FEDERAL RESERVE statistical release



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INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production advanced 1.2 percent in May after having risen 0.7 percent in April. Manufacturing output climbed 0.9 percent last month, its third consecutive monthly gain of about 1 percent, and was 7.9 percent above its year-earlier level. Outside of manufacturing, the output of mines edged down 0.2 percent, and the

(over)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION: SUMMARY Seasonally adjusted

			2002=	100						Percent	change		
	2009	2010					2009	2010					May '09 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 '10
							_			_	_		
Total index	100.2	101.3	101.3	101.6	102.3	103.5	.7	1.1	1	.3	.7	1.2	7.6
Previous estimates	100.2	101.4	101.2	101.5	102.3		.7	1.2	1	.2	.8		
Major market groups													
Final Products	103.7	105.4	104.8	105.5	105.9	107.1	.8	1.6	6	.7	.4	1.1	7.6
	103.7	103.4		103.3		107.1	.6	1.6	-1.0	.7	.4 1	1.1	
Consumer goods			101.5		101.9		1.2	1.0	-1.0			1.2	6.3 10.1
Business equipment	110.6	112.0	112.3	113.5	115.4	116.9				1.1	1.6		
Nonindustrial supplies	91.4	91.9	91.3	91.2	92.4	93.8	.4	.5	7	1	1.3	1.4	3.6
Construction	79.4	80.7	80.3	82.2	84.7	85.3	-2.7	1.7	5	2.3	3.1	.8	3.9
Materials	100.3	101.2	101.9	101.8	102.6	104.0	.6	.8	.7	.0	.8	1.3	9.2
Major industry groups													
Manufacturing (see note below)	98.5	99.4	99.3	100.5	101.4	102.3	1	.9	.0	1.2	.9	.9	7.9
Previous estimates	98.5	99.4	99.4	100.3	101.4	102.3	1	1.0	1	1.0	1.0	.,	1.5
Mining	97.0	99.9	101.6	100.4	104.3	104.2	-1.6	2.9	1.7	1.0	1.5	2	9.6
Utilities	112.0	113.7	112.0	102.8	104.3	104.2	7.7	1.5	-1.5	-6.2	-1.3	4.8	4.2
Cunties	112.0	113.7	112.0	105.1	103.7	100.7	7.7	1.5	-1.5	-0.2	-1.3	4.0	4.2
													Capacity
					Perce	nt of capa	acity						growth
	Average	1988-	1990-	1994-	2001-								
	1972-	89	91	95	02	2009	2009	2010					May '09 to
Capacity utilization	2009	high	low	high	low	May	Dec.r	Jan. ^r	Feb. ^r	Mar. ^r	Apr.r	May ^p	May '10
	00.6	0.5.1	5 0.5	040		- CO - T	72.0	72 0	70 0	5 0.1	50.5		1.0
Total industry	80.6	85.1	78.7	84.9	73.5	68.5	72.0	72.8	72.8	73.1	73.7	74.7	-1.3
Previous estimates							71.9	72.8	72.8	73.1	73.7		
Manufacturing (see note below)	79.2	85.4	77.2	84.5	71.4	65.3	68.4	69.1	69.2	70.1	70.8	71.5	-1.4
Previous estimates	,,,,	05.1	,,,,_	01.5	/ 1	05.5	68.4	69.2	69.2	70.0	70.8	71.5	1.1
Mining	87.5	86.5	83.8	89.1	84.9	81.9	84.3	86.7	88.2	89.4	90.7	90.6	-1.0
Utilities	86.6	92.8	84.2	93.3	84.2	79.2	84.1	85.2	83.8	78.5	77.3	81.0	1.9
Oundes	00.0	72.0	04.2	75.5	04.2	17.2	04.1	05.2	05.0	10.5	11.3	01.0	1.7
Stage-of-process groups													
Crude	86.5	88.3	84.7	89.9	81.7	79.8	84.1	85.5	86.6	87.5	88.4	88.1	-1.6
Primary and semifinished	81.6	86.5	77.9	87.9	74.3	65.9	69.3	69.9	69.9	69.6	70.3	71.9	-1.3
Finished	77.5	83.0	77.2	80.3	70.0	67.0	70.1	71.1	70.8	71.6	71.8	72.4	6
r Revised in Preliminary													

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.

output of utilities increased 4.8 percent. The jump in utilities reflected unseasonably warm temperatures that boosted air conditioning usage in May after uncharacteristically temperate weather in April reduced heating demand. At 103.5 percent of its 2002 average, total industrial output in May was 7.6 percent above its year-earlier level. The capacity utilization rate for total industry rose 1.0 percentage point to 74.7 percent, a rate 6.2 percentage points above the rate from a year earlier but 5.9 percentage points below its average from 1972 to 2009.

Market Groups

The output of nearly all major market groups rose in May. The production of consumer goods increased 1.2 percent, boosted by higher output of both consumer durables and nondurables. Within consumer durables, which jumped 2.6 percent, large gains in the indexes for automotive products, home electronics, and miscellaneous goods were only slightly offset by a small loss in the index for appliances, furniture, and carpeting. The production of consumer nondurable goods moved up 0.8 percent. The output of non-energy nondurables rose 0.5 percent; all of the major categories for that index recorded increases except chemical products, which fell 1.1 percent. The output of consumer energy products moved up 1.6 percent, with gains in all of its components other than automotive gasoline, which fell sharply.

The output of business equipment rose 1.3 percent in May, a pace on par with the average monthly gain during the previous two months and somewhat above its average increase earlier in the recovery. The output of transit equipment climbed 2.5 percent following a decrease of 1.6 percent in April. The increase in May primarily resulted from higher output of trucks, which more than offset losses in civilian aircraft. Elsewhere in business equipment, the index for information processing equipment rose 0.9 percent, and the index for industrial and other equipment increased 1.2 percent. The output indexes for both of these categories have advanced substantially since last fall; gains in semiconductor manufacturing equipment and construction machinery have contributed significantly to the improvement in the industrial and other equipment category.

In May, the output of defense and space equipment moved down after four consecutive monthly increases. A strike at a producer of military cargo planes accounted for the loss.

Within nonindustrial supplies, the output of construction supplies increased 0.8 percent in May after two consecutive months of larger gains. The production of business supplies rose 1.7 percent in May, the second consecutive monthly increase after declining earlier in the year.

The output of materials to be further processed in the industrial sector increased 1.3 percent in May after having risen about 0.6 percent per month since the beginning of the year; the index in May was 9.2 percent above its year-earlier level. The production of durable materials climbed 2.0 percent, with widespread solid gains within consumer parts, equipment parts, and other durable materials. By contrast, the output of nondurable materials was unchanged in May, with a decline in chemical materials offsetting a small gain in paper materials and strong gains in both textile materials and other nondurable materials. The index for energy materials climbed 1.8 percent in May; most of its components advanced, with the notable exception of coal mining, which fell 5.9 percent.

Industry Groups

Manufacturing output rose 0.9 percent in May, the same pace as in April. Capacity utilization for manufacturing moved up 0.7 percentage point to 71.5 percent, a rate 6.4 percentage points above its trough in June 2009, but 7.7 percentage points below its average from 1972 to 2009.

The production index for durable goods advanced 1.7 percent in May; most major categories of durables strengthened. Sizable gains were recorded for wood products, primary metals, fabricated metal products, machinery, motor vehicles and parts, and furniture and related products.

The index for nondurable manufacturing was unchanged in May. Losses in chemicals, petroleum and coal products, and apparel and leather offset increases elsewhere. The largest gains among the major categories of nondurables were for printing and support, which advanced 1.7 percent, and for textile and product mills, which increased 1.4 percent. Production in the non-NAICS manufacturing industries (logging and publishing) rose 1.8 percent.

In May, mining output edged down 0.2 percent, and capacity utilization edged down to 90.6 percent, a rate 3.1 percentage points above its average for the period from 1972 to 2009. The small loss in mining production mainly reflected declines in coal mining and in stone, sand, and gravel quarrying. The output of utilities climbed 4.8 percent, and capacity utilization for utilities increased 3.7 percentage points to 81.0 percent, a rate 5.6 percentage points below its average for the period from 1972 to 2009.

Capacity utilization rates in May at industries grouped by stage of process were as follows: At the crude stage, utilization decreased 0.3 percentage point to 88.1 percent, a rate 1.6 percentage points above its average for the period from 1972 to 2009; at the primary and semifinished stages, utilization rose 1.6 percentage points to 71.9 percent, a rate 9.7 percentage points below its long-run average; and at the finished stage, utilization increased 0.6 percentage point to 72.4 percent, a rate 5.1 percentage points below its long-run average.

Tables

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

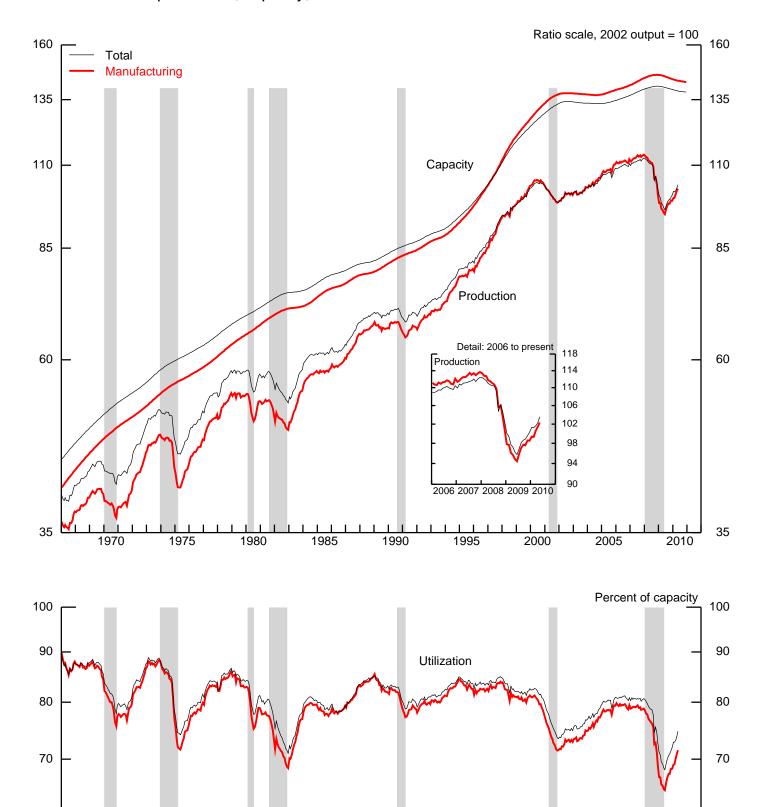
Revision of Industrial Production and Capacity Utilization

The Federal Reserve Board plans to issue on June 25, 2010, the annual revision to the index of industrial production (IP) and the related measures of capacity and capacity utilization. The base year for the IP index will be advanced to 2007 with this revision. The revised IP indexes will incorporate detailed data from the 2007 Economic Census and the 2008 Annual Survey of Manufactures, both conducted by the U.S. Census Bureau. Data from selected editions of the Census Bureau's 2008 and 2009 Current Industrial Reports will also be incorporated, as will annual data from the U.S. Geological Survey regarding metallic and nonmetallic minerals (except fuels) for 2008. The updating will include revisions to the monthly indicator (either product data or input data) and to seasonal factors for each industry. The annual revision will also introduce changes in the estimation methods for some series. Any changes to the methods for estimating the output of an industry will affect the index from 1972 to the present.

Capacity and capacity utilization will be revised to incorporate data from the Census Bureau's Quarterly Survey of Plant Capacity, which covers manufacturing, along with new data on capacity from the U.S. Geological Survey, the Department of Energy, and other organizations.

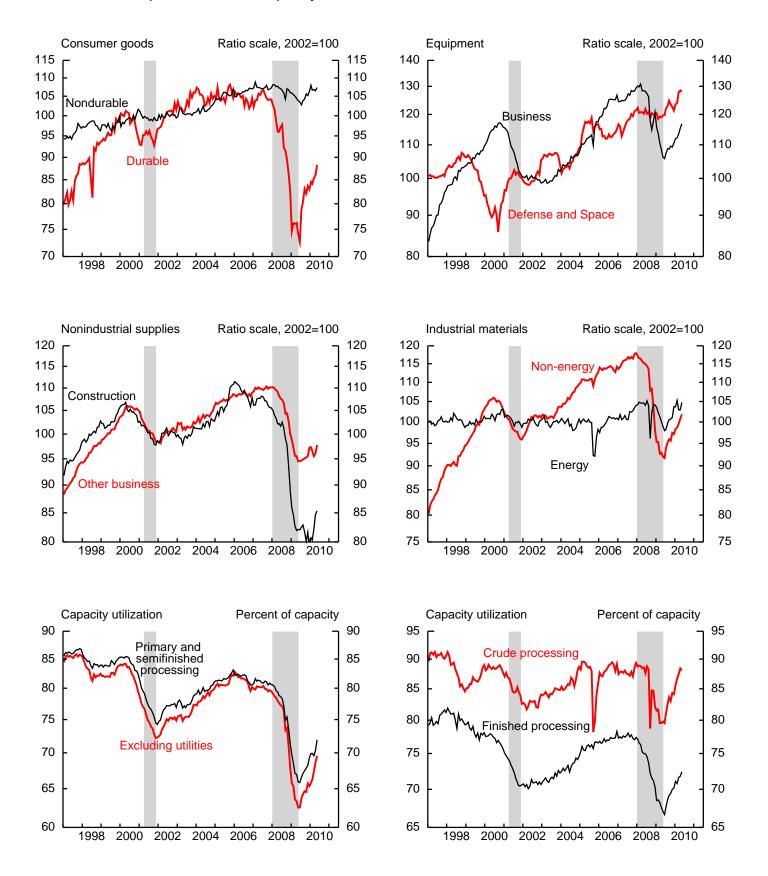
Once the revision is published, it will be available on the Board's website at www.federalreserve.gov/releases/G17. The revised data will also be available through the website of the Department of Commerce. Further information on the revision can be obtained from the Board's Industrial Output Section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

1. Industrial production, capacity, and utilization



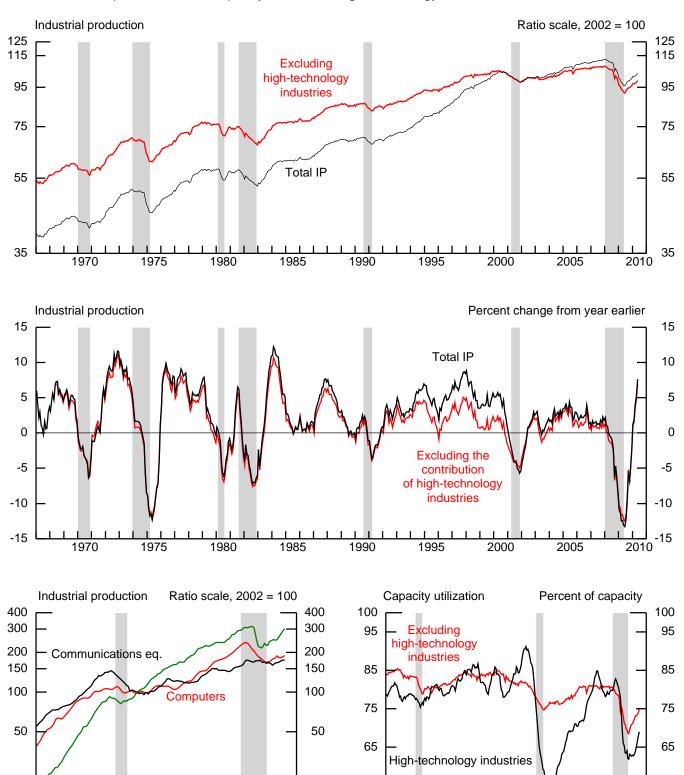
Notes: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER). The last shaded area begins with the peak as defined by the NBER and ends at the trough of a 3 month moving average of manufacturing IP.

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.

