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INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production declined 0.1 percent in August after an increase of 0.4 percent in July. Manufacturing output was unchanged in August; it advanced an upward-revised 0.4 percent in July. The output at utilities fell in August, as temperatures returned to more-normal levels. Production at mines moved down after increasing in the previous four months.

(over)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION: SUMMARY

Seasonally adjusted 2002=100 Percent change 2006 Aug. '05 to 2006 **Industrial production** July May June July May June^r Aug.^p Aug.^p Aug. '06 **Total index** 112.2 113.4 113.9 113.7 .1 1.1 .4 -.1 4.7 .0 Previous estimates 112.2 113.1 113.5 .8 .4 Major market groups -.2 **Final Products** 113.5 115.0 115.4 115.5 1.4 .3 5.0 .1 106.3 107.9 107.5 107.6 -.2 1.5 1.9 Consumer goods -.4 .1 **Business** equipment 132.0 133.5 136.6 136.3 -.4 1.2 2.3 -.2 13.5 .2 111.6 112.3 113.0 112.4 .7 -.5 4.0 Nonindustrial supplies .6 Construction 113.3 113.6 114.4 114.2.3 .7 -.6 5.6 -.1 Materials 111.0 112.1 112.6 112.4 .3 .9 .5 -.2 4.7 Major industry groups 114.1 115.1 115.5 5.4 Manufacturing (see note below) 115.5 -.2 .9 .4 .0 Previous estimates 114.1 115.1 115.2 -.1 .8 .1 101.4 102.0 101.6 .9 Mining 100.4 .5 2.5 .6 - 3 1.9 Utilities 106.2 109.0 110.1 109.2 2.6 1.0 -.8 .7 Capacity Percent of capacity growth Aug. '05 to Average 1994-95 2001-02 2005 2006 1972-2005 **Capacity utilization** high low Aug. Mav June July Aug.^p Aug. '06 **Total industry** 81.0 85.0 73.9 80.3 81.7 82.5 82.7 82.4 1.9 81.7 Previous estimates 82.3 82.4 Manufacturing (see note below) 79.8 84.5 72.0 78.8 80.5 81.1 81.2 81.0 2.5 80.6 81.1 81.0 Previous estimates 87.3 89.0 85.6 88.6 90.3 91.7 Mining 91.3 91.9 -1.1 Utilities 86.7 93.7 83.7 88.2 86.3 88.5 89.3 88.5 .3 Stage-of-process groups Crude 86.4 89.4 83.2 86.8 88.2 88.8 89.3 89.1 -.9

Primary and semifinished Finished

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.

74.6

70.8

81.8

77.1

82.7

79.3

83.6

79.9

84.0

79.9

83.6

79.8

2.3

2.3

82.1

77.9

88.1

80.5

Capacity utilization for total industry fell to 82.4 percent in August. Even so, the utilization rate was more than 2 percentage points above its level in August 2005 and 1.4 percentage points above its 1972–2005 average.

Market Groups

The output of consumer goods edged up 0.1 percent in August. An increase of 1.2 percent in the production of durable consumer goods mainly reflected an increase in the output of automotive products. After falling at an annual rate of 1 million units in July, assemblies of autos and light trucks rose 0.4 million units, to 10.6 million units, in August. The output of appliances, furniture, and carpeting moved up 1.2 percent after having declined for four consecutive months. The index for home electronics moved up, and the index for miscellaneous durable goods decreased. The production of consumer nondurable goods fell 0.3 percent; within this category, all of the major indexes declined, except clothing, which edged up 0.1 percent.

In August, the production of business equipment moved down 0.2 percent but was up 13.5 percent from its year-earlier level. The index for industrial and other equipment edged down 0.2 percent. Led by gains in the output of civilian aircraft and motor vehicles, the production of transit equipment increased 0.3 percent and was up 18.5 percent from its year-earlier level. A decline of 0.4 percent in the production of information processing equipment reflected a decrease in the output of communications equipment that was partly offset by an increase in the production of business computers. A rise of 0.3 percent in the production of defense and space equipment followed appreciable gains in June and July.

The production of construction supplies edged down 0.1 percent in August after a gain of 0.7 percent in July. The index for business supplies fell 0.7 percent in August, its first decline in six months. A decrease of 0.2 percent in the index for materials reflected lower output of both non-energy and energy materials. The indexes for consumer parts and for equipment parts moved up, but the index for other durable materials was flat. Among the major categories of nondurable non-energy materials, the indexes for paper and for chemicals fell, and the output of textiles was unchanged.

Industry Groups

Manufacturing output was flat in August, as a rise in the production of durable goods was offset by a decrease in the output of nondurables. Capacity utilization in manufacturing edged down to 81.0 percent, a level that was still 2.2 percentage points above that of August 2005. Within the durable manufacturing category, the production of motor vehicles and parts increased but was down 2.7 percent from its year-earlier level. An increase in the output of primary metals in August partially reversed a decline in July. The index for fabricated metal products moved up in August for a third consecutive month. The production of machinery retreated 0.5 percent after a jump of 4.5 percent in July. The output of computer and electronic products increased 0.5 percent in August. A decrease in the output of nondurable goods reflected widespread declines among the major categories; the only major category that increased was petroleum and coal products, which rose 0.2 percent. The output of other (non-NAICS) manufacturing industries (publishing and logging) fell 0.6 percent.

In mining, a drop of 0.3 percent in output was due mostly to a decline in oil and gas extraction. Capacity utilization at mines declined to 91.7 percent. The output at utilities dropped 0.8 percent, and capacity utilization for the industry fell to 88.5 percent.

Capacity utilization for industries in the crude stage of processing decreased 0.2 percentage point, to 89.1 percent. The operating rate for industries in the primary and semifinished stages moved down 0.4 percentage point, to 83.6 percent. For industries in the finished goods stage, capacity utilization edged down 0.1 percentage point, to 79.8 percent.

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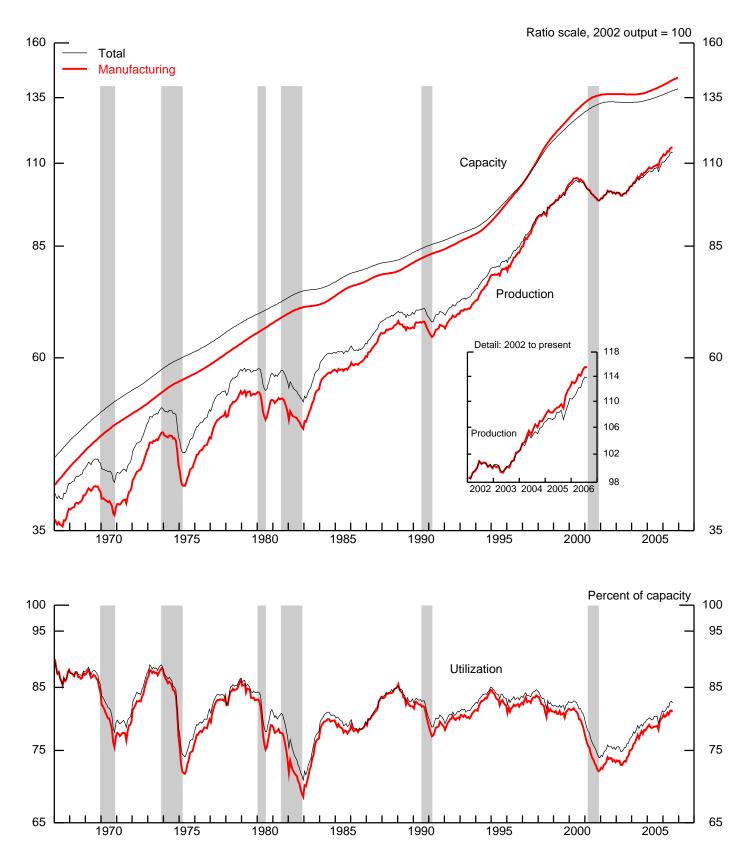
Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

Revision of Industrial Production and Capacity Utilization

The Federal Reserve Board plans to issue an annual revision to the index of industrial production (IP) and the related measures of capacity and capacity utilization late this year; the publication date is yet to be determined. The revised IP indexes will incorporate data from the 2004 and 2005 Annual Surveys of Manufactures and from selected editions of the 2004 and 2005 Current Industrial Reports, all from the U.S. Census Bureau. Annual data from the U.S. Geological Survey regarding metallic and nonmetallic minerals (except fuels) for 2004 and 2005 will also be incorporated. The updating will include revisions to the monthly indicator for each industry (either product data or input data) and to seasonal factors.

