34.6	37.3	41.4	44.1	43.7	40.0	39.7	49.5
2002	52.9	54.9	62.4	58.0	59.0	60.7	45.8	48.5	47.5	44.1	53.6	48.8
2003	48.8	48.8	38.3	36.3	51.5	52.5	57.6	45.8	59.3	62.4	71.9	51.9
Three months earlier												
2001	35.3	30.2	32.9	39.3	33.2	39.0	31.2	38.3	39.7	40.7	36.9	40.7
2002	46.8	57.1	60.2	64.7	68.1	63.1	58.0	52.9	43.7	44.4	45.8	45.8
2003	47.5	45.1	42.0	33.6	36.3	45.4	55.6	55.3	59.3	60.5	74.6	69.2
Six months earlier												
2001	30.8	30.2	27.8	29.2	29.5	32.2	33.6	32.5	36.3	30.5	33.6	36.3
2002	41.4	42.5	53.4	56.1	61.6	65.0	61.4	61.7	52.9	50.8	46.8	44.4
2003	40.7	40.0	40.3	33.6	34.9	39.3	43.1	42.4	52.9	60.3	67.1	69.5

Note. The diffusion indexes are calculated as the percentage of series that increased over the indicated span (one, three, or six months) plus one-half the percentage that were unchanged.

r Revised. p Preliminary.

1. See note on cover page.

Table 7 CAPACITY UTILIZATION

Percent of capacity, seasonally adjusted

Item		2003	1972- 2003	1988- 89	1990- 91	1994- 95	2003	-			2003			2004
nem		proportion	ave.	high	low	high	Q1	Q2	Q3	Q4r	Oct.r	Nov.r	Dec.r	Jan.F
Total industry		100.00	81.1	85.2	78.6	84.8	75.1	74.1	74.6	75.4	75.0	75.7	75.6	76.2
Manufacturing		84.35	80.0	85.6	77.2	84.3	73.5	72.7	73.2	74.1	73.6	74.3	74.4	74.6
Manufacturing (NAICS)		79.53	79.8	85.5	77.0	84.4	72.9	72.0	72.6	73.6	73.1	73.8	73.9	74.0
Durable manufacturing		44.99	78.3	84.5	73.4	83.7	70.3	69.1	70.1	71.4	70.8	71.5	71.8	72.1
Wood products	321	1.45	80.2	88.8	73.0	87.9	73.1	72.7	74.0	76.1	75.7	76.5	76.2	76.9
Nonmetallic mineral products	327	2.20	79.4	85.7	72.1	84.0	77.5	76.9	77.7	78.8	78.3	78.9	79.4	79.8
Primary metal	331	2.18	80.8	95.3	75.2	94.9	76.8	73.4	73.3	76.3	74.9	76.7	77.3	76.2
Fabricated metal products	332	6.26	76.9	80.3	71.1	83.8	68.8	67.2	67.3	68.2	67.7	68.3	68.7	69.2
Machinery	333	5.73	79.5	84.6	72.8	87.6	66.8	67.0	67.6	69.3	67.5	70.1	70.3	70.3
Computer and electronic products	334	9.67	79.1	81.1	76.3	85.3	63.2	62.9	65.2	66.8	66.9	67.0	66.7	66.9
Electrical equip., appliances,														
and components	335	2.23	83.0	87.4	75.0	92.5	73.5	73.1	73.5	75.4	74.6	75.6	75.9	76.3
Motor vehicles and parts	3361-3	6.27	77.7	89.7	56.5	87.8	80.9	77.9	80.7	81.8	81.5	81.7	82.2	82.6
Aircraft and other miscellaneous														
transportationequipment	3364-9	4.06	72.9	88.9	81.9	67.7	63.8	63.6	64.0	64.8	64.3	64.9	65.3	65.6
Furniture and related products	337	1.77	78.9	84.0	67.9	83.7	71.1	69.6	69.6	69.6	69.2	69.7	69.9	70.
Miscellaneous	339	3.15	76.9	81.7	77.7	81.2	77.8	76.5	75.6	75.7	75.1	75.4	76.4	76.6
Nondurable manufacturing		34.55	82.0	87.0	81.8	85.5	76.5	76.1	76.1	76.7	76.3	76.9	76.8	76.9
Food, beverage, and tobacco products	311.2	11.18	82.1	85.5	81.3	84.5	77.4	77.3	77.2	76.8	76.7	77.0	76.6	76.5
Textile and product mills	313,4	1.23	83.3	91.4	77.2	91.0	73.2	71.7	70.4	72.0	71.2	73.0	71.8	72.9
Apparel and leather	315,6	1.13	79.6	84.2	77.3	89.2	65.2	63.4	61.9	64.0	63.3	64.1	64.6	64.
Paper	322	2.69	88.3	93.7	85.2	92.4	83.6	83.8	83.4	83.6	82.9	83.6	84.2	84.
Printing and support	323	2.46	84.3	91.6	82.7	86.0	73.7	71.9	71.8	71.5	71.6	71.5	71.5	71.:
Petroleum and coal products	324	2.07	86.4	88.9	82.5	90.2	88.4	87.6	87.9	89.0	88.4	89.0	89.6	88.4
Chemical	325	10.27	78.4	85.6	80.8	81.3	73.1	72.6	73.0	74.2	73.5	74.5	74.5	74.8
Plastics and rubber products	326	3.51	83.7	91.3	77.2	92.4	79.6	79.1	79.9	81.1	80.6	81.4	81.3	81.5
Other manufacturing (non-NAICS)	1133,5111	4.81	83.6	90.7	79.1	82.8	82.3	83.2	82.4	83.5	83.2	84.0	83.4	83.6
Mining	21	6.71	86.9	85.6	83.4	88.3	84.7	84.7	85.0	85.6	85.4	85.7	85.9	86.0
Utilities	2211,2	8.95	86.9	92.8	84.1	93.8	86.3	82.4	82.9	82.6	82.4	83.4	82.1	86.1
Selected high-technology industries		6.35	78.8	79.9	74.5	88.3	61.7	62.0	65.0	67.1	66.8	67.2	67.4	68.6
Computers and office equipment	3341	1.37	78.1	79.3	67.2	86.6	71.4	68.6	70.4	73.3	72.4	73.3	74.1	75.
Communicationsequipment	3342	2.09	77.7	81.7	73.2	87.5	50.6	50.9	50.2	50.7	51.3	50.9	50.1	51.
Semiconductors and related														
electronic components	334412–9	2.89	80.7	80.5	78.1	91.5	64.9	66.8	73.0	75.9	75.3	75.8	76.5	77.8
Measures excluding selected high-technindustries	nology													
Total industry		93.65	81.3	85.6	78.8	84.7	76.3	75.3	75.7	76.4	76.0	76.7	76.6	77.
Manufacturing ¹		78.00	80.1	86.1	77.3	84.1	74.7	73.9	74.3	75.1	74.6	75.4	75.4	75.6
STAGE-OF-PROCESS GROUPS						I								
STAGE-OF-PROCESS GROUPS Crude		9.67	86.3	88.5	84.7	88.9	83.3	83.3	83.7	84.0	83.8	84.0	84.3	84.6
		9.67 48.65	86.3 82.2	88.5 86.4	84.7 77.5	88.9 87.9	83.3 77.2	83.3 75.8	83.7 76.4	84.0 77.5	83.8 77.0	84.0 77.8	84.3 77.8	84.6 78.7