Semiconductors

Table 1 INDUSTRIAL PRODUCTION: MARKET AND INDUSTRY GROUP SUMMARY

				th quart ırth quar			ınual rat	te			Month	ıly rate			May '09
Item		2009 proportion ¹	2007	2008	2009	2009 Q3	Q4 ^r	2010 Q1 ^r	2009 Dec. ^r	2010 Jan. ^r	Feb.r	Mar.r	Apr.r	May ^p	to May '10
Total IP		100.00	1.8	-6.7	-4.7	6.4	6.9	7.6	.7	1.1	1	.3	.7	1.2	7.6
MARKET GROUPS															
Final products and nonindustrial supplie	es	59.43	.8	-5.8	-4.7	4.4	6.1	6.6	.7	1.3	6	.5	.6	1.2	6.6
Consumer goods		31.73	.2	-4.2	-1.3	5.7	9.0	6.1	.7	1.6	-1.0	.4	1	1.2	6.3
Durable		6.05 2.67	1.1	-17.2 -22.4	-3.8 3.4	39.4 113.9	11.1 21.8	8.9 14.3	8	2.0	5	1.4	.8 -1.1	2.6	19.1 36.1
Automotive products Home electronics		.32	15.3	1.6	-10.5	-18.1	16.2	-6.5	8	-2.2	-1.6 5	1.4	1.5	1.7	1.5
Appliances, furniture, carpeting		.95	-5.1	-20.4	-9.9	-8.0	.9	3.9	-3.2	.3	2.6	2.2	3.3	5	3.6
Miscellaneous goods		2.11	-1.0	-10.9	-9.1	5.8	1.0	6.0	.1	.9	2	1.2	2.3	2.3	9.4
Nondurable		25.68	1	4	8	-1.1	8.4	5.4	1.1	1.5	-1.2	.1	3	.8	3.4
Non-energy		19.54	9	-1.8	7	1.0	5.6	3.6	1	1.1	9	1.0	3	.5	3.0
Foods and tobacco		10.80	1.1	-1.2	.2	.9	6.0	6.6	.2	.8	.1	1.9	9	1.2	4.2
Clothing		.43	5	-6.7	-9.2	2.0	.7	34.1	2.1	5.8	.2	5	.8	.6	7.9
Chemical products		5.90	-4.2	-2.2	4	.4	4.1	.6	6	1.8	-2.5	.2	.1	-1.1	.6
Paper products		1.82	-1.8	-4.1	-5.4	2.0	7.6	-7.4	.0	8	-2.0	-1.0	.8	1.9	2.1
Energy		6.14	1.9	3.6	-1.3	-7.9	18.5	11.8	5.2	2.8	-1.8	-2.7	1	1.6	4.8
Business equipment		9.51	2.3	-8.4	-6.7	5.6	5.8	10.4	1.2	1.2	.2	1.1	1.6	1.3	10.1
Transit		1.58	-1.4	-29.0	11.6	34.9	1.1	-7.2	6	8	7	1.5	-1.6	2.5	9.2
Information processing		3.00	6.6	2.0	-2.8	3.5	6.9	13.4	1.0	.8	.8	1.8	1.0	.9	9.5
Industrial and other		4.93	1.1	-7.4	-13.7	-1.2	6.8	14.7	2.0	2.1	.2	.6	3.0	1.2	10.6
Defense and space equipment		1.98	5.7	5	2.0	13.4	-2.7	8.8	-1.0	1.8	.5	3.0	.6	4	7.0
Construction supplies Business supplies		4.73 10.94	-1.0 1.3	-11.6 -6.9	-14.0 -6.2	1.4	-9.1 4.9	3.4 2.0	-2.7 1.8	1.7 .1	5 8	2.3 -1.0	3.1 .6	.8 1.7	3.9 3.5
Materials		40.57	3.2	-7.9	-4.5	9.6	7.9	9.0	.6	.8	.7	.0	.8	1.3	9.2
Non-energy		27.79	3.5	-12.0	-6.4	12.9	7.2	9.2	3	1.2	.3	.9	1.2	1.1	10.7
Durable		14.88	4.7	-12.0	-12.6	15.3	8.0	14.9	.1	2.2	.2	1.8	1.8	2.0	15.7
Consumer parts		2.12	-2.2	-20.3	-17.1	51.8	13.8	2.8	6	.0	.0	1.6	.2	4.3	22.1
Equipment parts		5.47	10.3	-6.5	-10.9	5.3	4.7	19.8	.8	2.7	.9	2.1	1.8	1.5	13.5
Other		7.29	3.2	-12.9	-12.4	14.0	8.7	15.1	1	2.6	3	1.7	2.3	1.8	15.6
Nondurable		12.92	1.8	-12.0	2.0	10.3	6.3	2.9	7	.1	.5	1	.4	.0	5.1
Textile		.49	-6.9	-13.7	-3.4	-7.8	50.6	3.7	-1.2	9	1.2	7	2.2	2.1	14.9
Paper		2.38	-1.4	-10.8	-4.6	13.1	3.2	-4.2	-1.2	-2.0	.4	1.1	.6	.4	4.4
Chemical Energy		6.29 12.77	4.3	-15.8 .2	8.0 -1.7	17.3	4.3 9.6	4.7 8.7	3 2.7	.4 1	.5 1.5	3 -2.2	.7 1	9 1.8	6.3 5.9
		12.77	2.3	.2	1.7	2.1	7.0	0.7	2.7	.1	1.5	2.2		1.0	3.7
INDUSTRY GROUPS Manufacturing		79.76	1.9	-8.7	-5.0	8.4	5.6	6.3	1	.9	.0	1.2	.9	.9	7.9
Manufacturing (NAICS)	31–33	76.15	2.0	-8.7	-4.6	9.0	5.6	7.1	1	1.0	.1	1.3	.9	.8	8.4
Durable manufacturing		36.38	3.2	-11.1	-8.5	14.8	6.3	9.9	.0	1.6	1	1.6	1.5	1.7	12.7
Wood products	321	.89	-7.5	-20.7	-11.9	9.2	-5.9	-1.5	-1.0	1.0	-1.5	.7	2.5	3.7	7.6
Nonmetallic mineral products	327	2.21	-1.2	-10.3	-14.4	14.8	-16.9	-3.6	-5.8	3.6	-3.4	2.1	4.1	.4	3.1
Primary metal	331	1.73	4.3	-26.8	-5.1	93.8	45.8	34.4	4.5	1.2	.7	3.2	.7	2.3	49.5
Fabricated metal products	332	5.66	3.3	-7.0	-15.4	-1.8	6.5	11.1	.2	1.3	.5	1.5	1.7	1.9	9.4
Machinery	333	4.53	-1.0	-10.6	-17.5	-5.0	11.0	21.5	3.4	2.5	.6	.3	3.9	2.0	13.4
Computer and electronic products	334	6.67	11.0	-2.6	-2.3	8.4	7.8	17.9	1.0	1.4	1.5	2.4	1.6	1.4	14.2
Electrical equip., appliances,	225	2.05	3.3	-2.9	10 6	1 6	2.0	115	-2.5	4.0	5	2.0	2.2	8	C 1
and components Motor vehicles and parts	335 3361–3	2.05 3.71	-1.9	-23.3	-10.6 -7.2	-1.6 122.4	2.0	11.5 11.2	-2.5	2.7	5 -1.8	2.0	3.2	8 5.5	6.4
Aerospace and miscellaneous	3301-3	3./1	-1.9	-23.3	-1.2	122.4	24.3	11.2	1	2.1	-1.0	1.0	-1.4	5.5	39.1
transportation equipment	3364–9	4.02	11.1	-12.7	2.5	8.0	-9.6	-3.0	-1.3	.5	4	1.4	2	8	-1.0
Furniture and related products	3304–9	1.24	-2.6	-12.7	-16.4	-9.5	-9.0 -6.6	-3.0	-1.5	.3 -1.4	1.7	1.4	1.2	2.4	-1.0
Miscellaneous	339	3.66	2.9	-2.3	-10.4	5.8	6.8	-3.5	-1.8	.3	-1.3	.6	1.1	1.3	4.7
Nondurable manufacturing		20.77	.8	-6.3	0	3.8	4.9	4.5	3	.4	2	1.0	.4	.0	4.5
Food, beverage, and tobacco products	311,2	39.77 13.12	1.9	-6.3 -1.6	8 .6	5.8 2	7.3	6.8	5	.4 .9	.3 .2	1.0 1.6	.4 9	1.0	3.7
Textile and product mills	311,2	.87	-7.3	-13.8	-7.0	-4.2	28.0	2.3	5	3	.3	6	1.2	1.0	8.8
Apparel and leather	315,4	.56	-7.3	-8.2	-10.7	-3.4	5.6	28.0	2.8	5.1	-1.0	-1.1	1.0	2	4.5
Paper	322	2.76	-2.1	-10.9	-2.2	16.0	.9	.0	-2.1	-1.9	2.0	1.1	5	2 .5	5.0
Printing and support	323	1.77	-1.5	-9.6	-12.3	-1.0	-4.0	-7.0	.0	4	-1.5	5	1.5	1.7	2
Petroleum and coal products	324	4.22	.3	.5	-3.6	3	-7.4	-4.3	-2.7	-3.6	4.6	4.5	2.7	-2.2	2.9
Chemical	325	13.47	.7	-9.8	3.2	7.7	5.5	4.5	.1	1.3	-1.0	2	.3	8	3.7
Plastics and rubber products	326	3.00	4.5	-11.9	-7.3	6.7	12.2	14.2	.9	1.5	.7	1.3	2.9	.9	13.7
Other manufacturing (non-NAICS)	1133,5111	3.61	-1.8	-8.8	-12.8	-3.1	5.1	-10.5	.4	-1.8	-2.6	2	.4	1.8	8
Mining	21	8.35	.3	.8	-6.4	5.8	5.0	17.2	-1.6	2.9	1.7	1.2	1.5	2	9.6
Utilities	2211,2	11.89	3.1	.3	-1.4	-5.5	17.3	10.3	7.7	1.5	-1.5	-6.2	-1.3	4.8	4.2
Electric	2211	10.00	3.5	8	-1.7	-9.1	17.0	11.7	6.6	1.0	9	-5.6	-1.2	5.3	4.2
Natural gas	2212	1.89	1.6	5.9	.5	17.7	18.7	3.2	13.5	4.4	-4.8	-9.6	-1.8	2.3	4.2

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 the relative weights for the rates of change for each series in the computation of the change in total industrial production in the following year.

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

Percent change, seasonally adjusted																
			1	rth quart												
			fo	urth quar	ter		nnual ra				Montl	nly rate			May '09	
Item		2009	2007	2000	2000	2009	0.41	2010	2009	2010	E-1 I	Mani	Δ Γ	M D	to Man, 110	
		proportion	2007	2008	2009	Q3	Q4 ^r	Q1 ^r	Dec. ^r	Jan. ^r	Feb. ^r	Mar. ^r	Apr.r	May ^p	May '10	
Total industry		100.00	1.8	-6.7	-4.7	6.4	6.9	7.6	.7	1.1	1	.3	.7	1.2	7.6	
Energy		22.73	2.1	1.3	-3.0	-1.7	12.7	11.0	4.1	.8	.4	-2.4	.0	1.9	6.1	
Consumer products		6.14	1.9	3.6	-1.3	-7.9	18.5	11.8	5.2	2.8	-1.8	-2.7	1	1.6	4.8	
Commercial products		3.31	1.9	.5	-1.5	-2.8	6.9	4.8	7.3	9	3	-4.5	1	3.5	3.2	
Oil and gas well drilling	213111	.50	7	6.9	-42.2	-9.3	78.1	129.7	7.5	8.2	5.8	5.8	4.0	.0	53.5	
Converted fuel		4.54	5.7	-4.4	3	2.0	21.3	10.3	5.8	3	.4	-4.2	8	4.0	7.9	
Primary energy		8.24	1.2	2.0	-2.8	2.2	3.1	7.6	.8	.0	2.2	-1.0	.4	.6	4.6	
Non-energy		77.27	1.7	-9.4	-5.4	8.8	5.3	6.7	3	1.2	2	1.1	.9	1.0	8.1	
Selected high-technology industries		3.66	18.2	-6.9	-2.1	11.6	9.9	19.9	1.4	1.2	2.2	2.4	2.1	1.7	18.0	
Computers and peripheral equipment	3341	.84	24.2	-11.9	-4.5	19.2	23.7	-1.7	3.0	-2.3	8	.4	1.6	1.9	14.5	
Communications equipment	3342	1.38	6.6	10.4	-4.0	-11.3	5.1	14.4	.5	.6	1.9	1.7	.6	.1	5.1	
Semiconductors and related																
electronic components	334412–9	1.44	22.3	-15.0	1.0	32.3	6.7	39.7	1.2	3.9	4.0	4.2	3.7	3.0	32.8	
Employees and set all the books about any																
Excluding selected high-technology		72.61	7	0.5	5 6	06	5 1	6.0	4	1.2	4	1.1	0	1.0	7.6	
industries		73.61	.7	-9.5	-5.6	8.6	5.1	6.0	4	1.2	4	1.1	.8	1.0	7.6	
Motor vehicles and parts	3361-3	3.71	-1.9	-23.3	-7.2	122.4	24.3	11.2	1	2.7	-1.8	1.6	-1.4	5.5	39.7	
Motor vehicles	3361	1.46	-1.9	-30.3	-1.2	329.4	44.3	22.6	2	5.3	-4.2	3.9	-2.8	9.2	80.9	
Motor vehicle parts	3363	2.03	.3	-14.8	-12.3	41.0	9.4	1.9	.1	.8	8	1	6	2.5	14.6	
Excluding motor vehicles and parts	1	69.90	.9	-8.5	-5.5	4.6	4.0	5.7	4	1.1	3	1.0	1.0	.7	6.0	
Consumer goods		22.98	-1.1	-4.2	-2.2	1.2	4.6	3.9	3	1.1	7	1.1	.1	.6	3.5	
Business equipment		7.74	2.3	-8.8	-6.0	2.7	3.9	10.0	1.1	1.5	.2	.9	1.9	.8	8.1	
Construction supplies		4.69	-1.0	-11.8	-14.1	1.6	-9.2	3.3	-2.8	1.7	5	2.3	3.1	.8	3.9	
Business supplies Materials		7.39	2.4	-9.8	-8.5	.6	3.8 6.8	1 8.1	5	.4	-1.1 .2	.4 .8	.8 1.1	1.0	3.0 8.9	
Materiais		25.11	2.4	-11.2	-6.0	9.6	0.8	0.1	4	1.1	.2	.0	1.1	.0	0.9	
Measures excluding selected high-technology industries		0624	1.1		4.0			7.1		1.1				1.2	7.0	
Total industry		96.34	1.1	-6.7	-4.8	6.2	6.7	7.1	.6	1.1	2	.2	.6	1.2	7.2	
Manufacturing ¹ Durable		76.10 32.86	.9 1.4	-8.9	-5.2 -9.3	8.2 15.1	5.4 5.7	5.6 9.0	2 1	.9 1.7	2 4	1.2 1.5	.8 1.4	.8 1.7	7.5 12.1	
Durable		32.80	1.4	-11.7	-9.3	15.1	3.7	9.0	1	1.7	4	1.3	1.4	1./	12.1	
Measures excluding motor vehicles and parts																
Total industry		96.29	2.0	-5.9	-4.6	3.4	6.1	7.4	.7	1.0	.0	.3	.8	1.1	6.5	
Manufacturing ¹		76.04	2.1	-7.8	-4.9	4.7	4.6	6.0	1	.8	.1	1.2	1.0	.6	6.6	_
Durable		32.80	4.0	-9.3	-8.7	6.5	4.0	9.9	.0	1.5	.1	1.6	1.9	1.3	10.0	
Measures excluding selected high-technology industries																
and motor vehicles and parts		02.62	1.2	F 0	4.7	2.1	60	6.0	7	1.0	1	2	7	1.0	6.0	
Total industry		92.63	1.2	-5.8	-4.7	3.1	6.0	6.9	.7	1.0	l	.2	1.0	1.0	6.0	
Manufacturing ¹		72.38	1.1	-7.8	-5.1	4.3	4.4	5.3	2	.8	1	1.1	1.0	.6	6.0	
Stage-of-process components of non-energy materials, measures of the input to Finished processors		10.46	4.0	-11.1	-10.7	14.4	8.0	9.6	.0	.9	.6	1.6	1.2	1.9	13.1	
Primary and semifinished processors		17.33	3.2	-12.5	-3.6	12.0	6.7	8.9	4	1.4	.1	.5	1.2	.6	9.2	

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

winnons of units, seasonarry adjusted annual rate												
	2009	2009			2010	2009	2010					
Item	average	Q2	Q3	Q4	Q1	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Total	5.71	4.52	6.54	7.18	7.48	7.25	7.60	7.34	7.50	7.27	8.02	
Autos	2.20	1.89	2.46	2.73	2.79	2.75	2.76	2.82	2.79	2.79	3.17	_
Trucks	3.51	2.64	4.08	4.44	4.69	4.50	4.84	4.52	4.71	4.48	4.85	
Light	3.38	2.53	3.95	4.29	4.55	4.35	4.69	4.39	4.57	4.37	4.70	
Medium and heavy	.13	.11	.12	.15	.14	.16	.15	.13	.15	.12	.15	
Memo												
Autos and light trucks	5.58	4.41	6.42	7.03	7.34	7.09	7.45	7.21	7.36	7.16	7.87	

