FEDERAL RESERVE statistical release



Capacity

G.17 (419)

For release at 9:15 a.m. (EDT) June 16, 2009

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production decreased 1.1 percent in May after having fallen a downward-revised 0.7 percent in April. The average decrease in industrial production during the first three months of the year was 1.6 percent. Manufacturing output moved down 1.0 percent in May with broad-based declines across industries. Outside of

(over)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION: SUMMARY Seasonally adjusted

			2002=	100						Percent	change		
	2008	2009					2008	2009					May '08 to
Industrial production	Dec. ^r	Jan. ^r	Feb. ^r	Mar. ^r	Apr.r	May ^p	Dec. ^r	Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^r	May ^p	May '09
Total index	102.4	100.2	99.4	97.6	96.9	95.8	-2.3	-2.1	8	-1.8	7	-1.1	-13.4
Previous estimates	102.4	100.3	99.3	97.6	97.1		-2.2	-2.1	-1.0	-1.7	5		
Major market groups													
Final Products	106.1	103.5	102.8	101.6	100.9	100.0	6	-2.5	6	-1.2	7	-1.0	-9.8
Consumer goods	100.6	98.7	98.8	98.3	98.1	97.2	-1.4	-1.9	.1	5	2	8	-7.1
Business equipment	120.8	115.8	113.9	110.8	108.7	107.2	2.7	-4.1	-1.6	-2.7	-1.9	-1.4	-16.5
Nonindustrial supplies	96.5	94.7	93.2	91.2	90.4	89.5	-3.3	-1.9	-1.6	-2.2	8	-1.0	-15.8
Construction	89.1	85.9	84.6	82.3	81.0	80.2	-4.9	-3.6	-1.4	-2.8	-1.5	-1.0	-21.5
Materials	101.0	99.1	98.5	96.2	95.6	94.3	-3.6	-1.9	6	-2.3	7	-1.4	-15.9
Major industry groups													
Manufacturing (see note below)	100.6	97.9	97.8	96.0	95.4	94.4	-2.9	-2.7	1	-1.9	6	-1.0	-15.3
Previous estimates	100.7	98.0	97.9	95.8	95.5		-2.9	-2.7	1	-2.1	3		
Mining	103.4	102.9	101.0	99.1	95.9	93.8	-1.9	5	-1.8	-1.9	-3.2	-2.1	-10.5
Utilities	111.3	111.5	106.4	105.3	106.0	104.5	2.0	.2	-4.5	-1.1	.7	-1.4	-3.4

						nt of capa	acity						growth
	Average	1988-	1990-	1994-	2001-								
	1972-	89	91	95	02	2008	2008	2009					May '08 to
Capacity utilization	2008	high	low	high	low	May	Dec.	Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^r	May ^p	May '09
Total industry	80.9	85.1	78.7	84.9	73.5	78.9	72.7	71.2	70.7	69.4	69.0	68.3	.1
Previous estimates							72.8	71.3	70.6	69.4	69.1		
Manufacturing (see note below)	79.6	85.4	77.2	84.5	71.4	76.7	69.0	67.1	67.1	65.9	65.6	65.0	.0
Previous estimates							69.1	67.2	67.2	65.8	65.7		
Mining	87.6	86.5	83.8	89.1	84.9	90.8	89.0	88.5	86.9	85.2	82.5	80.8	.5
Utilities	86.8	92.8	84.2	93.3	84.2	83.7	85.1	85.1	81.1	80.1	80.6	79.3	1.9
Stage-of-process groups													
Crude	86.6	88.3	84.7	89.9	81.7	88.6	82.1	81.6	81.6	79.5	78.6	77.7	.2
Primary and semifinished	82.0	86.5	77.9	87.9	74.3	78.8	71.4	69.7	68.5	67.0	66.7	65.6	2
Finished	77.7	83.0	77.2	80.3	70.0	75.0	70.3	68.5	68.6	68.1	67.6	67.4	.7

r Revised. p Preliminary.

Note. The statistics in this release cover output, capacity, and capacity utilization in the U.S. industrial sector, which is defined by the Federal Reserve to comprise manufacturing, mining, and electric and gas utilities. Mining is defined as all industries in sector 21 of the North American Industry Classification System (NAICS); electric and gas utilities are those in NAICS sectors 2211 and 2212. Manufacturing comprises NAICS manufacturing industries (sector 31-33) plus the logging industry and the newspaper, periodical, book, and directory publishing industries. Logging and publishing are classified elsewhere in NAICS (under agriculture and information respectively), but historically they were considered to be manufacturing and were included in the industrial sector under the Standard Industrial Classification (SIC) system. In December 2002 the Federal Reserve reclassified all its industrial output data from the SIC system to NAICS.

manufacturing, the output of mines dropped 2.1 percent, and the output of utilities fell 1.4 percent. At 95.8 percent of its 2002 average, overall industrial output in May was 13.4 percent below its year-earlier level. The rate of capacity utilization for total industry declined further in May to 68.3 percent, a level 12.6 percentage points below its average for 1972–2008. Prior to the current recession, the low over the history of this series, which begins in 1967, was 70.9 percent in December 1982.

Market Groups

The production of consumer goods fell 0.8 percent in May with declines in both consumer durables and nondurables. The output of consumer durables dropped 2.9 percent; all major categories registered significant declines. The index for automotive products fell 5.2 percent but still remained above its trough in January of this year. The output indexes for the other major categories of consumer durables declined between 1 and 2 percent in May. The production of consumer nondurables moved down 0.4 percent. A decline of 3.1 percent in consumer energy products more than offset a 0.5 percent increase in nondurable non-energy goods. A decrease in gasoline output was the largest contributor to the drop in consumer energy products. Among consumer nondurable non-energy goods, production of foods and tobacco and of chemical products increased, while the output indexes for both clothing and paper products declined slightly.

The output of business equipment dropped 1.4 percent in May and was more than 16 percent below its year-earlier level. The declines in May for information processing equipment and for industrial and other equipment were similar to those in April. The production of information processing equipment decreased 0.4 percent, and the production of industrial and other equipment fell 2.3 percent. The index for transit equipment moved down 0.5 percent in May after having fallen 3.6 percent in April. The production of defense and space equipment increased 0.7 percent in May and was little changed from its year-earlier level.

Among nonindustrial supplies, the output indexes for both business supplies and construction supplies fell 1.0 percent in May. The production of materials declined 1.4 percent. The output of durable materials dropped 2.3 percent, with decreases in all major categories. Lower production of motor vehicle parts was largely responsible for a decline of 5.5 percent in consumer parts. Among non-energy nondurable materials, the indexes for textiles and paper each moved down about 1 percent; the production of chemicals edged up 0.1 percent. The output of energy materials decreased 1.4 percent.

Industry Groups

Manufacturing output fell 1.0 percent in May and was more than 15 percent below its year-earlier level. The factory operating rate decreased 0.6 percentage point to a historical low of 65.0 percent in May; prior to this recession, the low for this series, which begins in 1948, was 68.6 percent in December 1982. The production of durable goods fell 1.8 percent with declines in most categories. The largest decreases were in motor vehicles and parts and in machinery. Gains were recorded in primary metals, aerospace and miscellaneous transportation equipment, and miscellaneous manufacturing. The production of nondurable goods edged down 0.2 percent. Gains in the output of food, beverages, and tobacco products; apparel and leather; and chemicals were offset by declines of more than 1 percent in textile and product mills, paper, and petroleum and coal products. Production in non-NAICS manufacturing, which consists of publishing and logging, decreased 0.6 percent.

The output of electric and gas utilities fell 1.4 percent, and the sector's operating rate dropped 1.3 percentage points to 79.3 percent, a rate 7.5 percentage points below its 1972–2008 average. Mining output moved down 2.1 percent, and the utilization rate fell to 80.8 percent.

Capacity utilization rates in May at industries grouped by stage of process were as follows: At the crude

stage, utilization fell 0.9 percentage point, to 77.7 percent, a rate 8.9 percentage points below its 1972–2008 average; at the primary and semifinished stages, utilization dropped 1.1 percentage points, to 65.6 percent, a rate 16.4 percentage points below its long-run average; and at the finished stage, utilization decreased 0.2 percentage point, to 67.4 percent, a rate 10.3 percentage points below its long-run average.

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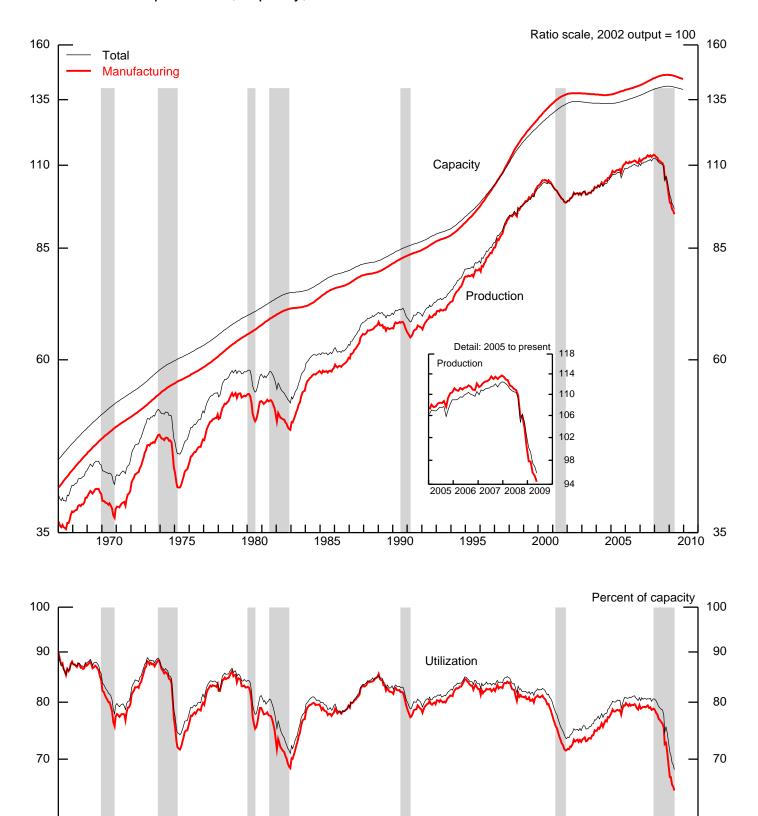
Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

Revision of Industrial Production and Capacity Utilization

The Federal Reserve Board released its annual revision to the index of industrial production (IP) and the related measures of capacity utilization on March 27, 2009. The revision affected the data from January 1972 through February 2009; most of the changes were for the period beginning in 2004 (the index levels for IP, but not the rates of change, may have been changed before 1972 to maintain consistency with the revised indexes for 1972 and after). The revised IP indexes incorporated data from selected editions of the U.S. Census Bureau's 2007 Current Industrial Reports. Detailed data from the 2007 Economic Census, however, were not available. Annual data from the U.S. Geological Survey regarding metallic and nonmetallic minerals (except fuels) for 2007 were incorporated. Utilization rates were updated to incorporate data from the U.S. Census Bureau's Quarterly Survey of Plant Capacity through 2008 as well as data from other government and trade sources.

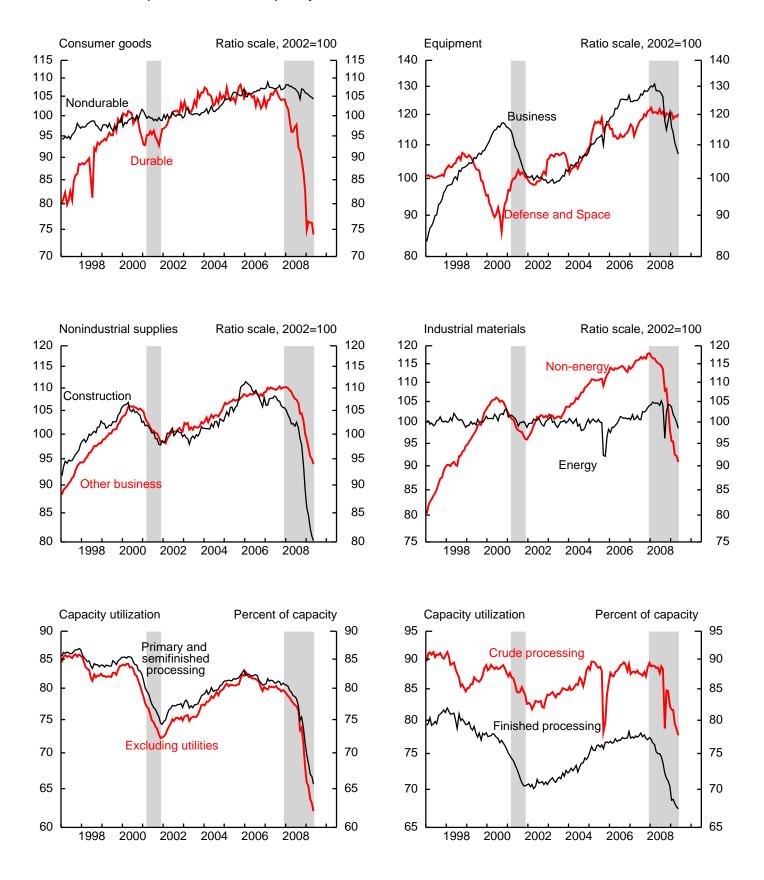
The published revision release and revised data are available on the Board's website at www.federalreserve.gov/releases/G17. The revised data are also available through the website of the Department of Commerce. Further information on the revision can be obtained from the Board's Industrial Output Section (telephone number 202-452-3197).

1. Industrial production, capacity, and utilization



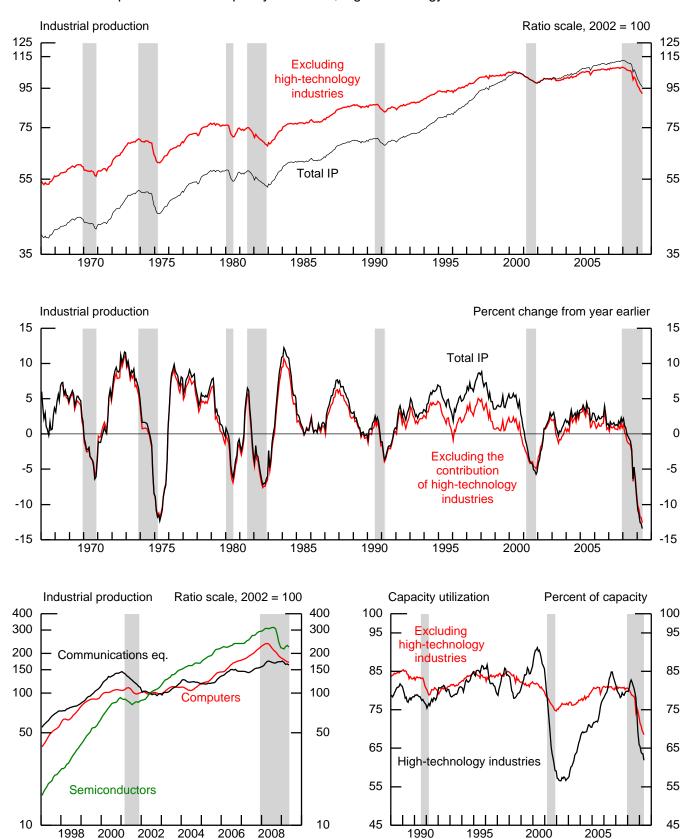
Notes: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER). The last shaded area begins with the peak as defined by the NBER and ends at the trough of a 3 month moving average of manufacturing IP.