Table 8 INDUSTRIAL CAPACITY

Percent change

		Average a	nnual rate		Fourt	h quarter	to fourth	quarter		Annual	rate		Monthly rate
Item	1972-	1980-	1989-	1995-		_			2003			2004	2004
	79	88	94	2004	2001	2002	2003	2004p	Q2	Q3	Q4	Q1	Jan.
Total industry	3.0	1.9	2.3	3.9	2.3	1.6	1.1	1.7	1.2	1.0	1.0	1.2	.1
Manufacturing ¹	3.1	2.2	2.6	4.3	2.2	1.1	1.0	1.8	1.0	.9	.8	1.0	.1
Mining Utilities	.7 4.2	.1 2.1	8 1.6	1 2.6	2.7 3.7	.3 6.0	5 4.4	.1 1.4	5 4.4	5 4.0	4 3.9	1 3.4	.0 .3
Selected high-technology industries	18.3	17.2	15.5	32.6	24.9	17.6	11.8	22.8	12.0	10.7	10.4	12.5	.8
Manufacturing ¹ ex. selected high-technology industries	2.5	1.3	1.7	1.7	.4	1	2	.1	2	2	2	1	.0
STAGE-OF-PROCESS GROUPS Crude	1.6	.3	2	1	1.2	3	-1.1	1	-1.2	-1.1	9 1.7	5	.0
Primary and semifinished Finished	3.0	1.5 3.2	2.6 2.6	4.9 3.5	2.8 1.8	1.8 1.7	1.8	2.5	1.8	1.8	.5	1.9	.0

r Revised. p Preliminary.

1. See note on cover page.

p Preliminary.
1. See note on cover page.

Table 9 GROSS VALUE OF FINAL PRODUCTS AND NONINDUSTRIAL SUPPLIES

Billions of 1996 dollars at annual rate, seasonally adjusted

Item			2002	2003				2003			2004
nem	1996	2003	Q4	Q1	Q2	Q3	Q4r	Oct.r	Nov.r	Dec.r	Jan.p
Final products and nonindustrial supplies	2,368.0	2,734.8	2,731.0	2,740.6	2,704.8	2,736.9	2,766.9	2,748.5	2,777.1	2,775.1	2,794.5
Final products	1,774.8	2,062.7	2,057.4	2,066.0	2,038.9	2,066.3	2,084.6	2,071.0	2,091.9	2,090.8	2,104.3
Consumer goods	1,244.3	1,400.1	1,401.0	1,406.3	1,386.3	1,402.6	1,409.2	1,402.6	1,413.5	1,411.6	1,420.9
Durable	378.6	501.9	493.3	496.5	486.9	504.8	513.4	509.7	515.0	515.4	518.5
Automotive products	213.9	305.2	297.0	299.6	291.9	307.6	312.2	310.5	312.6	313.4	315.9
Other durable goods	164.7	195.1	195.0	195.5	193.8	195.4	199.4	197.4	200.7	200.2	200.8
Nondurable	865.8	902.5	909.9	912.1	901.3	902.2	901.6	898.3	904.3	902.2	908.3
Equipment, total	530.5	658.9	650.5	654.1	647.8	659.8	674.0	666.0	677.3	678.7	682.8
Business and defense	515.6	649.9	640.9	645.3	638.5	650.6	665.1	657.1	668.5	669.8	674.3
Business	448.3	573.3	567.1	570.4	563.1	573.0	586.2	577.9	589.8	591.0	595.9
Defense and space	67.3	74.2	71.7	72.7	73.0	75.0	76.3	76.3	76.3	76.3	76.2
Nonindustrial supplies Construction supplies Business supplies Commercial energy products	593.1 162.7 430.4 113.0	672.1 174.3 498.7 129.4	673.6 175.7 498.6 131.3	674.5 174.3 501.1 131.7	665.9 172.1 494.7 127.5	670.5 174.1 497.2 128.2	682.2 177.6 505.4 132.8	677.4 176.3 501.8 131.3	685.1 178.1 507.7 134.3	684.2 178.3 506.6 132.7	690.2 178.8 512.1 136.7

r Revised. p Preliminary.

Table 10 GROSS-VALUE-WEIGHTED INDUSTRIAL PRODUCTION: STAGE-OF-PROCESS GROUPS Percent change, seasonally adjusted

		l	rth quarte							3.6 .1			1 102
Item		101	urth quar	ter		Annua	1 rate			Month	ıly rate		Jan. '03
Item	2003				2003				2003			2004	to
	gross value ¹	2001	2002	2003	Q1	Q2	Q3	Q4r	Oct.r	Nov.r	Dec.r	Jan.p	Jan. '04
Finished	1815.0	-4.2	1.4	2.0	1.9	-3.9	5.7	4.5	6	1.0	.1	.2	1.7
Semi-finished	1775.3	-6.5	3.1	2.1	3	-3.6	5.8	6.9	.5	1.2	1	1.3	4.1
Primary	849.0	-6.2	3.1	.0	.2	-10.3	3.3	7.6	.5	1.2	.5	1.0	1.3
Crude	355.0	-2.9	6	3	-1.2	-5.9	3.0	3.1	.3	.4	.4	.3	.8

r Revised. p Preliminary.

1. Billions of 1996 dollars.

Table 11 **ELECTRIC POWER USE**

1997 = 100

	1997			Seasonally	adjusted				No	ot seasona	lly adjuste	d	
Item	billion	2003						2003					
	kWh	July	Aug.	Sept.	Oct.r	Nov.r	Dec.p	July	Aug.	Sept.	Oct.r	Nov.r	Dec.p
Total Industry	983.9	92.0	91.0	91.9	91.6	91.8	91.8	92.4	93.4	95.1	93.8	91.4	90.1
Manufacturing ¹	890.9	92.5	91.5	92.4	92.0	92.3	92.4	93.0	94.2	95.8	94.3	91.7	90.5
Durable	386.5	91.7	91.1	91.7	91.5	91.5	92.2	93.1	94.4	95.2	93.4	89.9	89.0
Nondurable	498.4	93.0	91.9	93.0	92.4	92.8	92.5	92.9	94.0	96.2	95.1	93.1	91.7
Mining	93.0	85.4	83.6	84.9	85.4	85.0	83.1	82.9	82.4	85.5	85.8	86.2	84.7
Total ex. nuclear nondefense Utility sales to industry Industrial generation	962.6 913.5 70.4	92.4 90.3 124.7	91.5 88.9 126.1	92.4 89.9 127.6	92.4 89.5 125.7	92.8 89.6 128.3	92.9 89.2 128.5	94.0 90.2 126.8	95.1 91.2 128.8	96.1 93.2 125.5	94.2 91.7 127.2	91.9 89.2 125.9	90.5 87.5 131.7

r Revised. p Preliminary.

1. See note on cover page.

Note. Additional industry detail is available on the Board's web site, www.federalreserve.gov/releases/g17/download.htm.