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

2002 = 100, seasonally adjusted											
Item		2009 proportion	2009 Sept.	Oct.	Nov.	Dec.r	2010 Jan. ^r	Feb.r	Mar.r	Apr.r	May ^p
Total IP		100.00	98.7	98.9	99.6	100.2	101.3	101.3	101.6	102.3	103.5
Market Groups											
Final products and nonindustrial supplies		59.43	98.9	99.4	99.6	100.3	101.6	101.0	101.5	102.2	103.4
Consumer goods		31.73	99.4	100.3	100.3	101.0	102.6	101.5	101.9	101.9	103.4
Durable		6.05	83.0	82.1	83.6	83.0	84.6	84.1	85.3	86.0	88.3
Automotive products		2.67	81.7	79.7	81.9	81.3	84.3	82.9	84.0	83.1	86.4
Home electronics		.32	153.5	156.9	159.1	159.1	155.5	154.8	156.9	159.3	161.9
Appliances, furniture, carpeting		.95	67.8	67.8	68.7	66.5	66.6	68.4	69.9	72.2	71.8
Miscellaneous goods Nondurable		2.11 25.68	84.9 104.3	84.8 105.7	85.6 105.2	85.6 106.4	86.4 107.9	86.2 106.7	87.2 106.8	89.2 106.5	91.2 107.3
Non-energy		19.54	104.3	103.7	103.2	100.4	107.9	100.7	105.3	100.5	107.5
Foods and tobacco		10.80	107.2	107.9	107.8	108.0	108.9	109.0	111.1	110.1	111.4
Clothing		.43	58.1	56.8	57.4	58.6	62.0	62.2	61.9	62.4	62.7
Chemical products		5.90	108.4	108.8	110.0	109.3	111.3	108.5	108.8	108.9	107.7
Paper products		1.82	85.1	84.5	85.9	85.9	85.2	83.5	82.7	83.4	85.0
Energy		6.14	106.6	111.6	107.5	113.1	116.3	114.2	111.1	111.0	112.7
Business equipment		9.51	108.8	109.6	109.3	110.6	112.0	112.3	113.5	115.4	116.9
Transit		1.58	100.4	99.8	97.7	97.1	96.4	95.7	97.1	95.6	98.0
Information processing Industrial and other		3.00 4.93	151.3 91.2	151.6 92.7	154.2 91.8	155.8 93.6	157.0 95.6	158.2 95.8	161.1 96.4	162.7 99.3	164.1 100.5
Defense and space equipment		1.98	124.8	123.6	122.5	121.3	123.4	124.0	127.8	128.5	128.1
Construction annualis		4.72	01.7	90.2	01.6	70.4	90.7	00.2	92.2	047	05.2
Construction supplies Business supplies		4.73 10.94	81.7 95.1	80.2 95.3	81.6 95.5	79.4 97.2	80.7 97.3	80.3 96.6	82.2 95.6	84.7 96.1	85.3 97.8
Materials		40.57	98.5	98.3	99.7	100.3	101.2	101.9	101.8	102.6	104.0
Non-energy		27.79	95.9	95.6	97.4	97.1	98.3	98.7	99.6	100.7	101.8
Durable		14.88	95.2	95.1	96.4	96.5	98.7	98.8	100.6	102.4	104.5
Consumer parts		2.12	60.3	60.3	61.2	60.9	60.9	60.9	61.9	62.0	64.6
Equipment parts		5.47	142.0	141.7	141.8	142.9	146.8	148.1	151.2	153.9	156.3
Other		7.29	83.1	83.0	84.8	84.7	86.9	86.6	88.1	90.1	91.7
Nondurable Textile		12.92	94.6 57.2	94.1 61.1	96.5 65.0	95.8 64.3	95.8 63.7	96.3 64.4	96.2 64.0	96.6 65.4	96.6 66.8
Paper		2.38	82.9	81.8	84.6	83.6	81.9	82.3	83.2	83.7	84.0
Chemical		6.29	105.6	104.2	106.4	106.1	106.6	107.0	106.7	107.5	106.5
Energy		12.77	100.5	100.7	101.1	103.8	103.7	105.3	103.0	102.9	104.8
INDUSTRY GROUPS											
Manufacturing		79.76	97.7	97.6	98.6	98.5	99.4	99.3	100.5	101.4	102.3
Manufacturing (NAICS)	31–33	76.15	99.1	99.0	100.0	99.9	100.9	101.0	102.3	103.2	104.1
Durable manufacturing	221	36.38	98.4	98.2	99.2	99.2	100.8	100.7	102.2	103.8	105.6
Wood products Nonmetallic mineral products	321 327	.89 2.21	67.4 84.3	66.3 81.2	66.5 83.8	65.8 79.0	66.4 81.9	65.4 79.1	65.9 80.8	67.6 84.1	70.1 84.4
Primary metal	331	1.73	73.3	74.1	78.3	81.8	82.8	83.3	86.0	86.6	88.6
Fabricated metal products	332	5.66	88.2	88.3	89.3	89.5	90.7	91.1	92.5	94.0	95.8
Machinery	333	4.53	82.8	84.8	84.0	86.9	89.1	89.6	89.8	93.3	95.1
Computer and electronic products	334	6.67	175.1	176.0	177.6	179.3	181.8	184.5	188.9	191.9	194.6
Electrical equip., appliances,											
and components	335	2.05	90.9	91.4	91.9	89.7	93.2	92.8	94.6	97.6	96.8
Motor vehicles and parts Aerospace and miscellaneous	3361–3	3.71	68.7	67.1	68.7	68.6	70.4	69.2	70.3	69.3	73.1
transportation equipment	3364–9	4.02	117.0	115.2	113.2	111.7	112.3	111.9	113.4	113.1	112.3
Furniture and related products	337	1.24	69.6	69.0	68.9	68.5	67.5	68.6	69.9	70.7	72.4
Miscellaneous	339	3.66	114.5	115.1	117.5	115.4	115.8	114.2	114.9	116.2	117.7
Nondurable manufacturing		39.77	98.6	98.6	99.6	99.4	99.8	100.0	101.1	101.4	101.5
Food, beverage, and tobacco products	311,2	13.12	107.5	108.5	108.8	108.8	109.8	110.0	111.7	110.7	111.8
Textile and product mills	313,4	.87	59.3	61.5	63.6	63.3	63.1	63.3	63.0	63.7	64.6
Apparel and leather	315,6	.56	63.6	63.4	64.1	65.9	69.3	68.6	67.9	68.5	68.4
Paper	322	2.76	83.7	81.7	85.7	83.9	82.4	84.0	85.0	84.6	85.0
Printing and support	323	1.77	79.2	79.3	78.7	78.7	78.4	77.2	76.9 100.4	78.0	79.4
Petroleum and coal products Chemical	324 325	4.22 13.47	108.9 105.7	107.1 105.0	106.7 106.6	103.9 106.7	100.1 108.1	104.7 107.0	109.4 106.8	112.4 107.1	110.0 106.2
Plastics and rubber products	326	3.00	84.4	85.4	86.2	87.0	88.3	88.9	90.1	92.7	93.5
Other manufacturing (non-NAICS)	1133,5111	3.61	74.4	74.0	75.3	75.6	74.2	72.3	72.2	72.5	73.8
Mining	21	8.35	96.8	96.7	98.6	97.0	99.9	101.6	102.8	104.3	104.2
Utilities	2211,2	11.89	103.9	106.7	104.1	112.0	113.7	112.0	105.1	103.7	108.7
	2211	10.00	105.0	106.3	1062	113.4	1115	113.5	107.2	105.0	111.5
Electric Natural gas	2212	1.89	99.4	100.3	106.3 93.3	105.9	114.5 110.6	105.3	95.1	105.9 93.4	95.6

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

 Table 5

 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

 2002 = 100, seasonally adjusted

002 = 100, scasonary adjusted											
Item		2009 proportion	2009 Sept.	Oct.	Nov.	Dec.r	2010 Jan. ^r	Feb. ^r	Mar. ^r	Apr.r	May ^p
Total industry		100.00	98.7	98.9	99.6	100.2	101.3	101.3	101.6	102.3	103.5
Energy		22.73	102.9	104.4	103.3	107.6	108.5	108.9	106.3	106.3	108.3
Consumer products		6.14	102.5	111.6	107.5	113.1	116.3	114.2	111.1	111.0	112.7
Commercial products	213111	3.31	112.1 93.8	112.7 96.9	109.9 104.4	117.9 112.2	116.8 121.4	116.5	111.2 136.0	111.1	115.0 141.4
Oil and gas well drilling	213111							128.5		141.4	
Converted fuel		4.54	101.4	102.1	102.4	108.4	108.1	108.5	104.0	103.1	107.2
Primary energy		8.24	99.6	99.4	99.8	100.6	100.7	102.9	101.9	102.3	102.9
Non-energy		77.27	96.6	96.5	97.6	97.3	98.5	98.2	99.3	100.2	101.3
Selected high-technology industries		3.66	207.2	209.7	210.6	213.5	216.2	220.8	226.2	231.0	234.9
Computers and peripheral equipment	3341	.84	177.6	180.0	182.1	187.5	183.2	181.7	182.4	185.3	188.8
Communications equipment	3342	1.38	160.0	163.2	165.9	166.8	167.9	171.1	174.0	175.0	175.2
Semiconductors and related											
electronic components	334412-9	1.44	248.9	250.0	247.3	250.4	260.2	270.7	282.1	292.4	301.1
Excluding selected high-technology industries		73.61	91.5	91.3	92.4	92.0	93.1	92.8	93.8	94.6	95.5
Motor vehicles and parts	3361-3	3.71	68.7	67.1	68.7	68.6	70.4	69.2	70.3	69.3	73.1
Motor vehicles	3361	1.46	67.7	64.2	67.4	67.3	70.8	67.9	70.6	68.6	74.9
Motor vehicle parts	3363	2.03	70.0	69.9	70.1	70.2	70.8	70.2	70.1	69.7	71.5
Excluding motor vehicles and parts		69.90	93.4	93.3	94.4	94.0	95.1	94.8	95.8	96.7	97.4
Consumer goods		22.98	98.6	98.9	99.5	99.2	100.3	99.6	100.7	100.7	101.4
Business equipment		7.74	101.7	102.5	101.8	102.9	104.4	104.6	105.5	107.6	108.4
Construction supplies		4.69	81.2	79.7	81.1	78.9	80.2	79.8	81.6	84.1	84.8
Business supplies		7.39	85.1	85.1	86.4	85.9	86.3	85.3	85.7	86.4	87.2
Materials		25.11	90.6	90.3	92.2	91.8	92.9	93.0	93.8	94.8	95.6
Measures excluding selected high-technology											
industries Tatal in dustries		06.24	04.6	04.8	05.4	06.1	07.1	07.0	07.3	07.9	00.0
Total industry		96.34	94.6	94.8	95.4	96.1	97.1	97.0	97.2	97.8	99.0
Manufacturing ¹		76.10	92.7	92.5	93.5	93.3	94.1	94.0	95.1	95.9	96.7
Durable		32.86	88.3	87.9	88.9	88.7	90.2	89.9	91.2	92.5	94.1
Measures excluding motor vehicles and parts											
Total industry		96.29	100.5	100.8	101.4	102.2	103.2	103.2	103.5	104.3	105.4
Manufacturing ¹ Durable		76.04 32.80	100.1 104.1	100.1 104.1	101.0 105.0	100.9 105.0	101.7 106.6	101.8 106.7	103.0 108.4	104.0 110.4	104.7 111.8
Measures excluding selected high-technology											-11.0
industries and motor vehicles and parts											
Total industry		92.63	96.2	96.4	97.0	97.7	98.7	98.6	98.8	99.5	100.5
Manufacturing ¹		72.38	94.6	94.6	95.5	95.3	96.1	96.0	97.1	98.0	98.6
Stage-of-process components of non-energy											
materials, measures of the input to Finished processors Primary and semifinished processors		10.46 17.33	98.9 92.9	98.8 92.4	100.2 94.4	100.2 94.1	101.1 95.4	101.7 95.5	103.4 96.0	104.6 97.1	106.6 97.7

Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

ercent Item	Jan.	Feb.	Mar.	Apr	May	Luno	July	Δ11α	Sept.	Oct.	Nov.	Dec.
Item	Jan.	reu.	Mai.	Apr.	May	June	July	Aug.	зері.	Oct.	NOV.	Dec.
One month earlier												
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	33.0	41.5	33.0	45.8	39.4	42.6	61.5	61.2	57.1	55.4	65.4	49.4
2010	62.5	51.6	64.4	66.3								
Three months earlier												
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	16.3	20.2	30.4	38.8	34.5	37.8	47.1	59.6	64.7	60.6	64.1	55.8
2010	63.8	57.7	65.7	64.1								
Six months earlier												
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	16.0	16.0	21.8	17.9	20.5	31.7	39.1	43.6	53.8	52.6	62.5	67.3
2010	64.7	62.2	63.1	69.9								

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.

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1. Refer to note on cover page.

Table 7
CAPACITY UTILIZATION
Percent of capacity, seasonally adjusted

Item		2009	1972- 2009	1994- 95	2001- 02	2009		2010	2009	2010				
Ttem		proportion	ave.	high	low	Q3	Q4 ^r	Q1 ^r	Dec. ^r	Jan. ^r	Feb.r	Mar.r	Apr.r	May
Total industry		100.00	80.6	84.9	73.5	70.0	71.4	72.9	72.0	72.8	72.8	73.1	73.7	74.
Manufacturing ¹		82.66	79.2	84.5	71.4	67.0	68.2	69.5	68.4	69.1	69.2	70.1	70.8	71.
Manufacturing (NAICS)	31–33	78.77	79.0	84.6	70.9	67.2	68.4	69.8	68.6	69.4	69.5	70.5	71.2	71.
Durable manufacturing		41.62	77.3	83.7	67.8	60.7	61.8	63.4	62.0	63.1	63.1	64.1	65.1	66
Wood products	321	1.27	78.4	87.5	70.4	50.3	50.0	50.5	49.9	50.7	50.1	50.7	52.3	54
Nonmetallic mineral products	327	2.69	77.1	82.5	70.4	57.1	54.8	54.3	53.3	55.1	53.3	54.4	56.6	56
Primary metal	331	2.31	79.7	94.7	68.0	53.3	58.7	63.5	61.6	62.5	63.0	65.1	65.6	67
Fabricated metal products	332	6.06	77.1	85.5	69.4	62.7	64.1	66.2	64.5	65.5	66.0	67.1	68.3	69
Machinery	333	5.26	78.1	87.9	62.8	57.0	58.8	62.0	60.1	61.7	62.1	62.3	64.8	66
Computer and electronic products	334	7.40	77.9	84.4	58.8	63.9	64.1	66.3	64.4	65.3	66.1	67.6	68.6	69
Electrical equip., appliances,	225	4.00	00.0	00.4	50.4	50.0	5 0.5	72 0	-0-	50 6	50.0	50. 0	=	
and components	335	1.98	82.9	93.1	72.1	70.0	70.6	72.9	69.6	72.6	72.3	73.9	76.4	75
Motor vehicles and parts	3361–3	5.77	75.8	88.7	69.2	48.4	51.8	53.8	52.4	54.0	53.2	54.2	53.7	56
Aerospace and miscellaneous	2264 0	2.60	72.2	60.6	61.1	75.6	72.7	72.0	72.7	72.0	72.6	72.5	72.2	72
transportation equipment Furniture and related products	3364–9 337	3.69	73.2 77.9	68.6 83.1	64.4 68.3	75.6 57.6	73.7 57.5	73.0 58.4	72.7 57.6	72.9 57.1	72.6 58.4	73.5 59.8	73.2 60.9	62
Miscellaneous	339	1.45 3.74	76.3	81.3	71.0	67.9	69.0	68.1	68.7	68.7	67.7	68.0	68.6	69
Miscenaneous	339	3.74	/0.3	81.3	/1.0	67.9	09.0	08.1	08.7	08.7	07.7	08.0	08.0	05
Nondurable manufacturing		37.15	81.3	85.7	75.0	74.2	75.5	76.7	75.8	76.2	76.5	77.4	77.7	7
Food, beverage, and tobacco products	311,2	11.73	81.4	85.0	75.6	76.4	77.9	79.1	78.0	78.6	78.8	80.0	79.2	79
Textile and product mills	313,4	.99	81.0	91.7	68.7	59.5	64.4	65.9	65.3	65.5	66.1	66.1	67.3	68
Apparel and leather	315,6	.59	79.1	88.1	63.6	65.7	67.5	72.8	69.3	73.2	72.9	72.4	73.5	73
Paper	322	2.62	87.2	92.7	78.8	73.6	74.2	74.6	74.5	73.2	74.8	75.7	75.5	76
Printing and support	323	1.81	83.0	87.0	72.7	67.7	68.2	67.9	68.5	68.4	67.6	67.6	68.8	70
Petroleum and coal products	324	3.49	86.0	91.1	86.0	84.3	82.8	82.0	81.2	78.3	81.9	85.6	88.0	86
Chemical	325	12.83	78.0	81.1	69.5	72.0	73.4	74.4	73.9	74.9	74.2	74.0	74.3	73
Plastics and rubber products	326	3.09	83.1	92.2	74.6	66.7	69.3	72.5	70.2	71.6	72.4	73.7	76.1	77
Other manufacturing (non-NAICS)	1133,5111	3.89	83.7	83.0	79.8	62.8	63.8	62.1	64.4	63.2	61.6	61.5	61.8	62
Mining	21	7.18	87.5	89.1	84.9	83.2	84.5	88.1	84.3	86.7	88.2	89.4	90.7	90
Utilities	2211,2	10.16	86.6	93.3	84.2	78.1	80.9	82.5	84.1	85.2	83.8	78.5	77.3	81
Selected high-technology industries		4.22	77.8	86.5	56.5	62.9	63.0	65.2	63.2	63.9	65.1	66.5	67.9	69
Computers and peripheral equipment	3341	.93	77.8	87.3	66.8	65.5	67.8	67.6	69.0	67.8	67.3	67.8	69.3	71
Communications equipment	3342	1.45	76.0	82.9	41.6	66.5	66.2	68.1	66.4	66.9	68.1	69.2	69.7	69
Semiconductors and related														
electronic components	334412–9	1.84	80.0	91.7	58.0	60.0	59.3	63.2	59.0	61.1	63.1	65.4	67.5	69
Measures excluding selected high-technology industries														
Total industry		95.78	80.8	84.9	74.7	70.3	71.7	73.2	72.3	73.2	73.1	73.4	73.9	74
Manufacturing ¹		78.44	79.3	84.4	72.7	67.2	68.4	69.7	68.7	69.4	69.4	70.3	70.9	71
STAGE-OF-PROCESS GROUPS														
Crude		11.83	86.5	89.9	81.7	82.4	83.8	86.5	84.1	85.5	86.6	87.5	88.4	88
Primary and semifinished		47.38	81.6	87.9	74.3	67.0	68.5	69.8	69.3	69.9	69.9	69.6	70.3	71
														72
Finished		40.79	77.5	80.3	70.0	68.5	69.8	71.2	70.1	71.1	70.8	71.6	71.8	

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1. Refer to note on cover page.