2. Industrial production and capacity utilization



Notes: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER). The last shaded area begins with the peak as defined by the NBER and ends at the trough of a 3 month moving average of manufacturing IP.

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. The last shaded area begins with the peak as defined by the NBER and ends at the trough of a 3 month moving average of manufacturing IP.

Table 1
INDUSTRIAL PRODUCTION: MARKET AND INDUSTRY GROUP SUMMARY

Percent change, seasonally adjusted				th quarte irth quar		A	nnual ra	te			Month	ılv rate			May '08
Item		2008 proportion ¹	2006	2007	2008	2008 Q3	Q4 ^r	2009 Q1 ^r	2008 Dec. ^r	2009 Jan. ^r	Feb. ^r	Mar. ^r	Anrī	May ^p	to May '09
Total IP		100.00	1.8	1.8	-6.7	-9.0	-13.0	-19.0	-2.3	-2.1	8	-1.8	Apr. ^r	-1.1	-13.4
Market Groups															
Final products and nonindustrial supplie	es	57.05	1.1	.8	-5.8	-7.8	-10.1	-16.7	-1.3	-2.3	9	-1.4	7	-1.0	-11.4
Consumer goods		29.54	.1	.2	-4.2	-7.3	-3.8	-12.3	-1.4	-1.9	.1	5	2	8	-7.1
Durable		6.32	-3.2	1.1	-17.2	-10.2	-28.8	-39.8	-4.5	-9.3	2.0	2	1	-2.9	-22.9
Automotive products		2.88	-5.2	3.2	-22.4	-9.8	-32.9	-57.1	-5.7	-20.4	9.0	2.6	7	-5.2	-29.0
Home electronics Appliances, furniture, carpeting		.34 .99	8.8	15.3 -5.1	1.6 -20.4	-5.8 -19.2	-15.1 -33.7	2.8 -21.3	-1.5 -2.6	2.5	.2 -1.9	9 -2.1	-1.4 1.5	-1.9 -1.1	-9.3 -20.7
Miscellaneous goods		2.11	-5.6 7	-1.0	-20.4	-19.2	-33.7	-21.3	-2.0	2 -1.0	-3.2	-2.1	1.5	-1.1	-20.7
Nondurable		23.22	1.2	-1.0	4	-6.5	3.8	-4.3	-4.1	-1.0	3	-2.4	2	-1.1	-2.8
Non-energy		17.12	1.6	9	-1.8	-2.2	-4.4	-5.8	-2.2	2	.7	4	5	.5	-3.3
Foods and tobacco		9.39	.0	1.1	-1.2	-3.9	-1.9	-5.8	-2.4	2	1.1	5	1	.7	-2.6
Clothing		.42	-4.8	5	-6.7	5.9	-19.7	-23.8	-1.5	-2.9	-2.3	.0	6	3	-10.6
Chemical products		5.09	5.8	-4.2	-2.2	.7	-6.2	-2.5	-2.2	.7	.5	.6	8	.5	-1.9
Paper products		1.70	.1	-1.8	-4.1	-5.8	-9.5	-10.7	7	-1.9	.7	-2.8	-2.1	3	-10.2
Energy		6.10	1	1.9	3.6	-16.2	28.8	9	3.2	1	-3.1	-1.0	.7	-3.1	-1.9
Business equipment		9.48	7.4	2.3	-8.4	-13.5	-18.1	-13.7	2.7	-4.1	-1.6	-2.7	-1.9	-1.4	-16.5
Transit		1.53	9.2	-1.4	-29.0	-44.2	-45.7	57.7	31.9	-14.0	1.6	.2	-3.6	5	-19.2
Information processing		2.92	10.8	6.6	2.0	-11.9	-8.5	-13.6	6	-1.1	-2.0	-1.5	5	4	-11.2
Industrial and other Defense and space equipment		5.03 1.66	4.8 -1.9	1.1 5.7	-7.4 5	-2.0 -3.3	-14.3 .4	-27.2 -2.1	-2.6 1	-2.7 .5	-2.4 -1.6	-4.3 .6	-2.2	-2.3 .7	-18.8 1
Detense and space equipment		1.00	-1.7	5.7	5	-3.3	.7	-2.1	1	.5	-1.0	.0	.0	• /	1
Construction supplies Business supplies		4.87 10.65	-3.3 .4	-1.0 1.3	-11.6 -6.9	-4.2 -8.1	-26.3 -13.2	-34.1 -18.7	-4.9 -2.6	-3.6 -1.2	-1.4 -1.6	-2.8 -1.9	-1.5 5	-1.0 -1.0	-21.5 -13.2
Materials		42.95	2.7	3.2	-7.9	-10.5	-16.6	-22.0	-3.6	-1.9	6	-2.3	7	-1.4	-15.9
Non-energy		28.99	1.4	3.5	-12.0	-11.0	-27.3	-30.1	-5.5	-2.6	.0	-3.1	4	-1.3	-21.1
Durable		16.83	.4	4.7	-12.0	-5.8	-32.3	-39.8	-5.5	-4.8	-1.8	-3.5	-1.2	-2.3	-26.1
Consumer parts		2.69	-5.7	-2.2	-20.3	-12.8	-38.5	-63.4	-7.4	-16.1	.4	-3.1	7	-5.5	-38.5
Equipment parts		5.93 8.21	6.9 -1.8	10.3 3.2	-6.5 -12.9	-1.9 -6.3	-29.0 -32.7	-29.6 -38.0	-4.3 -5.9	-2.2 -3.2	-1.8 -2.4	-2.3 -4.5	-1.1	-2.1	-20.6 -26.0
Other Nondurable		12.16	3.1	1.8	-12.9	-0.3	-32.7	-38.0	-5.4	-3.2 .4	2.2	-4.5	-1.4	-1.6 1	-26.0
Textile		.50	-11.5	-6.9	-12.0	-4.1	-19.7	-32.3	-6.7	1.1	-5.5	-2.7	.3	9	-14.2
Paper		2.32	1.8	-1.4	-10.8	-9.8	-23.4	-25.4	-5.0	-2.2	2.2	-4.9	-1.0	-1.2	-20.4
Chemical		5.87	6.9	4.3	-15.8	-28.0	-21.1	-10.3	-6.7	2.3	4.0	-3.0	2.0	.1	-14.4
Energy		13.96	5.5	2.5	.2	-9.7	7.3	-5.4	1	6	-1.7	7	-1.2	-1.4	-5.9
INDUSTRY GROUPS															
Manufacturing	21 22	78.99	1.2	1.9	-8.7	-9.3	-18.1	-22.0	-2.9	-2.7	1	-1.9	6	-1.0	-15.3
Manufacturing (NAICS) Durable manufacturing	31–33	75.29 38.10	1.3	2.0	-8.7 -11.1	-9.3 -7.9	-18.4 -26.2	-21.7 -31.3	-3.0 -2.6	-2.7 -5.1	.0 -1.2	-1.8 -2.4	5	-1.0 -1.8	-15.2 -21.1
Wood products	321	1.02	-13.0	-7.5	-20.7	-12.7	-39.5	-31.3	-9.2	-2.9	-1.2	-2.4	9 1.2	-1.8	-21.1
Nonmetallic mineral products	327	2.23	-3.6	-1.2	-10.3	-4.5	-22.0	-37.9	-3.0	-5.6	-1.7	-3.7	1.0	-1.7	-20.9
Primary metal	331	2.49	-4.2	4.3	-26.8	-5.7	-65.0	-62.9	-11.7	-6.4	-4.1	-6.1	9	.8	-43.9
Fabricated metal products	332	5.91	3.3	3.3	-7.0	-6.9	-15.5	-33.4	-3.4	-4.0	-2.6	-4.7	-2.0	-1.9	-21.8
Machinery	333	4.89	2.8	-1.0	-10.6	-7.1	-19.0	-34.4	-4.1	-3.6	-2.1	-6.0	-2.5	-3.4	-24.8
Computer and electronic products	334	6.89	9.3	11.0	-2.6	-5.7	-26.4	-17.9	-2.5	7	-1.5	4	.0	-1.1	-14.9
Electrical equip., appliances, and components	335	2.00	4	3.3	-2.9	-3.7	-11.8	-22.4	-3.4	9	-2.4	-3.4	-1.3	-1.5	-15.1
Motor vehicles and parts	3361–3	4.51	-6.2	-1.9	-23.3	-3.7 -9.9	-37.4	-68.9	-6.8	-25.4	8.6	1.4	-1.3	-7.9	-13.1
Aerospace and miscellaneous	3301 3	1.51	0.2	1.)	20.0	7.7	37.7	55.7	0.0	20.7	0.0	1.7	1.2	1.7	55.1
transportation equipment	3364–9	3.54	5.6	11.1	-12.7	-23.3	-18.0	31.9	13.0	-2.9	-1.2	.0	-1.3	.4	-5.2
Furniture and related products	337	1.33	-1.7	-2.6	-17.8	-14.7	-29.3	-23.5	-2.0	-1.0	-3.3	-1.8	-2.7	2	-21.9
Miscellaneous	339	3.27	3.5	2.9	-2.3	3.1	-7.7	-10.7	-1.7	.1	-2.0	7	.8	.3	-4.2
Nondurable manufacturing		37.20	1.4	.8	-6.3	-10.6	-9.9	-11.4	-3.3	3	1.1	-1.2	1	2	-9.1
Food, beverage, and tobacco products	311,2	11.46	.2	1.9	-1.6	-4.3	-2.6	-5.1	-2.6	.0	1.2	6	.1	.7	-2.5
Textile and product mills	313,4	.89	-11.4	-7.3	-13.8	-6.1	-26.5	-30.7	-5.9	.2	-3.7	-3.1	4	-1.3	-21.4
Apparel and leather	315,6	.57	4	8	-8.2	6.3	-23.3	-24.6	-1.9	-3.1	-1.9	.0	-2.6	.1	-13.2
Paper	322	2.62	.5	-2.1	-10.9	-6.9	-28.6	-21.5	-5.4	-1.5	3.5	-4.8	6	-1.2	-19.4
Printing and support	323	1.80	2.4	-1.5	-9.6	-12.6	-10.1	-26.8	-3.5	-2.4	-3.1	-1.2	-2.6	6	-17.9
Petroleum and coal products Chemical	324 325	4.72 12.06	2.3	.3 .7	.5 -9.8	-17.3 -15.6	12.1 -15.0	-7.6 -7.7	7 -4.4	-2.5 1.3	2.8	.2	2 .5	-3.5 .3	-6.6 -9.4
Plastics and rubber products	325	12.06 3.08	5.1 -3.0	4.5	-9.8 -11.9	-15.6 -5.5	-15.0	-7.7	-4.4	1.3 -1.4	1.8 -2.5	-1.1 -2.9	.5 4	8	-9.4 -18.2
Other manufacturing (non-NAICS)	1133,5111	3.70	-1.2	-1.8	-8.8	-10.0	-12.0	-26.4	-2.2	-3.8	-1.2	-4.1	-2.8	6	-17.9
Mining	21	10.60	8.7	.3	.8	-6.2	3.5	-11.4	-1.9	5	-1.8	-1.9	-3.2	-2.1	-10.5
Utilities	2211,2	10.41	6	3.1	.3	-11.1	12.6	-5.1	2.0	.2	-4.5	-1.1	.7	-1.4	-3.4
Electric	2211	8.65	-1.1	3.5	8	-10.2	9.6	-3.8	2.0	3	-3.4	8	3	-1.0	-3.1
Natural gas	2212	1.76	1.4	1.6	5.9	-15.1	27.7	-11.7	2.3	2.7	-10.3	-2.7	6.6	-3.8	-4.8

r Revised. p Preliminary.

NOTE. Under the 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 a 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

^{1.} The proportion data are estimates of the relative contribution of each series to the growth of total industrial production in the following year. 7

Table 2
INDUSTRIAL PRODUCTION: SPECIAL AGGREGATES AND SELECTED DETAIL
Percent change, seasonally adjusted
Fourth quarter to