Table 12
HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Total Industry
Seasonally adjusted

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
(percent																	
hange) ¹ 982	-1.8	1.9	7	8	7	3	4	9	5	9	4	8	-7.2	-4.7	-6.1	-7.7	-5.1
983	1.8	5	.8	1.3	.7	s .6	1.5	1.1	1.5	.8	.3	6	4.3	10.0	14.4	10.7	2.6
984	2.0	.3	.7	.6	.6	.4	.3	.1	2	2	.3	.1	12.4	6.8	3.0	1	9.1
985	3	.5	.1	.0	.1	.0	6	.5	.4	5	.3	1.0	1.0	1.0	6	1.9	1.3
986	.6	7	7	.1	.2	3	.6	2	.2	.4	.5	.9	2.6	-2.4	1.6	4.5	1.0
987	5	1.4	.2	.7	.6	.7	.6	.7	.2	1.4	.5	.4	4.9	7.7	7.3	9.1	5.0
988	.1	.5	.2	.4	.0	.2	.2	.5	3	.5	.2	.5	3.6	3.0	2.2	3.1	5.0
989 990	.3 5	5 .9	.3 .4	1 .0	6 .1	.0 .3	-1.0 2	.9 .3	3 .2	1 7	.2 -1.2	.7 7	1.6 3.0	-1.7 3.0	-2.8 1.3	1.5 -5.9	.9
991	4	7	5	.2	1.0	1.0	.0	.0	.9	2	1	3	-7.4	2.6	5.3	.7	-1.5
992	6	.9	.7	.7	.4	1	.8	3	.1	.7	.5	.0	1	7.0	2.7	4.3	2.8
993	.4	.4	.1	.2	3	.2	.4	1	.6	.6	.4	.6	3.5	1.1	2.1	6.2	3.3
994	.5	.1	.9	.5	.6	.7	.2	.6	.2	.8	.6	1.1	5.9	7.2	5.1	7.8	5.4
995	.4	.0	.0	.0	.2 .7	.3	4	1.4	.5	2	.4	.4	5.7	.9	3.7	3.7	4.8
996	7	1.3	2	.9	./	.9	1	.7	.6	.1	.9	.5	2.0	8.0	5.8	6.3	4.3
997 998	.3	1.4	.3	.5	.4	.5 4	.6 2	1.0 2.0	.8 2	.8	.7	.3	8.5	6.5 4.2	8.3 3.7	9.2 4.9	7.4 5.9
998 999	.5 .6	.3 .4	.3 .4	.6 .2	.5 .7	4 .1	2 .5	2.0	2 2	.8 1.0	3 .5	.0 .8	5.0 3.6	4.2 4.4	3.7 4.9	7.0	3.9
000	1	.6	.4	.7	.6	.1	5	1	2	4	1	3	4.6	6.7	6	-1.3	4.4
001	9	5	4	3	5	6	4	2	6	2	5	2	-6.3	-5.0	-5.2	-4.5	-3.4
002	.6	.2	.4	.4	.2	.6	1	.0	1	3	.1	5	1.9	4.2	1.2	-1.9	6
003	.5	.4	7	6	1	.0	.8	.0	.6	.3	1.0	.0	.9	-4.0	3.8	5.4	.2
004	.8																
P (1997=100)																	
002	109.7	109.9	110.3	110.8	110.9	111.7	111.5	111.5	111.3	111.0	111.2	110.6	110.0	111.1	111.5	110.9	110.9
003 004	111.2 113.8	111.6	110.8	110.1	110.0	110.0	110.8	110.9	111.5	111.8	112.9	112.9	111.2	110.0	111.1	112.5	111.1
Capacity opercent of 997 output) 002 003	145.6 147.8	145.8 148.0	146.0 148.1	146.2 148.3	146.4 148.4	146.6 148.5	146.8 148.7	147.0 148.8	147.2 148.9	147.3 149.0	147.5 149.1	147.7 149.3	145.8 148.0	146.4 148.4	147.0 148.8	147.5 149.1	146.7 148.6
tilization ercent)	149.4																
982	75.5	76.8	76.1	75.3	74.7	74.3	73.9	73.1	72.6	71.9	71.5	70.9	76.2	74.8	73.2	71.4	73.9
983 984	72.1 79.6	71.7 79.7	72.2 80.2	73.1 80.5	73.6 80.9	74.0 81.0	75.1 81.1	75.9 81.1	77.0 80.7	77.5 80.4	77.7 80.5	78.1 80.4	72.0 79.8	73.6 80.8	76.0 81.0	77.8 80.4	74.8 80.5
985	80.0	80.2	80.2	79.9	79.8	79.6	79.0	79.2	79.3	78.8	78.9	79.5	80.1	79.8	79.1	79.1	79.5
986	79.9	79.2	78.6	78.5	78.6	78.3	78.6	78.4	78.4	78.6	78.9	79.5	79.2	78.4	78.5	79.0	78.8
987	78.9	79.9	79.9	80.3	80.7	81.0	81.4	81.8	81.9	82.9	83.2	83.5	79.6	80.7	81.7	83.2	81.3
988	83.4	83.8	83.9	84.2	84.1	84.2	84.3	84.7	84.3	84.7	84.8	85.0	83.7	84.1	84.4	84.8	84.3
989	85.2	84.6	84.7	84.5	83.8	83.7	82.7	83.3	82.8	82.6	82.6	83.0	84.8	84.0	82.9	82.7	83.6
990 991	82.4 79.8	83.0 79.1	83.1 78.6	83.0 78.6	82.9 79.3	83.0 80.0	82.7 79.8	82.8 79.8	82.8 80.3	82.1 80.0	81.0 79.8	80.3 79.4	82.9 79.2	83.0 79.3	82.8 80.0	81.1 79.7	82.4 79.6
992	78.8	79.4	79.9	80.3	80.4	80.3	80.8	80.4	80.3	80.8	81.1	80.9	79.4	80.3	80.5	80.9	80.3
993	81.1	81.3	81.3	81.3	80.4	80.9	81.1	80.4	81.2	81.6	81.8	82.1	81.2	81.1	81.1	81.8	81.3
994	82.4	82.3	82.8	83.0	83.3	83.6	83.5	83.7	83.6	83.9	84.2	84.8	82.5	83.3	83.6	84.3	83.4
995	84.8	84.5	84.2	83.8	83.7	83.6	82.8	83.6	83.6	83.0	82.9	82.9	84.5	83.7	83.3	82.9	83.6
996	81.9	82.6	82.0	82.3	82.5	82.8	82.3	82.5	82.6	82.3	82.7	82.8	82.1	82.5	82.5	82.6	82.4
997	82.7	83.5	83.4	83.4	83.3	83.3	83.4	83.8	84.0	84.2	84.3	84.1	83.2	83.3	83.7	84.2	83.6
998 999	84.0	83.7	83.5	83.5	83.4	82.6	81.9	83.2	82.6	82.9	82.3	82.0	83.7	83.1 82.2	82.6 82.3	82.4	83.0
000	82.2 82.8	82.1 83.0	82.2 83.0	82.1 83.3	82.3 83.5	82.1 83.3	82.3 82.7	82.6 82.3	82.1 82.4	82.7 81.8	82.8 81.5	83.2 81.0	82.2 82.9	82.2	82.3 82.4	82.9 81.4	82.4 82.6
001	80.1	79.5	79.0	78.6	78.1	77.5	77.0	76.7	76.1	75.8	75.3	75.1	79.5	78.0	76.6	75.4	77.4
		75.4	75.6	75.8	75.8	76.2	76.0	75.9	75.7	75.4	75.4	74.9	75.4	75.9	75.8	75.2	75.6
002	75.4																
002 003	75.4 75.2	75.4	74.8	74.2	74.1	74.0	74.5	74.5	74.9	75.0	75.7	75.6	75.1	74.1	74.6	75.4	74.8

^{1.} Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

Table 13 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing¹ Seasonally adjusted