Table 8 INDUSTRIAL CAPACITY

Percent change

													Monthly
			nnual rate		Fourth	quarter to	o fourth q	uarter		Annua			rate
Item	1972-	1980-	1989-	1995-					2009		2010		2010
	79	88	94	2010	2007	2008	2009	2010	Q3	Q4	Q1	Q2	May
Total industry	3.1	1.9	2.3	2.5	2.0	1.1	9	8	-1.3	-1.4	-1.2	-1.1	1
Manufacturing ¹	3.3	2.2	2.5	2.8	2.2	1.3	-1.2	-1.0	-1.5	-1.7	-1.4	-1.1	1
Mining Utilities	.7 4.2	.0 2.2	8 1.8	3 2.2	1.4 1.3	1.1 2.3	7 1.8	.3 2.1	-1.3 1.8	-1.5 1.9	7 2.0	5 2.0	.0 .2
Selected high-technology industries	19.8	17.3	15.6	20.9	22.9	6.3	8.4	1.2	9.8	9.7	4.3	1.5	.0
Manufacturing ¹ ex. selected high-technology industries	2.6	1.3	1.6	1.2	1.0	1.0	-1.6	-1.1	-2.1	-2.2	-1.6	-1.2	1
STAGE-OF-PROCESS GROUPS Crude	1.7	.3	4	.0	1.4	1.2	-1.2	7	-1.8	-1.9	-1.4	-1.4	1
Primary and semifinished	3.0	1.4	2.5	2.9	2.0	.8	-1.0	-1.1	-1.2	-1.3	-1.3	-1.3	1
Finished	3.9	3.3	2.7	2.8	2.4	2.2	6	.0	-1.0	-1.0	5	.0	.0

^{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, seaso	marry adjusted										
			2009		2010	2009	2010				
Item	2000	2009	Q3	Q4 ^r	Q1 ^r	Dec. ^r	Jan. ^r	Feb.r	Mar. ^r	Apr.r	May ^p
Final products and nonindustrial											
supplies	2,815.3	2,699.8	2,694.2	2,738.1	2,785.5	2,754.3	2,785.6	2,776.4	2,794.4	2,810.7	2,843.7
Final products	2,106.9	2,077.8	2,075.0	2,119.9	2,161.1	2,130.5	2,158.7	2,152.3	2,172.2	2,179.3	2,204.1
Consumer goods	1,475.5	1,483.2	1,484.6	1,519.7	1,544.2	1,526.3	1,546.2	1,538.1	1,548.3	1,547.8	1,563.9
Durable	472.7	363.0	380.3	394.4	404.3	395.0	404.7	400.9	407.2	408.6	421.3
Automotive products	278.7	204.6	223.9	237.0	245.4	238.1	247.2	242.6	246.4	243.3	254.2
Other durable goods	194.0	158.4	156.7	157.8	159.4	157.3	158.1	158.8	161.3	165.7	167.5
Nondurable	1,002.9	1,084.3	1,071.9	1,093.0	1,107.9	1,098.7	1,109.4	1,104.9	1,109.4	1,107.7	1,112.6
Equipment, total	631.4	593.6	588.8	597.9	615.6	602.0	610.4	612.8	623.5	632.4	641.5
Business and defense	615.0	587.6	585.0	592.1	606.1	595.0	602.2	603.3	612.7	620.8	630.0
Business	560.4	511.7	506.9	515.2	528.1	519.4	525.4	526.1	532.9	540.8	551.1
Defense and space	54.5	72.7	74.2	73.6	74.9	72.8	73.9	74.3	76.4	76.8	76.3
Nonindustrial supplies	708.4	626.3	623.7	624.3	631.2	629.7	633.4	630.7	629.6	638.1	646.2
Construction supplies	211.8	165.7	166.5	163.0	164.7	161.2	164.0	163.2	166.9	171.6	173.0
Business supplies	496.5	462.2	458.7	463.5	468.7	471.2	471.8	469.9	464.4	467.9	474.8
Commercial energy products	135.7	152.5	150.5	152.0	154.7	158.3	156.6	156.7	150.7	151.7	155.5

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

Percent change, seasonally adjusted														
		Fou	rth quarte	er to										
		fo	urth quar	ter		Annual 1	ate			Montl	hly rate			May '09
Item	2009				2009		2010	2009	2010					to
	gross value ¹	2007	2008	2009	Q3	Q4 ^r	Q1 ^r	Dec.r	Jan. ^r	Feb.r	Mar.r	Apr.r	May ^p	May '10
Finished	1744.3	1.0	-7.6	-3.0	13.8	8.3	9.4	.4	1.5	3	1.4	.2	1.3	10.3
Semifinished	1438.9	2.1	-7.7	-9.1	1.9	6.1	5.4	.5	1.4	7	6	1.3	2.3	6.5
Primary	876.1	2.2	-7.2	-2.5	5.7	10.6	7.9	2.4	6	1.5	1	.2	.8	8.5
Crude	398.7	2.0	-7.9	3.3	16.3	3.1	8.3	6	1.3	.8	.7	1.0	5	7.7

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^{1.} Billions of 2000 dollars.