Percent change, seasonarry adjusted				rth quart urth qua		A	Annual ra	te			Month	ly rate			May '08
Item		2008 proportion	2006	2007	2008	2008 Q3	Q4 ^r	2009 Q1 ^r	2008 Dec. ^r	2009 Jan. ^r	Feb.r	Mar. ^r	Apr.r	May ^p	to May '09
Total industry		100.00	1.8	1.8	-6.7	-9.0	-13.0	-19.0	-2.3	-2.1	8	-1.8	7	-1.1	-13.4
Energy		23.88	3.9	2.1	1.3	-10.2	11.2	-7.1	.6	5	-2.6	-1.2	6	-2.1	-6.0
Consumer products		6.10	1	1.9	3.6	-16.2	28.8	9	3.2	1	-3.1	-1.0	.7	-3.1	-1.9
Commercial products		3.04	1.2	1.9	.5	-6.3	2.5	-1.7	.4	1.3	-2.7	8	.7	-2.0	-3.6
Oil and gas well drilling	213111	.78	14.9	7	6.9	17.7	-6.7	-72.3	-5.7	-10.6	-15.3	-17.1	-10.0	-5.6	-47.9
Converted fuel Primary energy		4.25 9.71	2.6 6.8	5.7 1.2	-4.4 2.0	-17.8 -6.8	7.5 7.6	-9.8 -3.6	-1.8 .5	1 7	-2.6 -1.4	.3 -1.1	3 -1.7	7 -1.8	-7.8 -5.4
Non-energy		76.12	1.2	1.7	-9.4	-8.6	-20.2	-23.0	-3.3	-2.7	1	-2.0	7	8	-15.9
Selected high-technology industries	2241	4.17	13.1	18.2	-6.9	-10.1	-38.1	-23.3	-4.4	3	-1.7	.0	.6	-1.9	-20.9
Computers and peripheral equipment	3341 3342	1.02 1.32	22.1 12.4	24.2	-11.9 10.4	-33.2 -8.9	-31.6 6.2	-23.6 -3.9	-2.8	-1.7 1.4	-1.7 -2.5	-1.7 -2.9	-1.8 .1	-1.5	-27.4
Communications equipment Semiconductors and related	3342	1.32	12.4	0.0	10.4	-0.9	0.2	-3.9	.0	1.4	-2.3	-2.9	.1	-1.4	-6.2
electronic components	334412-9	1.84	9.8	22.3	-15.0	4.4	-60.9	-37.3	-9.1	-1.0	9	3.8	2.4	-2.7	-27.3
Excluding selected high-technology industries		71.95	.4	.7	-9.5	-8.5	-19.0	-23.0	-3.2	-2.8	1	-2.1	8	8	-15.6
Motor vehicles and parts	3361-3	4.51	-6.2	-1.9	-23.3	-9.9	-37.4	-68.9	-6.8	-25.4	8.6	1.4	-1.2	-7.9	-38.4
Motor vehicles	3361	1.92	-7.6	-1.9	-30.3	-5.7	-49.6	-83.7	-9.3	-41.9	24.6	6.0	-2.1	-11.6	-48.5
Motor vehicle parts	3363	2.30	-4.3	.3	-14.8	-7.3	-25.2	-53.6	-4.5	-15.1	2.1	6	4	-6.0	-29.0
Excluding motor vehicles and parts Consumer goods		67.44 20.65	.9 .8	.9 -1.1	-8.5 -4.2	-8.4 -4.1	-17.6 -8.5	-19.0 -9.3	-3.0 -2.4	-1.5 3	4 .2	-2.3 7	8 4	4 .3	-14.1 -6.2
Business equipment		7.43	6.2	2.3	-8.8	-11.3	-16.3	-5.0	4.4	-3.1	-1.9	-2.7	-1.8	-1.3	-13.4
Construction supplies		4.83	-3.4	-1.0	-11.8	-4.3	-26.6	-34.5	-4.9	-3.7	-1.4	-2.8	-1.6	9	-21.7
Business supplies Materials		7.32 25.51	6 1.4	.4 2.4	-9.8 -11.2	-9.1 -11.6	-17.4 -23.9	-24.6 -26.5	-3.8 -5.3	-2.2 -1.5	-1.1 1	-2.6 -3.5	-1.2 5	5 8	-16.6 -19.2
Measures excluding selected high-technology industries		0.7.02					44.5	10.0							10.1
Total industry		95.83	1.2	1.1	-6.7	-9.0	-11.7	-18.9	-2.2	-2.2	7	-1.9	7	-1.1	-13.1
Manufacturing ¹ Durable		74.82 34.07	.4 4	.9 1.4	-8.9 -11.7	-9.3 -7.6	-16.8 -24.5	-21.9 -32.1	-2.9 -2.4	-2.8 -5.6	.0 -1.1	-2.0 -2.7	7 -1.1	9 -1.8	-15.0 -21.1
Measures excluding motor vehicles and parts															
Total industry		95.49	2.3	2.0	-5.9	-9.0	-11.7	-16.0	-2.1	-1.2	-1.1	-1.9	7	9	-12.2
Manufacturing ¹ Durable		74.48 33.73	1.8 2.5	2.1 4.0	-7.8 -9.3	-9.3 -7.7	-16.9 -24.6	-18.3 -24.8	-2.7 -2.1	-1.5 -2.6	4 -2.0	-2.0 -2.8	6 9	6 -1.1	-13.9 -18.8
Measures excluding selected high-technology industries and motor vehicles and parts															
Total industry		91.32	1.7	1.2	-5.8	-8.9	-10.3	-15.7	-2.0	-1.2	-1.0	-2.0	7	8	-11.8
Manufacturing ¹		70.31	1.0	1.1	-7.8	-9.2	-15.4	-18.0	-2.6	-1.6	3	-2.1	6	6	-13.5
Stage-of-process components of non-energy materials, measures of the input to Finished processors Primary and semifinished processors		11.43 17.56	1.7 1.3	4.0	-11.1 -12.5	-6.2 -13.9	-30.2 -25.3	-38.0 -24.6	-5.2 -5.7	-5.2 9	7 .4	-3.1 -3.2	9 1	-2.5 6	-24.8 -18.6
Timary and seministica processors		17.30	1.3	3.2	-12.3	-13.9	-25.5	-24.0	-3.7)	.4	-5.2	1	0	10.0

Table 3 MOTOR VEHICLE ASSEMBLIES Millions of units, seasonally adjusted annual rate

willions of units, seasonarry adjusted aimuai rate												
	2008	2008			2009	2008	2009					
Item	average	Q2	Q3	Q4	Q1	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Total	8.67	8.76	8.60	7.27	4.58	6.67	3.85	4.82	5.06	4.99	4.33	
Autos	3.78	3.63	4.13	3.34	1.66	2.95	1.32	1.70	1.97	1.90	1.83	
Trucks	4.90	5.12	4.47	3.93	2.91	3.72	2.53	3.11	3.09	3.08	2.50	
Light	4.67	4.89	4.27	3.73	2.76	3.51	2.39	2.94	2.95	2.99	2.36	
Medium and heavy	.22	.24	.21	.20	.15	.21	.14	.17	.14	.10	.13	
Memo												
Autos and light trucks	8.45	8.52	8.39	7.07	4.43	6.46	3.71	4.65	4.91	4.89	4.19	

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. Refer to note on cover page.

 Table 4

 INDUSTRIAL PRODUCTION INDEXES: MARKET AND INDUSTRY GROUP SUMMARY

 2002 = 100, seasonally adjusted

002 = 100, seasonally adjusted											
Item		2008 proportion	2008 Sept.	Oct.	Nov.	Dec.r	2009 Jan. ^r	Feb.r	Mar.r	Apr.r	May ^p
Total IP		100.00	104.8	106.2	104.8	102.4	100.2	99.4	97.6	96.9	95.8
Market Groups											
Final products and nonindustrial supplies		57.05	105.3	105.7	104.8	103.5	101.0	100.2	98.7	98.0	97.0
Consumer goods		29.54	101.4	103.0	102.0	100.6	98.7	98.8	98.3	98.1	97.2
Durable		6.32	91.5	89.5	86.4	82.6	74.9	76.4	76.3	76.2	74.0
Automotive products		2.88	84.2	81.5	79.0	74.5	59.3	64.6	66.3	65.9	62.4
Home electronics		.34	182.2	179.9	176.7	174.1	178.4	178.8	177.1	174.7	171.4
Appliances, furniture, carpeting Miscellaneous goods		.99 2.11	80.1 98.5	78.7 97.1	74.3 94.2	72.3 90.4	72.1 89.5	70.8 86.6	69.3 84.5	70.3 84.6	69.5 83.7
Nondurable		23.22	104.3	107.0	106.7	106.0	105.8	105.5	104.9	104.7	104.3
Non-energy		17.12	105.8	105.9	105.2	102.9	102.7	103.5	103.1	102.5	103.1
Foods and tobacco		9.39	108.4	109.0	108.4	105.7	105.5	106.7	106.1	106.0	106.8
Clothing		.42	66.7	65.4	62.9	62.0	60.2	58.8	58.8	58.5	58.3
Chemical products		5.09	111.5	111.3	110.3	107.8	108.5	109.0	109.7	108.8	109.3
Paper products Energy		1.70 6.10	91.9 101.0	90.5 110.5	90.6 111.4	90.0 114.9	88.2 114.8	88.9 111.2	86.4 110.1	84.6 110.8	84.3 107.3
Business equipment Transit		9.48 1.53	117.7 74.9	114.8 64.8	117.6 86.0	120.8 113.4	115.8 97.6	113.9 99.1	110.8 99.3	108.7 95.7	107.2 95.2
Information processing		2.92	160.1	159.7	158.1	157.1	155.4	152.3	150.1	149.3	148.7
Industrial and other		5.03	110.7	109.1	107.8	105.0	102.2	99.8	95.4	93.4	91.2
Defense and space equipment		1.66	118.9	120.4	120.0	119.9	120.5	118.6	119.3	119.3	120.1
Construction supplies		4.87	99.1	97.8	93.6	89.1	85.9	84.6	82.3	81.0	80.2
Business supplies		10.65	104.3	104.3	102.8	100.1	98.9	97.3	95.4	94.9	94.0
Materials		42.95	104.3	106.9	104.7	101.0	99.1	98.5	96.2	95.6	94.3
Non-energy		28.99	104.3	108.2	104.7	98.0	95.5	95.5	92.5	92.1	90.9
Durable		16.83	118.9	115.3	110.1	104.0	99.0	97.3	93.9	92.7	90.6
Consumer parts		2.69	80.6	77.5	74.0	68.5	57.5	57.7	55.9	55.5	52.5
Equipment parts		5.93	172.7	166.9	159.2	152.5	149.1	146.4	143.0	141.3	138.4
Other		8.21 12.16	103.7	100.9	96.5 94.1	90.8 88.9	87.9 89.3	85.9 91.3	82.0 88.8	80.9 89.4	79.6 89.2
Nondurable Textile		.50	92.6 70.2	97.7 69.4	66.0	61.6	62.3	58.9	57.6	57.8	57.2
Paper		2.32	92.1	91.5	87.6	83.2	81.4	83.2	79.1	78.4	77.5
Chemical		5.87	91.5	103.6	98.2	91.5	93.7	97.4	94.4	96.3	96.4
Energy		13.96	96.2	102.3	104.3	104.2	103.6	101.8	101.1	99.9	98.4
INDUSTRY GROUPS											
Manufacturing		78.99	105.7	106.0	103.6	100.6	97.9	97.8	96.0	95.4	94.4
Manufacturing (NAICS)	31–33	75.29	106.7	107.2	104.7	101.6	98.8	98.8	97.1	96.6	95.6
Durable manufacturing	221	38.10	113.7	110.8	108.2	105.3	100.0	98.8	96.5	95.6	93.8
Wood products	321 327	1.02 2.23	82.8 99.1	79.0 99.3	76.8 94.3	69.7	67.7 86.4	67.1 84.9	65.1 81.8	65.9	65.1 81.2
Nonmetallic mineral products Primary metal	331	2.23	102.0	99.3	94.3 81.4	91.5 71.9	67.3	64.5	60.6	82.6 60.0	60.5
Fabricated metal products	332	5.91	109.2	107.3	106.0	102.4	98.2	95.7	91.1	89.3	87.6
Machinery	333	4.89	107.3	106.1	104.0	99.7	96.1	94.2	88.6	86.4	83.5
Computer and electronic products	334	6.89	194.2	188.4	180.7	176.2	175.0	172.4	171.7	171.6	169.7
Electrical equip., appliances,	005	2.00	102 4	100.7	100.7	00.1	00.2	05.0	00.5	01.0	00.0
and components Motor vehicles and parts	335 3361–3	2.00 4.51	103.4 79.9	103.5 76.9	102.7 74.2	99.1 69.2	98.2 51.6	95.8 56.1	92.6 56.8	91.3 56.2	90.0 51.7
Aerospace and miscellaneous	3301-3	4.31	19.9	70.9	14.2	09.2	31.0	30.1	30.8	30.2	31./
transportation equipment	3364–9	3.54	103.2	99.8	109.0	123.2	119.6	118.1	118.1	116.5	116.9
Furniture and related products	337	1.33	87.9	85.2	81.6	79.9	79.1	76.5	75.1	73.1	72.9
Miscellaneous	339	3.27	118.2	117.5	116.4	114.5	114.6	112.4	111.6	112.5	112.8
Nondurable manufacturing		37.20	99.3	102.7	100.3	97.0	96.7	97.7	96.6	96.5	96.3
Food, beverage, and tobacco products	311,2	11.46	108.8	109.4	108.8	106.0	106.1	107.3	106.7	106.8	107.5
Textile and product mills	313,4	.89	71.9	71.2	67.7	63.6	63.8	61.4	59.5	59.3	58.5
Apparel and leather	315,6	.57	76.7	74.6	71.6	70.3	68.1	66.8	66.8	65.1	65.2
Paper Printing and support	322	2.62	91.3	89.7	85.9	81.3	80.1	82.9	78.9	78.4	77.5
Printing and support Petroleum and coal products	323 324	1.80 4.72	92.3 98.7	91.9 112.0	90.6 109.2	87.4 108.4	85.3 105.7	82.7 108.7	81.7 108.8	79.5 108.6	79.1 104.8
Chemical	324	12.06	101.0	106.7	109.2	98.7	100.0	103.7	100.7	101.2	104.8
Plastics and rubber products	326	3.08	97.7	96.0	93.7	89.4	88.2	86.0	83.5	83.1	82.5
Other manufacturing (non-NAICS)	1133,5111	3.70	88.1	86.9	86.4	84.6	81.4	80.4	77.1	75.0	74.5
Mining	21	10.60	96.4	103.5	105.4	103.4	102.9	101.0	99.1	95.9	93.8
Utilities	2211,2	10.41	105.7	107.1	109.1	111.3	111.5	106.4	105.3	106.0	104.5
		_									
Electric Natural gas	2211 2212	8.65 1.76	108.0 95.2	108.5 100.2	110.5 102.1	112.7 104.5	112.3 107.4	108.5 96.4	107.7 93.8	107.3 99.9	106.3 96.1

r Revised. p Preliminary. NOTE. Refer to notes on table 1.