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ²	-2.2	20	0	6	2	1	2	0	1	1.2	6	1	0.2	1.5	12	0.0	5 /
1982 1983	2.4	2.8	8 1.0	6 1.2	3 1.4	1 .8	2 1.4	9 .7	4 1.9	-1.2 1.1	6 .3	4 .3	-8.3 9.1	-1.5 12.6	-4.3 14.9	-8.8 12.1	-5.4 4.6
1984	1.9	1 .9	.8	.5	.4	.5	.5	.2	3	.3	.2	.4	13.1	7.0	3.9	2.0	10.0
1985	4	2	.7	1	.2	.2	6	.6	.1	4	.6	.4	.0	1.8	.1	1.5	1.7
1986	1.2	5	4	.4	.2	3	.5	.3	.2	.3	.5	.9	4.8	.0	2.5	4.9	2.2
1987	6	1.6	.1	.6	.6	.6	.7	.4	.5	1.4	.6	.5	5.3	7.6	7.2	10.4	5.5
1988	2	.3	.3	.7	1	.0	.2	.1	.3	.6	.3	.5	2.7	3.8	1.6	4.7	5.1
1989	.8	-1.0	1	.1	8	.2	-1.1	.9	3	1	.1	.2	1.8	-3.1	-3.3	.2	.7
1990 1991	1 7	1.4	.3 7	1 .4	.1	.3 1.1	2 .3	.3	1 1.0	7 2	-1.2 3	7 1	4.5 -8.7	2.8	.7 6.9	-6.6 1.4	-2.0
1992	6	1.1	.9	.5	.6	.2	.8	2	1	.6	.5	2	1.1	8.0	3.7	3.2	3.7
1993	0	.2	.0	.4	.0 1	2	.3	2	.8	.7	.5	2 .7	4.4	1.6	1.2	6.9	3.5
1994	.3	.2	1.1	.8	.8	.3	.4	.8	.2	.9	.8	1.2	5.9	9.2	5.9	9.5	6.
995	.5	.0	.1	1	.0	.4	6	1.2	.9	2	.2	.5	6.2	.3	3.1	4.6	5
1996	8	1.3	3	1.1	.8	1.1	.3	.7	.7	.0	.9	.8	1.0	9.1	8.3	6.7	4.7
1997	.3	1.7	.6	.4	.5	.7	.5	1.2	.8	.7	.9	.4	10.0	7.8	9.2	9.7	8.6
1998	.9	.3	.1	.7	.3	6	3	2.4	3	1.0	1	.2	6.9	3.8	3.9	6.8	6.8
999	.4	.6	.2	.3	.9 .4	1 .2	.4 3	.9 4	2 .4	1.1 4	.7 4	.7 6	3.9 5.1	4.9 6.7	4.7 7	8.4 -2.8	5.0
2000 2001	9	5	4	3	5	7	3	4	6	4	4	0	-7.4	-4.9	-5.7	-4.3	-4.0
2002	.6	.1	.3	.2	.3	.6	2	.2	1	5	.0	6	2.1	3.4	1.7	-2.9	7
2003	.7	.0	3	6	1	.2	.5	.0	.9	.2	1.0	.1	1.0	-3.2	3.7	6.0	.3
004	.3																
IP (1997=100)																	
2002	111.0	111.0	111.4	111.6	111.9	112.6	112.4	112.6	112.5	111.9	111.9	111.3	111.1	112.1	112.5	111.7	111.8
2003 2004	112.0 114.6	112.1	111.8	111.1	111.0	111.2	111.8	111.8	112.7	112.9	114.1	114.2	112.0	111.1	112.1	113.7	112.2
Capacity (percent of 1997 output) 2002	150.6	150.7	150.9	151.0	151.1	151.3	151.4	151.6	151.7	151.9	152.0	152.2	150.7	151.1	151.6	152.0	151.4
2003 2004	152.3 153.7	152.4	152.6	152.7	152.8	153.0	153.1	153.2	153.3	153.4	153.5	153.6	152.4	152.8	153.2	153.5	153.0
Utilization	133.7																
(percent)																	
1982	71.9	73.7	73.0	72.4	72.1	71.9	71.6	70.9	70.4	69.5	69.0	68.7	72.8	72.1	71.0	69.1	71.3
1983	70.3	70.1 78.9	70.8 79.3	71.6 79.6	72.5	73.1 79.9	74.1	74.5	75.8 79.6	76.6	76.8	76.9	70.4	72.4 79.7	74.8 79.9	76.8	73.6
1984 1985	78.3 79.1	78.9	79.3	78.8	79.7 78.7	79.9	80.1 78.0	80.0 78.3	79.6	79.6 77.8	79.6 78.1	79.7 78.2	78.8 79.0	79.7	79.9	79.6 78.0	79.: 78.:
1986	79.0	78.5	78.1	78.3	78.4	78.0	78.3	78.4	78.5	78.6	78.8	79.4	78.6	78.2	78.4	78.9	78.
1987	78.8	79.9	79.9	80.2	80.5	80.8	81.2	81.4	81.7	82.8	83.2	83.5	79.5	80.5	81.5	83.1	81.2
1988	83.2	83.4	83.6	84.1	84.0	84.0	84.1	84.1	84.3	84.7	84.8	85.1	83.4	84.0	84.2	84.9	84.
1989	85.6	84.6	84.4	84.2	83.4	83.3	82.2	82.7	82.3	82.0	81.8	81.8	84.8	83.7	82.4	81.9	83.2
1990 1991	81.6 78.5	82.5 77.9	82.6 77.2	82.3 77.3	82.2 77.8	82.3 78.5	81.9 78.5	82.0 78.5	81.8 79.2	81.0 78.9	79.9 78.6	79.2 78.4	82.3 77.8	82.3 77.8	81.9 78.8	80.1 78.6	81.6 78.3
.992	77.8	78.5	79.0	79.3	79.6	79.6	80.1	79.7	79.5	79.8	80.1	79.8	78.4	79.5	79.8	79.9	79.4
1993	80.3	80.3	80.2	80.4	80.2	79.9	80.1	79.6	80.1	80.5	80.7	81.0	80.3	80.1	79.9	80.7	80.3
.994	81.1	81.0	81.8	82.2	82.5	82.5	82.6	82.9	82.8	83.3	83.6	84.3	81.3	82.4	82.8	83.7	82.
995	84.3	83.9	83.6	83.1	82.8	82.7	81.8	82.3	82.7	82.1	81.8	81.7	84.0	82.9	82.3	81.9	82.7
996	80.6	81.1	80.4	80.8	81.0	81.4	81.2	81.4	81.5	81.1	81.5	81.7	80.7	81.1	81.4	81.4	81.
.997	81.5	82.4	82.5	82.4	82.4	82.5	82.5	82.9	83.1	83.1	83.3	83.1	82.1	82.4	82.8	83.2	82.0
1998 1999	83.3	83.0	82.5	82.6	82.3 81.5	81.3	80.7	82.1	81.5	81.9 81.6	81.4	81.2	82.9	82.1	81.4 81.2	81.5	82.0
2000	81.2 81.7	81.3 81.8	81.1 82.0	81.1 82.2	81.5	81.1 82.0	81.1 81.4	81.5 80.8	81.0 80.8	80.2	81.9 79.6	82.1 79.0	81.2 81.8	81.2 82.1	81.2	81.9 79.6	81.
	78.0	77.4	76.9	76.6	76.1	75.4	75.1	74.6	74.1	73.8	73.5	73.4	77.5	76.0	74.6	73.5	75.4
	I .																
2001 2002	73.7	73.7	73.8	73.9	74.1	74.4	74.3	74.3	74.2	73.7	73.6	73.1	73.7	74.1	74.2	73.5	73.9
2001	73.7 73.6	73.7 73.5	73.8 73.3	73.9 72.7	74.1 72.6	74.4 72.7	74.3 73.0	74.3 73.0	74.2 73.6	73.7 73.6	73.6 74.3	73.1 74.4	73.7 73.5	74.1 72.7	74.2 73.2	73.5 74.1	73.