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

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ¹																	
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	.4	.0	1.1	.5	.6	.7	.2	.5	.2	.9 2	.6	1.1	5.2	7.5	5.1	8.1	5.3
1995 1996	.3 7	.0 1.7	.2 2	.0 .8	.2 .6	.3 .9	4 1	1.4 .6	.4 .6	2 .0	.3 .8	.4 .6	5.1 2.9	1.2 8.1	3.9 5.4	3.4 5.6	4.8
1990	/	1.7	.8	.0	.7	.5	1	1.4	.9	.7	.0	.4	7.9	6.4	9.6	10.4	7.3
.998	.5	.0	.1	.4	.7	6	4	2.1	3	.7	1	.3	4.4	3.2	2.9	5.1	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	-2.2	8	-1.6	5	-1.1	5	1.2	1.2	.6	.2	.7	.7	-19.0	-10.4	6.4	6.9	-9.8
2010	1.1	1	.3	.7	1.2								7.6				
IP (2002=100)																	
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	100.1	99.3	97.7	97.2	96.2	95.8	96.9	98.1	98.7	98.9	99.6	100.2	99.1	96.4	97.9	99.5	98.2
2010	101.3	101.3	101.6	102.3	103.5								101.4				
Capacity																	
(percent of																	
2002 output)																	
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	140.2	140.1	139.9	139.8	139.6	139.4	139.3	140.7	140.4	139.9	139.4	140.1
2010	139.2	139.0	138.8	138.7	138.6								139.0				
Itilization																	
(naraant)																	
	02.4	02.5	02.0	04.2	0.4.4	010	010			0.4.5	040	050	00.6	0.4.2	0.4.4	24.0	04.0
1988	83.4	83.6	83.8	84.2	84.1	84.2	84.3	84.7	84.3	84.7	84.8	85.0	83.6	84.2	84.4	84.8	
i 988 1989	85.1	84.6	84.7	84.6	83.8	83.7	82.8	83.3	83.0	82.7	82.8	83.1	84.8	84.0	83.0	82.9	83.7
1988 1989 1990	85.1 82.5	84.6 83.1	84.7 83.3	84.6 83.0	83.8 83.0	83.7 83.1	82.8 82.8	83.3 82.9	83.0 82.9	82.7 82.2	82.8 81.0	83.1 80.3	84.8 83.0	84.0 83.1	83.0 82.9	82.9 81.2	83.7 82.5
988 1989 1990	85.1	84.6	84.7	84.6	83.8	83.7	82.8	83.3	83.0	82.7	82.8	83.1	84.8	84.0	83.0	82.9	83.7 82.5 79.8
1988 1989 1990 1991 1992	85.1 82.5 79.9 79.1	84.6 83.1 79.2 79.6	84.7 83.3 78.7 80.1	84.6 83.0 78.8 80.5	83.8 83.0 79.5 80.6	83.7 83.1 80.1 80.5	82.8 82.8 80.0 81.0	83.3 82.9 80.0 80.4	83.0 82.9 80.6 80.5	82.7 82.2 80.4 80.9	82.8 81.0 80.2 81.1	83.1 80.3 79.8 80.9	84.8 83.0 79.3 79.6	84.0 83.1 79.5 80.6	83.0 82.9 80.2 80.6	82.9 81.2 80.1 81.0	83.7 82.5 79.8 80.4
1988 1989 1990 1991 1992	85.1 82.5 79.9 79.1 81.2	84.6 83.1 79.2 79.6 81.4	84.7 83.3 78.7 80.1 81.3	84.6 83.0 78.8 80.5	83.8 83.0 79.5 80.6	83.7 83.1 80.1 80.5	82.8 82.8 80.0 81.0	83.3 82.9 80.0 80.4	83.0 82.9 80.6 80.5	82.7 82.2 80.4 80.9	82.8 81.0 80.2 81.1 82.1	83.1 80.3 79.8 80.9	84.8 83.0 79.3 79.6 81.3	84.0 83.1 79.5 80.6	83.0 82.9 80.2 80.6	82.9 81.2 80.1 81.0	83.7 82.5 79.8 80.4 81.5
1988 1989 1990 1991 1992 1993	85.1 82.5 79.9 79.1 81.2 82.5	84.6 83.1 79.2 79.6 81.4 82.3	84.7 83.3 78.7 80.1 81.3 83.0	84.6 83.0 78.8 80.5 81.4 83.2	83.8 83.0 79.5 80.6 81.0 83.4	83.7 83.1 80.1 80.5 81.1 83.7	82.8 82.8 80.0 81.0 81.3 83.6	83.3 82.9 80.0 80.4 81.2 83.7	83.0 82.9 80.6 80.5 81.4 83.6	82.7 82.2 80.4 80.9 81.9 84.1	82.8 81.0 80.2 81.1 82.1 84.3	83.1 80.3 79.8 80.9 82.3 84.9	84.8 83.0 79.3 79.6 81.3 82.6	84.0 83.1 79.5 80.6 81.2 83.4	83.0 82.9 80.2 80.6 81.3 83.6	82.9 81.2 80.1 81.0 82.1 84.4	83.7 82.5 79.8 80.4 81.5 83.5
1988 1989 1990 1991 1992 1993 1994 1995	85.1 82.5 79.9 79.1 81.2 82.5 84.9	84.6 83.1 79.2 79.6 81.4 82.3 84.6	84.7 83.3 78.7 80.1 81.3 83.0 84.4	84.6 83.0 78.8 80.5 81.4 83.2 84.1	83.8 83.0 79.5 80.6 81.0 83.4 84.0	83.7 83.1 80.1 80.5 81.1 83.7 83.9	82.8 82.8 80.0 81.0 81.3 83.6 83.3	83.3 82.9 80.0 80.4 81.2 83.7 84.2	83.0 82.9 80.6 80.5 81.4 83.6 84.2	82.7 82.2 80.4 80.9 81.9 84.1 83.7	82.8 81.0 80.2 81.1 82.1 84.3 83.6	83.1 80.3 79.8 80.9 82.3 84.9 83.6	84.8 83.0 79.3 79.6 81.3 82.6 84.6	84.0 83.1 79.5 80.6 81.2 83.4 84.0	83.0 82.9 80.2 80.6 81.3 83.6 83.9	82.9 81.2 80.1 81.0 82.1 84.4 83.6	83.7 82.5 79.8 80.4 81.5 83.5 84.0
1988 1989 1990 1991 1992 1993 1994 1995 1996	85.1 82.5 79.9 79.1 81.2 82.5	84.6 83.1 79.2 79.6 81.4 82.3	84.7 83.3 78.7 80.1 81.3 83.0	84.6 83.0 78.8 80.5 81.4 83.2	83.8 83.0 79.5 80.6 81.0 83.4	83.7 83.1 80.1 80.5 81.1 83.7	82.8 82.8 80.0 81.0 81.3 83.6	83.3 82.9 80.0 80.4 81.2 83.7	83.0 82.9 80.6 80.5 81.4 83.6	82.7 82.2 80.4 80.9 81.9 84.1	82.8 81.0 80.2 81.1 82.1 84.3	83.1 80.3 79.8 80.9 82.3 84.9	84.8 83.0 79.3 79.6 81.3 82.6	84.0 83.1 79.5 80.6 81.2 83.4	83.0 82.9 80.2 80.6 81.3 83.6	82.9 81.2 80.1 81.0 82.1 84.4	83.7 82.5 79.8 80.4 81.5 83.5 84.0 83.4
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	85.1 82.5 79.9 79.1 81.2 82.5 84.9 82.6 83.3	84.6 83.1 79.2 79.6 81.4 82.3 84.6 83.6 83.9	84.7 83.3 78.7 80.1 81.3 83.0 84.4 83.1 84.2	84.6 83.0 78.8 80.5 81.4 83.2 84.1 83.4 83.8	83.8 83.0 79.5 80.6 81.0 83.4 84.0 83.5 83.9	83.7 83.1 80.1 80.5 81.1 83.7 83.9 83.9 83.8	82.8 82.8 80.0 81.0 81.3 83.6 83.3 83.4 83.8	83.3 82.9 80.0 80.4 81.2 83.7 84.2 83.5 84.4	83.0 82.9 80.6 80.5 81.4 83.6 84.2 83.6 84.7	82.7 82.2 80.4 80.9 81.9 84.1 83.7 83.2 84.7	82.8 81.0 80.2 81.1 82.1 84.3 83.6 83.5 85.0	83.1 80.3 79.8 80.9 82.3 84.9 83.6 83.7 84.7	84.8 83.0 79.3 79.6 81.3 82.6 84.6 83.1 83.8	84.0 83.1 79.5 80.6 81.2 83.4 84.0 83.6 83.8	83.0 82.9 80.2 80.6 81.3 83.6 83.9 83.5 84.3	82.9 81.2 80.1 81.0 82.1 84.4 83.6 83.5 84.8	83.7 82.5 79.8 80.4 81.5 83.5 84.0 83.4 84.2
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	85.1 82.5 79.9 79.1 81.2 82.5 84.9 82.6 83.3	84.6 83.1 79.2 79.6 81.4 82.3 84.6 83.6	84.7 83.3 78.7 80.1 81.3 83.0 84.4 83.1	84.6 83.0 78.8 80.5 81.4 83.2 84.1 83.4 83.8	83.8 83.0 79.5 80.6 81.0 83.4 84.0 83.5 83.9	83.7 83.1 80.1 80.5 81.1 83.7 83.9 83.9 83.8	82.8 82.8 80.0 81.0 81.3 83.6 83.3 83.4 83.8	83.3 82.9 80.0 80.4 81.2 83.7 84.2 83.5	83.0 82.9 80.6 80.5 81.4 83.6 84.2 83.6 84.7	82.7 82.2 80.4 80.9 81.9 84.1 83.7 83.2 84.7	82.8 81.0 80.2 81.1 82.1 84.3 83.6 83.5 85.0	83.1 80.3 79.8 80.9 82.3 84.9 83.6 83.7	84.8 83.0 79.3 79.6 81.3 82.6 84.6 83.1	84.0 83.1 79.5 80.6 81.2 83.4 84.0 83.6 83.8	83.0 82.9 80.2 80.6 81.3 83.6 83.9 83.5	82.9 81.2 80.1 81.0 82.1 84.4 83.6 83.5	83.7 82.5 79.8 80.4 81.5 83.5 84.0 83.4 84.2
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	85.1 82.5 79.9 79.1 81.2 82.5 84.9 82.6 83.3	84.6 83.1 79.2 79.6 81.4 82.3 84.6 83.6 83.9	84.7 83.3 78.7 80.1 81.3 83.0 84.4 83.1 84.2	84.6 83.0 78.8 80.5 81.4 83.2 84.1 83.4 83.8	83.8 83.0 79.5 80.6 81.0 83.4 84.0 83.5 83.9	83.7 83.1 80.1 80.5 81.1 83.7 83.9 83.9 83.8	82.8 82.8 80.0 81.0 81.3 83.6 83.3 83.4 83.8	83.3 82.9 80.0 80.4 81.2 83.7 84.2 83.5 84.4	83.0 82.9 80.6 80.5 81.4 83.6 84.2 83.6 84.7	82.7 82.2 80.4 80.9 81.9 84.1 83.7 83.2 84.7	82.8 81.0 80.2 81.1 82.1 84.3 83.6 83.5 85.0	83.1 80.3 79.8 80.9 82.3 84.9 83.6 83.7 84.7	84.8 83.0 79.3 79.6 81.3 82.6 84.6 83.1 83.8	84.0 83.1 79.5 80.6 81.2 83.4 84.0 83.6 83.8	83.0 82.9 80.2 80.6 81.3 83.6 83.9 83.5 84.3	82.9 81.2 80.1 81.0 82.1 84.4 83.6 83.5 84.8	83.7 82.5 79.8 80.4 81.5 83.5 84.0 83.4 84.2
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	85.1 82.5 79.9 79.1 81.2 82.5 84.9 82.6 83.3	84.6 83.1 79.2 79.6 81.4 82.3 84.6 83.6 83.9 84.1 82.1	84.7 83.3 78.7 80.1 81.3 83.0 84.4 83.1 84.2	84.6 83.0 78.8 80.5 81.4 83.2 84.1 83.4 83.8 83.5 81.7	83.8 83.0 79.5 80.6 81.0 83.4 84.0 83.5 83.9	83.7 83.1 80.1 80.5 81.1 83.7 83.9 83.9 83.8 82.6 81.5	82.8 82.8 80.0 81.0 81.3 83.6 83.3 83.4 83.8 81.8	83.3 82.9 80.0 80.4 81.2 83.7 84.2 83.5 84.4	83.0 82.9 80.6 80.5 81.4 83.6 84.2 83.6 84.7	82.7 82.2 80.4 80.9 81.9 84.1 83.7 83.2 84.7	82.8 81.0 80.2 81.1 82.1 84.3 83.6 83.5 85.0 82.1 82.2	83.1 80.3 79.8 80.9 82.3 84.9 83.6 83.7 84.7	84.8 83.0 79.3 79.6 81.3 82.6 84.6 83.1 83.8	84.0 83.1 79.5 80.6 81.2 83.4 84.0 83.6 83.8 83.2 81.8	83.0 82.9 80.2 80.6 81.3 83.6 83.9 83.5 84.3	82.9 81.2 80.1 81.0 82.1 84.4 83.6 83.5 84.8 82.2 82.3	83.7 82.5 79.8 80.4 81.5 83.5 84.0 83.4 84.2
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	85.1 82.5 79.9 79.1 81.2 82.5 84.9 82.6 83.3 84.6 82.1 82.3	84.6 83.1 79.2 79.6 81.4 82.3 84.6 83.6 83.9 84.1 82.1 82.4	84.7 83.3 78.7 80.1 81.3 83.0 84.4 83.1 84.2 83.6 81.9	84.6 83.0 78.8 80.5 81.4 83.2 84.1 83.4 83.8 83.5 81.7	83.8 83.0 79.5 80.6 81.0 83.4 84.0 83.5 83.9 83.6 82.0 82.5	83.7 83.1 80.1 80.5 81.1 83.7 83.9 83.9 83.8 82.6 81.5 82.3	82.8 82.8 80.0 81.0 81.3 83.6 83.3 83.4 83.8 81.8 81.8	83.3 82.9 80.0 80.4 81.2 83.7 84.2 83.5 84.4 83.1 81.9 81.4	83.0 82.9 80.6 80.5 81.4 83.6 84.2 83.6 84.7 82.4 81.3	82.7 82.2 80.4 80.9 81.9 84.1 83.7 83.2 84.7 82.6 82.1 80.9	82.8 81.0 80.2 81.1 82.1 84.3 83.6 83.5 85.0 82.1 82.2 80.7	83.1 80.3 79.8 80.9 82.3 84.9 83.6 83.7 84.7 82.0 82.6 80.1	84.8 83.0 79.3 79.6 81.3 82.6 84.6 83.1 83.8 84.1 82.0 82.4	84.0 83.1 79.5 80.6 81.2 83.4 84.0 83.6 83.8 83.8	83.0 82.9 80.2 80.6 81.3 83.6 83.9 83.5 84.3 82.4 81.6 81.6	82.9 81.2 80.1 81.0 82.1 84.4 83.6 83.5 84.8 82.2 82.3 80.6	83.7 82.5 79.8 80.4 81.5 83.5 84.0 83.4 84.2 83.0 81.9 81.7