Capacity and capacity utilization will be revised to incorporate preliminary data from the Census Bureau's 2005 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.

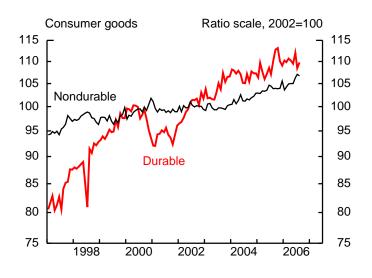
Once the revision is published, it will be available on the Board's website at www.federalreserve.gov/releases/G17. The revised data will also be available through the website of the Department of Commerce. Further information on these revisions can be obtained from the Board's Industrial Output Section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

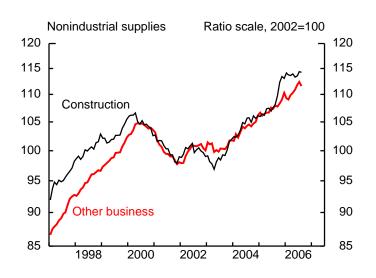


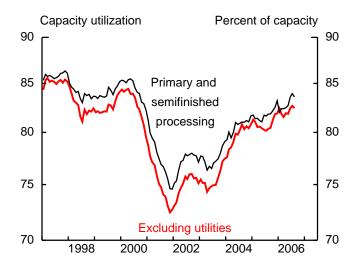
1. Industrial production, capacity, and utilization

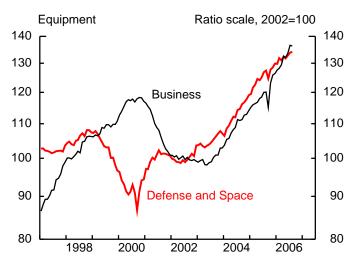
Notes: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER). See note on cover page.

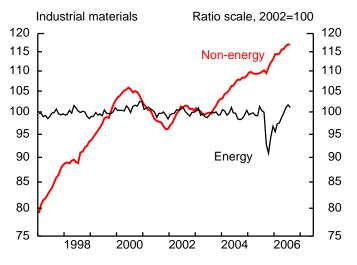
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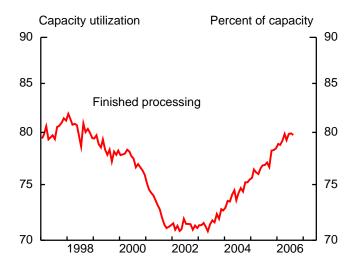




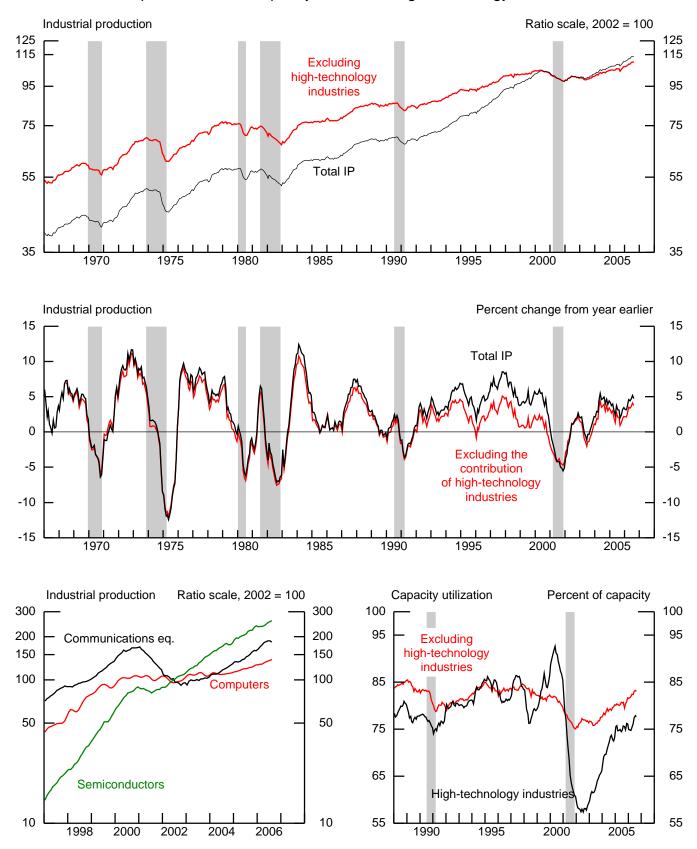








3. Industrial production and capacity utilization, high-technology industries



Notes: High-technology industries are defined as semiconductors and related electronic components (NAICS 334412-9), computers (NAICS 3341), and communications equipment (NAICS 3342). The shaded areas are periods of business recession as defined by the NBER.