See note on cover page.
 Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

Table 14 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Total Industry Excluding Selected High-Technology Industries

Seasonally adjusted

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
\mathbf{P} (percent change) l																	
1982	-1.9	1.8	7	9	8	4	5	9	5	9	4	9	-8.1	-5.7	-6.8	-8.3	-5.9
1983	1.7	5	.7	1.3	.7	.5	1.4	1.2	1.2	.7	.2	.6	3.5	9.1	13.5	9.6	1.8
1984	1.9	.1	.6	.5	.5	.2	.2	.0	3	2	.3	.1	11.3	5.3	1.8	8	7.9
1985	4	.6	.0	.1	.1	.0	5	.5	.5	5	.2	1.0	.8	1.5	1	2.0	1.0
986	.6	7	8	.1	.1	1	.3	2	.2	.4	.4	.8	2.6	-2.7	.7	4.0	.9
987	7	1.4	.2	.6	.5	.6	.5	.6	.2	1.3	.5	.3	3.9	7.0	6.3	8.4	4.2
1988	.0	.5	.2	.3	1	.1	.2	.5	4	.5	.2	.5	3.3	2.3	1.6	2.9	4.4
989	.3	5	.4	2	6	.0	-1.1	.9	4	2	.2	.7	1.8	-1.9	-3.6	.8	.6
990 991	6 4	.8 8	.4 6	1	1.0	1.0	2	.3	.1	8 2	-1.3 2	7 5	2.3 -7.9	2.4	1.0 5.1	-6.5 .1	.3 -2.0
				.2				.0	.,	2	2		-1.5	2.0			
992	8	.9	.7	.6	.3	2	.7	4	.1	.6	.4	.0	-1.6	6.1	1.5	3.2	1.9
993	.4	.3	.1	.2	4	.2	.3	2	.5	.5	.3	.6	3.0	.6	1.2	4.9	2.5
994	.5	.1	.7		.4	.6	.0	.4	.0	.6	.5	.9	5.1	4.8	3.2	5.6	4.0
995 996	.2 9	2 1.2	2 4	2 .7	.0 .5	.2 .7	6 4	1.1 .5	.1 .3	6 2	.2 .8	.3 .3	3.1	-1.4 5.6	1.3 2.5	.4 3.4	2.4 1.7
997	.1	1.1	1	.2	.0	.3	.5	.8	.7	.7	.4	.0	5.3	2.2	5.6	7.0	4.2
998	.1	.1	.2	.5	.4	8	7	1.8	5	.7	5	2	1.6	2.6	3	2.1	3.1
999	.3	.1	.1	2	.5	3	.1	.6	3	.8	.3	.5	.5	.6	1.5	4.5	1.2
000	5	.3	.2	.4	.3	.0	8	3	.2	5	2	3	.7	3.0	-3.2	-2.8	1.2
001	8	4	4	1	4	5	3	1	7	4	6	4	-6.0	-3.8	-4.3	-5.5	-3.9
002	.6	.1	.4	.3	.1	.6	2	2	2	3	.0	6	1.3	3.6	.0	-3.0	-1.1
003	.5	.3	8	7	1	1	.7	2	.5	.1	1.0	1	.1	-5.0	2.4	4.4	8
004	.7																
P (1997=100)																	
002	99.8	99.9	100.3	100.7	100.7	101.3	101.1	100.9	100.7	100.3	100.3	99.8	100.0	100.9	100.9	100.1	100.5
003 004	100.3 101.5	100.5	99.7	99.0	98.9	98.7	99.4	99.2	99.8	99.9	100.9	100.8	100.2	98.9	99.5	100.5	99.7
Capacity percent of 997 output)	130.7	130.8	130.8	130.9	131.0	131.0	131.1	131.2	131.2	131.2	131.3	131.3	130.8	131.0	131.1	131.3	131.0
003 004	131.3 131.6	131.3	131.3	131.4	131.4	131.4	131.4	131.4	131.5	131.5	131.5	131.5	131.3	131.4	131.4	131.5	131.4
I tilization percent)																	
1982	75.3	76.6	75.9	75.1	74.4	74.0	73.6	72.9	72.4	71.7	71.3	70.7	75.9	74.5	73.0	71.2	73.7
983	71.9	71.5	72.0	72.9	73.4	73.8	74.8	75.7	76.7	77.2	77.4	77.8	71.8	73.4	75.7	77.5	74.6
984	79.3	79.4	79.8	80.1	80.5	80.6	80.7	80.6	80.2	80.0	80.1	80.0	79.5	80.4	80.5	80.0	80.1
985	79.6	80.0	79.9	79.9	79.8	79.7	79.1	79.4	79.7	79.2	79.2	79.9	79.8	79.8	79.4	79.4	79.6
986	80.3	79.7	79.0	78.9	78.9	78.8	79.0	78.7	78.8	79.0	79.3	79.8	79.7	78.9	78.8	79.4	79.2
987	79.2	80.2	80.3	80.7	81.0	81.4	81.8	82.2	82.2	83.3	83.6	83.8	79.9	81.0	82.0	83.6	81.6
988	83.8	84.2	84.3	84.6	84.4	84.5	84.6	85.0	84.6	85.0	85.1	85.4	84.1	84.5	84.7	85.2	84.6
989	85.6	85.0	85.2	85.0	84.3	84.2	83.1	83.6	83.2	82.9	82.9	83.3	85.3	84.5	83.3	83.0	84.0
990	82.7	83.3	83.4	83.3	83.2	83.3	83.0	83.1	83.1	82.4	81.2	80.5	83.1	83.3	83.1	81.4	82.7
991	80.1	79.4	78.8	78.9	79.5	80.2	80.1	80.0	80.6	80.4	80.1	79.6	79.4	79.5	80.2	80.0	79.8
992	78.9	79.5	80.0	80.4	80.5	80.3	80.8	80.3	80.3	80.7	81.0	80.9	79.5	80.4	80.5	80.9	80.3
993	81.1	81.3	81.3	81.4	80.9	81.0	81.2	80.9	81.2	81.6	81.8	82.1	81.2	81.1	81.1	81.8	81.3
994	82.5	82.4	82.9	83.0	83.2	83.6	83.4	83.6	83.5	83.9	84.1	84.7	82.6	83.2	83.5	84.2	83.4
995 996	84.6 81.7	84.3 82.5	84.0 82.0	83.6 82.4	83.4 82.6	83.3 83.0	82.6 82.5	83.4 82.8	83.3 82.9	82.6 82.5	82.5 83.0	82.6 83.1	84.3 82.1	83.4 82.7	83.1 82.7	82.6 82.9	83.4 82.6
997	83.0	83.7	83.4				83.2				84.3	84.0	83.3	83.1			
				83.3	83.1	83.0		83.5	83.9	84.2					83.5	84.2	83.5
998	83.9	83.7	83.6	83.8	83.9	83.0	82.2	83.5	82.9	83.2	82.6	82.3	83.7	83.6	82.9	82.7	83.2
999	82.4	82.3	82.2	81.9	82.1	81.8	81.7	82.1	81.7	82.2	82.3	82.6	82.3	81.9	81.8	82.4	82.1
000 001	82.1 80.1	82.3 79.7	82.4 79.3	82.6 79.1	82.8 78.8	82.7 78.3	82.0 78.0	81.7 77.8	81.8 77.2	81.3 76.9	81.1 76.3	80.8 76.0	82.3 79.7	82.7 78.7	81.8 77.7	81.1 76.4	82.0 78.1
0002	76.4	76.4	76.7	76.9	76.9	77.3	77.1	76.9	76.7	76.4	76.4	76.0	76.5	77.0	76.9	76.3	76.7
003	76.4 77.1	76.5	75.9	75.4	75.3	75.1	75.6	75.5	75.9	76.0	76.7	76.6	76.3	75.3	75.7	76.4	75.9
.004																	

1. Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

Note. Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.