1988 1989 1990 1991 1992 1993 1994 1995 1996 1996 1997 1998 1999 2000 2001 2001	85.1 82.5 79.9 79.1 81.2 82.5 84.9 82.6 83.3 84.6 82.1 82.3 79.3	84.6 83.1 79.2 79.6 81.4 82.3 84.6 83.6 83.9 84.1 82.1 82.4 78.6	84.7 83.3 78.7 80.1 81.3 83.0 84.4 83.1 84.2 83.6 81.9 82.4 78.1	84.6 83.0 78.8 80.5 81.4 83.2 84.1 83.4 83.8 83.5 81.7 82.6 77.7	83.8 83.0 79.5 80.6 81.0 83.4 84.0 83.5 83.9 83.6 82.0 82.5 76.9	83.7 83.1 80.1 80.5 81.1 83.7 83.9 83.9 83.8 82.6 81.5 82.3 76.2	82.8 82.8 80.0 81.0 81.3 83.6 83.3 83.4 83.8 81.8 81.8	83.3 82.9 80.0 80.4 81.2 83.7 84.2 83.5 84.4 83.1 81.9 81.4 75.2	83.0 82.9 80.6 80.5 81.4 83.6 84.2 83.6 84.7 82.4 81.3 81.5 74.7	82.7 82.2 80.4 80.9 81.9 84.1 83.7 83.2 84.7 82.6 82.1 80.9 74.1	82.8 81.0 80.2 81.1 82.1 84.3 83.6 83.5 85.0 82.1 82.2 80.7 73.6	83.1 80.3 79.8 80.9 82.3 84.9 83.6 83.7 84.7 82.0 82.6 80.1 73.5	84.8 83.0 79.3 79.6 81.3 82.6 84.6 83.1 83.8 84.1 82.0 82.4 78.7	84.0 83.1 79.5 80.6 81.2 83.4 84.0 83.6 83.8 83.2 81.8 82.5 76.9	83.0 82.9 80.2 80.6 81.3 83.6 83.9 83.5 84.3 82.4 81.6 75.2	82.9 81.2 80.1 81.0 82.1 84.4 83.6 83.5 84.8 82.2 82.3 80.6 73.7	83.7 82.5 79.8 80.4 81.5 83.5 84.0 83.4 84.2 83.0 81.9 76.1 74.6
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	85.1 82.5 79.9 79.1 81.2 82.5 84.9 82.6 83.3 84.6 82.1 82.3 79.3 73.7	84.6 83.1 79.2 79.6 81.4 82.3 84.6 83.6 83.9 84.1 82.1 82.4 78.6	84.7 83.3 78.7 80.1 81.3 83.0 84.4 83.1 84.2 83.6 81.9 82.4 78.1 74.1	84.6 83.0 78.8 80.5 81.4 83.2 84.1 83.4 83.8 83.5 81.7 82.6 77.7 74.2	83.8 83.0 79.5 80.6 81.0 83.4 84.0 83.5 83.9 83.6 82.0 82.5 76.9 74.5	83.7 83.1 80.1 80.5 81.1 83.7 83.9 83.9 83.8 82.6 81.5 82.3 76.2	82.8 82.8 80.0 81.0 81.3 83.6 83.3 83.4 83.8 81.8 81.8 75.7 74.9	83.3 82.9 80.0 80.4 81.2 83.7 84.2 83.5 84.4 83.1 81.9 81.4 75.2	83.0 82.9 80.6 80.5 81.4 83.6 84.2 83.6 84.7 82.4 81.3 81.5 74.7 75.0	82.7 82.2 80.4 80.9 81.9 84.1 83.7 83.2 84.7 82.6 82.1 80.9 74.1 74.9	82.8 81.0 80.2 81.1 82.1 84.3 83.6 83.5 85.0 82.1 82.2 80.7 73.6 75.2	83.1 80.3 79.8 80.9 82.3 84.9 83.6 83.7 84.7 82.0 82.6 80.1 73.5 74.9	84.8 83.0 79.3 79.6 81.3 82.6 84.6 83.1 83.8 84.1 82.0 82.4 78.7	84.0 83.1 79.5 80.6 81.2 83.4 84.0 83.6 83.8 83.2 81.8 82.5 76.9 74.7	83.0 82.9 80.2 80.6 81.3 83.6 83.9 83.5 84.3 82.4 81.6 75.2 75.0	82.9 81.2 80.1 81.0 82.1 84.4 83.6 83.5 84.8 82.2 82.3 80.6 73.7 75.0	83.7 82.5 79.8 80.4 81.5 83.5 84.0 81.9 81.7 76.1 74.6
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	85.1 82.5 79.9 79.1 81.2 82.5 84.9 82.6 83.3 84.6 82.1 82.3 79.3 73.7 75.5 77.0	84.6 83.1 79.2 79.6 81.4 82.3 84.6 83.6 83.9 84.1 82.1 82.4 78.6 73.6	84.7 83.3 78.7 80.1 81.3 83.0 84.4 83.1 84.2 83.6 81.9 82.4 78.1 74.1 75.7 76.9 80.1	84.6 83.0 78.8 80.5 81.4 83.2 84.1 83.4 83.8 83.5 81.7 82.6 77.7 74.2 75.1 77.3 80.0	83.8 83.0 79.5 80.6 81.0 83.4 84.0 83.5 83.9 82.5 76.9 74.5	83.7 83.1 80.1 80.5 81.1 83.7 83.9 83.9 83.8 82.6 81.5 82.3 76.2 75.2	82.8 82.8 80.0 81.0 81.3 83.6 83.3 83.4 83.8 81.8 81.8 75.7 74.9 75.6 77.7 80.3	83.3 82.9 80.0 80.4 81.2 83.7 84.2 83.5 84.4 83.1 81.9 81.4 75.2 75.0 75.6 77.9 80.4	83.0 82.9 80.6 80.5 81.4 83.6 84.2 83.6 84.7 82.4 81.3 81.5 74.7 75.0 76.0 77.9 78.9	82.7 82.2 80.4 80.9 81.9 84.1 83.7 83.2 84.7 82.6 82.1 80.9 74.1 74.9	82.8 81.0 80.2 81.1 82.1 84.3 83.6 83.5 85.0 82.1 82.2 80.7 73.6 75.2 76.8 78.8 80.5	83.1 80.3 79.8 80.9 82.3 84.9 83.6 83.7 84.7 82.0 82.6 80.1 73.5 74.9 76.7 79.4 80.9	84.8 83.0 79.3 79.6 81.3 82.6 84.6 83.1 83.8 84.1 82.0 82.4 78.7 73.8 75.6 77.1 80.0	84.0 83.1 79.5 80.6 81.2 83.4 84.0 83.6 83.8 82.5 76.9 74.7 75.2 77.5 80.2	83.0 82.9 80.2 80.6 81.3 83.6 83.9 83.5 84.3 82.4 81.6 75.2 75.0	82.9 81.2 80.1 81.0 82.1 84.4 83.6 83.5 84.8 82.2 82.3 80.6 73.7 75.0 76.5 79.0 80.4	83.7 82.5 79.8 80.4 81.5 83.5 84.0 83.4 84.2 83.0 81.9 81.7 76.1 74.6 75.8 77.9 80.1
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	85.1 82.5 79.9 79.1 81.2 82.5 84.9 82.6 83.3 84.6 82.1 82.3 79.3 73.7 75.5 77.0 79.7	84.6 83.1 79.2 79.6 81.4 82.3 84.6 83.6 83.9 84.1 82.1 82.4 78.6 73.6	84.7 83.3 78.7 80.1 81.3 83.0 84.4 83.1 84.2 83.6 81.9 82.4 78.1 74.1 75.7 76.9 80.1 80.8	84.6 83.0 78.8 80.5 81.4 83.2 84.1 83.4 83.8 83.5 81.7 74.2 75.1 77.3 80.0 81.0	83.8 83.0 79.5 80.6 81.0 83.4 84.0 83.5 83.9 82.5 76.9 74.5 75.2 77.9 80.2 80.8	83.7 83.1 80.1 80.5 81.1 83.7 83.9 83.9 83.8 82.6 81.5 82.3 76.2 75.2 75.2 80.4 81.1	82.8 82.8 80.0 81.0 81.3 83.6 83.3 83.4 83.8 81.8 75.7 74.9 75.6 77.7 80.3 81.1	83.3 82.9 80.0 80.4 81.2 83.7 84.2 83.5 84.4 83.1 81.9 81.4 75.2 75.0 75.6 77.9 80.4 81.2	83.0 82.9 80.6 80.5 81.4 83.6 84.2 83.6 84.7 82.4 81.3 81.5 74.7 75.0 76.0 77.9 80.8	82.7 82.2 80.4 80.9 81.9 84.1 83.7 83.2 84.7 82.6 82.1 80.9 74.1 74.9 76.1 78.7 79.7 80.6	82.8 81.0 80.2 81.1 82.1 84.3 83.6 83.5 85.0 82.1 82.2 80.7 73.6 75.2 76.8 78.8 80.5	83.1 80.3 79.8 80.9 82.3 84.9 83.6 83.7 84.7 82.0 82.6 80.1 73.5 74.9 76.7 79.4 80.9	84.8 83.0 79.3 79.6 81.3 82.6 84.6 83.1 83.8 84.1 82.0 82.4 78.7 73.8 75.6 77.1 80.0 80.8	84.0 83.1 79.5 80.6 81.2 83.4 84.0 83.6 83.8 82.5 76.9 74.7 75.2 77.5 80.2 81.0	83.0 82.9 80.2 80.6 81.3 83.6 83.9 83.5 84.3 82.4 81.6 75.2 75.0 75.7 77.9 9.9	82.9 81.2 80.1 81.0 82.1 84.4 83.6 83.5 84.8 82.2 82.3 80.6 73.7 75.0 76.5 79.0 80.4 80.6	83.7 82.5 79.8 80.4 81.5 83.5 84.0 83.4 84.2 83.0 81.7 76.1 74.6 75.8 77.9 80.1 80.9
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	85.1 82.5 79.9 79.1 81.2 82.5 84.9 82.6 83.3 84.6 82.1 82.3 79.3 73.7 75.5 77.0	84.6 83.1 79.2 79.6 81.4 82.3 84.6 83.6 83.9 84.1 82.1 82.4 78.6 73.6	84.7 83.3 78.7 80.1 81.3 83.0 84.4 83.1 84.2 83.6 81.9 82.4 78.1 74.1 75.7 76.9 80.1	84.6 83.0 78.8 80.5 81.4 83.2 84.1 83.4 83.8 83.5 81.7 82.6 77.7 74.2 75.1 77.3 80.0	83.8 83.0 79.5 80.6 81.0 83.4 84.0 83.5 83.9 82.5 76.9 74.5	83.7 83.1 80.1 80.5 81.1 83.7 83.9 83.9 83.8 82.6 81.5 82.3 76.2 75.2	82.8 82.8 80.0 81.0 81.3 83.6 83.3 83.4 83.8 81.8 81.8 75.7 74.9 75.6 77.7 80.3	83.3 82.9 80.0 80.4 81.2 83.7 84.2 83.5 84.4 83.1 81.9 81.4 75.2 75.0 75.6 77.9 80.4	83.0 82.9 80.6 80.5 81.4 83.6 84.2 83.6 84.7 82.4 81.3 81.5 74.7 75.0 76.0 77.9 78.9	82.7 82.2 80.4 80.9 81.9 84.1 83.7 83.2 84.7 82.6 82.1 80.9 74.1 74.9	82.8 81.0 80.2 81.1 82.1 84.3 83.6 83.5 85.0 82.1 82.2 80.7 73.6 75.2 76.8 78.8 80.5	83.1 80.3 79.8 80.9 82.3 84.9 83.6 83.7 84.7 82.0 82.6 80.1 73.5 74.9 76.7 79.4 80.9	84.8 83.0 79.3 79.6 81.3 82.6 84.6 83.1 83.8 84.1 82.0 82.4 78.7 73.8 75.6 77.1 80.0	84.0 83.1 79.5 80.6 81.2 83.4 84.0 83.6 83.8 82.5 76.9 74.7 75.2 77.5 80.2	83.0 82.9 80.2 80.6 81.3 83.6 83.9 83.5 84.3 82.4 81.6 75.2 75.0	82.9 81.2 80.1 81.0 82.1 84.4 83.6 83.5 84.8 82.2 82.3 80.6 73.7 75.0 76.5 79.0 80.4	83.7 82.5 79.8 80.4 81.5 83.5 84.0 83.4 84.2 83.0 81.7 76.1 74.6 75.8 77.9 80.1 80.9
(percent) 1988 1989 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	85.1 82.5 79.9 79.1 81.2 82.5 84.9 82.6 83.3 84.6 82.1 82.3 79.3 73.7 75.5 77.0 79.7	84.6 83.1 79.2 79.6 81.4 82.3 84.6 83.6 83.9 84.1 82.1 82.4 78.6 73.6	84.7 83.3 78.7 80.1 81.3 83.0 84.4 83.1 84.2 83.6 81.9 82.4 78.1 74.1 75.7 76.9 80.1 80.8	84.6 83.0 78.8 80.5 81.4 83.2 84.1 83.4 83.8 83.5 81.7 74.2 75.1 77.3 80.0 81.0	83.8 83.0 79.5 80.6 81.0 83.4 84.0 83.5 83.9 82.5 76.9 74.5 75.2 77.9 80.2 80.8	83.7 83.1 80.1 80.5 81.1 83.7 83.9 83.9 83.8 82.6 81.5 82.3 76.2 75.2 75.2 80.4 81.1	82.8 82.8 80.0 81.0 81.3 83.6 83.3 83.4 83.8 81.8 75.7 74.9 75.6 77.7 80.3 81.1	83.3 82.9 80.0 80.4 81.2 83.7 84.2 83.5 84.4 83.1 81.9 81.4 75.2 75.0 75.6 77.9 80.4 81.2	83.0 82.9 80.6 80.5 81.4 83.6 84.2 83.6 84.7 82.4 81.3 81.5 74.7 75.0 76.0 77.9 80.8	82.7 82.2 80.4 80.9 81.9 84.1 83.7 83.2 84.7 82.6 82.1 80.9 74.1 74.9 76.1 78.7 79.7 80.6	82.8 81.0 80.2 81.1 82.1 84.3 83.6 83.5 85.0 82.1 82.2 80.7 73.6 75.2 76.8 78.8 80.5	83.1 80.3 79.8 80.9 82.3 84.9 83.6 83.7 84.7 82.0 82.6 80.1 73.5 74.9 76.7 79.4 80.9	84.8 83.0 79.3 79.6 81.3 82.6 84.6 83.1 83.8 84.1 82.0 82.4 78.7 73.8 75.6 77.1 80.0 80.8	84.0 83.1 79.5 80.6 81.2 83.4 84.0 83.6 83.8 82.5 76.9 74.7 75.2 77.5 80.2 81.0	83.0 82.9 80.2 80.6 81.3 83.6 83.9 83.5 84.3 82.4 81.6 75.2 75.0 75.7 77.9 9.9	82.9 81.2 80.1 81.0 82.1 84.4 83.6 83.5 84.8 82.2 82.3 80.6 73.7 75.0 76.5 79.0 80.4 80.6	82.5 79.8 80.4 81.5 83.5 84.0 83.4 84.2 83.0 81.9 81.7 76.1 74.6
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006 2007	85.1 82.5 79.9 79.1 81.2 82.5 84.9 82.6 83.3 84.6 82.1 82.3 79.3 75.5 77.0 79.7 80.9 80.3	84.6 83.1 79.2 79.6 81.4 82.3 84.6 83.9 84.1 82.1 82.4 73.6 73.6 75.8 77.4 80.2 80.8	84.7 83.3 78.7 80.1 81.3 83.0 84.4 83.1 84.2 83.6 81.9 82.4 78.1 74.1 75.7 76.9 80.1 80.8	84.6 83.0 78.8 80.5 81.4 83.2 84.1 83.4 83.8 83.5 81.7 77.7 74.2 75.1 77.3 80.0 81.0	83.8 83.0 79.5 80.6 81.0 83.4 84.0 83.5 83.9 82.5 76.9 74.5 75.2 77.9 80.2 80.8	83.7 83.1 80.1 80.5 81.1 83.7 83.9 83.8 82.6 81.5 82.3 76.2 75.2 75.3 77.2 80.4 81.1 80.6	82.8 82.8 80.0 81.0 81.3 83.6 83.3 83.4 83.8 81.8 75.7 74.9 75.6 77.7 80.3 81.1 80.7	83.3 82.9 80.0 80.4 81.2 83.7 84.2 83.5 84.4 75.2 75.0 75.6 77.9 80.4 81.2 80.6	83.0 82.9 80.6 80.5 81.4 83.6 84.2 83.6 84.7 82.4 81.3 81.5 74.7 75.0 76.0 77.9 78.9 80.8 80.7	82.7 82.2 80.4 80.9 81.9 84.1 83.7 83.2 84.7 82.6 82.1 80.9 74.1 74.9 76.1 78.7 79.7 80.6 80.2	82.8 81.0 80.2 81.1 84.3 83.6 83.5 85.0 82.1 82.2 80.7 73.6 75.2 76.8 78.8 80.5 80.3	83.1 80.3 79.8 80.9 82.3 84.9 83.6 83.7 84.7 82.0 82.6 80.1 73.5 74.9 76.7 79.4 80.9 80.6	84.8 83.0 79.3 79.6 81.3 82.6 84.6 83.1 83.8 84.1 82.0 82.4 78.7 73.8 75.6 77.1 80.0 80.8	84.0 83.1 79.5 80.6 81.2 83.4 84.0 83.6 83.8 82.5 76.9 74.7 75.2 77.5 80.2 81.0 80.6	83.0 82.9 80.2 80.6 81.3 83.6 83.9 83.5 84.3 82.4 81.6 75.2 75.0 75.7 77.9 79.9 81.1 80.7	82.9 81.2 80.1 81.0 82.1 84.4 83.6 83.5 84.8 82.2 82.3 80.6 73.7 75.0 76.5 79.0 80.4	83.7 82.5 79.8 80.4 81.5 83.5 84.0 81.9 81.7 76.1 74.6 75.8 77.9 80.1 80.9 80.6