Table 1 INDUSTRIAL PRODUCTION: MARKET AND INDUSTRY GROUP SUMMARY

				rth quarte urth quar			Annu	al rate			Month	nly rate		Aug. '(
Item		2005 proportion ¹	2003	2004	2005	2005 Q3	Q4	2006 Q1	Q2 ^r	2006 May ^r	Juner	July ^r	Aug. ^p	to Aug. '(
Total IP		100.00	1.5	4.3	3.0	1.4	5.3	5.1	6.6	.1	1.1	.4	1	4.7
		100.00	1.5	1.5	5.0	1.1	5.5	5.1	0.0	.1	1.1		.1	,
MARKET GROUPS Final products and nonindustrial supplies		57.59	1.7	4.3	4.8	3.5	8.3	1.8	5.7	1	1.2	.4	1	4.7
Consumer goods		29.69	1.7	2.0	2.4	3.7	1.8	-1.1	3.6	1	1.5	4	.1	1.9
Durable		8.35	4.3	1.3	3.1	10.8	2.8	-1.8	1.2	7	2.3	-3.1	1.2	3
Automotive products		4.55	6.5	.4	2.5	16.7	-3.1	-1.4	2.8	9	4.3	-6.2	2.0	-2.9
Home electronics		.25	18.5	-3.7	17.2	-17.7	68.1	4.3	2.5	2.0	1.9	.9	.5	20.5
Appliances, furniture, carpeting		1.35	2.2	2.4	2.2	10.3	-1.2	-2.8	-2.9	7	-1.2	2	1.2	-1.7
Miscellaneous goods		2.19	7	3.0	3.1	3.0	12.7	-2.7	.3	4	.3	1.1	1	3.9
Nondurable		21.35	.1	2.3	2.1	1.0	1.4	8	4.6	.0	1.2	.7	3	2.8
Non-energy		16.93	.6 2.1	2.5 1.8	2.2 2.9	7 1.2	3.9	1.7	3.5	6	.3	.8 .9	2	3.2
Foods and tobacco Clothing		9.15 .68	-9.3	-2.8	-1.2	6.3	6.0 4.3	3.5 8.8	7 7.1	-1.2	1 6	2.2	1 .1	7.3
Chemical products		4.69	1.0	3.0	-1.2	-4.4	3	-1.6	9.6	.4	1.0	.3	3	2.8
Paper products		1.90	-3.5	5.9	3.7	-5.3	4.6	-2.1	6.8	.0	.7	.6	7	2.6
Energy		4.42	-1.9	1.7	1.6	8.3	-7.8	-10.2	9.1	2.2	4.6	.6	5	1.0
Business equipment		10.15	2.8	10.8	10.5	2.4	24.6	11.1	14.0	4	1.2	2.3	2	13.5
Transit		1.99	3.6	9.7	15.0	-28.2	82.1	26.6	7.0	8	1.5	2.2	.3	18.5
Information processing		2.82	6.5	14.6	19.4	23.0	24.4	15.5	22.1	1.0	1.3	1.2	4	17.3
Industrial and other		5.35	.4	9.2	4.4	5.4	8.5	3.1	12.6	9	.9	2.9	2	9.6
Defense and space equipment		2.05	5.4	9.7	9.3	5.8	8.1	6.8	4.4	5	.8	.8	.3	5.4
Construction supplies		4.45 10.63	1.7 .9	4.6 3.9	6.6 3.7	4.7 2.7	17.4 6.0	3.2 .7	8 5.9	6 .5	.3 .8	.7 .5	1 7	5.6 3.4
Business supplies					5.7				5.9	.5		.5	/	
Materials		42.41	1.2	4.3	.7	-1.5	1.2	9.8	7.8	.3	.9	.5	2	4.7
Non-energy		29.43	1.7	6.0	3.3	1.7	8.3	8.8	5.5	.1	.7	.4	1	6.1
Durable		18.76 3.54	3.8	7.6 2.0	7.0	7.0 6.8	13.4 3.3	7.9	7.5	.1 -1.7	1.0	.6 -2.1	.1	8.7
Consumer parts Equipment parts		6.68	-1.2	2.0	16.2	13.7	20.9	5.5 11.4	4.1	-1.7	1.2	-2.1	.5	1.6
Other		8.53	.0	4.9	2.0	1.9	11.8	7.0	3.3	.7	.3	.1	.0	6.2
Nondurable		10.67	-1.7	3.2	-3.1	-7.1	3	10.6	1.8	.1	.3	.1	4	1.5
Textile		.61	-6.5	-6.4	-4.5	4.1	-5.1	2.5	-10.1	-1.3	.1	.0	.0	-3.4
Paper		2.30	-6.5	4.6	8	-4.3	5.2	5.0	-1.0	4	1.1	9	8	1.1
Chemical		4.42	1.6	5.3	-8.6	-15.7	-7.4	19.2	6.4	1.4	.0	.5	5	1.1
Energy		12.98	1	2	-5.4	-8.6	-14.3	12.3	13.2	.9	1.3	.7	6	1.1
INDUSTRY GROUPS		80.78	1.7	5.1	4.2	2.0	9.1	5.3	5.1	2	.9	4	.0	5 4
Manufacturing Manufacturing (NAICS)		76.36	2.0	5.1	4.2	2.0	9.1	5.8	5.2	2 2	1.0	.4	.0	5.4
Durable manufacturing		42.89	4.0	7.1	7.8	7.0	15.2	5.3	7.4	2	1.0	.3	.0	7.8
Wood products	321	1.54	4.0	3.0	7.4	1.3	34.0	-12.9	-10.9	8	-1.6	.7	-2.0	3
Nonmetallic mineral products	327	2.28	2.2	5.1	2.9	1.4	14.5	9.1	-4.1	-1.5	.4	4	.0	4.5
Primary metal	331	2.44	1.0	3.9	-1.7	1.8	21.8	9.5	9.8	2.8	.1	-1.6	1.0	10.7
Fabricated metal products	332	5.76	7	5.2	4.0	3.4	9.2	6.3	5.7	9	.6	.7	.3	6.5
Machinery	333	5.33	1.0	11.5	6.3	3.1	17.8	-1.7	7.7	-2.3	.7	4.5	5	10.9
Computer and electronic products	334	7.87	15.7	16.1	23.0	22.3	27.0	11.0	16.8	1.3	2.0	1.3	.5	16.9
Electrical equip., appliances,	225	2.10	7	5.2	7.0	12.4	126	0.8	12.0	.7	4	2.4	1	11.4
and components Motor vehicles and parts	335 3361–3	2.10 7.09	7	5.2 2.6	7.0 2.3	12.4 13.5	12.6 -2.3	9.8 2	2.2	-1.3	4 3.2	-4.9	.1 1.0	-2.7
Aerospace and miscellaneous		1.09	4.7	2.0	2.5	15.5	-2.5	2	2.2	-1.5	5.2	-4.7	1.0	-2.1
transportation equipment	3364–9	3.66	4	5.3	12.0	-15.3	44.0	19.6	11.2	.0	.9	2.1	.4	14.7
Furniture and related products	337	1.63	.3	2.2	-2.0	2.1	-2.2	5	6.7	1.1	.3	-1.7	.6	.7
Miscellaneous	339	3.18	.6	3.9	4.8	7.0	4.1	1.7	6.6	.5	.8	.3	3	3.2
Nondurable manufacturing		33.47	4	2.8	.0	-2.8	2.4	6.4	2.4	2	.7	.4	4	3.0
Food, beverage, and tobacco products	311,2	10.67	1.7	1.7	3.4	-2.8	6.2	5.1	3	-1.3	.0	.4	4 1	3.5
Textile and product mills	313,4	1.09	-4.2	-3.9	3	9.3	-2.6	-3.5	-9.3	9	1	.5	5	-4.1
Apparel and leather	315,6	.73	-9.4	-2.2	4	7.7	5.6	7.8	5.6	.5	8	2.1	.0	6.7
Paper	322	2.68	-6.0	4.5	7	-4.7	8.6	1.5	-4.0	.0	1.4	9	7	.9
Printing and support	323	2.01	-3.0	1.5	1.7	4.1	2.8	10.3	6.2	7	.7	.1	8	4.8
Petroleum and coal products	324	2.51	.3	6.2	-6.0	-14.2	-11.4	16.8	-2.8	3.6	3.1	9	.2	1.2
Chemical Plastics and rubber products	325 326	10.19 3.59	.7	4.2 3.2	-3.5 3.9	-9.9 5.4	-2.4 10.7	8.1 3.1	7.9 5.1	.5 -1.3	.6 1.1	.4 1.0	4 8	2.4
Other manufacturing (non-NAICS)	1133,5111	4.42	-3.0	3.7	1.9	-6.9	3.3	-2.5	3.0	-1.5	1	.5	6	.6
Mining	21	9.75	.5	4	-6.8	-14.9	-15.0	26.3	10.4	.5	.9	.6	3	2.5
Utilities	21 2211,2	9.75	.5	4	-0.8	-14.9	-15.0	-14.3	15.9	1.9	2.6	1.0	5	.7
Electric	2211	7.73	1.9	2.0	3.8	17.8	-4.1	-11.9	13.8	2.3	2.3	1.3	-1.1	1.4
Natural gas	2212	1.73	-5.5	-2.9	-1.6	-3.7	-13.9	-24.4	26.4	.2	4.0	.0	.4	-2.9

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 separately.