Table 15 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing 1 Excluding Selected High-Technology Industries

Seasonally adjusted

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent change) ²																	
1982	-2.3	2.6	8	7	4	1	4	8	5	-1.3	7	6	-9.7	-2.6	-5.1	-9.7	-6.5
1983	2.5	2	.9	1.1	1.3	.7	1.2	.9	1.5	1.1	.2	.3	8.3	11.6	13.7	10.7	3.7
1984	1.8	.8	.6	.3	.2	.3	.4	.1	4	.3	.2	.3	11.6	5.0	2.3	1.1	8.5
1985	5	1	.7	.0	.2	.1	4	.7	.2	4	.5	.3	3	2.5	.7	1.6	1.4
.986	1.3	5	5	.4	.1	1	.2	.2	.2	.3	.4	.8	5.0	2	1.3	4.3	2.2
.987 .988	8 2	1.6	.2	.5	.5 2	.5 1	.6 .1	.3	.5	1.4	.5	.4 .5	4.0 2.2	6.7 3.0	5.9	9.6 4.6	4.6
989	.8	-1.1	.0	.0	8	.1	-1.4	.8	3	3	.0	.2	2.1	-3.5	-4.4	7	.4
990	2	1.4	.3	2	.0	.2	2	.3	1	8	-1.3	8	3.8	2.1	.3	-7.3	.0
.991	7	8	8	.4	.7	1.1	.3	.1	1.1	2	4	3	-9.4	1.4	6.7	.7	-2.6
.992	8	1.1	.8	.4	.5	.1	.7	3	2	.5	.4	2	7	6.9	2.3	1.8	2.5
.993	.9	.1	1	.4	1	3	.3	4	.6	.6	.3	.6	3.8	1.0	.2	5.4	2.5
.994	.3	.2	.9	.5	.5	.1	.2	.6	.0	.7	.6	1.0	4.9	6.4	3.7	6.9	4.4
995 996	.2 -1.1	3 1.1	2 5	3 .9	2 .5	.3 .8	9 .0	.9 .4	.6 .4	6 3	1 .8	.3 .6	3.1 -1.3	-2.4 6.2	.1 4.5	.7 3.3	2.5 1.6
.997	.0	1.3	.1	.0	.1	.4	.3	1.0	.6	.6	.6	.1	6.2	2.8	6.1	7.2	4.9
998	.5	.0	.0	.6	.3	-1.0	8	2.1	7	.9	3	1	3.0	2.0	8	3.8	3.5
999	.1	.3	2	1	.6	5	1	.8	3	.9	.4	.3	.4	.6	.8	5.7	1.4
000	5	.2	.5	.2	1	.0	6	6	.2	5	6	6	.5	2.4	-3.8	-4.7	1.0
001	8	4	4	1	3	6	2	4	6	5	4	3	-7.2	-3.5	-4.6	-5.7	-4.6
2002	.6	.0	.3	.2	.2	.5	3	.0	2	6	1	7	1.4	2.5	.3	-4.3	-1.3
003	.7	1	3	7	2	.0	.4	2	.8	.0	1.0	.1	.1	-4.3	1.9	4.8	9
004	.2																
P (1997=100)	00.4	00.4	00.7	00.0	100.0	100.5	100.2	100.2	100.0	00.4	00.2	00.6	00.5	100.1	100.2	00.1	00.5
002 003	99.4	99.4 99.2	99.7 98.8	99.8 98.1	100.0 97.9	100.5 98.0	100.2 98.4	100.3 98.1	100.0 99.0	99.4 99.0	99.3 99.9	98.6 100.0	99.5 99.1	100.1 98.0	100.2 98.5	99.1 99.6	99.7 98.8
004	100.2	99.2	90.0	90.1	91.9	96.0	90.4	90.1	99.0	99.0	99.9	100.0	99.1	96.0	90.3	99.0	90.0
Capacity percent of 997 output)																	
002	133.0	133.0	133.0	133.0	133.0	132.9	132.9	132.9	132.9	132.9	132.8	132.8	133.0	133.0	132.9	132.8	132.9
003	132.8 132.6	132.8	132.7	132.7	132.7	132.7	132.7	132.6	132.6	132.6	132.6	132.6	132.8	132.7	132.6	132.6	132.7
Itilization																	
percent)																	
982	71.4	73.1	72.5	71.9	71.6	71.4	71.1	70.4	70.0	69.1	68.6	68.2	72.3	71.6	70.5	68.7	70.8
983	69.9	69.8	70.4	71.2	72.2	72.7	73.6	74.3	75.4	76.2	76.3	76.5	70.0	72.0	74.4	76.3	73.2
984	77.8	78.4	78.8	79.0	79.1	79.2	79.4	79.3	78.9	79.0	79.0	79.1	78.3	79.1	79.2	79.0	78.9
985	78.6	78.3	78.8	78.7	78.7	78.6	78.1	78.5	78.6	78.1	78.4	78.6	78.6	78.6	78.4	78.4	78.5
986	79.6	79.1	78.6	78.9	78.9	78.7	78.7	78.8	78.9	79.0	79.3	79.8	79.1	78.8	78.8	79.4	79.0
987	79.1	80.3	80.3	80.6	80.9	81.2	81.6	81.8	82.1	83.2	83.6	83.9	79.9	80.9	81.8	83.5	81.5
988	83.7	83.9	84.1	84.6	84.4	84.4	84.4	84.5	84.7	85.0	85.2	85.5	83.9	84.5	84.5	85.3	84.5
989 990	86.1	85.1	84.9	84.8	84.0	83.9	82.6	83.1	82.7	82.3	82.2	82.1	85.4	84.2	82.8	82.2	83.7
990 991	81.9 78.8	82.9 78.1	82.9 77.3	82.6 77.5	82.5 77.9	82.6 78.7	82.2 78.8	82.4 78.7	82.1 79.5	81.3 79.2	80.2 78.9	79.5 78.5	82.6 78.1	82.6 78.0	82.3 79.0	80.3 78.9	81.9 78.5
992	77.8	78.5	79.1	79.3	79.6	79.6	80.0	79.7	79.4	79.7	79.9	79.7	78.5	79.5	79.7	79.8	79.4
993	80.3	80.3	80.1	80.4	80.1	79.8	80.0	79.6	80.0	80.4	80.6	81.0	80.2	80.1	79.9	80.6	80.2
994	81.1	81.1	81.8	82.1	82.4	82.4	82.4	82.8	82.7	83.2	83.5	84.1	81.3	82.3	82.7	83.6	82.5
995	84.1	83.6	83.2	82.8	82.4	82.4	81.4	82.0	82.2	81.5	81.2	81.3	83.6	82.5	81.9	81.4	82.3
996	80.2	80.9	80.3	80.9	81.1	81.6	81.4	81.5	81.7	81.3	81.7	81.9	80.5	81.2	81.5	81.6	81.2
997	81.7	82.5	82.4	82.1	82.0	82.0	82.0	82.5	82.8	83.0	83.2	82.9	82.2	82.1	82.5	83.0	82.4
998	83.1	82.8	82.6	82.8	82.8	81.7	80.9	82.4	81.6	82.1	81.7	81.4	82.8	82.5	81.6	81.8	82.2
999	81.3	81.4	81.0	80.8	81.1	80.5	80.3	80.8	80.4	81.0	81.2	81.3	81.2	80.8	80.5	81.2	80.9
000	80.8	80.8	81.1	81.2	81.1	81.1	80.5	79.9	80.0	79.5	79.0	78.5	80.9	81.1	80.1	79.0	80.3
001	77.8	77.4	77.1	77.0	76.7	76.2	76.1	75.7	75.2	74.8	74.5	74.3	77.4	76.6	75.7	74.5	76.1
002	74.7	74.7	74.9	75.1	75.2	75.6	75.4	75.4	75.3	74.8	74.7	74.2	74.8	75.3	75.4	74.6	75.0
003	74.8 75.6	74.7	74.5	73.9	73.8	73.9	74.2	74.0	74.6	74.6	75.4	75.4	74.7	73.9	74.3	75.1	74.5
2004																	

See note on cover page.
 Quarterly changes are at annual rates. Annual changes are calculated from annual averages.
 Note. Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.