^{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 ¹ Seasonally adjusted

Year																	
Tear	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent change) ²																	
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	.1	.2	2	.2	.0	8	-1.1	8	4.6	2.7	.6	-6.7	.8
1991 1992	8 6	6 .9	7 1.0	.3	.7 .6	1.1	.2 .8	.2 4	1.1	2 .6	3 .4	1 2	-8.8	2.1 8.2	7.1 4.0	1.6 2.8	-2.0 3.6
1993 1994	1.1	.1 .1	2 1.3	.6 .8	1 .7	1 .3	.3	1 .7	.6	.8 1.0	.4 .8	.5 1.1	4.5 5.0	1.4 9.5	1.3 5.9	6.8 9.8	3.5 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
1997	.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 8	.2	.0 3	5	.5	4	3	7	5.3	4.7	5	-2.8	4.5
2001 2002	6 .4	6 .0	3 .7	2 .0	8 .7	7 1.1	3 4	7 .3	3 .1	7 5	2 .4	.2 5	-6.6 3.0	-5.5 5.2	-6.3 2.9	-4.8 9	-4.1 1
2003 2004	.6	.1	.3 3	-1.0 .5	.1 .7	.5 8	.1	2 .6	.8 2	1.0	1.1	2 .7	2.4	-2.0 2.9	2.3	4.6 5.2	1.3
2004	.7	.8	3 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
2008	3	5	1	9	2	4	3	9	-3.7	.3	-2.2	-2.9	-1.2	-5.4	-9.3	-18.1	-3.2
2009	-2.8	1	-1.7	4	9	4	1.6	1.2	.7	1	1.1	1	-22.0	-8.8	8.4	5.6	-11.4
2010	.9	.0	1.2	.9	.9								6.3				
IP (2002=100)	110.1	1120	110.5	111.5		111.0	1100	100 5	105.5	1050	102 5	100 5	112.0		100.7	102.1	100.1
2008 2009	97.8	112.8 97.7	112.7 96.1	111.7 95.7	111.5 94.8	111.0 94.4	110.8 95.9	109.7 97.1	105.7 97.7	106.0 97.6	103.6 98.6	100.6 98.5	113.0 97.2	111.4 95.0	108.7 96.9	103.4 98.2	109.1 96.7
2009 2010	97.8	97.7	100.5	101.4	102.3	74.4	73.9	97.1	91.1	J1.0	90.0	70.3	97.2	93.0	90.9	90.2	90./
Capacity (percent of 2002 output)																	
	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
2009	144.5 145.7 143.8	144.7 145.7 143.6	144.9 145.6 143.4	145.1 145.4 143.3	145.3 145.3 143.2	145.5 145.1	145.6 144.9	145.7 144.7	145.8 144.5	145.8 144.3	145.8 144.1	145.8 143.9	144.7 145.7 143.6	145.3 145.3	145.7 144.7	145.8 144.1	145.4 144.9
2009 2010 Utilization	145.7	145.7	145.6	145.4	145.3								145.7				
2009 2010 Utilization (percent) 1988	145.7 143.8 83.0	145.7 143.6 83.1	145.6 143.4 83.3	145.4 143.3 84.0	145.3 143.2 83.8	145.1 83.9	144.9 84.0	144.7 84.0	144.5 84.2	144.3 84.6	144.1 84.7	143.9 84.9	145.7 143.6	145.3 83.9	144.7 84.0	144.1	144.9 84.0
2009 2010 Utilization (<i>percent</i>) 1988 1989	145.7 143.8 83.0 85.4	145.7 143.6 83.1 84.5	145.6 143.4 83.3 84.3	145.4 143.3 84.0 84.2	145.3 143.2 83.8 83.3	83.9 83.3	84.0 82.2	84.0 82.7	84.2 82.3	84.6 82.0	84.7 82.0	84.9 81.9	145.7 143.6 83.2 84.7	83.9 83.6	84.0 82.4	84.7 82.0	84.0 83.2
2009 2010 Utilization (percent) 1988 1989	145.7 143.8 83.0 85.4 81.6	145.7 143.6 83.1 84.5 82.6	145.6 143.4 83.3 84.3 82.8	145.4 143.3 84.0 84.2 82.4	145.3 143.2 83.8 83.3 82.3	83.9 83.3 82.3	84.0 82.2 82.0	84.0 82.7 82.0	84.2 82.3 81.8	84.6 82.0 81.0	84.7 82.0 80.0	84.9 81.9 79.2	145.7 143.6 83.2 84.7 82.3	83.9 83.6 82.3	84.0 82.4 81.9	84.7 82.0 80.1	84.0 83.2 81.7
2009 2010 Utilization (percent) 1988 1989 1990	145.7 143.8 83.0 85.4	145.7 143.6 83.1 84.5	145.6 143.4 83.3 84.3	145.4 143.3 84.0 84.2	145.3 143.2 83.8 83.3	83.9 83.3	84.0 82.2	84.0 82.7	84.2 82.3	84.6 82.0	84.7 82.0	84.9 81.9	145.7 143.6 83.2 84.7	83.9 83.6	84.0 82.4	84.7 82.0	84.0 83.2 81.7 78.4
2009 2010 Utilization (percent) 1988 1989 1990 1991	145.7 143.8 83.0 85.4 81.6 78.5 78.0	145.7 143.6 83.1 84.5 82.6 77.9 78.6	83.3 84.3 82.8 77.2 79.2	84.0 84.2 82.4 77.4 79.4	83.8 83.3 82.3 77.8 79.7	83.9 83.3 82.3 78.5 79.8	84.0 82.2 82.0 78.6 80.2	84.0 82.7 82.0 78.7 79.7	84.2 82.3 81.8 79.4 79.6	84.6 82.0 81.0 79.2 79.9	84.7 82.0 80.0 78.9 80.0	84.9 81.9 79.2 78.7 79.7	83.2 84.7 82.3 77.9 78.6	83.9 83.6 82.3 77.9 79.6	84.0 82.4 81.9 78.9 79.8	84.7 82.0 80.1 78.9 79.8	84.0 83.2 81.7 78.4 79.5
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992	145.7 143.8 83.0 85.4 81.6 78.5 78.0 80.4	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3	83.3 84.3 82.8 77.2 79.2	84.0 84.2 82.4 77.4 79.4 80.4	83.8 83.8 83.3 82.3 77.8 79.7	83.9 83.3 82.3 78.5 79.8 80.0	84.0 82.2 82.0 78.6 80.2 80.1	84.0 82.7 82.0 78.7 79.7	84.2 82.3 81.8 79.4 79.6 80.3	84.6 82.0 81.0 79.2 79.9 80.8	84.7 82.0 80.0 78.9 80.0 81.0	84.9 81.9 79.2 78.7 79.7 81.2	145.7 143.6 83.2 84.7 82.3 77.9 78.6 80.2	83.9 83.6 82.3 77.9 79.6 80.2	84.0 82.4 81.9 78.9 79.8 80.1	84.7 82.0 80.1 78.9 79.8 81.0	84.0 83.2 81.7 78.4 79.5
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992	145.7 143.8 83.0 85.4 81.6 78.5 78.0	145.7 143.6 83.1 84.5 82.6 77.9 78.6	83.3 84.3 82.8 77.2 79.2	84.0 84.2 82.4 77.4 79.4	83.8 83.3 82.3 77.8 79.7	83.9 83.3 82.3 78.5 79.8	84.0 82.2 82.0 78.6 80.2	84.0 82.7 82.0 78.7 79.7	84.2 82.3 81.8 79.4 79.6	84.6 82.0 81.0 79.2 79.9	84.7 82.0 80.0 78.9 80.0	84.9 81.9 79.2 78.7 79.7	83.2 84.7 82.3 77.9 78.6	83.9 83.6 82.3 77.9 79.6	84.0 82.4 81.9 78.9 79.8	84.7 82.0 80.1 78.9 79.8	84.0 83.2 81.7 78.4 79.5 80.4 82.7
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992 1993 1994 1995	145.7 143.8 83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4 81.4	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0 82.3	145.6 143.4 83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9 81.7	145.4 143.3 84.0 84.2 82.4 77.4 79.4 80.4 82.4 83.5 82.1	145.3 143.2 83.8 83.3 82.3 77.8 79.7 80.2 82.7 83.2 82.2	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2 82.6	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4 82.4	84.0 82.7 82.0 78.7 79.7 79.9 83.0 82.5	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4 82.6	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9 82.1	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5 82.3	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5 82.5	145.7 143.6 83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1 81.8	83.9 83.6 82.3 77.9 79.6 80.2 82.6 83.3 82.3	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.9 82.5	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.6 82.3	84.0 83.2 81.7 78.4 79.5 80.4 82.7 83.2 82.2
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992 1993 1994 1995 1996	83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4	83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0	83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9	84.0 84.2 82.4 77.4 79.4 80.4 82.4 83.5	83.8 83.3 82.3 77.8 79.7 80.2 82.7 83.2	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4	84.0 82.7 82.0 78.7 79.7 79.9 83.0 83.0	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5	83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1	83.9 83.6 82.3 77.9 79.6 80.2 82.6 83.3	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.9	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.6	84.0 83.2 81.7 78.4 79.5 80.4 82.7 83.2 82.2
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	145.7 143.8 83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4 81.4 82.1	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0 82.3 82.8	145.6 143.4 83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9 81.7 83.3	84.0 84.2 82.4 77.4 80.4 82.4 83.5 82.1 82.6	83.8 83.8 83.3 77.8 79.7 80.2 82.7 83.2 82.2 82.9	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2 82.6 82.9	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4 82.4 82.7 80.3	84.0 82.7 82.0 78.7 79.7 79.9 83.0 82.5 83.5	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4 82.6 83.7	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9 82.1 83.6	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5 82.3 83.9	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5 82.5 83.7	145.7 143.6 83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1 81.8 82.8	83.9 83.6 82.3 77.9 79.6 80.2 82.6 83.3 82.3 82.8	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.5 83.3 81.0	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.6 82.3 83.7	84.0 83.2 81.7 78.4 79.5 80.4 82.7 83.2 83.2 81.8
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	145.7 143.8 83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4 81.4 82.1 83.8 80.9	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0 82.3 82.8 83.2 81.1	145.6 143.4 83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9 81.7 83.3 82.5 80.6	145.4 143.3 84.0 84.2 82.4 77.4 79.4 80.4 82.4 83.5 82.1 82.6 82.4 80.5	145.3 143.2 83.8 83.3 82.3 77.8 79.7 80.2 82.7 83.2 82.2 82.9 82.3 80.9	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2 82.6 82.9 81.2 80.3	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4 82.4 82.7 80.3 80.3	84.0 82.7 82.0 78.7 79.7 79.9 83.0 82.5 83.5 81.8 80.5	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4 82.6 83.7 81.0 79.9	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9 82.1 83.6 81.3 80.8	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5 82.3 83.9 81.0 81.0	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5 82.5 83.7 81.0 81.3	145.7 143.6 83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1 81.8 82.8	83.9 83.6 82.3 77.9 79.6 80.2 82.6 83.3 82.3 82.8 82.0 80.6	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.5 83.3 81.0 80.3	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.6 82.3 83.7 81.1 81.0	84.0 83.2 81.7 78.4 79.5 80.4 82.7 83.2 82.2 83.2
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	145.7 143.8 83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4 81.4 82.1 83.8 80.9 81.0	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0 82.3 82.8 83.2 81.1 80.9	145.6 143.4 83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9 81.7 83.3 82.5 80.6 81.1	145.4 143.3 84.0 84.2 82.4 77.4 79.4 80.4 82.4 83.5 82.1 82.6 82.4 80.5 81.3	145.3 143.2 83.8 83.3 77.8 79.7 80.2 82.7 83.2 82.2 82.9 82.3 80.9 80.8	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2 82.6 82.9 81.2 80.3	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4 82.4 82.7 80.3 80.3	84.0 82.7 82.0 78.7 79.7 79.9 83.0 82.5 83.5 81.8 80.5 79.6	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4 82.6 83.7 81.0 79.9 79.6	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9 82.1 83.6 81.3 80.8 79.0	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5 82.3 83.9 81.0 78.5	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5 82.5 83.7 81.0 81.3 77.7	145.7 143.6 83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1 81.8 82.8 83.2 80.9 81.0	83.9 83.6 82.3 77.9 79.6 80.2 82.6 83.3 82.3 82.8 82.0 80.6 80.9	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.5 83.3 81.0 80.3 79.9	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.6 82.3 83.7 81.1 81.0 78.4	84.0 83.2 81.7 78.4 79.5 80.4 82.7 83.2 82.2 83.2 81.8 80.7
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	145.7 143.8 83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4 81.4 82.1 83.8 80.9	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0 82.3 82.8 83.2 81.1	145.6 143.4 83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9 81.7 83.3 82.5 80.6	145.4 143.3 84.0 84.2 82.4 77.4 79.4 80.4 82.4 83.5 82.1 82.6 82.4 80.5	145.3 143.2 83.8 83.3 82.3 77.8 79.7 80.2 82.7 83.2 82.2 82.9 82.3 80.9	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2 82.6 82.9 81.2 80.3	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4 82.4 82.7 80.3 80.3	84.0 82.7 82.0 78.7 79.7 79.9 83.0 82.5 83.5 81.8 80.5	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4 82.6 83.7 81.0 79.9	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9 82.1 83.6 81.3 80.8	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5 82.3 83.9 81.0 81.0	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5 82.5 83.7 81.0 81.3	145.7 143.6 83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1 81.8 82.8	83.9 83.6 82.3 77.9 79.6 80.2 82.6 83.3 82.3 82.8 82.0 80.6	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.5 83.3 81.0 80.3	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.6 82.3 83.7 81.1 81.0	84.0 83.2 81.7 78.4 79.5 80.4 82.7 83.2 82.2 83.2 81.8 80.7 80.1
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2000 2001 2002	145.7 143.8 83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4 81.4 82.1 83.8 80.9 81.0 76.9	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0 82.3 82.8 83.2 81.1 80.9 76.2	145.6 143.4 83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9 81.7 83.3 82.5 80.6 81.1 75.7	145.4 143.3 84.0 84.2 82.4 77.4 79.4 80.4 82.4 83.5 82.1 82.6 82.4 80.5 81.3 75.3	145.3 143.2 83.8 83.3 77.8 79.7 80.2 82.7 83.2 82.2 82.9 82.3 80.9 80.8 74.5	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2 82.6 82.9 81.2 80.3 80.7 73.8	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4 82.4 82.7 80.3 80.3 73.4	84.0 82.7 82.0 78.7 79.7 79.9 83.0 82.5 83.5 81.8 80.5 79.6 72.7	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4 82.6 83.7 81.0 79.9 79.6 72.3	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9 82.1 83.6 81.3 80.8 79.0 71.7	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5 82.3 83.9 81.0 78.5 71.4	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5 82.5 83.7 81.0 81.3 77.7 71.5	145.7 143.6 83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1 81.8 82.8 83.2 80.9 81.0 76.3	83.9 83.6 82.3 77.9 79.6 80.2 82.6 83.3 82.3 82.8 82.0 80.6 80.9 74.5	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.5 83.3 81.0 80.3 79.9 72.8	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.6 82.3 83.7 81.1 81.0 78.4 71.5	84.0 83.2 81.7 78.4 79.5 80.4 82.7 83.2 83.2 81.8 80.7 80.1 72.7
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4 81.1 83.8 80.9 81.0 76.9 71.7	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0 82.3 82.8 83.2 81.1 80.9 76.2	83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9 81.7 83.3 82.5 80.6 81.1 75.7	84.0 84.2 82.4 77.4 80.4 82.4 83.5 82.1 82.6 82.4 80.5 81.3 75.3 72.1	83.8 83.8 83.3 77.8 79.7 80.2 82.7 83.2 82.2 82.9 82.3 80.9 80.8 74.5 72.5	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2 82.6 82.9 81.2 80.3 80.7 73.8	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4 82.4 82.7 80.3 80.3 73.4 73.0	84.0 82.7 82.0 78.7 79.7 79.9 83.0 82.5 83.5 81.8 80.5 79.6 72.7 73.2	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4 82.6 83.7 81.0 79.9 79.6 72.3 73.3	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9 82.1 83.6 81.3 80.8 79.0 71.7 72.9	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5 82.3 83.9 81.0 78.5 71.4 73.2	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5 82.5 83.7 81.0 81.3 77.7 71.5 72.9	145.7 143.6 83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1 81.8 82.8 83.2 80.9 81.0 76.3 71.8	83.9 83.6 82.3 77.9 79.6 80.2 82.6 83.3 82.3 82.8 82.0 80.6 80.9 74.5 72.6	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.9 82.5 83.3 81.0 80.3 79.9 72.8 73.1	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.6 82.3 83.7 81.1 81.0 78.4 71.5 73.0	84.6 83.2 81.7 78.4 79.5 80.4 82.7 83.2 83.2 81.8 80.7 80.1 73.8
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	145.7 143.8 83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4 81.4 82.1 83.8 80.9 76.9 71.7 73.3 74.8 78.1	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0 82.3 82.8 83.2 81.1 80.9 76.2 71.7	83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9 81.7 83.3 82.5 80.6 81.1 75.7 72.1 73.7	84.0 84.2 82.4 77.4 79.4 80.4 82.4 83.5 82.1 82.6 82.4 80.5 81.3 75.3 72.1 73.0 75.6 78.3	83.8 83.3 82.3 77.8 79.7 80.2 82.2 82.2 82.9 82.3 80.9 80.8 74.5 72.5	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2 82.6 82.9 81.2 80.3 80.7 73.8 73.5 75.5 78.6	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4 82.4 82.7 80.3 80.3 73.4 73.0 73.6 76.2 78.4	84.0 82.7 82.0 78.7 79.7 79.9 83.0 82.5 83.5 81.8 80.5 79.6 72.7 73.2 73.4 76.6 78.6	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4 82.6 83.7 81.0 79.9 79.6 72.3 73.3 74.0 76.5 77.7	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9 82.1 83.6 81.3 80.8 79.0 71.7 72.9 74.1 77.2 78.8	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5 82.3 83.9 81.0 78.5 71.4 73.2 74.9 77.2	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5 82.5 83.7 81.0 81.3 77.7 71.5 72.9 74.8 77.6 79.4	83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1 81.8 82.8 83.2 80.9 81.0 76.3 71.8 73.5 75.1	83.9 83.6 82.3 77.9 79.6 80.2 82.6 83.3 82.3 82.8 82.0 80.6 80.9 74.5 72.6	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.5 83.3 81.0 80.3 79.9 72.8 73.1 73.7 76.4 78.2	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.6 82.3 83.7 81.1 81.0 78.4 71.5 73.0 74.6 77.3 79.2	84.0 83.2 81.7 78.4 79.5 80.4 82.7 83.2 82.2 83.2 80.7 73.8 72.7
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4 81.4 82.1 83.8 80.9 71.7 73.3 74.8 78.1 79.8	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0 82.3 82.8 83.2 81.1 80.9 76.2 71.7	83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9 81.7 83.3 82.5 80.6 81.1 75.7 72.1 73.7 75.2 78.3 79.3	84.0 84.2 82.4 77.4 79.4 80.4 82.2 82.1 82.6 82.1 82.6 75.3 72.1 73.0 75.6 78.3 79.6	83.8 83.8 83.3 77.8 80.2 82.7 83.2 82.9 82.9 82.3 80.9 80.8 74.5 72.5 73.1 76.1 78.5 79.3	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2 82.6 82.9 81.2 80.3 80.7 73.8 73.8 73.5 75.5 78.6	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4 82.4 82.4 82.7 80.3 80.3 73.4 73.0 73.6 76.2 78.4	84.0 82.7 82.0 78.7 79.7 79.9 83.0 82.5 83.5 81.8 80.5 79.6 72.7 73.2 73.4 76.6 78.6	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4 82.6 83.7 81.0 79.9 79.6 72.3 73.3 74.0 76.5 77.7	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9 82.1 83.6 81.3 80.8 79.0 71.7 72.9 74.1 77.2 78.8 78.9	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5 82.3 83.9 81.0 78.5 71.4 73.2 74.9 77.2 79.4	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5 82.5 82.5 71.5 72.9 74.8 77.6 79.4 79.5	145.7 143.6 83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1 81.8 82.8 83.2 80.9 81.0 76.3 71.8 73.5 75.1 78.3	83.9 83.6 82.3 77.9 6 80.2 82.6 83.3 82.3 82.8 82.0 80.6 80.9 74.5 72.6 73.2 75.7 78.5	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.5 83.3 81.0 80.3 79.9 72.8 73.1 73.7 76.4 78.2	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.3 83.7 81.1 81.0 78.4 71.5 73.0 74.6 77.3 79.2	84.6 83.2 81.7 79.5 80.4 82.7 83.2 82.2 83.2 81.8 80.7 73.7 76.2 79.4
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2007	83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4 81.1 83.8 80.9 71.7 73.3 74.8 78.1 79.8	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0 82.3 82.8 83.2 81.1 80.9 76.2 71.7 73.5 75.4 78.9	83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9 81.7 83.3 82.5 80.6 81.1 75.7 72.1 73.7 75.2 78.3 79.3	84.0 84.2 82.4 77.4 80.4 82.4 83.5 82.1 82.6 82.4 80.5 81.3 75.3 72.1 73.0 75.6 78.3 79.6	83.8 83.8 83.3 77.8 79.7 80.2 82.7 83.2 82.2 82.9 82.3 80.9 80.8 74.5 72.5	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2 82.6 82.9 81.2 80.3 80.7 73.3 73.5 75.5 79.5	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4 82.4 82.7 80.3 80.3 73.4 73.0 73.6 76.2 78.4 79.5	84.0 82.7 82.0 78.7 79.7 79.9 83.0 82.5 83.5 81.8 80.5 72.6 72.7 73.2 73.4 76.6 78.6 79.6 79.6	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4 82.6 79.9 79.6 72.3 73.3 74.0 76.5 77.7 79.4	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9 82.1 83.6 81.3 80.8 79.0 71.7 72.9 74.1 77.2 78.8 78.9	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5 82.3 83.9 81.0 71.5 71.4 73.2 74.9 77.2 79.4 78.7	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5 82.5 83.7 81.0 81.3 77.7 71.5 72.9 74.8 77.6 79.4 79.5 78.8	83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1 81.8 82.8 83.2 80.9 81.0 76.3 71.8 73.5 75.1 78.6 79.0	83.9 83.6 82.3 77.9 79.6 80.2 82.6 83.3 82.3 82.8 82.0 80.6 80.9 74.5 72.6	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.5 83.3 81.0 80.3 79.9 72.8 73.1 73.7 76.4 78.2 79.5	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.6 82.3 83.7 81.1 81.0 78.4 71.5 73.0 74.6 77.3 79.2 79.0 78.7	84.0 83.2 81.7 78.4 79.5 80.4 82.7 83.2 83.2 81.8 80.7 73.8 72.7 76.2 79.6
2009 2010 Utilization (percent) 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4 81.1 83.8 80.9 81.0 76.9 71.7 73.3 74.8 78.1 79.8 78.5	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0 82.3 82.8 83.2 81.1 80.9 76.2 71.7 73.5 75.4 78.7 79.5 78.9	83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9 81.7 83.3 82.5 80.6 81.1 75.7 72.1 73.7 75.2 78.3 79.3 79.1	84.0 84.2 82.4 77.4 79.4 80.4 82.6 82.1 82.6 82.1 82.6 73.0 75.6 78.3 79.6 79.2	83.8 83.8 83.3 77.8 79.7 80.2 82.7 83.2 82.9 82.9 82.3 80.9 80.8 74.5 72.5 73.1 76.1 78.5 79.3 79.1	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2 82.6 82.9 81.2 80.3 80.7 73.3 73.5 75.5 78.6 79.5 79.1	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4 82.4 82.7 80.3 80.3 73.4 73.0 73.6 76.2 78.4 79.5 79.4	84.0 82.7 82.0 78.7 79.7 79.9 83.0 83.0 82.5 83.5 80.5 79.6 72.7 73.2 73.4 76.6 78.6 79.6 78.9	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4 82.6 83.7 81.0 79.9 79.6 72.3 73.3 74.0 76.5 77.7 79.4 79.1	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9 82.1 83.6 81.3 80.8 79.0 71.7 72.9 74.1 77.2 78.8 78.9 78.6	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5 82.3 83.9 81.0 78.5 71.4 73.2 74.9 77.2 79.4 78.7 78.7	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5 82.5 83.7 81.0 81.3 77.7 71.5 72.9 74.8 77.6 79.4 79.5 78.8	83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1 81.8 82.8 83.2 80.9 81.0 76.3 71.8 73.5 75.1 78.3 79.6 79.0	83.9 83.6 82.3 77.9 79.6 80.2 82.6 83.3 82.8 82.0 80.6 80.9 74.5 72.6 73.2 75.7 78.5 79.5 79.1	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.5 83.3 81.0 80.3 79.9 72.8 73.1 73.7 76.4 78.2 79.5 79.1	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.6 82.3 83.7 81.1 81.0 78.4 71.5 73.0 74.6 77.3 79.2 79.0 78.7	84.0 83.2 81.7 78.4 79.5 80.4 82.7 83.2 81.8 80.7 80.1 73.8 72.7 76.2 78.6 79.4 79.0
1989 1990 1991 1992 1993 1994 1995 1996	83.0 85.4 81.6 78.5 78.0 80.4 81.2 84.4 81.1 83.8 80.9 71.7 73.3 74.8 78.1 79.8	145.7 143.6 83.1 84.5 82.6 77.9 78.6 80.3 81.1 84.0 82.3 82.8 83.2 81.1 80.9 76.2 71.7 73.5 75.4 78.9	83.3 84.3 82.8 77.2 79.2 80.1 82.0 83.9 81.7 83.3 82.5 80.6 81.1 75.7 72.1 73.7 75.2 78.3 79.3	84.0 84.2 82.4 77.4 80.4 82.4 83.5 82.1 82.6 82.4 80.5 81.3 75.3 72.1 73.0 75.6 78.3 79.6	83.8 83.8 83.3 77.8 79.7 80.2 82.7 83.2 82.2 82.9 82.3 80.9 80.8 74.5 72.5	83.9 83.3 82.3 78.5 79.8 80.0 82.7 83.2 82.6 82.9 81.2 80.3 80.7 73.3 73.5 75.5 79.5	84.0 82.2 82.0 78.6 80.2 80.1 82.7 82.4 82.4 82.7 80.3 80.3 73.4 73.0 73.6 76.2 78.4 79.5	84.0 82.7 82.0 78.7 79.7 79.9 83.0 82.5 83.5 81.8 80.5 72.6 72.7 73.2 73.4 76.6 78.6 79.6 79.6	84.2 82.3 81.8 79.4 79.6 80.3 83.0 83.4 82.6 79.9 79.6 72.3 73.3 74.0 76.5 77.7 79.4	84.6 82.0 81.0 79.2 79.9 80.8 83.5 82.9 82.1 83.6 81.3 80.8 79.0 71.7 72.9 74.1 77.2 78.8 78.9	84.7 82.0 80.0 78.9 80.0 81.0 83.8 82.5 82.3 83.9 81.0 71.5 71.4 73.2 74.9 77.2 79.4 78.7	84.9 81.9 79.2 78.7 79.7 81.2 84.5 82.5 82.5 83.7 81.0 81.3 77.7 71.5 72.9 74.8 77.6 79.4 79.5 78.8	83.2 84.7 82.3 77.9 78.6 80.2 81.4 84.1 81.8 82.8 83.2 80.9 81.0 76.3 71.8 73.5 75.1 78.6 79.0	83.9 83.6 82.3 77.9 79.6 80.2 82.6 83.3 82.3 82.8 82.0 80.6 80.9 74.5 72.6	84.0 82.4 81.9 78.9 79.8 80.1 82.9 82.5 83.3 81.0 80.3 79.9 72.8 73.1 73.7 76.4 78.2 79.5	84.7 82.0 80.1 78.9 79.8 81.0 83.9 82.6 82.3 83.7 81.1 81.0 78.4 71.5 73.0 74.6 77.3 79.2 79.0 78.7	84.0 83.2 81.7 78.4 79.5 80.4 82.7 83.2 83.2 81.8 80.7 73.8 72.7 76.2 79.6