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

Percent change, seasonally adjusted			Fou	irth quart	er to									
				urth quar			Annua				Month	nly rate		Aug. '05
Item		2005 proportion	2002	2004	2005	2005	04	2006	Q2 ^r	2006	June ^r	Tee le el	Aug. ^p	to
			2003			Q3	Q4	Q1		May ^r		July ^r		Aug. '06
Total industry		100.00	1.5	4.3	3.0	1.4	5.3	5.1	6.6	.1	1.1	.4	1	4.7
Energy		20.38	.5	.7	-2.5	-2.8	-10.5	4.1	12.5	1.4	2.0	.6	5	1.4
Consumer products		4.42	-1.9	1.7	1.6	8.3	-7.8	-10.2	9.1	2.2	4.6	.6	5	1.0
Commercial products		2.49	5.1	2.4	2.9	5.2	1.4	-10.6	10.9	2.8	1.3	.0	-1.1	.3
Oil and gas well drilling	213111	.49	21.2	8.3	11.8	19.9	7.5	17.1	32.0	.9	1.2	9	3.4	16.8
Converted fuel		3.81	.6	1.6	-2.2	1.5	-14.9	-6.5	26.4	3.2	1.8	.6	6	1.2
Primary materials		9.17	4	-1.0	-6.8	-12.6	-14.1	21.1	8.4	.0	1.2	.7	6	1.1
Non-energy		79.62	1.7	5.1	4.4	2.5	9.5	5.4	5.1	3	.8	.4	.0	5.5
Selected high-technology industries		4.80	21.1	18.4	25.7	27.0	27.1	15.2	20.9	1.8	2.4	1.3	.3	19.2
Computers and peripheral equipment	3341	.79	5.8	4.6	12.0	8.8	14.5	10.6	16.3	1.7	1.4	1.2	1.4	14.8
Communications equipment	3342	1.21	9.9	22.3	25.4	33.3	33.1	30.5	39.2	1.3	1.6	.1	-2.2	24.4
Semiconductors and related electronic components	334412–9	2.79	34.1	21.4	29.9	30.0	28.1	10.0	14.2	2.0	3.0	1.9	1.3	18.3
Excluding selected high-technology industries		74.83	.5	4.2	3.0	1.0	8.3	4.7	4.1	4	.7	.3	1	4.6
Motor vehicles and parts	3361-3	7.09	4.7	2.6	2.3	13.5	-2.3	2	2.2	-1.3	3.2	-4.9	1.0	-2.7
Motor vehicles	3361	3.53	10.4	1.6	2	21.1	-13.0	.8	2.9	-1.9	5.2	-8.1	1.9	-7.0
Motor vehicle parts	3363	3.09	-1.5	2.2	3.3	7.8	2.0	1.0	7.0	7	1.4	-1.7	.4	1.9
Excluding motor vehicles and parts		67.74	.0	4.4	3.1	3	9.5	5.3	4.3	3	.5	.9	2	5.4
Consumer goods		21.02	.7	2.3	2.3	.0	4.8	.9	2.7	5	.3	.7	1	3.0
Business equipment		8.01	.5	9.0	9.6	-1.8	27.5	8.4	13.1	5	1.2	2.7	.3	13.7
Construction supplies		4.41	1.7	4.6	6.5	4.6	17.3	3.1	-1.0	6	.2	.7	1	5.5
Business supplies Materials		7.75 24.41	-1.6 8	3.3 4.7	2.7 .6	.4 -1.6	6.4 6.9	3.7 9.7	3.7 4.3	3 .0	.6 .4	.6 .5	6 2	3.6 5.4
Measures excluding selected														
high-technology industries		05.20	5	26	1.0	1	1.0	1.0	5.0	0	1.0	4	2	4.0
Total industry		95.20	.5	3.6	1.9	.1	4.2	4.6	5.9	.0	1.0	.4	2	4.0
Manufacturing ¹		75.99	.4	4.2	2.8	.5	8.0	4.7	4.1	3	.8	.3	1	4.5
Durable		38.29	1.7	5.6	5.5	4.5	13.6	4.0	5.7	5	1.0	.2	.2	6.3
Measures excluding motor vehicles and parts														
Total industry		92.91	1.3	4.5	3.1	.5	5.9	5.5	6.9	.2	.9	.8	2	5.3
Manufacturing ¹		73.69	1.4	5.4	4.4	1.0	10.3	5.9	5.4	1	.7	.8	1	6.2
Durable		36.00	3.8	8.0	8.8	5.7	18.8	6.4	8.3	.0	.8	1.3	.1	9.8
Measures excluding selected high-technology industries														
and motor vehicles and parts														
Total industry		88.11	.1	3.6	1.8	9	4.7	5.0	6.1	.1	.8	.8	3	4.5
Manufacturing ¹		68.90	.0	4.4	2.9	7	9.1	5.2	4.3	2	.6	.8	2	5.3
Stage-of-process components of non-energy materials,														
measures of the input to														
Finished processors		13.13	3.6	7.9	8.3	8.1	12.0	7.8	8.0	2	1.4	.6	.0	8.5
Primary and semifinished processors		16.30	.2	4.3	7	-3.3	5.3	9.8	3.5	.3	.2	.2	2	4.2

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

r Revised. p Preliminary. 1. Refer to note on cover page.

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

	2005	2005		2006		2006			
Item	average	Q3	Q4	Q1	Q2	May	June	July	Aug.
Total	11.95	12.17	11.78	11.71	11.56	11.33	11.61	10.77	11.05
Autos	4.32	4.31	4.38	4.54	4.33	4.34	4.10	4.07	4.30
Trucks	7.63	7.86	7.40	7.18	7.23	6.99	7.51	6.70	6.75
Light	7.21	7.45	6.98	6.69	6.78	6.53	7.11	6.17	6.33
Medium and heavy	.42	.41	.42	.48	.45	.46	.40	.53	.42
Memo	11.52	11.76	11.26	11.02	11.10	10.97	11.21	10.22	10.62
Autos and light trucks	11.53	11.76	11.36	11.23	11.10	10.87	11.21	10.23	10.63