EXPLANATORY NOTE

The Industrial Production and Capacity Utilization statistical release, which is published around the middle of the month, reports measures of output, capacity, and capacity utilization in manufacturing, mining, and the electric and gas utilities industries. The release also includes monthly indexes on the use of electric power in manufacturing and mining. More detailed descriptions of industrial production, capacity utilization, and electric power are available at www.federalreserve.gov/releases/G17 at the Board's World Wide Web site. In addition, files containing data shown in the release, more detailed series that were published in the G.17 prior to December 2000, and historical data are available at the Board's Web site. Instructions for searching for and downloading specific series are provided as well. For paid access to the data files through the Department of Commerce's Economic Bulletin Board or World Wide Web site, please call STAT-USA at 1-800-STAT-USA or 202-452-1986. Diskettes containing historical data and the data published in this release also are available from the Board of Governors of the Federal Reserve System, Publications Services, 202-452-3245.

INDUSTRIAL PRODUCTION

Coverage. The industrial production (IP) index measures the real output of the manufacturing, mining, and electric and gas utilities industries; the reference period for the index is 1997. Manufacturing consists of those industries included in the North American Industry Classification System, or NAICS, definition of manufacturing plus those industries-logging and newspaper, periodical, book and directory publishing-that have traditionally been considered to be manufacturing and included in the industrial sector. For the period since 1997, the total IP index has been constructed from 295 individual series based on the 2002 North American Industrial Classification System (NAICS) codes. These individual series are classified in two ways: (1) market groups, and (2) industry groups. Market groups consist of products and materials. Total products are the aggregate of final products, such as consumer goods and equipment, and nonindustrial supplies (which are inputs to nonindustrial sectors). Materials are inputs in the manufacture of products. Major industry groups include three-digit NAICS industries and aggregates of these industries—for example, durable and nondurable manufacturing, mining, and utilities. A complete description of the market and industry structures, including details regarding series classification, relative importance weights, and data sources, is available on the Board's web site (www.federalreserve.gov/releases/G17/About.html). Changes in output for the market and industry groups are summarized in table 1 and the levels of output (in index form) are shown in table 4. Special aggregates, that highlight the relative importance and contributions of several key industries, such as high-technology and motor vehicles, are summarized in tables 2 and 5. For a detailed description of the contents of the statistical tables, see below.

Source data. On a monthly basis, the individual indexes of industrial production are constructed from two main types of source data: (1) output measured in physical units and (2) data on inputs to the production process, from which output is inferred. Data on physical products, such as tons of steel or barrels of oil, are obtained from private trade associations and from government agencies; data of this type are used to estimate monthly IP wherever possible and appropriate. Production indexes for a few industries are derived by dividing estimated nominal output (calculated using unit production or sales and unit values) by a corresponding Fisher price index; the most notable of these fall within the high-technology grouping and include computers, communications equipment, and semiconductors. When suitable data on physical product are not available, estimates of output are based on either production-worker hours or electric power use by industry. Data on hours worked by production workers are collected in the monthly establishment survey conducted by the Bureau of Labor Statistics. The data on electric power use are described below. The factors used to convert inputs into estimates of production are based on historical relationships between the inputs and the comprehensive annual data used to benchmark the IP indexes; these factors also may be influenced by technological or cyclical developments. The annual data used in benchmarking the individual IP indexes are constructed from a variety of source data, such as the quinquennial Censuses of Manufactures and Mineral Industries and the

Annual Survey of Manufactures, prepared by the Bureau of the Census; the Minerals Yearbook, prepared by the United States Geological Survey of the Department of the Interior; and publications of the Department of Energy.

Aggregation Methodology and Weights. The aggregation method for the IP index is a version of the Fisher-ideal index formula. (For a detailed discussion of the aggregation method, see *Federal Reserve Bulletin* February 1997 and March 2001.) In the IP index, series that measure the output of an individual industry are combined using weights derived from their proportion in the total value-added output of all industries. The IP index, which extends back to 1919, is built as a chain-type index since 1972. The current formula for the growth in monthly IP (or any of the sub-aggregates) since 1972 is the geometric mean of the change in output (I), and, as can be seen below, is computed using the unit value added estimate for the current month (p_m) and the estimate for previous month:

$$\frac{I_{m}^{A}}{I_{m-1}^{A}} = \sqrt{\frac{\sum I_{m}p_{m-1}}{\sum I_{m-1}p_{m-1}}} \times \frac{\sum I_{m}p_{m}}{\sum I_{m-1}p_{m}}$$

The IP proportions (typically shown in the first column of the relevant tables in the G.17 release) are estimates of the industries' relative contributions to overall growth in the following year. For example, the relative importance weight of the motor vehicles and parts industry is about 5 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by $\frac{1}{2}$ percentage point (0.05 x 10% = 0.5%). To assist users with calculations, the Federal Reserve's web site provides supplemental monthly statistics that represent the exact proportionate contribution of a monthly change in a component index to the monthly change in the total index (www.federalreserve.gov/releases/G17/ipdisk/ipweights.sa).

Timing. The first estimate of output for a month is published around the 15th of the following month. The estimate is preliminary (denoted by the superscript "p" in tables) and subject to revision in each of the subsequent three months as new source data become available. (Revised estimates are denoted by the superscript "r" in tables.) For the first estimate of output for a given month, about 55 percent of the source data (in value-added terms) are available; the fraction of available source data increases to about 84 percent for estimates in the second month that the estimate is published, 95 percent in the third month, and 96 percent in the fourth month. Data availability by data type is summarized in the table below:

Availability of Monthly IP Data in Publication Window (Percent of value added in 2002)

	Month of estimate									
Type of data	1st	2nd	3rd	4th						
Physical product	24	34	46	46						
Production-worker hours	31	31	31	31						
Electric power use	0	19	19	19						
IP data received	55	84	95	96						
IP data estimated	45	16	5	4						

NOTE—The physical product group includes series based on either monthly or quarterly data. As can be seen in the first line of the table, in the first month, a physical product indicator is available for about half of the series (in terms of value added) that ultimately are based on physical product data (24 percent out of total of 46 percent). Of the 24 percent, about two—thirds (15 percent of total IP) include series that are derived from weekly physical product data and for which actual monthly data may lag up to several months. On average, quarterly product data are received for the third estimate of industrial production. Specifically, quarterly data are available for the second estimate of the last month of a quarter, the third estimate of the second month of a quarter, and the fourth estimate of the first month of a quarter. About 4 percent of the source data for monthly IP—all physical product measures—are available too late for direct inclusion in the current index and are incorporated at the time of an annual historical revision.

Seasonal adjustment. Individual series are seasonally adjusted using Census X-12 ARIMA. For series based on production-worker hours, the current seasonal factors were estimated with data through September 2003; for other series, the factors were estimated with data through at least June 2003. Series are pre-adjusted for the effects of holidays or the business cycle when appropriate. For the data since 1972, all seasonally adjusted aggregate indexes are calculated by aggregating the seasonally adjusted indexes of the individual series.

Reliability. The average revision to the *level* of the total IP index, without regard to sign, between the first and the fourth estimates was 0.28 percent during the 1987–2001 period. The average revision to the *percent change* in total IP, without regard to sign, from the first to the fourth estimates was 0.22 percentage point during the 1987–2001 period. In most cases (about 84 percent), the direction of change in output indicated by the first estimate for a given month is the same as that shown by the fourth estimate.