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 Q3 Year Jan. Feb. Mar. May June July Aug. Sept. Oct. Nov. Dec. Q1 Q2 Q4 Annual Apr. IP (percent change)2 4.4 1988 .2 3.1 2.8 1.5 2.6 1989 .3 -.4 .3 .0 -1.1 .9 -.3 -.2 .2 1.9 -1.8 -3.3 1.0 -.1 .6 .6 -.7 .9 .5 -.2 .1 .2 .2 .2 -.8 -1.3 -.7 2.3 2.3 .9 .3 1990 -.2 -6.7 1991 -.7 .2 1.0 1.0 .0 .0 .9 -.2 -.5 -8.0 2.2 5.4 -2.0 -.4 -.6 -.2 .5 -2.0 1992 -.8 .7 .8 .6 .3 -.1 .8 -.6 .1 .6 .3 .0 6.1 1.8 2.9 1.9 1993 .5 .3 .3 -.5 2 .4 .3 7 .3 .5 3.2 2 1.5 5.1 2.5 1994 .4 .0 .9 0. 0. .9 4.4 5.4 3.2 5.6 4.0 .4 .6 .4 .6 2.4 1995 .2 .0 -.5 -.5 .2 3.0 -.2 -.1 -.3 .1 1.1 .1 .1 -1.41.4 .4 3.2 7 5 17 1996 -10 - 3 5 7 - 4 - 3 2.2 14 4 4 8 - 4 62 1997 -.1 .9 .5 .3 .2 .2 1.1 .7 .6 .7 .1 5.1 2.2 6.0 7.9 4.2 1998 .2 .2 .2 2.0 -.3 1.9 1.0 2.0 3.1 .6 -.9 -.8 -.6 .0 -.3 -.1 -.1 -.5 -.5 1.2 -.1 .6 .3 .3 1.2 5.8 1.2 1999 -.1 .8 .1 .4 .5 .3 2000 -.4 -.1 .0 -.5 -.4 .4 -.5 -.2 -.6 .4 1.7 -2.7-2.7 1.1 .1 2001 -.7 -.5 -.3 -.7 -.5 -.3 -.3 -.4 -.6 -.4 -.1 -6.3 -4.4 -4.6 -4.9 -4.0 2002 .7 .8 .8 -.4 .0 -.3 2.8 5.4 1.3 .4 -.6 -1.0-.1 2003 1.0 .0 4.5 -.3 -.1 -.1 .8 1.5 1.3 3.2 .2 .7 2004 .2 .5 -.6 .5 .8 -.9 - 1 9 3 7 2.0 1.9 1.5 5.4 1.8 .0 -2.0 2005 .4 .6 -.2 -.1 2 .3 - 2. 1.1 1.1 .6 5.0 .9 -2.12.8 2.6 2006 0. -.1 .2 -.2 .3 .1 -.4 -.2 .9 3.1 1.5 1.2 -.9 1.5 .3 -.1 -.3 .2 .5 .9 2007 -.5 .0 .0 .3 -.7 .3 1.7 1.0 .8 .3 -.1 1.8 -.1 -.7 2008 -.1 -.4 -.5 - 3 - 2 .0 -1.1-4.11.5 -1.1 -2.2-.6 -53 -9.0 -11.7 -2.8-9.6 2009 -2.3 1.0 1.2 18.8 10.7 -.7 1.7 -.6 -.5 1.2 .2 .7 .6 6.2 6.7 2010 .6 1.2 7.1 **IP** (2002=100)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 96.1 95.4 93.8 93.3 92.3 91.9 92.9 94.1 94.6 94.8 95.4 96.1 95.1 92.5 93.9 95.4 94.2 97.8 97.1 2010 97.1 97.0 97.2 99.0 Capacity (percent of 2002 output) 2008 133.8 133.9 134.0 134.2 134.3 134.4 134.5 134.6 134.7 134.7 134.7 134.7 133.9 134.3 134.6 134.7 134.4 133.9 2009 134.7 134.6 134.5 134.3 134.2 134.0 133.8 133.6 133.4 133.2 133.0 132.8 134.6 134.2 133.6 133.0 2010 132.7 132.6 132.4 132.3 132.2 132.6 Utilization (percent) 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 84.5 85.1 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 80.1 79.4 80.5 80.4 79.9 1991 78.9 78.9 79.6 80.3 80.2 80.1 80.8 80.3 79.8 79.5 79.6 80.2 79.6 79.0 80.5 80.5 80.5 80.5 80.9 79.6 80.5 80.7 80.4 1992 80.1 80.6 81.0 81.1 81.1 81.0 1993 81.4 81.6 81.4 81.6 81.1 81.2 81.4 81.3 81.5 82.0 82.1 82.4 81.5 81.3 81.4 82.2 81.6 1994 82.6 82.5 83.1 83.2 83.4 83.8 83.7 83.8 83.7 84.1 84.3 84.9 82.8 83.5 83.7 84.4 83.6 1995 84.9 84.6 84.4 84.0 83.9 83.8 83.2 84.0 84.0 83.5 83.4 83.4 84.6 83.9 83.8 83.4 83.9 1996 82.4 83.4 83.0 83.4 83.7 84.1 83.6 83.7 83.8 83.4 83.9 84.1 82.9 83.7 83.7 83.8 83.5 1997 83.8 84.3 84.5 83.9 83.9 83.8 83.7 84.3 84.6 84.8 85.0 84.8 84.2 83.9 84.2 84.9 84.3 1998 84.7 84.3 84.0 83.8 84.1 83.0 82.1 83.5 82.7 82.9 82.4 82.2 84.3 83.7 82.8 82.5 83.3 1999 82.2 82.1 81.8 81.5 81.8 81.3 81.3 81.5 81.0 81.9 81.9 82.3 82.0 81.5 81.3 82.0 81.7 80.9 80.9 2000 81.8 81.7 81.7 81.9 81.7 81.6 81.1 80.7 80.4 80.2 79.6 81.7 81.8 80.1 81.1 2001 79 0 78.5 78 1 77 9 773 76.8 76.5 76.2 75.8 75.3 749 74 7 78.5 77.4 76.2 75.0 76.7 2002 75.2 75.1 75.6 75.8 76.1 76.7 76.4 76.4 76.5 76.3 76.7 76.2 75.3 76.2 76.5 76.4 76.1 2003 76.8 77.0 76.9 76.2 76.2 76.4 76.9 76.9 76.9 76.2 76.2 76.5 77.5 77.4 76.6 77.3 76.7 79.1 79.4 79.9 2004 77.6 77.9 77.4 77.9 78.5 77.7 78.3 78.4 78.4 78.0 78.4 79.5 78.4 77.680.2 80.5 79 9 80.7 80.6 80.7 80.9 80.7 80.7 79 1 80.7 81.1 80.5 80.7 80.2 80.5 80.5 2005 2006 81.0 80.8 80.9 81.0 80.8 81.0 81.0 81.0 80.6 80.4 80.2 80.8 80.9 80.9 80.9 80.5 80.8 2007 80.3 80.9 80.6 80.8 80.8 80.7 80.7 80.7 80.8 80.2 80.6 80.7 80.6 80.7 80.7 80.5 80.6 2008 80.5 80.2 79.1 80.1 78.8 79.7 78.8 78.6 78.5 77.6 74.4 75.5 74.6 73.0 76.8 74.4 77.5 2009 71.4 70.9 69.8 69.4 68.8 68.5 69.5 70.4 70.9 71.1 71.7 72.3 70.7 68.9 70.3 71.7 70.4 2010 73.2 73.1 73.4 73.9 74.9 73.2

^{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 Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent change) ³ 1988 1989	2 .8	.2	.2	.8	2 9	.1	.0	.1	.3	.5	.3	.4	2.0	3.6	.6 -4.0	4.2 5	4.4
1990 1991 1992	2 8 9	1.4 7 .9	.4 8 .9	3 .4 .4	.1 .6 .5	.2 1.1 .1	2 .3 .8	.2 .1 5	1 1.1 1	9 2 .4	-1.2 3 .3	8 3 2	3.7 -9.6 -1.2	2.0 1.5 6.9	7.1 2.6	-7.5 1.2 1.4	.0 -2.6 2.6
1993 1994 1995 1996 1997	1.1 .1 .2 -1.2 2	.0 .1 3 1.4 1.1	3 1.2 1 5	.5 4 1.0	2 .5 2 .5	2 .2 .2 .8 .4	.3 8 .0	2 .5 .9 .3	.5 .1 .6 .5	.8 .7 4 4	.3 .5 1 .7	.5 .9 .1 .7	4.1 4.0 3.0 -1.9 6.2	.5 7.1 -2.5 7.0 2.7	.5 3.7 .3 4.2 6.5	5.7 6.9 .8 3.0 8.3	2.5 4.4 2.5 1.5 4.9
1998 1999 2000 2001 2002	.6 .0 4 6 .6	2 .4 1 5 1	3 4 .3 3 .8	.3 .0 .4 1 1	.5 .8 5 7 .6	-1.1 7 .1 5 1.0	9 .0 3 1 5	2.4 .7 8 7 .2	7 5 .4 3	.7 1.5 5 7 5	1 .4 6 2 .3	.2 .4 9 .1 7	3.1 .8 .1 -7.4 3.5	.1 .2 .9 -4.5 4.6	6 .4 -3.4 -5.0 1.9	3.8 7.2 -4.7 -4.8 -1.7	3.5 1.4 .8 -4.9
2003 2004 2005 2006 2007	.6 1 .6 .7 7	1 .7 .7 4 .3	.1 3 5 2 .4	-1.1 .5 .0 .5 .2	.0 .8 .4 4 .0	.4 9 .1 .2	1 .9 2 .0	3 .6 .1 .2 5	.8 3 -1.3 3 .3	1 1.0 1.5 5	1.0 .0 .8 2	3 .6 .0 1.2 .2	.7 1.5 5.5 2.6 1.5	-3.8 3.1 .9 .0 2.4	.8 3.3 -1.2 .3 1.0	3.6 4.9 5.1 -1.2 -1.2	.0 2.2 3.2 1.5
2008 2009 2010	3 -2.9 .9	7 .0 2	2 -1.8 1.2	-1.0 5 .8	2 9 .8	4 4	2 1.5	9 1.3	-3.8 .7	.6 2	-2.0 1.1	-2.9 2	-2.3 -21.9 5.6	-6.4 -9.2	-9.3 8.2	-16.8 5.4	-4.0 -11.3
IP (2002=100) 2008 2009 2010	107.7 92.9 94.1	107.0 92.9 94.0	106.7 91.2 95.1	105.6 90.7 95.9	105.4 90.0 96.7	105.0 89.6	104.8 91.0	103.8 92.1	99.9 92.7	100.5 92.5	98.5 93.5	95.6 93.3	107.1 92.3 94.4	105.4 90.1	102.8 91.9	98.2 93.1	103.4 91.7
Capacity (percent of 2002 output) 2008 2009 2010	137.3 138.2 135.7	137.5 138.1 135.5	137.6 137.9 135.4	137.8 137.8 135.2	137.9 137.5 135.1	138.1 137.3	138.2 137.1	138.3 136.8	138.3 136.6	138.4 136.3	138.3 136.1	138.3 135.8	137.5 138.1 135.5	137.9 137.5	138.3 136.8	138.3 136.1	138.0 137.1
Utilization (percent) 1988	83.4	83.5	83.7	84.3	84.2	84.2	84.2	84.2	84.4	84.8	85.0	85.2	83.5	84.2	84.3	85.0	84.3
1989 1990 1991 1992	85.9 81.8 78.7 77.8	84.9 82.9 78.0 78.4	84.8 83.0 77.3 79.1	84.7 82.6 77.4 79.3	83.8 82.6 77.8 79.6	83.7 82.6 78.6 79.7	82.5 82.3 78.7 80.2	83.1 82.3 78.7 79.7	82.7 82.2 79.5 79.5	82.3 81.3 79.3 79.8	82.3 80.2 78.9 80.0	82.1 79.4 78.6 79.7	85.2 82.6 78.0 78.5	84.1 82.6 78.0 79.5	82.8 82.2 79.0 79.8	82.2 80.3 78.9 79.8	83.6 81.9 78.5 79.4
1993 1994 1995 1996	80.5 81.3 84.4 81.0 82.5	80.5 81.2 84.0 81.9 83.1	80.2 82.1 83.8 81.4 83.6	80.5 82.4 83.3 82.0 82.7	80.3 82.7 83.0 82.2 82.8	80.0 82.7 83.0 82.7 82.8	80.2 82.8 82.2 82.5 82.5	80.0 83.1 82.7 82.6 83.3	80.3 83.0 83.1 82.7 83.5	80.8 83.5 82.5 82.2 83.5	81.0 83.8 82.3 82.6 83.9	81.3 84.4 82.2 82.9 83.7	80.4 81.5 84.1 81.4 83.1	80.3 82.6 83.1 82.3 82.7	80.2 83.0 82.6 82.6 83.1	81.0 83.9 82.3 82.6 83.7	80.5 82.7 83.0 82.2 83.1
1998 1999 2000 2001 2002	83.8 80.9 80.3 76.3 73.2	83.3 81.0 80.0 75.8 73.1	82.7 80.4 80.2 75.5 73.7	82.7 80.2 80.3 75.4 73.7	82.8 80.6 79.8 74.8 74.1	81.5 79.8 79.7 74.3 74.9	80.5 79.7 79.3 74.2 74.5	82.1 80.0 78.6 73.6 74.7	81.3 79.4 78.8 73.4 74.8	81.5 80.4 78.3 72.8 74.5	81.2 80.6 77.7 72.7 74.8	81.1 80.7 76.9 72.8 74.3	83.3 80.8 80.2 75.9 73.3	82.3 80.2 79.9 74.8 74.2	81.3 79.7 78.9 73.7 74.7	81.3 80.6 77.6 72.7 74.5	82.1 80.3 79.1 74.3 74.2
2003 2004 2005 2006 2007	74.8 75.3 78.6 79.9 78.7	74.8 75.9 79.2 79.5 78.8	74.9 75.7 78.7 79.3 79.1	74.1 76.1 78.7 79.6 79.2	74.1 76.7 79.0 79.2 79.1	74.5 76.0 79.1 79.3 79.2	74.5 76.7 78.9 79.2 79.4	74.3 77.1 78.9 79.3 78.9	74.9 76.9 77.9 79.0 79.1	74.8 77.7 79.0 78.6 78.5	75.6 77.7 79.5 78.4 78.7	75.4 78.2 79.4 79.3 78.8	74.8 75.6 78.8 79.6 78.9	74.2 76.3 78.9 79.4 79.2	74.5 76.9 78.5 79.2 79.2	75.3 77.8 79.3 78.8 78.7	74.7 76.7 78.9 79.2 79.0
2008 2009 2010	78.4 67.2 69.4	77.8 67.2 69.4	77.5 66.1 70.3	76.6 65.9 70.9	76.4 65.4 71.6	76.1 65.3	75.8 66.4	75.1 67.3	72.2 67.9	72.6 67.9	71.2 68.7	69.1 68.7	77.9 66.8 69.7	76.4 65.5	74.4 67.2	71.0 68.4	74.9 67.0

^{1.} Refer 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 $(0.08 \times 10\% = 0.8\%)$. 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 is provided in the *Federal Reserve Bulletin*, vol. 95 (August 2009), pp. A125–A145. The annual revision published in March 2008 is described in an article published in the Federal Reserve Bulletin, vol. 94 (August 2008), pp. Â41-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

2010: January 15, February 17, March 15, April 15, May 14, June 16, July 15, August 17, September 15, October 18, November 16, and December 15.