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

Item		2005 proportion	2005 Dec.	2006 Jan.	Feb.	Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p
							<u> </u>	ý		ž	
Total IP		100.00	110.4	110.3	110.7	111.2	112.1	112.2	113.4	113.9	113.7
MARKET GROUPS		57.50	112.0	111 5	111.0	110.5	112.1	112.0	114.2	114.0	1147
Final products and nonindustrial supplies Consumer goods		57.59 29.69	112.0 106.6	111.5 105.4	111.8 105.8	112.5 106.6	113.1 106.5	113.0 106.3	114.3 107.9	114.8 107.5	114.7 107.6
Durable		8.35	100.0	110.2	105.8	110.7	110.2	100.5	112.0	107.5	107.0
Automotive products		4.55	110.1	112.3	112.0	113.6	112.5	111.5	112.0	109.0	111.2
Home electronics		.25	133.4	132.7	131.7	130.5	129.9	132.5	135.0	136.2	136.9
Appliances, furniture, carpeting		1.35	104.7	105.6	105.2	106.1	105.8	105.1	103.8	103.5	104.7
Miscellaneous goods		2.19	106.7	106.2	105.8	105.4	106.1	105.7	106.0	107.2	107.1
Nondurable		21.35	105.5	103.6	104.2	104.9	105.0	105.0	106.3	107.0	106.7
Non-energy		16.93	105.1	105.3	104.6	105.2	106.2	105.6	105.9	106.7	106.5
Foods and tobacco		9.15	106.7	107.3	106.5	106.6	107.5	106.2	106.2	107.2	107.1
Clothing		.68	86.5	87.8	87.4	88.4	89.3	89.7	89.2	91.1	91.2
Chemical products		4.69	104.1	103.1	102.9	104.7	105.6	105.6	106.7	106.9	106.7
Paper products		1.90	106.4	106.3	104.1	104.6	106.4	106.5	107.2	107.9	107.1
Energy		4.42	107.2	97.0	103.0	103.9	100.5	102.7	107.4	108.1	107.6
Business equipment		10.15	126.4	127.6	128.2	129.4	132.5	132.0	133.5	136.6	136.3
Transit Information processing		1.99 2.82	129.4 144.8	134.0 146.6	134.5 148.9	133.3 151.3	136.3 154.9	135.2 156.4	137.2 158.4	140.2 160.3	140.6 159.6
Information processing Industrial and other		2.82 5.35	144.8 116.0	140.0	148.9	131.3	134.9	136.4 119.0	138.4	123.5	123.3
Defense and space equipment		2.05	129.9	129.7	131.8	131.1	132.4	131.7	132.8	133.8	123.3
		2.05			101.0	101.1	102.7	101.7	102.0	100.0	104.2
Construction supplies		4.45	113.1	114.1	113.7	113.6	114.0	113.3	113.6	114.4	114.2
Business supplies		10.63	110.3	109.3	109.1	109.9	110.3	110.9	111.8	112.4	111.6
Materials		42.41	108.3	108.8	109.3	109.5	110.7	111.0	112.1	112.6	112.4
Non-energy		29.43	113.0	114.4	114.3	114.5	115.6	115.7	116.5	117.0	116.9
Durable		18.76	121.8	122.9	123.4	123.5	125.1	125.1	126.4	127.1	127.2
Consumer parts		3.54	102.0	103.4	103.4	104.3	105.5	103.7	104.9	102.8	103.3
Equipment parts		6.68	155.3	155.5	156.7	157.9	160.6	161.6	164.3	168.4	168.6
Other		8.53	107.7	109.2	109.5	108.7	109.7	110.0	110.4	110.5	110.5
Nondurable Textile		10.67 .61	99.2 82.6	101.0 84.6	100.1 84.1	100.3 83.6	100.8 82.6	100.8 81.5	101.1 81.6	101.3 81.6	100.8
Paper		2.30	98.0	99.2	97.7	98.2	98.0	97.6	98.7	97.8	97.0
Chemical		4.42	99.2	101.5	100.8	101.3	101.9	103.2	103.2	103.8	103.2
Energy		12.98	96.8	95.5	97.2	97.5	98.8	99.6	101.0	101.7	101.1
INDUSTRY GROUPS											
Manufacturing		80.78	112.2	113.1	112.8	113.3	114.3	114.1	115.1	115.5	115.5
Manufacturing (NAICS)		76.36	112.8	113.8	113.6	114.1	115.1	114.8	115.9	116.3	116.3
Durable manufacturing		42.89	121.4	122.3	122.5	123.2	124.6	124.3	125.8	126.1	126.5
Wood products	321	1.54	113.4	111.5	109.4	107.7	107.6	106.7	105.0	105.8	103.7
Nonmetallic mineral products	327	2.28	109.6	112.6	112.5	112.1	112.2	110.5	111.0	110.6	110.7
Primary metal	331	2.44	104.0	106.8	106.1	104.4	106.2	109.2	109.4	107.6	108.7
Fabricated metal products Machinery	332 333	5.76 5.33	108.5 121.8	109.8 119.7	110.4 119.1	111.4 120.7	112.5 123.7	111.5 120.8	112.3 121.7	113.1 127.2	113.5 126.5
Computer and electronic products	334	5.55 7.87	172.5	172.4	173.8	120.7	123.7	120.8	121.7	127.2	120.5
Electrical equip., appliances,	554	7.07	112.3	1/2.4	113.0	113.3	170.0	100.5	105.7	100.5	107.2
and components	335	2.10	110.6	113.3	112.5	114.2	116.2	117.0	116.6	119.3	119.5
Motor vehicles and parts	3361-3	7.09	109.5	112.3	111.3	112.9	112.6	111.1	114.6	109.0	110.1
Aerospace and miscellaneous											
transportation equipment	3364-9	3.66	118.4	119.6	122.3	121.0	123.8	123.8	125.0	127.6	128.1
Furniture and related products	337	1.63	99.4	99.3	99.7	100.6	100.7	101.8	102.1	100.3	100.9
Miscellaneous	339	3.18	111.7	112.0	113.0	113.0	113.8	114.3	115.2	115.6	115.2
Nondurable manufacturing		33.47	102.7	103.7	103.1	103.4	103.9	103.7	104.5	104.9	104.5
Food, beverage, and tobacco products	311,2	10.67	106.9	107.8	107.1	107.3	108.2	106.8	106.8	107.7	107.6
Textile and product mills	313,4	1.09	89.7	91.5	90.9	89.7	89.1	88.3	88.2	88.6	88.1
Apparel and leather	315,6	.73	87.7	88.9	88.5	89.2	90.0	90.5	89.8	91.6	91.7
Paper	322	2.68	99.3	100.8	98.3	97.4	97.3	97.3	98.7	97.8	97.1
Printing and support	323	2.01	98.4	100.2	100.7	101.4	102.5	101.8	102.5	102.6	101.9
Petroleum and coal products	324	2.51	101.7	105.0	103.9	101.9	99.4	103.0	106.2	105.2	105.4
Chemical Plastics and rubber products	325 326	10.19 3.59	101.9 108.4	102.5 108.0	102.2 108.0	103.3 108.4	104.1 110.0	104.6 108.6	105.3 109.8	105.6 110.9	105.2
Other manufacturing (non-NAICS)	1133,5111	4.42	102.3	102.0	100.3	100.6	101.8	101.7	101.6	102.1	101.6
other manufacturing (non-ivAlCS)											
Mining	21	9.75	95.5	97.7	98.4	98.2	100.0	100.4	101.4	102.0	101.6
Utilities	2211,2	9.47	109.2	98.3	103.9	105.6	104.2	106.2	109.0	110.1	109.2
Electric	2211	7.73	110.0	102.4 80.2	106.9 89.9	107.2 97.4	106.5 93.2	109.0 93.3	111.4 97.1	112.8 97.1	111.6 97.5
Natural gas	2212	1.73	104.3								

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

Table 5 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES 2002 = 100, seasonally adjusted