Rounding. The published percent changes are calculated from unrounded indexes, and may not be the same as percent changes calculated from the rounded indexes shown in the release.

CAPACITY UTILIZATION

Overview. The Federal Reserve Board constructs estimates of capacity and capacity utilization for industries in manufacturing, mining, and electric and gas utilities. For a given industry, the capacity utilization rate is equal to an output index (seasonally adjusted) divided by a capacity index. The Federal Reserve Board's capacity indexes attempt to capture the concept of *sustainable maximum output*—the greatest level of output a plant can maintain within the framework of a realistic work schedule, after factoring in normal downtime and assuming sufficient availability of inputs to operate the capital in place.

Coverage. Capacity indexes are constructed for 85 detailed industries (67 in manufacturing, 16 in mining, and 2 in utilities), which mostly correspond to industries at the three- and four-digit NAICS level. Estimates of capacity and utilization are available for a variety of groups, including durable and nondurable manufacturing, total manufacturing, mining, utilities, and total industry. Manufacturing consists of those industries included in the North American Industry Classification System, or NAICS, definition of manufacturing *plus* those industries—logging and newspaper, periodical, book and directory publishing—that have traditionally been considered to be manufacturing and included in the industrial sector. Also, special aggregates are available, such as high-tech industries and manufacturing excluding high-tech industries.

Source Data. The monthly rates of capacity utilization are designed to be consistent with both the monthly data on production and the periodically available data on capacity and utilization. Because there is no direct monthly information on overall industrial capacity or utilization rates, the Federal Reserve first estimates annual capacity indexes from the source data. Capacity data reported in physical units from government sources (primarily from the U.S. Geological Survey and the Department of Energy's Energy Information Administration) and trade sources are available for portions of several industries in manufacturing (e.g., paper, industrial chemicals, petroleum refining, motor vehicles), as well as for electric utilities and mining; these industries represent about 18 percent of total industrial capacity. When physical product data are unavailable for manufacturing industries, capacity indexes are based on responses to the Bureau of the Census's Survey of Plant Capacity (SPC); these industries account for a bit less than 78 percent of total industry capacity. In the absence of utilization data for a few mining and petroleum series, capacity is based on trends through peaks in production (roughly 4 percent of total industry capacity). A detailed description of the methodology used to construct the capacity indexes is available on the Board's web site (www.federalreserve.gov/releases/G17/cap_notes.html).

Aggregation Methodology. Monthly capacity aggregates are calculated in three steps: (1) utilization aggregates are calculated on an annual basis through the most recent full year as capacity-weighted aggregates of individual utilization rates; (2) the annual aggregate capacity is derived from the corresponding production and utilization aggregates; (3) the monthly capacity aggregate is obtained by interpolating with a Fisher index of its constituent monthly capacity series. Utilization rates for the

individual series and aggregates are calculated by dividing the pertinent monthly production index by the related capacity index.

Consistency. A major aim is that the Federal Reserve utilization rates be consistent over time so that, for example, a rate of 85 percent means about the same degree of tightness that it meant in the past. A major task for the Federal Reserve in developing reasonable and consistent time series of capacity and utilization is dealing with inconsistencies between the movements of the industrial production index and the survey-based utilization rates. The McGraw-Hill/DRI Survey, now discontinued, was the primary source of manufacturing utilization rates for many years. This was a survey of large companies that reported, on average, higher utilization rates than those reported by establishments covered by the SPC (currently the primary source of factory operating rates) for the fourteen years they overlapped. Adjustments have been made to keep the industry utilization rates currently reported by the Federal Reserve roughly in line with rates formerly reported by McGraw-Hill. As a consequence, the rates reported by the Federal Reserve tend to be higher than the rates reported in the SPC.

Perspective. Over the 1972–2002 period, the average total industry utilization rate is 81.3 percent; for manufacturing, the average factory operating rate has been 80.2 percent. Industrial plants usually operate at capacity utilization rates that are well below 100 percent: none of the broad aggregates has ever reached 100 percent. For total industry and total manufacturing, utilization rates have exceeded 90 percent only in wartime. The highs and lows in capacity utilization shown in table 7 are specific to each series and do not all occur in the same month.

ELECTRIC POWER

Coverage. Electric power data for sales by utilities to industry users and for electric power produced by cogenerators (manufacturing and mining firms that produce electricity for their own use or to sell to a utility) are generally collected at the 4-digit NAICS and 3-digit SIC level for mining and manufacturing. Aggregates for 3-digit industries, as well as for total mining, durable, nondurable, total manufacturing and total industrial electric power use, are computed. Manufacturing consists of those industries included in the North American Industry Classification System, or NAICS, definition of manufacturing plus those industries-logging and newspaper, periodical, book and directory publishing-that have traditionally been considered to be manufacturing and included in the industrial sector. An aggregate showing total industry excluding nuclear nondefense is shown separately because the value-added proportion for the nondefense nuclear material series (part of NAICS 3251) in total IP is considerably less than its share of total electric power use. In addition, aggregates for utility sales to industrial users and industry generation are computed. While only the major aggregates are shown in the release, data for the 3- and 4-digit industries are available on the Board's web site (www.federalreserve.gov/releases/G17).

Source Data. Electric power data are collected from a sample of utilities and cogenerators covering all twelve Federal Reserve Districts. The primary criterion for inclusion of a utility in the panel is whether the utility provides electric power to industrial customers. A comparison of Federal Reserve kilowatt-hour aggregates to estimates from the 1997 *Census of Manufactures* (the most recent available) and recent reporting panel statistics suggests the Federal Reserve data cover about 50 percent of the overall sales to manufacturing in that year. The cogeneration panel covers about 50 percent of cogeneration used directly by manufacturers. In order to provide more complete coverage and correct for any shortcomings of the survey, the series are benchmarked at the 4-digit industry level to the latest available data from the *Annual Survey of Manufactures* and the *Census of Manufactures*.

Methodology. The data we receive from utilities and cogenerators are edited for anomalies and aggregated, using self weights, to the 4-digit NAICS industry levels and above. Where reports are late or unavailable for some reason, responses are estimated.

Seasonal Adjustment. Series are seasonal adjusted at the 4-digit NAICS level, with seasonally-adjusted aggregates typically computed as sums of seasonally adjusted components. The seasonal adjustment procedure (Census X-12 program) is used without trading-day adjustments because

the reporting periods of the various utilities are not the same. A leap year adjustment is also made where appropriate.

REFERENCES AND RELEASE DATES

References. The annual revision published in November 2003 will be described in an article published in an upcoming *Federal Reserve Bulletin*. A description of the aggregation methods for industrial production and capacity utilization is included in an article in the Federal Reserve Bulletin, vol. 83 (February 1997), pp. 67–92. The Federal Reserve methodology for constructing industry-level measures of capital is detailed in "Capital Stock Estimates for Manufacturing Industries: Methods and Data" by Mike Mohr and Charles Gilbert (1996), which can be obtained at

www.federalreserve.gov/releases/g17/capital_stock_doc-latest.pdf.

Industrial Production—1986 Edition contains a more detailed description of the other methods used to compile the industrial production index, plus a history of its development, a glossary of terms, and a bibliography. The major revisions to the IP indexes and capacity utilization since 1990 have been described in the Federal Reserve Bulletin (April 1990, June 1990, June 1993, March 1994, January 1995, January 1996, February 1997, February 1998, January 1999, March 2000, March 2001, March 2002, April 2003).

Release Schedule

At 9:15 a.m. on

2004: January 16, February 17, March 15, April 16, May 14, June 16, July 15, August 17, September 15, October 15, November 17, and December 14.