 Table 5

 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

 2002 = 100, seasonally adjusted

002 = 100, seasonally adjusted		2000	2000				2009				
Item		2008 proportion	2008 Sept.	Oct.	Nov.	Dec.r	Jan. ^r	Feb.r	Mar.r	Apr.r	May ^p
		T of									
Total industry		100.00	104.8	106.2	104.8	102.4	100.2	99.4	97.6	96.9	95.8
Energy		23.88	100.8	107.1	108.6	109.2	108.7	105.8	104.5	103.9	101.7
Consumer products		6.10	101.0	110.5	111.4	114.9	114.8	111.2	110.1	110.8	107.3
Commercial products		3.04	112.8	114.9	115.2	115.6	117.1	114.0	113.1	113.9	111.6
Oil and gas well drilling	213111	.78	189.0	186.4	183.2	172.7	154.4	130.7	108.3	97.5	92.1
Converted fuel		4.25	100.7	104.3	105.7	103.8	103.7	100.9	101.3	100.9	100.2
Primary energy		9.71	94.1	101.1	103.4	104.0	103.2	101.8	100.6	99.0	97.2
Non-energy		76.12	105.9	105.4	103.0	99.6	96.9	96.8	94.8	94.2	93.4
Selected high-technology industries		4.17	240.0	228.4	214.3	204.9	204.4	200.9	200.8	201.9	198.1
Computers and peripheral equipment	3341	1.02	205.0	198.9	190.9	185.5	182.4	179.3	176.2	173.1	170.5
Communications equipment	3342	1.32	169.0	171.4	172.6	172.5	174.9	170.6	165.7	165.8	163.6
Semiconductors and related	22.2	1.02	107.0	1/111	17210	17210	17 117	17010	10017	100.0	10010
electronic components	334412-9	1.84	307.8	277.3	242.6	220.5	218.2	216.3	224.5	229.8	223.7
Excluding selected high-technology											
industries		71.95	99.9	99.7	97.7	94.5	91.8	91.8	89.9	89.2	88.5
Motor vehicles and parts	3361-3	4.51	79.9	76.9	74.2	69.2	51.6	56.1	56.8	56.2	51.7
Motor vehicles	3361	1.92	76.2	71.6	68.0	61.7	35.8	44.7	47.4	46.4	41.0
Motor vehicle parts	3363	2.30	84.1	82.5	80.4	76.8	65.2	66.5	66.1	65.8	61.9
Excluding motor vehicles and parts		67.44	101.6	101.7	99.7	96.7	95.2	94.8	92.7	92.0	91.6
Consumer goods		20.65	103.3	103.1	101.8	99.3	99.1	99.3	98.6	98.1	98.4
Business equipment		7.43	107.5	104.7	108.6	113.3	109.8	107.8	104.9	102.9	101.6
Construction supplies		4.83	98.6	97.3	93.2	88.6	85.3	84.1	81.7	80.4	79.7
Business supplies		7.32	96.7	96.2	94.3	90.8	88.7	87.8	85.5	84.5	84.1
Materials		25.51	100.1	101.4	97.7	92.6	91.2	91.1	87.9	87.4	86.7
Measures excluding selected high-technology											
industries											
Total industry		95.83	100.2	101.7	100.6	98.4	96.2	95.5	93.7	93.0	92.0
Manufacturing ¹		74.82	99.9	100.5	98.5	95.6	92.9	92.9	91.1	90.5	89.7
Durable		34.07	101.9	99.6	97.8	95.4	90.0	89.1	86.7	85.7	84.2
Measures excluding motor vehicles and parts											
Total industry		95.49	106.4	108.0	106.7	104.4	103.2	102.1	100.2	99.5	98.6
Manufacturing ¹		74.48	107.8	108.4	106.1	103.2	101.6	101.2	99.2	98.6	97.9
Durable		33.73	120.1	117.3	114.7	112.3	109.3	107.1	104.1	103.2	102.0
Measures excluding selected high-technology											
industries and motor vehicles and parts		04.55	10: :	10	102.2	100	0-0		0 - 0	0	
Total industry		91.32	101.4	103.3	102.2	100.2	99.0	97.9	96.0	95.3	94.5
Manufacturing ¹		70.31	101.5	102.4	100.4	97.8	96.3	95.9	93.9	93.3	92.7
Stage-of-process components of non-energy											
materials, measures of the input to											
Finished processors		11.43	120.5	117.1	111.8	106.0	100.5	99.8	96.8	95.9	93.5
Primary and semifinished processors		17.56	99.1	101.7	97.7	92.1	91.3	91.6	88.7	88.7	88.2
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Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2007	44.9	57.7	54.5	59.9	45.8	58.3	51.9	45.5	58.3	45.5	58.0	53.8
2008	43.9	42.0	46.2	42.3	50.3	50.6	46.2	41.3	29.5	39.7	28.8	20.2
2009	31.7	40.7	30.8	38.9								
Three months earlier												
2007	50.0	55.6	52.1	63.1	58.7	56.7	54.8	52.9	54.5	44.6	56.1	51.9
2008	49.4	40.7	37.5	40.1	44.2	41.0	43.6	38.1	26.6	30.1	23.1	22.4
2009	16.0	19.6	28.5	36.5								
Six months earlier												
2007	43.3	46.9	49.5	56.3	58.2	53.1	59.9	54.5	53.8	47.1	52.2	56.4
2008	46.5	47.4	47.1	44.9	39.1	34.6	36.9	38.5	25.0	25.3	25.6	16.7
2009	15.7	16.0	19.6	17.9								

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. Refer to note on cover page.

Table 7 CAPACITY UTILIZATION

v .		2000	1972-	1994-	2001-	2000		2000	2000	2000				
Item		2008	2008	95	02	2008	0.45	2009	2008	2009		3.6 F		
		proportion	ave.	high	low	Q3	Q4 ^r	Q1 ^r	Dec. ^r	Jan. ^r	Feb. ^r	Mar. ^r	Apr. ^r	May
Total industry		100.00	80.9	84.9	73.5	76.9	74.2	70.4	72.7	71.2	70.7	69.4	69.0	68.3
Manufacturing ¹		79.68	79.6	84.5	71.4	74.6	70.9	66.7	69.0	67.1	67.1	65.9	65.6	65.0
Manufacturing (NAICS)	31–33	76.08	79.4	84.6	70.9	74.6	70.9	66.7	68.9	67.1	67.1	66.0	65.7	65.
Durable manufacturing		39.36	77.8	83.7	67.8	72.6	67.1	61.1	65.4	62.0	61.3	59.9	59.4	58
Wood products	321	1.27	79.2	87.5	70.4	61.8	54.8	48.9	50.9	49.6	49.2	47.9	48.6	48.
Nonmetallic mineral products	327	2.42	77.7	82.5	70.4	67.0	63.0	56.1	60.7	57.4	56.4	54.4	55.0	54.
Primary metal	331	2.69	80.5	94.7	68.0	79.9	61.4	47.9	53.7	50.3	48.2	45.3	44.9	45
Fabricated metal products	332	5.61	77.5	85.5	69.4	77.2	74.1	67.1	72.1	69.3	67.6	64.5	63.3	62
Machinery	333	4.80	78.6	87.9	62.8	74.2	70.3	63.3	67.9	65.4	64.2	60.4	59.0	57
Computer and electronic products	334	7.11	78.3	84.4	58.8	75.6	69.4	65.3	67.0	66.3	65.0	64.5	64.2	63
Electrical equip., appliances,														
and components	335	1.83	83.2	93.1	72.1	81.2	78.4	73.5	76.3	75.6	73.7	71.3	70.4	69
Motor vehicles and parts	3361–3	5.52	76.7	88.7	69.2	60.2	53.6	40.2	50.5	37.8	41.1	41.8	41.4	38
Aerospace and miscellaneous														
transportation equipment	3364-9	3.32	73.2	68.6	64.4	75.9	72.0	77.0	80.1	77.7	76.7	76.7	75.7	75
Furniture and related products	337	1.39	78.4	83.1	68.3	70.4	65.1	61.6	63.5	63.1	61.3	60.4	59.0	59
Miscellaneous	339	3.40	76.5	81.3	71.0	71.4	69.4	67.2	68.3	68.3	66.9	66.4	66.9	67
Non-demoklo monufecturino		26.72	81.5	05 7	75.0	76.8	74.0	72.8	72.6	72.4	73.3	72.5	72.6	70
Nondurable manufacturing	211.2	36.72		85.7	75.0		74.8		72.6	72.4		72.5		72
Food, beverage, and tobacco products	311,2	10.86	81.5	85.0	75.6	77.8	77.1	76.1	75.6	75.6	76.5	76.1	76.2	76
Textile and product mills	313,4	.96	81.6	91.7	68.7	68.9	64.7	60.0	61.3	61.8	59.8	58.3	58.4	57
Apparel and leather	315,6	.56	79.5	88.1	63.6	76.7	72.2	67.9	70.5	68.5	67.4	67.7	66.2	66
Paper	322	2.41	87.6	92.7	78.8	80.6	74.4	70.3	70.7	69.7	72.2	68.9	68.5	67
Printing and support	323	1.79	83.4	87.0	72.7	73.9	72.7	68.2	71.0	69.6	67.8	67.3	65.9	65
Petroleum and coal products	324	5.00	86.1	91.1	86.0	83.6	85.7	83.9	84.5	82.4	84.6	84.8	84.6	81
Chemical Plastics and rubber products	325 326	12.17 2.97	78.2 83.6	81.1 92.2	69.5 74.6	73.0	70.0 72.7	68.8 67.3	67.2 69.9	68.1 69.0	69.4 67.4	68.7 65.6	69.2 65.5	65
*														
Other manufacturing (non-NAICS)	1133,5111	3.61	84.2	83.0	79.8	74.9	72.5	67.2	71.3	68.7	67.8	65.1	63.4	63
Mining	21	11.14	87.6	89.1	84.9	89.1	89.6	86.9	89.0	88.5	86.9	85.2	82.5	80
Utilities	2211,2	9.17	86.8	93.3	84.2	81.5	83.6	82.1	85.1	85.1	81.1	80.1	80.6	79
Selected high-technology industries		4.24	78.2	86.5	56.5	79.3	69.8	64.4	66.0	65.5	64.0	63.6	63.5	61
Computers and peripheral equipment	3341	.98	78.1	87.3	66.8	80.3	74.1	69.6	72.0	70.8	69.6	68.2	66.8	65
Communications equipment	3342	1.33	76.2	82.9	41.6	75.2	74.3	71.9	73.9	74.3	72.0	69.5	69.1	67
Semiconductors and related														- /
electronic components	334412-9	1.92	80.6	91.7	58.0	82.0	64.5	56.6	57.4	56.5	55.7	57.4	58.4	56
Measures excluding selected nigh-technology industries														
Fotal industry		95.76	81.0	84.9	74.7	76.8	74.4	70.7	73.0	71.4	70.9	69.7	69.2	68
Manufacturing ¹		75.44	79.7	84.4	72.7	74.4	71.0	66.9	69.1	67.2	67.3	66.0	65.7	65
-														
STAGE-OF-PROCESS GROUPS					0.5									
Crude		15.83	86.6	89.9	81.7	85.2	83.8	80.9	82.1	81.6	81.6	79.5	78.6	77
Drimary and comifinished		16.62	22 A	V7 0	7/12	760	72 /	60 /	71.4	60.7	68 5	67.0	667	65

Primary and semifinished Finished

46.62 37.55

82.0 77.7

87.9 80.3

74.3 70.0

76.8 73.5

73.4 71.0

68.4 68.4

71.4 70.3

69.7 68.5

68.5 68.6

67.0 68.1

66.7 67.6

65.6 67.4

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1. Refer to note on cover page.

Table 8 INDUSTRIAL CAPACITY

Percent change

		Avorogo or	nnual rate		Fourth	quarter to	o fourth o	mortor		Annua	al roto		Monthly rate
Item	1972-	1980-	1989-	1995-	1 Ourui	quarter to	J Iourtii C	quarter	2008	Allilua	2009		2009
nem	79	88	94	2009	2006	2007	2008	2009	Q3	Q4	Q1	Q2	May
Total industry	3.1	1.9	2.3	2.7	1.5	2.0	1.1	9	1.0	.4	2	8	1
Manufacturing ¹	3.3	2.2	2.5	3.1	1.4	2.2	1.3	-1.2	1.1	.4	4	-1.1	1
Mining Utilities	.7 4.2	.0 2.2	8 1.8	3 2.2	2.3 1.3	1.4 1.3	1.1 2.3	7 1.8	1.3 2.2	1.0 1.9	.3 1.8	5 1.7	1 .1
Selected high-technology industries	19.8	17.3	15.6	22.3	5.7	22.9	6.3	8.4	3.0	3.6	5.8	8.4	.7
Manufacturing ¹ ex. selected high-technology industries	2.6	1.3	1.6	1.4	1.1	1.0	1.0	-1.6	1.0	.2	7	-1.6	2
STAGE-OF-PROCESS GROUPS Crude	1.7	.3	4	.0	1.5	1.4	1.2	-1.2	1.3	.7	2	-1.1	1
Primary and semifinished Finished	3.0 3.9	1.4 3.3	2.5 2.7	3.2 3.0	1.3 1.8	2.0	.8 2.2	-1.0 6	.6 2.0	.0 1.2	5 .2	9 5	1 1
					1								I

^{1.} Refer to note on cover page.

Table 9
GROSS VALUE OF FINAL PRODUCTS AND NONINDUSTRIAL SUPPLIES
Billions of 2000 dollars at annual rate, seasonally adjusted

illions of 2000 dollars at annual rate, seas	I adjusted	I	2008		2009	2008	2009				
Item	2000	2008	Q3	Q4 ^r	Q1 ^r	Dec. ^r	Jan. ^r	Feb.r	Mar.r	Apr.r	May
Final products and nonindustrial											
supplies	2,815.3	2,946.7	2,916.4	2,851.1	2,718.1	2,820.5	2,735.4	2,725.8	2,693.1	2,677.7	2,638.5
Final products	2,106.9	2,238.6	2,208.2	2,178.9	2,086.7	2,170.3	2,093.7	2,093.2	2,073.3	2,060.1	2,027.7
Consumer goods	1,475.5	1,559.7	1,536.0	1,532.3	1,473.2	1,514.7	1,468.9	1,477.6	1,473.0	1,471.3	1,446.9
Durable	472.7	445.6	443.4	403.0	342.6	384.2	332.6	346.4	348.9	348.4	335.2
Automotive products	278.7	258.1	255.7	228.7	179.0	216.3	165.0	182.9	189.0	187.8	176.5
Other durable goods	194.0	187.5	187.7	174.1	163.3	167.8	167.0	163.2	159.6	160.3	158.4
Nondurable	1,002.9	1,097.3	1,077.6	1,102.2	1,092.0	1,099.6	1,095.5	1,093.3	1,087.1	1,086.0	1,073.8
Equipment, total	631.4	689.7	684.0	651.6	617.1	664.4	631.0	619.1	601.2	587.8	580.0
Business and defense	615.0	671.4	664.3	632.5	607.0	647.4	617.0	609.1	594.9	582.9	576.1
Business	560.4	599.1	592.3	559.2	533.0	574.8	542.6	535.9	520.4	507.8	500.2
Defense and space	54.5	72.5	72.1	72.2	71.9	72.0	72.5	71.4	71.9	72.0	72.4
Nonindustrial supplies	708.4	709.6	709.1	675.0	635.0	654.5	644.6	636.3	624.0	621.6	614.6
Construction supplies	211.8	202.9	205.0	188.6	169.1	179.6	172.3	169.8	165.3	163.2	161.8
Business supplies	496.5	507.3	504.5	487.4	467.5	476.0	473.9	468.1	460.5	460.3	454.5
Commercial energy products	135.7	156.7	155.0	155.1	154.4	154.9	157.0	153.6	152.5	154.3	150.3

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

	Fou	rth quarte	er to										
	fo	urth quar	ter		Annual r	ate			Month	nly rate			May '08
2008				2008		2009	2008	2009					to
gross value1	2006	2007	2008	Q3	Q4 ^r	Q1 ^r	Dec.r	Jan. ^r	Feb.r	Mar.r	Apr.r	May ^p	May '09
1926.7	2.2	1.0	-7.6	-6.8	-14.6	-20.3	-1.4	-4.5	.5	-1.0	9	9	-12.8
1668.3	-1.5	2.1	-7.7	-6.2	-17.2	-26.4	-2.9	-3.0	-1.8	-2.2	9	-1.3	-16.5
960.3	3	2.2	-7.2	-16.4	-8.0	-16.4	-2.7	8	3	-1.9	.6	-2.4	-13.3
417.8	7.8	2.0	-7.9	-15.9	-13.0	-10.3	-4.3	.4	1.6	-2.3	4	7	-12.4
	gross value ¹ 1926.7 1668.3 960.3	2008 gross value ¹ 2006 1926.7 2.2 1668.3 -1.5 960.33	2008 gross value ¹ 2006 2007 1926.7 2.2 1.0 1668.3 -1.5 2.1 960.33 2.2	2008 gross value 2006 2007 2008	2008 2006 2007 2008 Q3	2008 gross value ¹ 2006 2007 2008 Q3 Q4 ^r	2008 2008 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009	2008 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009	2008 1926.7 2.2 1.0 -7.6 -6.8 -14.6 -20.3 -1.5 2.1 -7.7 -6.2 -17.2 -26.4 -2.9 -3.0 960.3 -3.3 2.2 -7.2 -16.4 -8.0 -16.4 -2.7 -8	Tourth quarter Annual rate Month	The fourth quarter Annual rate Monthly rate 2008 2008 2009 2009 2008 2009 2008 2009 2008 2009 2008 2009 2009 2008 2009 2009 2009 2008 2009 2009 2009	2008 2008 2009 2009 2008 2009 2008 2009 2008 2009 2008 2009 2009 2009 2008 2009	The image of the

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^{1.} Billions of 2000 dollars.