J02 = 100, seasonally adjusted		2005	2005	2006							
Item		2005 proportion	2005 Dec.	2006 Jan.	Feb.	Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p
Total industry		100.00	110.4	110.3	110.7	111.2	112.1	112.2	113.4	113.9	113.7
Energy		20.38	101.9	98.3	100.8	101.6	101.6	103.0	105.1	105.7	105.1
Consumer products		4.42	107.2	97.0	103.0	103.9	100.5	102.7	107.4	108.1	107.6
Commercial products	010111	2.49	114.2	107.4	108.5	111.4	109.4	112.5	114.0	114.0	112.7
Oil and gas well drilling	213111	.49	146.4	149.0	154.0	158.5	163.2	164.8	166.7	165.2	170.8
Converted fuel		3.81	101.8	94.6	99.6	100.8	101.5	104.7	106.6	107.3	106.6
Primary materials		9.17	94.5	95.5	95.9	95.9	97.4	97.4	98.5	99.2	98.6
Non-energy		79.62	112.5	113.4	113.1	113.6	114.7	114.4	115.3	115.8	115.7
Selected high-technology industries		4.80	191.1	191.3	193.6	195.6	198.9	202.5	207.3	210.0	210.7
Computers and peripheral equipment	3341	.79	127.2	127.8	128.5	129.0	131.2	133.5	135.4	137.0	138.9
Communications equipment	3342	1.21	159.8	164.3	169.6	175.6	181.9	184.3	187.2	187.4	183.2
Semiconductors and related											
electronic components	334412–9	2.79	238.3	235.6	236.7	236.8	238.6	243.5	250.9	255.7	259.0
Excluding selected high-technology											
industries		74.83	108.3	109.2	108.9	109.2	110.3	109.8	110.6	111.0	110.9
Motor vehicles and parts	3361-3	7.09	109.5	112.3	111.3	112.9	112.6	111.1	114.6	109.0	110.1
Motor vehicles	3361	3.53	108.9	114.7	114.9	117.1	115.9	113.7	119.6	109.9	111.9
Motor vehicle parts	3363	3.09	104.3	105.5	104.5	105.8	107.1	106.3	107.8	105.9	106.4
Excluding motor vehicles and parts		67.74	108.1	108.9	108.6	108.9	110.0	109.6	110.2	111.1	110.9
Consumer goods		21.02	105.2	105.3	104.6	105.1	106.0	105.4	105.7	106.5	106.4
Business equipment		8.01	121.6	121.9	122.2	123.1	126.1	125.5	127.0	130.4	130.8
Construction supplies		4.41	112.8	113.8	113.5	113.3	113.6	112.9	113.2	114.0	113.9
Business supplies		7.75	105.1	105.8	105.1	105.3	106.4	106.0	106.7	107.3	106.6
Materials		24.41	105.2	106.7	106.7	106.8	107.8	107.7	108.1	108.7	108.5
Measures excluding selected high-technology											
industries											
Total industry		95.20	107.0	106.9	107.2	107.7	108.5	108.4	109.5	109.9	109.7
Manufacturing ¹		75.99	108.0	109.0	108.6	109.0	109.9	109.5	110.4	110.7	110.7
Durable		38.29	113.7	114.7	114.7	115.2	116.4	115.9	117.1	117.2	117.5
Measures excluding motor vehicles and parts											
Total industry		92.91	110.5	110.2	110.7	111.1	112.1	112.2	113.3	114.2	113.9
Manufacturing ¹		73.69	112.4	113.2	113.0	113.3	114.4	114.3	115.1	116.1	116.0
Durable		36.00	123.7	124.3	124.7	125.2	126.9	126.9	127.9	129.5	129.7
Measures excluding selected high-technology industries and motor vehicles and parts											
		88.11	106.7	106.4	106.9	107.2	108.1	108.2	109.1	109.9	109.7
Total industry					108.3	108.6	109.6	109.4	110.0	110.9	110.7
Total industry Manufacturing ¹		68.90	107.9	108.6	108.5	108.0	109.0	107.4	110.0	110.7	110.7
Manufacturing ¹ Stage-of-process components of non-energy		68.90	107.9	108.6	108.5	108.0	109.0	107.4	110.0	110.9	110.7
Total industry Manufacturing ¹ Stage-of-process components of non-energy materials, measures of the input to Finished processors		68.90	107.9	108.6	124.8	125.7	109.0	126.8	128.6	129.4	129.4

r Revised. p Preliminary. 1. Refer to note on cover page.

Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2004	61.0	62.7	53.0	66.7	58.7	46.3	66.0	56.0	47.0	61.0	53.7	58.7
2005	54.7	47.3	49.7	52.7	54.0	56.7	54.3	52.0	55.3	60.0	59.3	55.8
2006	65.5	52.2	58.0	59.7	54.0	61.3	59.5					
Three months earlier												
2004	66.0	61.3	65.0	68.3	66.7	62.3	57.7	56.3	56.3	57.7	56.7	64.3
2005	58.3	59.0	52.0	47.3	51.8	57.0	57.0	55.0	54.3	57.7	58.5	60.7
2006	67.0	62.3	67.0	60.7	58.0	58.7	56.3					
Six months earlier												
2004	68.3	73.3	68.0	77.0	72.0	65.3	67.3	67.0	62.0	61.3	58.7	64.0
2005	62.0	60.0	60.7	52.3	52.7	55.0	57.0	53.3	56.3	60.0	60.0	56.0
2006	64.0	62.0	67.3	68.0	68.3	65.3	58.7					

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.

2005 proportion 100.00 82.87 78.75 45.07 1 7 2.24 2 3 5.40 4 8.66 5 2.03 3 7.19 9 4.30 7 9 3.32	1972- 2005 ave. 81.0 79.8 79.5 78.1 80.2 79.4 80.5 77.1 78.8 78.6 83.3 77.6	1988- 89 high 85.1 85.5 85.5 84.6 88.5 85.2 94.9 81.7 85.3 81.5 89.0	1994- 95 high 85.0 84.5 84.6 84.1 88.2 84.3 94.8 85.1 87.5 83.7	2001- 02 10w 73.9 72.0 71.5 68.4 71.0 75.7 68.8 68.9 63.4 59.7	2005 Q3 79.8 78.5 78.1 77.1 80.9 80.8 79.4 74.7 80.1	Q4 80.5 79.8 79.4 79.1 87.1 83.2 83.5	2006 Q1 81.1 80.3 80.1 79.3 84.1 84.6 85.6	Q2 ^r 82.0 80.8 80.5 79.9 81.5 83.1 87.9	2006 May ^r 81.7 80.5 80.2 79.6 81.7 82.6	June ^r 82.5 81.1 80.8 80.3 80.3 82.7	July ^r 82.7 81.2 80.9 80.3 80.8 82.2	Aug. ^p 82.4 81.0 80.7 80.3 79.1 82.0
proportion 100.00 82.87 78.75 45.07 1 2.24 2 6.20 3 5.40 4 8.66 5 2.03 3 7.19 9 4.30 7 7	ave. 81.0 79.8 79.5 78.1 80.2 79.4 80.5 77.1 78.8 78.6 83.3	high 85.1 85.5 84.6 88.5 85.2 94.9 81.7 85.3 81.5	high 85.0 84.5 84.6 84.1 88.2 84.3 94.8 85.1 87.5	low 73.9 72.0 71.5 68.4 71.0 75.7 68.8 68.9 63.4	Q3 79.8 78.5 78.1 77.1 80.9 80.8 79.4 74.7	80.5 79.8 79.4 79.1 87.1 83.2 83.5	Q1 81.1 80.3 80.1 79.3 84.1 84.6	82.0 80.8 80.5 79.9 81.5 83.1	May ^r 81.7 80.5 80.2 79.6 81.7 82.6	82.5 81.1 80.8 80.3 80.3 82.7	82.7 81.2 80.9 80.3 80.8	82.4 81.0 80.7 80.3 79.1
82.87 78.75 45.07 1 7 2.24 1 2 6.20 3 5.40 4 8.66 5 2.03 3 7.19 9 4.30 7 1.79	79.8 79.5 78.1 80.2 79.4 80.5 77.1 78.8 78.6 83.3	85.5 85.5 84.6 88.5 85.2 94.9 81.7 85.3 81.5	84.5 84.6 84.1 88.2 84.3 94.8 85.1 87.5	72.0 71.5 68.4 71.0 75.7 68.8 68.9 63.4	78.5 78.1 77.1 80.9 80.8 79.4 74.7	79.8 79.4 79.1 87.1 83.2 83.5	80.3 80.1 79.3 84.1 84.6	80.8 80.5 79.9 81.5 83.1	80.5 80.2 79.6 81.7 82.6	81.1 80.8 80.3 80.3 82.7	81.2 80.9 80.3 80.8	82.4 81.0 80.7 80.3 79.1
82.87 78.75 45.07 1 7 2.24 1 2 6.20 3 5.40 4 8.66 5 2.03 3 7.19 9 4.30 7 1.79	79.8 79.5 78.1 80.2 79.4 80.5 77.1 78.8 78.6 83.3	85.5 85.5 84.6 88.5 85.2 94.9 81.7 85.3 81.5	84.5 84.6 84.1 88.2 84.3 94.8 85.1 87.5	72.0 71.5 68.4 71.0 75.7 68.8 68.9 63.4	78.5 78.1 77.1 80.9 80.8 79.4 74.7	79.8 79.4 79.1 87.1 83.2 83.5	80.3 80.1 79.3 84.1 84.6	80.8 80.5 79.9 81.5 83.1	80.5 80.2 79.6 81.7 82.6	81.1 80.8 80.3 80.3 82.7	81.2 80.9 80.3 80.8	81.0 80.7 80.3 79.1
78.75 45.07 1 7 2.24 1 2 3 5.40 4 8.66 5 2.03 3 7.19 9 4.30 7 1.79	79.5 78.1 80.2 79.4 80.5 77.1 78.8 78.6 83.3	85.5 84.6 88.5 85.2 94.9 81.7 85.3 81.5	84.6 84.1 88.2 84.3 94.8 85.1 87.5	71.5 68.4 71.0 75.7 68.8 68.9 63.4	78.1 77.1 80.9 80.8 79.4 74.7	79.4 79.1 87.1 83.2 83.5	80.1 79.3 84.1 84.6	80.5 79.9 81.5 83.1	80.2 79.6 81.7 82.6	80.8 80.3 80.3 82.7	80.9 80.3 80.8	80.7 80.3 79.1
45.07 1 1.51 7 2.24 1 2.43 2 6.20 3 5.40 4 8.66 5 2.03 3 7.19 9 4.30 7 1.79	78.1 80.2 79.4 80.5 77.1 78.8 78.6 83.3	84.6 88.5 85.2 94.9 81.7 85.3 81.5	84.1 88.2 84.3 94.8 85.1 87.5	68.4 71.0 75.7 68.8 68.9 63.4	77.1 80.9 80.8 79.4 74.7	79.1 87.1 83.2 83.5	79.3 84.1 84.6	79.9 81.5 83.1	79.6 81.7 82.6	80.3 80.3 82.7	80.3 80.8	80.3 79.1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	80.2 79.4 80.5 77.1 78.8 78.6 83.3	88.5 85.2 94.9 81.7 85.3 81.5	88.2 84.3 94.8 85.1 87.5	71.0 75.7 68.8 68.9 63.4	80.9 80.8 79.4 74.7	87.1 83.2 83.5	84.1 84.6	81.5 83.1	81.7 82.6	80.3 82.7	80.8	79.1
7 2.24 1 2.43 2 6.20 3 5.40 4 8.66 5 2.03 3 7.19 9 4.30 7 1.79	80.2 79.4 80.5 77.1 78.8 78.6 83.3	88.5 85.2 94.9 81.7 85.3 81.5	88.2 84.3 94.8 85.1 87.5	71.0 75.7 68.8 68.9 63.4	80.9 80.8 79.4 74.7	83.2 83.5	84.6	83.1	81.7 82.6	80.3 82.7		79.1
1 2.43 2 6.20 3 5.40 4 8.66 5 2.03 3 7.19 9 4.30 7 1.79	80.5 77.1 78.8 78.6 83.3	94.9 81.7 85.3 81.5	94.8 85.1 87.5	68.8 68.9 63.4	79.4 74.7	83.5					82.2	82.0
1 2.43 2 6.20 3 5.40 4 8.66 5 2.03 3 7.19 9 4.30 7 1.79	77.1 78.8 78.6 83.3	94.9 81.7 85.3 81.5	94.8 85.1 87.5	68.8 68.9 63.4	74.7	83.5		87.0				02.0
3 5.40 4 8.66 5 2.03 3 7.19 9 4.30 7 1.79	78.8 78.6 83.3	85.3 81.5	87.5	63.4		B < 4		01.7	88.7	88.9	87.6	88.5
4 8.66 5 2.03 3 7.19 9 4.30 7 1.79	78.6 83.3	81.5			80.1	76.1	77.0	77.7	77.3	77.7	78.2	78.3
5 2.03 3 7.19 9 4.30 7 1.79	83.3		83.7	597	00.1	83.5	83.0	84.3	83.4	84.0	87.6	87.0
5 2.03 3 7.19 9 4.30 7 1.79	83.3				76.5	78.2	77.5	78.4	78.2	79.2	79.7	79.4
3 7.19 9 4.30 7 1.79		89.0										
3 7.19 9 4.30 7 1.79			93.0	71.7	84.9	87.7	89.8	92.0	92.3	91.8	93.8	93.8
9 4.30 7 1.79	7710	89.3	88.9	70.1	80.9	79.6	78.9	78.8	77.6	79.9	75.9	76.5
7 1.79		0710	0017	/011	000	/ / / 0	1012	7010			1015	1010
7 1.79	72.5	87.3	68.7	62.7	65.8	71.7	74.6	76.1	75.9	76.5	77.9	78.1
	78.5	82.2	83.4	69.5	73.8	73.3	73.2	74.5	74.7	74.9	73.7	74.2
5.52	76.6	82.4	81.3	70.5	78.2	78.4	78.1	78.5	78.4	78.7	78.7	78.2
1	/ 0.0	02.1	01.5	70.5	70.2	/0.1	70.1	70.0	/0.1	/0./	/0./	70.2
33.67	81.7	86.9	85.3	75.6	79.5	80.0	81.2	81.4	81.2	81.6	81.8	81.4
2 10.72	81.8	85.9	84.1	76.7	80.7	81.9	82.7	82.2	81.8	81.6	82.1	81.8
4 1.17	82.6	91.5	91.2	70.1	77.2	77.2	77.0	75.6	75.5	75.5	76.0	75.8
6.79	79.2	84.2	88.2	60.4	77.3	80.3	83.3	84.9	85.3	84.8	86.6	86.8
2 2.59	87.7	93.6	91.5	79.5	83.2	85.0	85.5	84.8	84.4	85.6	84.9	84.3
3 2.15	83.8	91.9	86.3	72.1	76.5	77.3	79.3	80.5	80.1	80.7	80.8	80.1
4 2.06	86.0	89.0	90.6	84.1	90.1	87.3	90.6	89.9	90.0	92.8	91.9	92.1
5 10.85	78.2	85.0	81.1	71.4	74.7	74.1	75.3	76.5	76.4	76.8	76.9	76.5
6 3.36	83.6	89.5	92.4	75.0	86.6	89.0	89.6	90.0	89.3	90.1	90.7	89.7
1 4.12	84.8	91.0	83.2	81.2	85.5	86.1	85.5	86.1	86.1	86.0	86.5	86.0
1 8.32	87.3	86.1	89.0	85.6	86.1	82.7	87.9	90.4	90.3	91.3	91.9	91.7
2 8.82	86.7	92.7	93.7	83.7	88.1	86.9	83.5	86.5	86.3	88.5	89.3	88.5
5.51	78.1	80.9	86.1	57.4	75.3	75.7	74.8	76.3	76.1	77.4	77.9	77.6
												84.0
2 1.53	75.8	80.7	85.9	41.1	68.9	74.2	78.9	84.4	84.3	85.1	84.7	82.3
	00.5		01.1	5 0 5					=1.0	53 0	53 0	= + 0
3.10	80.5	82.7	91.1	58.6	77.3	75.2	71.6	71.5	71.3	72.9	73.8	74.3
04-40	01.1	05 F	85.0	75.0	80.2	<u> </u>	017	07 C	02.2	82.0	02.2	83.0
												83.0
//.35	/9.9	86.0	84.4	/3.1	/8.9	80.3	81.0	81.5	81.2	81.7	81.8	81.0
11.50	86.4	88.3	89.4	83.2	84.2	81.3	85.8	88.2	88.2	88.8	89.3	89.1
												83.6
47.44	77.9	82.8	80.5	70.8	76.9	78.3	78.9	79.7	79.3	79.9	79.9	79.8
Ľ	11	.1 .87 78.3 .2 1.53 75.8 .9 3.10 80.5 9 3.10 81.1 77.35 79.9 11.50 86.4 47.44 82.1	.1 .87 78.3 80.2 .22 1.53 75.8 80.7 .9 3.10 80.5 82.7 9 3.10 80.5 82.7 9 3.10 81.1 85.5 77.35 79.9 86.0 11.50 86.4 88.3 47.44 82.1 86.7	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Table 7 CAPACITY UTILIZATION Percent of capacity, seasonally adjusted

r Revised. p Preliminary. 1. Refer to note on cover page.