Table 11 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Total Industry

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ¹																	
1987	3	1.3	.1	.6	.7	.5	.6	.7	.3	1.5	.5	.5	5.5	7.0	7.3	10.2	5.2
1988	.0	.4	.2	.5	1	.2	.2	.5	3	.5	.2	.4	3.6	3.6	2.1	2.9	5.2
1989	.2	4	.3	.0	7	.0	9	.9	3	1	.3	.6	1.6	-1.7	-2.4	1.8	.9
1990	5	.9	.5	1	.2	.3	1	.2	.2	7	-1.2	7	3.1	2.8	1.2	-6.1	1.0
1991	5	6	5	.2	1.0	1.0	.0	.1	.9	2	1	4	-7.4	2.6	5.5	.9	-1.6
1992	6	.8	.8	.7	.4	.0	.8	5	.2	.7	.4	.0	5	7.2	2.9	4.0	2.8
1993	.5	.3	.0	.3	4	.2	.4	.0	.4	.7	.4	.5	3.6	.9	2.1	6.0	3.3
1994 1995	.4	.0 .0	1.1	.5 .0	.6 .2	.7 .3	.2	.5	.2 .4	.9	.6	1.1	5.2 5.1	7.5 1.2	5.1 3.9	8.1	5.3
1996	7	1.7	.2 2	.8	.6	.9	4 1	1.4	.6	2 .0	.3	.6	2.9	8.1	5.4	3.4 5.6	4.8
1997 1998	.1 .5	1.2	.8 .1	.0 .4	.7 .7	.5 6	.5 4	1.4 2.1	.9 3	.7 .7	.9 1	.4 .3	7.9 4.4	6.4 3.2	9.6 2.9	10.4 5.1	7.3 5.9
1999	.5	.4	.2	.2	.7	2	.6	.5	3	1.4	.6	.8	4.4	3.7	4.1	8.1	4.3
2000	.0	.4	.4	.6	.2	.1	2	2	.5	4	.0	4	4.8	4.9	3	-1.2	4.2
2001	7	6	3	3	7	6	4	4	3	6	5	.0	-5.7	-5.3	-5.7	-5.0	-3.4
2002	.5	.0	.8	.3	.5	.9	3	.1	.1	3	.4	5	2.5	5.9	2.1	4	1
2003	.7	.3	1	8	.0	.1	.4	1	.6	.1	.9	1	2.9	-3.0	2.6	4.1	1.3
2004	.3	.5	6	.5	.7	9	.7	.2	.0	.9	.2	.7	2.8	1.8	1.9	5.7	2.5
2005	.4	.6	1	.0	.3	.4	1	.2	-1.7	1.1	1.1	.6	5.7	1.7	7	4.0	3.3
2006	.0	.0	.2	.4	1	.4	.2	.2	3	1	2	.8	3.6	2.2	2.0	6	2.3
2007	5	.8	2	.4	.1	.0	.3	.1	.4	5	.6	.3	1.8	2.4	2.1	.8	1.5
2008	1	3	4	6	3	2	1	-1.1	-4.0	1.3	-1.3	-2.3	.2	-4.6	-9.0	-13.0	-2.2
2009	-2.1	8	-1.8	7	-1.1								-19.0				
IP (2002=100)																	
2007	109.9	110.8	110.6	111.1	111.1	111.2	111.5	111.6	112.0	111.4	112.1	112.4	110.5	111.1	111.7	112.0	111.3
2008	112.3	112.0	111.6	111.0	110.7	110.4	110.4	109.2	104.8	106.2	104.8	102.4	112.0	110.7	108.1	104.4	108.8
2009	100.2	99.4	97.6	96.9	95.8								99.1				
Capacity																	
(percent of																	
2002 output)																	
2007	136.9	137.1	137.3	137.6	137.8	138.0	138.3	138.5	138.7	139.0	139.2	139.4	137.1	137.8	138.5	139.2	138.1
2008	139.6	139.8	139.9	140.1	140.2	140.4	140.5	140.6	140.7	140.7	140.7	140.7	139.8	140.2	140.6	140.7	140.3
2009	140.7	140.7	140.6	140.5	140.4								140.7				
Utilization																	
(percent)	70.0	70.0	70.0	00.2	00.6	00.0	01.2	01.6	01.7	02.0	02.1	02.4	70.6	00.5	01.7	02.1	01.2
1987	79.0	79.9	79.9	80.2	80.6	80.8	81.2	81.6	81.7	82.8	83.1	83.4	79.6	80.5	81.5	83.1	81.2
1988 1989	83.4 85.1	83.6 84.6	83.8 84.7	84.2 84.6	84.1 83.8	84.2 83.7	84.3 82.8	84.7 83.3	84.3 83.0	84.7 82.7	84.8 82.8	85.0 83.1	83.6 84.8	84.2 84.0	84.4 83.0	84.8 82.9	84.3 83.7
1990	82.5	83.1	83.3	83.0	83.0	83.1	82.8	82.9	82.9	82.2	81.0	80.3	83.0	83.1	82.9	81.2	82.5
1991	79.9	79.2	78.7	78.8	79.5	80.1	80.0	80.0	80.6	80.4	80.2	79.8	79.3	79.5	80.2	80.1	79.8
1992	79.1	79.6	80.1	80.5	80.6	80.5	81.0	80.4	80.5	80.9	81.1	80.9	79.6	80.6	80.6	81.0	80.4
1993	81.2	81.4	81.3	81.4	81.0	81.1	81.3	81.2	81.4	81.9	82.1	82.3	81.3	81.2	81.3	82.1	81.5
1994	82.5	82.3	83.0	83.2	83.4	83.7	83.6	83.7	83.6	84.1	84.3	84.9	82.6	83.4	83.6	84.4	83.5
1995	84.9	84.6	84.4	84.1	84.0	83.9	83.3	84.2	84.2	83.7	83.6	83.6	84.6	84.0	83.9	83.6	84.0
1996	82.6	83.6	83.1	83.4	83.5	83.9	83.4	83.5	83.6	83.2	83.5	83.7	83.1	83.6	83.5	83.5	83.4
	1	83.9	84.2	83.8	83.9	83.8	83.8	84.4	84.7	84.7	85.0	84.7	83.8	83.8	84.3	84.8	84.2
1997	83.3				83.6	82.6	81.8	83.1	82.4	82.6	82.1	82.0	84.1	83.2	82.4	82.2	83.0
1997 1998	83.3 84.6		83.6	0.17				81.9	81.3	82.1	82.2	82.6	82.0	81.8	81.6	82.3	81.9
1997 1998 1999	83.3 84.6 82.1	84.1 82.1	83.6 81.9	83.5 81.7	82.0	81.5	81.8					80.1	82.4				81.7
1998	84.6	84.1			82.0	81.5 82.3			81.5	80.9	80.7	00.1	02.4	82.5	81.6	80.6	
1998 1999	84.6 82.1	84.1 82.1	81.9	81.7			81.8 75.7	81.4 75.2	81.5 74.7	80.9 74.1	80.7 73.6	73.5	78.7	76.9	81.6 75.2	80.6 73.7	76.1
1998 1999 2000	84.6 82.1 82.3	84.1 82.1 82.4	81.9 82.4	81.7 82.6	82.0 82.5	82.3	81.8	81.4									
1998 1999 2000 2001	84.6 82.1 82.3 79.3	84.1 82.1 82.4 78.6	81.9 82.4 78.1	81.7 82.6 77.7	82.0 82.5 76.9	82.3 76.2 75.2 75.3	81.8 75.7	81.4 75.2	74.7 75.0 76.0	74.1	73.6	73.5	78.7	76.9	75.2	73.7	76.1
1998 1999 2000 2001 2002 2003 2004	84.6 82.1 82.3 79.3 73.7 75.5 77.0	84.1 82.1 82.4 78.6 73.6 75.8 77.4	81.9 82.4 78.1 74.1 75.7 76.9	81.7 82.6 77.7 74.2 75.1 77.3	82.0 82.5 76.9 74.5 75.2 77.9	82.3 76.2 75.2 75.3 77.2	81.8 75.7 74.9 75.6 77.7	81.4 75.2 75.0 75.6 77.9	74.7 75.0 76.0 77.9	74.1 74.9 76.1 78.7	73.6 75.2 76.8 78.8	73.5 74.9 76.7 79.4	78.7 73.8 75.6 77.1	76.9 74.7 75.2 77.5	75.2 75.0 75.7 77.9	73.7 75.0 76.5 79.0	76.1 74.6 75.8 77.9
1998 1999 2000 2001 2002 2003 2004 2005	84.6 82.1 82.3 79.3 73.7 75.5 77.0	84.1 82.1 82.4 78.6 73.6 75.8 77.4 80.2	81.9 82.4 78.1 74.1 75.7 76.9 80.1	81.7 82.6 77.7 74.2 75.1 77.3 80.0	82.0 82.5 76.9 74.5 75.2 77.9 80.2	82.3 76.2 75.2 75.3 77.2 80.4	81.8 75.7 74.9 75.6 77.7 80.3	81.4 75.2 75.0 75.6 77.9 80.4	74.7 75.0 76.0 77.9 78.9	74.1 74.9 76.1 78.7 79.7	73.6 75.2 76.8 78.8 80.5	73.5 74.9 76.7 79.4 80.9	78.7 73.8 75.6 77.1 80.0	76.9 74.7 75.2 77.5 80.2	75.2 75.0 75.7 77.9 79.9	73.7 75.0 76.5 79.0 80.4	76.1 74.6 75.8 77.9 80.1
1998 1999 2000 2001 2002 2003 2004	84.6 82.1 82.3 79.3 73.7 75.5 77.0	84.1 82.1 82.4 78.6 73.6 75.8 77.4	81.9 82.4 78.1 74.1 75.7 76.9	81.7 82.6 77.7 74.2 75.1 77.3	82.0 82.5 76.9 74.5 75.2 77.9	82.3 76.2 75.2 75.3 77.2	81.8 75.7 74.9 75.6 77.7	81.4 75.2 75.0 75.6 77.9	74.7 75.0 76.0 77.9	74.1 74.9 76.1 78.7	73.6 75.2 76.8 78.8	73.5 74.9 76.7 79.4	78.7 73.8 75.6 77.1	76.9 74.7 75.2 77.5	75.2 75.0 75.7 77.9	73.7 75.0 76.5 79.0	76.1 74.6 75.8 77.9
1998 1999 2000 2001 2002 2003 2004 2005	84.6 82.1 82.3 79.3 73.7 75.5 77.0	84.1 82.1 82.4 78.6 73.6 75.8 77.4 80.2	81.9 82.4 78.1 74.1 75.7 76.9 80.1	81.7 82.6 77.7 74.2 75.1 77.3 80.0	82.0 82.5 76.9 74.5 75.2 77.9 80.2	82.3 76.2 75.2 75.3 77.2 80.4	81.8 75.7 74.9 75.6 77.7 80.3	81.4 75.2 75.0 75.6 77.9 80.4	74.7 75.0 76.0 77.9 78.9	74.1 74.9 76.1 78.7 79.7	73.6 75.2 76.8 78.8 80.5	73.5 74.9 76.7 79.4 80.9	78.7 73.8 75.6 77.1 80.0	76.9 74.7 75.2 77.5 80.2	75.2 75.0 75.7 77.9 79.9	73.7 75.0 76.5 79.0 80.4	76.1 74.6 75.8 77.9 80.1
1998 1999 2000 2001 2002 2003 2004 2005 2006	84.6 82.1 82.3 79.3 73.7 75.5 77.0 79.7 80.9	84.1 82.1 82.4 78.6 73.6 75.8 77.4 80.2 80.8	81.9 82.4 78.1 74.1 75.7 76.9 80.1 80.8	81.7 82.6 77.7 74.2 75.1 77.3 80.0 81.0	82.0 82.5 76.9 74.5 75.2 77.9 80.2 80.8	82.3 76.2 75.2 75.3 77.2 80.4 81.1	81.8 75.7 74.9 75.6 77.7 80.3 81.1	81.4 75.2 75.0 75.6 77.9 80.4 81.2	74.7 75.0 76.0 77.9 78.9 80.8	74.1 74.9 76.1 78.7 79.7 80.6	73.6 75.2 76.8 78.8 80.5 80.3	73.5 74.9 76.7 79.4 80.9 80.9	78.7 73.8 75.6 77.1 80.0 80.8	76.9 74.7 75.2 77.5 80.2 81.0	75.2 75.0 75.7 77.9 79.9 81.1	73.7 75.0 76.5 79.0 80.4 80.6	76.1 74.6 75.8 77.9 80.1 80.9

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

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

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
hange) ²																	
987	3	1.4	.1	.5	.7	.4	.7	.5	.6	1.6	.6	.6	6.1	6.7	7.1	11.7	5.7
1988	2	.2	.3	.9	1	.1	.1	.1	.3	.5	.3	.4	2.6	4.5	1.4	4.5	5.4
1989	.8	9	1	.1	9	.2	-1.1	.9	2	2	.2	.1	1.8	-3.1	-2.9	.6	.8
1990	1	1.4	.5	3	.7	.2	2 .2	.2	.0	8	-1.1	8	4.6	2.7	.6	-6.7	.8
1991	8	6	7	.3	./	1.1	.2	.2	1.1	2	3	1	-8.8	2.1	7.1	1.6	-2.0
992	6	.9	1.0	.5	.6	.3	.8	4	.1	.6	.4	2	.6	8.2	4.0	2.8	3.6
1993	1.1	.1	2	.6	1	1	.3	1	.6	.8	.4	.5	4.5	1.4	1.3	6.8	3.5
1994	.2	.1	1.3	.8	.7	.3	.4	.7	.3	1.0	.8	1.1	5.0	9.5	5.9	9.8	5.9
1995	.3	1	.2	1	.0	.4	6	1.2	.9	1	.1	.4	5.4	.6	3.2	4.2	5.2
1996	8	1.7	2	1.0	.7	1.1	.3	.6	.7	1	.8	.9	2.1	9.1	7.8	5.8	4.8
.997	.1	1.4	1.2	2	.9	.7	.4	1.7	.9	.6	1.1	.5	9.4	7.6	10.8	11.1	8.5
1998	.8	.0	1	.6	.6	7	5	2.5	3	.9	.2	.5	6.0	2.7	3.0	7.3	6.7
1999	.4	.7	1	.3	.9	4	.5	.8	3	1.6	.7	.7	5.0	4.2	3.8	9.8	5.0
2000	.1	.3	.7	.6	1	.2	.0	5	.5	4	3	7	5.3	4.7	5	-2.8	4.5
2001	6	6	3	2	8	7	3	7	3	7	2	.2	-6.6	-5.5	-6.3	-4.8	-4.1
2002	.4	.0	.7	.0	.7	1.1	4	.3	.1	5	.4	5	3.0	5.2	2.9	9	1
2002	.6	.1	.3	-1.0	.1	.5	4	2	.8	5	1.1	2	2.4	-2.0	2.3	4.6	1.3
2004	.1	.7	3	.5	.7	8	.8	.6	2	1.0	.0	.7	2.5	2.9	3.6	5.2	3.0
2005	.7	.8	4	.1	.5	.2	.0	.3	-1.0	1.6	.9	.1	6.2	1.9	.5	6.6	4.0
2006	.7	3	1	.5	3	.3	.1	.3	2	5	2	1.2	3.3	1.0	1.4	9	2.5
2007	6	.3	.4	.3	.0	.3	.6	4	.4	4	.4	.3	1.7	3.2	2.4	.1	1.4
2007	3	.5 5	1	9	2	4	3	4	-3.7	4	-2.2	-2.9	-1.2	-5.4	-9.3	-18.1	-3.2
2009	-2.7	1	-1.9	6	-1.0				3.1		2.2	2.7	-22.0	J.1	7.5	10.1	3.2
IP (2002=100)			1100	110.5	110.5	1120	110.5	1120	110.1	1120	1122	110.5		112.5	1100	1100	112.5
2007	111.4	111.7	112.2	112.5	112.5	112.9	113.5	113.0	113.4	112.9	113.3	113.7	111.7	112.6	113.3 108.7	113.3	112.7
2008 2009	113.4 97.9	112.8 97.8	112.7 96.0	111.7 95.4	111.5 94.4	111.0	110.8	109.7	105.7	106.0	103.6	100.6	113.0 97.2	111.4	106.7	103.4	109.1
Capacity (percent of 2002 output) 2007	141.3	141.5	141.8	142.0	142.3	142.6	142.9	143.2	143.4	143.7	144.0	144.2	141.5	142.3	143.1	144.0	142.7
2008	144.5	144.7	144.9	145.1	145.3	145.5	145.6	145.7	145.8	145.8	145.8	145.8	144.7	145.3	145.7	145.8	145.4
009	145.7	145.7	145.6	145.4	145.3								145.7				
J tilization																	
percent)																	
1987	79.0	79.9	79.8	80.0	80.4	80.5	80.8	81.1	81.4	82.5	82.9	83.3	79.6	80.3	81.1	82.9	81.0
1988	83.0	83.1	83.3	84.0	83.8	83.9	84.0	84.0	84.2	84.6	84.7	84.9	83.2	83.9	84.0	84.7	84.0
1989	85.4	84.5	84.3	84.2	83.3	83.3	82.2	82.7	82.3	82.0	82.0	81.9	84.7	83.6	82.4	82.0	83.2
1990	81.6	82.6	82.8	82.4	82.3	82.3	82.0	82.0	81.8	81.0	80.0	79.2	82.3	82.3	81.9	80.1	81.7
1991	78.5	77.9	77.2	77.4	77.8	78.5	78.6	78.7	79.4	79.2	78.9	78.7	77.9	77.9	78.9	78.9	78.4
1992	78.0	78.6	79.2	79.4	79.7	79.8	80.2	79.7	79.6	79.9	80.0	79.7	78.6	79.6	79.8	79.8	79.5
1993	80.4	80.3	80.1	80.4	80.2	80.0	80.1	79.9	80.3	80.8	81.0	81.2	80.2	80.2	80.1	81.0	80.4
1994	81.2	81.1	82.0	82.4	82.7	82.7	82.7	83.0	83.0	83.5	83.8	84.5	81.4	82.6	82.9	83.9	82.7
.995	84.4	84.0	83.9	83.5	83.2	83.2	82.4	83.0	83.4	82.9	82.5	82.5	84.1	83.3	82.9	82.6	83.2
996	81.4	82.3	81.7	82.1	82.2	82.6	82.4	82.5	82.6	82.1	82.3	82.5	81.8	82.3	82.5	82.3	82.2
997	82.1	82.8	83.3	82.6	82.9	82.9	82.7	83.5	83.7	83.6	83.9	83.7	82.8	82.8	83.3	83.7	83.2
.998	83.8	83.2	82.5	82.4	82.3	81.2	80.3	81.8	81.0	81.3	81.0	81.0	83.2	82.0	81.0	81.1	81.8
1999	80.9	81.1	80.6	80.5	80.9	80.3	80.3	80.5	79.9	80.8	81.0	81.3	80.9	80.6	80.3	81.0	80.7
2000	81.0	80.9	81.1	81.3	80.8	80.7	80.3	79.6	79.6	79.0	78.5	77.7	81.0	80.9	79.9	78.4	80.1
2001	76.9	76.2	75.7	75.3	74.5	73.8	73.4	72.7	72.3	71.7	71.4	71.5	76.3	74.5	72.8	71.5	73.8
2002	71.7	71.7	72.1	72.1	72.5	73.3	73.0	73.2	73.3	72.9	73.2	72.9	71.8	72.6	73.1	73.0	72.7
2003	73.3	73.5	73.7	73.0	73.1	73.5	73.6	73.4	74.0	74.1	74.9	74.8	73.5	73.2	73.7	74.6	73.7
2004	74.8	75.4	75.2	75.6	76.1	75.5	76.2	76.6	76.5	77.2	77.2	77.6	75.1	75.7	76.4	77.3	76.2
2005	78.1	78.7	78.3	78.3	78.5	78.6	78.4	78.6	77.7	78.8	79.4	79.4	78.3	78.5	78.2	79.2	78.6
2006	79.8	79.5	79.3	79.6	79.3	79.5	79.5	79.6	79.4	78.9	78.7	79.5	79.6	79.5	79.5	79.0	79.4
2007	70.0	79.0	70.1	70.2	70.1	70.1	70.4	79.0	70.1	70 6	707	70.0	70.0	70.1	70.1	70 7	70.0
2007 2008	78.8 78.5	78.9 78.0	79.1 77.8	79.2 77.0	79.1 76.7	79.1 76.3	79.4 76.1	78.9 75.3	79.1 72.5	78.6 72.7	78.7 71.1	78.8 69.0	79.0 78.1	79.1 76.7	79.1 74.6	78.7 70.9	79.0 75.1
4000		67.1	65.9	65.6	65.0	70.3	70.1	13.3	12.3	12.1	/1.1	37.0	66.7	70.7	74.0	70.7	73.1
2009	67.1																

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

Table 13
HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Total Industry Excluding Selected
High-Technology Industries¹
Seasonally adjusted

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ²																	
1987	5	1.2	.2	.5	.6	.4	.5	.6	.2	1.4	.5	.4	4.5	6.2	6.0	9.1	4.3
1988	.0	.4	.2	.5	1	.2	.1	.5	4	.5	.2	.4	3.1	2.8	1.5	2.6	4.4
1989	.3	4	.3	1	7	.0	-1.1	.9	3	2	.2	.6	1.9	-1.8	-3.3	1.0	.6
1990	7	.9	.5	2	.1	.2	2	.2	.2	8	-1.3	7	2.3	2.3	.9	-6.7	.3
1991	4	7	6	.2	1.0	1.0	.0	.0	.9	2	2	5	-8.0	2.2	5.4	.5	-2.0
1992	8	.7	.8	.6	.3	1	.8	6	.1	.6	.3	.0	-2.0	6.1	1.8	2.9	1.9
1993	.5	.3	1	.3	5	.2	.4	1	.3	.7	.3	.5	3.2	.2	1.5	5.1	2.5
1994	.4	.0	.9	.3	.4	.6	.0	.3	.0	.6	.4	.9	4.4	5.4	3.2	5.6	4.0
1995	.2 -1.0	2 1.4	1	3	.0	.1	5	1.1	.1	5 3	.1	.2	3.0	-1.4	2.2	.4	2.4
1996	-1.0	1.4	3	.7	.3	. /	4	.4	.4	3	.0	.5	4	6.2	2.2	3.2	1.7
1997 1998	1 .2	.9 1	.5 1	4 .2	.3 .6	.2 9	.2 8	1.1 2.0	.7 6	.6 .5	.7 3	.1 .0	5.1 1.9	2.2 1.0	6.0 3	7.9 2.0	4.2 3.1
1999	.2	1	1 1	1	.6	5	8	.4	5	1.2	3	.5	.8	.3	1.2	5.8	1.2
2000	4	.1	.1	.4	1	.0	5	4	3	5	2	6	.4	1.7	-2.7	-2.7	1.1
2001	7	5	3	1	7	5	3	3	4	6	4	1	-6.3	-4.4	-4.6	-4.9	-4.0
2002 2003	.7 .7	1 .1	.8 3	.2 -1.0	.5 1	.8	4 .2	.0 1	.6	3 1	.8	6 - 1	2.8 1.5	5.4 -4.5	1.3	-1.0 3.2	1
2003	.7	.5	5 6	-1.0 .5	1	.0 9	.7	1	.o 1	1 .9	.8	1 .7	2.0	-4.5 1.9	1.5	5.4	1.8
2005	.4	.6	2	1	.2	.3	2	.0	-2.0	1.1	1.1	.6	5.0	.9	-2.1	2.8	2.6
2006	.0	1	.2	.3	2	.3	.2	.1	4	1	2	.9	3.1	1.5	1.2	9	1.5
2007	5	.8	3	.3	.0	1	.2	.0	.3	7	.5	.3	1.7	1.8	1.0	1	.9
2008	1	4	5	7	3	2	.0	-1.1	-4.1	1.5	-1.1	-2.2	6	-5.3	-9.0	-11.7	-2.8
2009	-2.2	7	-1.9	7	-1.1								-18.9				
IP (2002=100)																	
2007	106.3	107.2	106.9	107.2	107.3	107.2	107.4	107.4	107.7	107.0	107.5	107.8	106.8	107.2	107.5	107.5	107.2
2008	107.7	107.3	106.8	106.1	105.8	105.6	105.6	104.4	100.2	101.7	100.6	98.4	107.3	105.8	103.4	100.2	104.2
2009	96.2	95.5	93.7	93.0	92.0								95.1				
Capacity (percent of 2002 output)																	
2007	132.4	132.5	132.6	132.7	132.8	132.9	133.0	133.1	133.2	133.4	133.5	133.6	132.5	132.8	133.1	133.5	133.0
2008	133.8	133.9	134.0	134.2	134.3	134.4	134.5	134.6	134.7	134.7	134.7	134.7	133.9	134.3	134.6	134.7	134.4
2009	134.7	134.6	134.5	134.3	134.2								134.6				
Utilization																	
(percent) 1987	79.2	80.1	80.1	80.4	80.8	81.1	81.4	81.8	81.9	83.0	83.4	83.7	79.8	80.8	81.7	83.4	81.4
1988	83.6	84.0	84.1	84.5	84.3	84.5	84.5	84.9	84.5	84.9	85.0	85.3	83.9	84.4	84.7	85.1	84.5
1989	85.4	85.0	85.2	85.0	84.2	84.1	83.1	83.7	83.3	83.0	83.0	83.4	85.2	84.4	83.3	83.1	84.0
1990	82.7	83.3	83.6	83.3	83.3	83.4	83.1	83.2	83.2	82.5	81.3	80.6	83.2	83.3	83.2	81.4	82.8
1991	80.1	79.4	78.9	78.9	79.6	80.3	80.2	80.1	80.8	80.5	80.3	79.8	79.5	79.6	80.4	80.2	79.9
1992	79.0	79.6	80.1	90.5	90.6	90.5	91.0	90.5	90.5	00.0	01.1	81.1	79.6	80.5	00.7		80.4
			00.1	80.5	80.6	80.5	81.0	80.5	80.5	80.9	81.1	01.1	12.0	80.5	80.7	81.0	00.4
1993	81.4	81.6	81.4	81.6	81.1	81.2	81.4	81.3	81.5	80.9	82.1	82.4	81.5	81.3	80.7	81.0 82.2	81.6
1993	81.4 82.6			81.6 83.2										81.3 83.5			
	82.6 84.9	81.6 82.5 84.6	81.4 83.1 84.4	81.6 83.2 84.0	81.1 83.4 83.9	81.2 83.8 83.8	81.4 83.7 83.2	81.3 83.8 84.0	81.5 83.7 84.0	82.0 84.1 83.5	82.1 84.3 83.4	82.4 84.9 83.4	81.5 82.8 84.6	81.3 83.5 83.9	81.4 83.7 83.8	82.2	81.6 83.6 83.9
1994	82.6	81.6 82.5	81.4 83.1	81.6 83.2	81.1 83.4	81.2 83.8	81.4 83.7	81.3 83.8	81.5 83.7	82.0 84.1	82.1 84.3	82.4 84.9	81.5 82.8	81.3 83.5	81.4 83.7	82.2 84.4	81.6 83.6
1994 1995 1996	82.6 84.9 82.4 83.8	81.6 82.5 84.6 83.4	81.4 83.1 84.4 83.0 84.5	81.6 83.2 84.0 83.4	81.1 83.4 83.9 83.7	81.2 83.8 83.8 84.1 83.8	81.4 83.7 83.2 83.6	81.3 83.8 84.0 83.7	81.5 83.7 84.0 83.8	82.0 84.1 83.5 83.4 84.8	82.1 84.3 83.4 83.9 85.0	82.4 84.9 83.4 84.1	81.5 82.8 84.6 82.9	81.3 83.5 83.9 83.7	81.4 83.7 83.8 83.7 84.2	82.2 84.4 83.4 83.8 84.9	81.6 83.6 83.9 83.5
1994 1995 1996 1997 1998	82.6 84.9 82.4 83.8 84.7	81.6 82.5 84.6 83.4 84.3 84.3	81.4 83.1 84.4 83.0 84.5 84.0	81.6 83.2 84.0 83.4 83.9 83.8	81.1 83.4 83.9 83.7 83.9 84.1	81.2 83.8 83.8 84.1 83.8 83.0	81.4 83.7 83.2 83.6 83.7 82.1	81.3 83.8 84.0 83.7 84.3 83.5	81.5 83.7 84.0 83.8 84.6 82.7	82.0 84.1 83.5 83.4 84.8 82.9	82.1 84.3 83.4 83.9 85.0 82.4	82.4 84.9 83.4 84.1 84.8 82.2	81.5 82.8 84.6 82.9 84.2 84.3	81.3 83.5 83.9 83.7 83.9 83.7	81.4 83.7 83.8 83.7 84.2 82.8	82.2 84.4 83.4 83.8 84.9 82.5	81.6 83.6 83.9 83.5 84.3 83.3
1994 1995 1996 1997 1998 1999	82.6 84.9 82.4 83.8 84.7 82.2	81.6 82.5 84.6 83.4 84.3 84.3 82.1	81.4 83.1 84.4 83.0 84.5 84.0 81.8	81.6 83.2 84.0 83.4 83.9 83.8 81.5	81.1 83.4 83.9 83.7 83.9 84.1 81.8	81.2 83.8 83.8 84.1 83.8 83.0 81.3	81.4 83.7 83.2 83.6 83.7 82.1 81.3	81.3 83.8 84.0 83.7 84.3 83.5 81.5	81.5 83.7 84.0 83.8 84.6 82.7 81.0	82.0 84.1 83.5 83.4 84.8 82.9 81.9	82.1 84.3 83.4 83.9 85.0 82.4 81.9	82.4 84.9 83.4 84.1 84.8 82.2 82.3	81.5 82.8 84.6 82.9 84.2 84.3 82.0	81.3 83.5 83.9 83.7 83.9 83.7 81.5	81.4 83.7 83.8 83.7 84.2 82.8 81.3	82.2 84.4 83.4 83.8 84.9 82.5 82.0	81.6 83.6 83.9 83.5 84.3 83.3 81.7
1994 1995 1996 1997 1998 1999 2000	82.6 84.9 82.4 83.8 84.7 82.2 81.8	81.6 82.5 84.6 83.4 84.3 84.3 82.1 81.7	81.4 83.1 84.4 83.0 84.5 84.0 81.8 81.7	81.6 83.2 84.0 83.4 83.9 83.8 81.5 81.9	81.1 83.4 83.9 83.7 83.9 84.1 81.8 81.7	81.2 83.8 83.8 84.1 83.8 83.0 81.3 81.6	81.4 83.7 83.2 83.6 83.7 82.1 81.3 81.1	81.3 83.8 84.0 83.7 84.3 83.5 81.5 80.7	81.5 83.7 84.0 83.8 84.6 82.7 81.0 80.9	82.0 84.1 83.5 83.4 84.8 82.9 81.9 80.4	82.1 84.3 83.4 83.9 85.0 82.4 81.9 80.2	82.4 84.9 83.4 84.1 84.8 82.2 82.3 79.6	81.5 82.8 84.6 82.9 84.2 84.3 82.0 81.7	81.3 83.5 83.9 83.7 83.9 83.7 81.5 81.8	81.4 83.7 83.8 83.7 84.2 82.8 81.3 80.9	82.2 84.4 83.4 83.8 84.9 82.5 82.0 80.1	81.6 83.6 83.9 83.5 84.3 83.3 81.7 81.1
1994 1995 1996 1997 1998 1999	82.6 84.9 82.4 83.8 84.7 82.2	81.6 82.5 84.6 83.4 84.3 84.3 82.1	81.4 83.1 84.4 83.0 84.5 84.0 81.8	81.6 83.2 84.0 83.4 83.9 83.8 81.5	81.1 83.4 83.9 83.7 83.9 84.1 81.8	81.2 83.8 83.8 84.1 83.8 83.0 81.3	81.4 83.7 83.2 83.6 83.7 82.1 81.3	81.3 83.8 84.0 83.7 84.3 83.5 81.5	81.5 83.7 84.0 83.8 84.6 82.7 81.0	82.0 84.1 83.5 83.4 84.8 82.9 81.9	82.1 84.3 83.4 83.9 85.0 82.4 81.9	82.4 84.9 83.4 84.1 84.8 82.2 82.3	81.5 82.8 84.6 82.9 84.2 84.3 82.0	81.3 83.5 83.9 83.7 83.9 83.7 81.5	81.4 83.7 83.8 83.7 84.2 82.8 81.3	82.2 84.4 83.4 83.8 84.9 82.5 82.0	81.6 83.6 83.9 83.5 84.3 83.3 81.7
1994 1995 1996 1997 1998 1999 2000 2001	82.6 84.9 82.4 83.8 84.7 82.2 81.8 79.0	81.6 82.5 84.6 83.4 84.3 84.3 82.1 81.7 78.5	81.4 83.1 84.4 83.0 84.5 84.0 81.8 81.7 78.1	81.6 83.2 84.0 83.4 83.9 83.8 81.5 81.9 77.9	81.1 83.4 83.9 83.7 83.9 84.1 81.8 81.7 77.3	81.2 83.8 83.8 84.1 83.8 83.0 81.3 81.6 76.8	81.4 83.7 83.2 83.6 83.7 82.1 81.3 81.1 76.5	81.3 83.8 84.0 83.7 84.3 83.5 81.5 80.7 76.2	81.5 83.7 84.0 83.8 84.6 82.7 81.0 80.9 75.8	82.0 84.1 83.5 83.4 84.8 82.9 81.9 80.4 75.3	82.1 84.3 83.4 83.9 85.0 82.4 81.9 80.2 74.9	82.4 84.9 83.4 84.1 84.8 82.2 82.3 79.6 74.7	81.5 82.8 84.6 82.9 84.2 84.3 82.0 81.7 78.5	81.3 83.5 83.9 83.7 83.9 83.7 81.5 81.8 77.4	81.4 83.7 83.8 83.7 84.2 82.8 81.3 80.9 76.2	82.2 84.4 83.4 83.8 84.9 82.5 82.0 80.1 75.0	81.6 83.6 83.9 83.5 84.3 83.3 81.7 81.1 76.7
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003	82.6 84.9 82.4 83.8 84.7 82.2 81.8 79.0 75.2 76.8	81.6 82.5 84.6 83.4 84.3 84.3 82.1 81.7 78.5	81.4 83.1 84.4 83.0 84.5 84.0 81.8 81.7 78.1	81.6 83.2 84.0 83.4 83.9 83.8 81.5 81.9 77.9	81.1 83.4 83.9 83.7 83.9 84.1 81.8 81.7 77.3	81.2 83.8 83.8 84.1 83.8 83.0 81.3 81.6 76.8	81.4 83.7 83.2 83.6 83.7 82.1 81.3 81.1 76.5	81.3 83.8 84.0 83.7 84.3 83.5 81.5 80.7 76.2 76.4 76.4	81.5 83.7 84.0 83.8 84.6 82.7 81.0 80.9 75.8	82.0 84.1 83.5 83.4 84.8 82.9 81.9 80.4 75.3	82.1 84.3 83.4 83.9 85.0 82.4 81.9 80.2 74.9	82.4 84.9 83.4 84.1 84.8 82.2 82.3 79.6 74.7 76.2 77.4	81.5 82.8 84.6 82.9 84.2 84.3 82.0 81.7 78.5	81.3 83.5 83.9 83.7 83.9 83.7 81.5 81.8 77.4	81.4 83.7 83.8 83.7 84.2 82.8 81.3 80.9 76.2 76.5 76.6	82.2 84.4 83.4 83.8 84.9 82.5 82.0 80.1 75.0	81.6 83.6 83.9 83.5 84.3 83.3 81.7 81.1 76.7
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	82.6 84.9 82.4 83.8 84.7 82.2 81.8 79.0 75.2 76.8 77.6	81.6 82.5 84.6 83.4 84.3 84.3 82.1 81.7 78.5 75.1 77.0 77.9	81.4 83.1 84.4 83.0 84.5 84.0 81.8 81.7 78.1 75.6 76.9 77.4	81.6 83.2 84.0 83.4 83.9 83.8 81.5 81.9 77.9 75.8 76.2 77.9	81.1 83.4 83.9 83.7 83.9 84.1 81.8 81.7 77.3	81.2 83.8 83.8 84.1 83.8 83.0 81.3 81.6 76.8	81.4 83.7 83.2 83.6 83.7 82.1 81.3 81.1 76.5 76.4 76.5 78.3	81.3 83.8 84.0 83.7 84.3 83.5 81.5 80.7 76.2 76.4 76.4 78.4	81.5 83.7 84.0 83.8 84.6 82.7 81.0 80.9 75.8 76.5 76.9 78.4	82.0 84.1 83.5 83.4 84.8 82.9 81.9 80.4 75.3 76.3 76.9 79.1	82.1 84.3 83.4 83.9 85.0 82.4 81.9 80.2 74.9	82.4 84.9 83.4 84.1 84.8 82.2 82.3 79.6 74.7 76.2 77.4 79.9	81.5 82.8 84.6 82.9 84.2 84.3 82.0 81.7 78.5 75.3 76.9 77.6	81.3 83.5 83.9 83.7 83.9 83.7 81.5 81.8 77.4	81.4 83.7 83.8 83.7 84.2 82.8 81.3 80.9 76.2 76.5 76.6 78.4	82.2 84.4 83.4 83.8 84.9 82.5 82.0 80.1 75.0 76.4 77.3 79.5	81.6 83.6 83.9 83.5 84.3 83.3 81.7 81.1 76.7 76.1 76.7 78.4
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	82.6 84.9 82.4 83.8 84.7 82.2 81.8 79.0 75.2 76.8 77.6 80.2	81.6 82.5 84.6 83.4 84.3 84.3 82.1 81.7 78.5 75.1 77.0 77.9 80.7	81.4 83.1 84.4 83.0 84.5 84.0 81.8 81.7 78.1 75.6 76.9 77.4 80.6	81.6 83.2 84.0 83.4 83.9 83.8 81.5 81.9 77.9 75.8 76.2 77.9 80.5	81.1 83.4 83.9 83.7 83.9 84.1 81.8 81.7 77.3 76.1 76.2 78.5 80.7	81.2 83.8 83.8 84.1 83.8 83.0 81.3 81.6 76.8 76.7 76.2 77.7	81.4 83.7 83.2 83.6 83.7 82.1 81.3 81.1 76.5 76.4 76.5 78.3 80.7	81.3 83.8 84.0 83.7 84.3 83.5 81.5 80.7 76.2 76.4 78.4 80.7	81.5 83.7 84.0 83.8 84.6 82.7 81.0 80.9 75.8 76.5 76.9 78.4 79.1	82.0 84.1 83.5 83.4 84.8 82.9 81.9 80.4 75.3 76.3 76.9 79.1	82.1 84.3 83.4 83.9 85.0 82.4 81.9 80.2 74.9 76.7 77.5 79.4 80.7	82.4 84.9 83.4 84.1 84.8 82.2 82.3 79.6 74.7 76.2 77.4 79.9 81.1	81.5 82.8 84.6 82.9 84.2 84.3 82.0 81.7 78.5 75.3 76.9 77.6 80.5	81.3 83.5 83.9 83.7 83.9 83.7 81.5 81.8 77.4 76.2 76.2 78.0 80.7	81.4 83.7 83.8 83.7 84.2 82.8 81.3 80.9 76.2 76.5 76.6 78.4 80.2	82.2 84.4 83.4 83.8 84.9 82.5 82.0 80.1 75.0 76.4 77.3 79.5 80.5	81.6 83.6 83.9 83.5 84.3 83.3 81.7 81.1 76.7 76.1 76.7 78.4 80.5
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	82.6 84.9 82.4 83.8 84.7 82.2 81.8 79.0 75.2 76.8 77.6	81.6 82.5 84.6 83.4 84.3 84.3 82.1 81.7 78.5 75.1 77.0 77.9	81.4 83.1 84.4 83.0 84.5 84.0 81.8 81.7 78.1 75.6 76.9 77.4	81.6 83.2 84.0 83.4 83.9 83.8 81.5 81.9 77.9 75.8 76.2 77.9	81.1 83.4 83.9 83.7 83.9 84.1 81.8 81.7 77.3	81.2 83.8 83.8 84.1 83.8 83.0 81.3 81.6 76.8	81.4 83.7 83.2 83.6 83.7 82.1 81.3 81.1 76.5 76.4 76.5 78.3	81.3 83.8 84.0 83.7 84.3 83.5 81.5 80.7 76.2 76.4 76.4 78.4	81.5 83.7 84.0 83.8 84.6 82.7 81.0 80.9 75.8 76.5 76.9 78.4	82.0 84.1 83.5 83.4 84.8 82.9 81.9 80.4 75.3 76.3 76.9 79.1	82.1 84.3 83.4 83.9 85.0 82.4 81.9 80.2 74.9	82.4 84.9 83.4 84.1 84.8 82.2 82.3 79.6 74.7 76.2 77.4 79.9	81.5 82.8 84.6 82.9 84.2 84.3 82.0 81.7 78.5 75.3 76.9 77.6	81.3 83.5 83.9 83.7 83.9 83.7 81.5 81.8 77.4	81.4 83.7 83.8 83.7 84.2 82.8 81.3 80.9 76.2 76.5 76.6 78.4	82.2 84.4 83.4 83.8 84.9 82.5 82.0 80.1 75.0 76.4 77.3 79.5	81.6 83.6 83.9 83.5 84.3 83.3 81.7 81.1 76.7 76.1 76.7 78.4
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	82.6 84.9 82.4 83.8 84.7 82.2 81.8 79.0 75.2 76.8 77.6 80.2 81.0	81.6 82.5 84.6 83.4 84.3 84.3 82.1 81.7 78.5 75.1 77.0 77.9 80.7 80.8	81.4 83.1 84.4 83.0 84.5 84.0 81.8 81.7 78.1 75.6 76.9 77.4 80.6 80.9	81.6 83.2 84.0 83.4 83.9 83.8 81.5 81.9 77.9 75.8 76.2 77.9 80.5 81.0	81.1 83.4 83.9 83.7 83.9 84.1 81.8 81.7 77.3 76.1 76.2 78.5 80.7 80.8	81.2 83.8 83.8 84.1 83.8 83.0 81.3 81.6 76.8 76.7 76.2 77.7 80.9 81.0	81.4 83.7 83.2 83.6 83.7 82.1 81.3 81.1 76.5 76.4 76.5 78.3 80.7 81.0	81.3 83.8 84.0 83.7 84.3 83.5 81.5 80.7 76.2 76.4 76.4 78.4 80.7 81.0	81.5 83.7 84.0 83.8 84.6 82.7 81.0 80.9 75.8 76.5 76.9 78.4 79.1 80.6	82.0 84.1 83.5 83.4 84.8 82.9 81.9 80.4 75.3 76.9 79.1 79.9 80.4 80.2	82.1 84.3 83.4 83.9 85.0 82.4 81.9 80.2 74.9 76.7 77.5 79.4 80.7 80.2 80.6	82.4 84.9 83.4 84.1 84.8 82.2 82.3 79.6 74.7 76.2 77.4 79.9 81.1 80.8	81.5 82.8 84.6 82.9 84.2 84.3 82.0 81.7 78.5 75.3 76.9 77.6 80.5 80.9	81.3 83.5 83.9 83.7 83.9 83.7 81.5 81.8 77.4 76.2 76.2 78.0 80.7 80.9	81.4 83.7 83.8 83.7 84.2 82.8 81.3 80.9 76.2 76.5 76.6 78.4 80.2 80.9 80.7	82.2 84.4 83.4 83.8 84.9 82.5 82.0 80.1 75.0 76.4 77.3 79.5 80.5 80.5	81.6 83.6 83.9 83.5 84.3 83.3 81.7 81.1 76.7 76.1 76.7 78.4 80.5 80.8
1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	82.6 84.9 82.4 83.8 84.7 82.2 81.8 79.0 75.2 76.8 77.6 80.2 81.0	81.6 82.5 84.6 83.4 84.3 84.3 82.1 81.7 78.5 75.1 77.0 77.9 80.7	81.4 83.1 84.4 83.0 84.5 84.0 81.8 81.7 78.1 75.6 76.9 77.4 80.6 80.9	81.6 83.2 84.0 83.4 83.9 83.8 81.5 81.9 77.9 75.8 76.2 77.9 80.5 81.0	81.1 83.4 83.9 83.7 83.9 84.1 81.8 81.7 77.3 76.1 76.2 78.5 80.7	81.2 83.8 83.8 84.1 83.8 83.0 81.3 81.6 76.8 76.7 76.2 77.7 80.9 81.0	81.4 83.7 83.2 83.6 83.7 82.1 81.3 81.1 76.5 76.4 76.5 78.3 80.7 81.0	81.3 83.8 84.0 83.7 84.3 83.5 81.5 80.7 76.2 76.4 76.4 78.4 80.7 81.0	81.5 83.7 84.0 83.8 84.6 82.7 81.0 80.9 75.8 76.5 76.9 78.4 79.1 80.6	82.0 84.1 83.5 83.4 84.8 82.9 81.9 80.4 75.3 76.9 79.1 79.9 80.4	82.1 84.3 83.4 83.9 85.0 82.4 81.9 80.2 74.9 76.7 77.5 79.4 80.7 80.2	82.4 84.9 83.4 84.1 84.8 82.2 82.3 79.6 74.7 76.2 77.4 79.9 81.1 80.8	81.5 82.8 84.6 82.9 84.2 84.3 82.0 81.7 78.5 75.3 76.9 77.6 80.5	81.3 83.5 83.9 83.7 83.9 83.7 81.5 81.8 77.4 76.2 76.2 78.0 80.7	81.4 83.7 83.8 83.7 84.2 82.8 81.3 80.9 76.2 76.5 76.6 78.4 80.2 80.9	82.2 84.4 83.4 83.8 84.9 82.5 82.0 80.1 75.0 76.4 77.3 79.5 80.5	81.6 83.6 83.9 83.5 84.3 83.3 81.7 81.1 76.7 76.1 76.7 78.4 80.5 80.8

^{1.} Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.
2. Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

Table 14
HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing 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) ³																	
1987	4	1.4	.1	.4	.6	.2	.6	.4	.5	1.5	.6	.5	4.9	5.7	5.5	10.5	4.6
1988 1989	2 .8	.2 -1.0	.2 .0	.8 .0	2 9	.1 .2	.0 -1.3	.1 .9	.3 3	.5 3	.3 .1	.4 .0	2.0 2.2	3.6 -3.4	.6 -4.0	4.2 5	4.4
1990	2	1.4	.4	3	9	.2	-1.3	.2	1	9	-1.2	8	3.7	2.0	-4.0	-7.5	.0
1991	8	7	8	.4	.6	1.1	.3	.1	1.1	2	3	3	-9.6	1.5	7.1	1.2	-2.6
1992 1993	9 1.1	.9 .0	.9 3	.4	.5 2	.1 2	.8	5 2	1 .5	.4 .8	.3	2 .5	-1.2 4.1	6.9 .5	2.6	1.4 5.7	2.6 2.5
1994	.1	.1	1.2	.5	.5	.2	.3	.5	.1	.7	.5	.9	4.0	7.1	3.7	6.9	4.4
1995	.2	3	1	4	2	.2	8	.9	.6	4	1	.1	3.0	-2.5	.3	.8	2.5
1996	-1.2	1.4	5	1.0	.5	.8	.0	.3	.5	4	.7	.7	-1.9	7.0	4.2	3.0	1.5
1997 1998	2 .6	1.1 2	.9 3	7 .3	.5 .5	.4 -1.1	.0 9	1.4 2.4	.6 7	.5 .7	.9 1	.2 .2	6.2 3.1	2.7	6.5 6	8.3 3.8	4.9 3.5
1999	.0	.4	4	.0	.8	7	.0	.7	5	1.5	.4	.4	.8	.2	.4	7.2	1.4
2000	4	1	.3	.4	5	.1	3	8	.4	5	6	9	.1	.9	-3.4	-4.7	.8
2001	6	5	3	1	7	5	1	7	3	7	2	.1	-7.4	-4.5	-5.0	-4.8	-4.9
2002 2003	.6 .6	1 1	.8 .1	1 -1.1	.6 .0	1.0	5 1	.2 3	.1 .8	5 1	.3 1.0	7 3	3.5	4.6 -3.8	1.9 .8	-1.7 3.6	.0
2004	1	.7	3	.5	.8	9	.9	.6	3	1.0	.0	.6	1.5	3.1	3.3	4.9	2.2
2005 2006	.6 .7	.7 4	5 2	.0	.4 4	.1	2	.1	-1.3 3	1.5 5	.8 2	1.2	5.5 2.6	.9	-1.2 .3	5.1	3.2 1.5
2007	7	.3	.4	.2	.0	.2	.4	5	.3	6	.3	.2	1.5	2.4	1.0	-1.2	.7
2008	3	7	2	-1.0	2	4	2	9	-3.8	.6	-2.0	-2.9	-2.3	-6.4	-9.3	-16.8	-4.0
2009	-2.8	.0	-2.0	7	9								-21.9				
IP (2002=100) 2007	106.9	107.1	107.5	107.8	107.7	107.9	108.4	107.8	108.1	107.5	107.8	108.0	107.2	107.8	108.1	107.7	107.7
2007	100.7	107.1	107.3	107.6	107.7	107.0	104.8	107.8	99.9	100.5	98.5	95.6	107.2	107.8	102.8	98.2	107.7
2009	92.9	92.9	91.1	90.5	89.7	100.0	10.10	100.0	,,,,	100.0	70.0	70.0	92.3	100	102.0	70.2	103.1
Capacity (percent of 2002 output)																	
2002 output)	135.8	135.9	136.0	136.1	136.2	136.3	136.4	136.5	136.7	136.8	137.0	137.1	135.9	136.2	136.5	137.0	136.4
2008	137.3	137.5	137.6	137.8	137.9	138.1	138.2	138.3	138.3	138.4	138.3	138.3	137.5	137.9	138.3	138.3	138.0
2009	138.2	138.1	137.9	137.8	137.5								138.1				
Utilization (percent)	50.2	00.2	00.4	00.2	00.7	20.0	0.1.1	01.2	04.5	02.0	02.2	02.6	7 0.0	00.5	01.4	02.2	01.2
1987 1988	79.2 83.4	80.2 83.5	80.1 83.7	80.3 84.3	80.7 84.2	80.8 84.2	81.1 84.2	81.3 84.2	81.7 84.4	82.8 84.8	83.2 85.0	83.6 85.2	79.8 83.5	80.6 84.2	81.4 84.3	83.2 85.0	81.3 84.3
1989	85.9	84.9	84.8	84.7	83.8	83.7	82.5	83.1	82.7	82.3	82.3	82.1	85.2	84.1	82.8	82.2	83.6
1990	81.8	82.9	83.0	82.6	82.6	82.6	82.3	82.3	82.2	81.3	80.2	79.4	82.6	82.6	82.2	80.3	81.9
1991	78.7	78.0	77.3	77.4	77.8	78.6	78.7	78.7	79.5	79.3	78.9	78.6	78.0	78.0	79.0	78.9	78.5
1992	77.8	78.4	79.1	79.3	79.6	79.7	80.2	79.7	79.5	79.8	80.0	79.7	78.5	79.5	79.8	79.8	79.4
1993 1994	80.5 81.3	80.5 81.2	80.2 82.1	80.5 82.4	80.3 82.7	80.0 82.7	80.2 82.8	80.0 83.1	80.3 83.0	80.8 83.5	81.0 83.8	81.3 84.4	80.4 81.5	80.3 82.6	80.2 83.0	81.0 83.9	80.5 82.7
1995	84.4	84.0	83.8	83.3	83.0	83.0	82.2	82.7	83.1	82.5	82.3	82.2	84.1	83.1	82.6	82.3	83.0
1996	81.0	81.9	81.4	82.0	82.2	82.7	82.5	82.6	82.7	82.2	82.6	82.9	81.4	82.3	82.6	82.6	82.2
1997	82.5	83.1	83.6	82.7	82.8	82.8	82.5	83.3	83.5	83.5	83.9	83.7	83.1	82.7	83.1	83.7	83.1
1998 1999	83.8 80.9	83.3 81.0	82.7	82.7 80.2	82.8	81.5	80.5	82.1 80.0	81.3 79.4	81.5 80.4	81.2 80.6	81.1	83.3	82.3 80.2	81.3	81.3	82.1 80.3
2000	80.9	80.0	80.4 80.2	80.2	80.6 79.8	79.8 79.7	79.7 79.3	78.6	79.4	78.3	77.7	80.7 76.9	80.8 80.2	79.9	79.7 78.9	80.6 77.6	79.1
2001	76.3	75.8	75.5	75.4	74.8	74.3	74.2	73.6	73.4	72.8	72.7	72.8	75.9	74.8	73.7	72.7	74.3
2002	73.2	73.1	73.7	73.7	74.1	74.9	74.5	74.7	74.8	74.5	74.8	74.3	73.3	74.2	74.7	74.5	74.2
2003	74.8	74.8	74.9	74.1	74.1	74.5	74.5	74.3	74.9	74.8	75.6	75.4	74.8	74.2	74.5	75.3	74.7
2004	75.3	75.9	75.7	76.1	76.7	76.0	76.7	77.1	76.9	77.7	77.7	78.2	75.6	76.3	76.9	77.8	76.7
2005 2006	78.6 79.9	79.2 79.5	78.7 79.3	78.7 79.6	79.0 79.2	79.1 79.3	78.9 79.2	78.9 79.3	77.9 79.0	79.0 78.6	79.5 78.4	79.4 79.3	78.8 79.6	78.9 79.4	78.5 79.2	79.3 78.8	78.9 79.2
2007	78.7	78.8	79.1	79.2	79.1	79.2	79.4	78.9	79.1	78.5	78.7	78.8	78.9	79.2	79.2	78.7	79.0
2007	78.7	78.8	77.5	76.6	76.4	76.1	75.8	75.1	79.1	78.5	71.2	69.1	78.9	76.4	74.4	71.0	79.0
2009	67.2	67.3	66.0	65.7	65.2								66.9				
	1												1				I

¹Refer to note on cover page.
2. Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.
3. Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

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. More detailed descriptions of industrial production and capacity utilization are available on the Board's website at www.federalreserve.gov/releases/G17. In addition, the website includes files containing data shown in the release, more detailed series that are published in a monthly supplement to the G.17, and historical data. Instructions on 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 2002. Manufacturing consists of those industries included in the North American Industry Classification System (NAICS) definition of manufacturing plus those industries— newspaper, periodical, book, and directory publishing plus logging—that have traditionally been considered to be manufacturing. For the period since 1997, the total IP index has been constructed from 312 individual series based on the 2002 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.htm).

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 and unit values or sales) 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 direct measures of product are not available, estimates of output are based on production-worker hours by industry. Data on hours worked by production workers are collected in the monthly establishment survey conducted by the Bureau of Labor Statistics. 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 the *Federal Reserve Bulletins* of 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 shown below. An output index for month m is denoted by I_m^A for aggregate A and I_m for each of its components. The monthly price measure in the formula (p_m) is interpolated from an annual series of value added divided by the average annual IP index.

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

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 8 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by 8/10 percentage point (0.08 x 10% = 0.8%). 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/IPWeightsSa.txt).

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 five 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 72 percent of the source data (in value-added terms) are available; the fraction of available source data increases to 86 percent for estimates in the second month that the estimate is published, 95 percent in the third month, 98 percent in the fourth month, 99 percent in the fifth month, and 99 percent in the sixth month. Data availability by data type in late 2008 is summarized in the table below:

Availability of Monthly IP Data in Publication Window (Percent of value added in 2008)

	Month of estimate										
Type of data	1st	2nd	3rd	4th	5th	6th					
Physical product	30	44	54	56	57	57					
Production-worker hours	42	42	42	42	42	42					
IP data received	72	86	95	98	99	99					
IP data estimated	28	14	5	2	1	1					

The physical product group includes series based on either monthly or quarterly data. As can be seen in the first row 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 (30 percent out of a total of 57 percent). Of the 30 percent, about two-thirds (19 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 fourth estimate of industrial production. Specifically, quarterly data are available for the third estimate of the last month of a quarter, the fourth estimate of the second month of a quarter, and the fifth estimate of the first month of a quarter.

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 February 2009; for other series, the factors were estimated with data through at least September 2008. Series are pre-adjusted for the effects of holidays or business cycles 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 0.26 percent during the 1987–2008 period. The average revision to the *percent change* in total IP, without regard to sign, from the first to the fourth estimates was 0.21 percentage point during the 1987–2008 period. In most cases (about 85 percent), the direction of the 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 87 detailed industries (69 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 (NAICS) definition of manufacturing *plus* those industries— newspaper, periodical, book, and directory publishing plus logging—that have traditionally been considered to be manufacturing. Also, special aggregates are available, such as high-technology industries and manufacturing excluding high-technology 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 25 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 Quarterly Survey of Plant Capacity (QSPC); these industries account for a bit less than 70 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 5 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/CapNotes.htm).

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 the annual capacity aggregate 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 Census Bureau's annual Survey of Plant Capacity (the predecessor to the QSPC) 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 QSPC.

Perspective. Over the 1972–2007 period, the average total industry utilization rate is 81.0 percent; for manufacturing, the average factory operating rate has been 79.7 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.

REFERENCES AND RELEASE DATES

References. The release for the annual revision that was published on March 27, 2009 is available on the Board's website (www.federal reserve.gov/releases/g17/revisions/Current/DefaultRev.htm). A more detailed version will be provided in the Federal Reserve Bulletin in the summer of 2009. The annual revision published in March 2008 is described in an article published in the Federal Reserve Bulletin, vol. 94, pp. A41-A60. A summary of the annual revision that incorporated back to 1972 production and capacity indexes reclassified according to the North American Industry Classification System is available in an article in the Federal Reserve Bulletin, vol. 89 (April 2003), pp.151-176. 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/CapitalStockDocLatest.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, Winter 2004, Winter 2005, March 2006, May 2007, August 2008).

Release Schedule

At 9:15 a.m. on

2009: January 16, February 18, March 16, April 15, May 15, June 16, July 15, August 14, September 16, October 16, November 17, and December 15.