Table 8 INDUSTRIAL CAPACITY Percent change

	1	Average a	nnual rate		Fourth	quarter t	o fourth	quarter		Annua	l rate		Monthly rate
Item	1972- 79	1980- 88	1989- 94	1995- 2006	2003	2004	2005	2006	2005 Q4	2006 Q1	Q2	Q3	2006 Aug.
Total industry	3.0	1.9	2.2	3.4	2	.6	1.6	2.0	1.8	2.0	2.0	2.0	.2
Manufacturing ¹	3.2	2.2	2.5	3.8	1	.5	2.1	2.5	2.3	2.5	2.6	2.6	.2
Mining Utilities	.7 4.3	.1 2.1	9 1.6	7 2.2	-1.0 3.1	6 2.6	6 .0	-1.4 .7	2 4	7 .2	-1.6 .7	-1.7 .9	1 .1
Selected high-technology industries	18.5	17.0	15.8	27.0	8.0	6.8	20.8	12.3	24.3	21.0	11.6	8.5	.6
Manufacturing ¹ ex. selected high-technology industries	2.6	1.3	1.6	1.8	5	.1	.6	1.7	.7	1.1	1.8	2.0	.2
STAGE-OF-PROCESS GROUPS Crude Primary and semifinished	1.7	.3	3 2.6	5 4.2	-2.1	-1.1 .9	9 2.5	-1.1	6 2.8	8 2.7	-1.1 2.1	-1.2	1
Finished	3.7	3.3	2.6	4.2 3.4	1	.9 .8	1.2	2.1	1.3	1.9	2.1	3.2	.1 .3

p Preliminary. 1. Refer to note on cover page.

			2005			2006		2006			
Item	2000	2005	Q2	Q3	Q4	Q1	Q2 ^r	May ^r	June ^r	July ^r	Aug. ^p
Final products and nonindustrial supplies	2,815.1	2,990.6	2,967.7	2,988.2	3,039.9	3,063.4	3,096.7	3,083.4	3,125.8	3,131.9	3,127.7
Final products	2,114.0	2,264.1	2,244.5	2,262.4	2,299.7	2,321.2	2,346.5	2,333.8	2,371.4	2,374.0	2,375.3
Consumer goods	1,480.7	1,593.2	1,583.6	1,597.5	1,600.9	1,605.9	1,614.7	1,605.6	1,637.0	1,623.0	1,628.1
Durable	471.7	538.1	526.3	540.7	544.8	543.0	543.0	537.3	549.7	529.8	538.0
Automotive products	279.5	339.9	330.3	343.2	341.1	340.8	341.6	336.1	348.7	327.2	334.7
Other durable goods	192.1	198.5	196.3	197.9	203.9	202.4	201.7	201.5	201.3	202.7	203.4
Nondurable	1,009.1	1,056.7	1,057.7	1,058.7	1,058.4	1,064.6	1,072.9	1,069.0	1,088.3	1,091.5	1,089.6
Equipment, total	633.2	675.0	664.4	668.2	705.3	723.3	741.1	737.6	743.0	762.1	757.8
Business and defense	616.9	658.0	648.9	651.8	684.9	705.4	723.4	719.6	725.3	745.6	740.2
Business	558.7	578.7	570.2	571.8	604.4	623.9	641.7	638.3	643.4	663.8	658.1
Defense and space	58.1	78.3	77.6	78.7	80.0	81.2	81.9	81.5	82.1	82.6	82.7
Nonindustrial supplies	701.2	726.8	723.5	726.2	740.4	742.6	750.6	749.8	754.9	758.4	752.9
Construction supplies	198.0	205.9	203.2	205.7	214.1	215.0	214.7	214.1	214.5	216.0	215.6
Business supplies	503.2	520.8	520.3	520.4	526.0	527.3	535.7	535.5	540.2	542.2	537.1
Commercial energy products	136.0	151.5	153.0	151.9	152.0	149.3	152.5	153.1	155.0	154.7	152.3

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Table 10 GROSS-VALUE-WEIGHTED INDUSTRIAL PRODUCTION: STAGE-OF-PROCESS GROUPS

Percent change, seasonally adjusted

		Fou	irth quart	er to									
		fo	urth quar	ter		Annua	ıl rate			Month	nly rate		Aug. '05
Item	2005				2005		2006		2006				to
	gross value1	2003	2004	2005	Q3	Q4	Q1	Q2 ^r	May ^r	June ^r	July ^r	Aug. ^p	Aug. '06
Finished	1932.2	3.0	4.8	5.4	4.1	9.9	5.5	5.4	7	1.0	.2	.1	5.6
Semifinished	1747.0	1.6	5.0	6.3	8.3	9.2	.2	5.0	2	1.2	.9	4	4.9
Primary	945.8	2	2.8	-2.4	-4.5	-1.5	6.0	5.3	2.3	1.9	4	2	3.1
Crude	391.7	-1.6	3.7	-10.2	-20.9	-14.3	26.1	10.5	.6	.7	.3	3	2.1

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1. Billions of 2000 dollars.

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	04	Annual
TD (1	<u>,</u>		<u> </u>	U	1								
IP (percent change) ¹																	
1984	2.1	.5	.5	.6	.5	.4	.3	.1	2	1	.4	.1	12.4	6.4	2.9	.4	9.0
1985	3	.4	.2	2	.1	.0	6	.5	.4	4	.3	1.0	1.1	.6	6	2.5	1.3
1986	.5	8	6	.0	.2	3	.6	2	.2	.4	.5	.9	2.3	-2.4	1.7	4.5	1.0
1987	3	1.2	.2	.6	.7	.5	.6	.7	.3	1.5	.5	.5	5.4	7.0	7.1	9.9	5.1
1988	.1	.3	.3	.5	.0	.2	.2	.5	3	.6	.2	.4	3.4	3.2	2.1	3.3	5.0
1989	.3	5	.3	1	7	.0	9	.9	3	1	.3	.7	1.5	-1.9	-2.5	1.8	.9
1990	6	.9	.5	.0	.1	.3	1	.3	.2	7	-1.2	7	2.9	2.9	1.3	-5.9	.9
1991	5	7	5	.2	1.0	1.0	.0	.2	.9	2	1	3	-7.6	2.7	5.7	1.0	-1.5
1992	5	.7	.7	.7	.4	.0	.8	5	.2	.7	.4	.1	3	6.9	2.8	3.9	2.9
1993	.5	.3	.0	.3	4	.3	.3	.0	.5	.7	.4	.5	3.7	1.0	2.4	6.1	3.3
1994	.5	.0	1.0	.5	.6	.7	.2	.5	.2	.9	.6	1.1	5.3	7.5	5.3	7.9	5.4
1995	.3	.0	.2	.0	.2	.3	4	1.4	.4	2	.3	.4	5.3	1.1	3.7	3.5	4.8
1996	8	1.5	2	.9	.7	.8	2	.7	.6	.0	1.0	.7	1.8	8.4	5.1	6.2	4.2
1997 1998	.2 .4	1.2 .1	.8 .1	1 .5	.6 .6	.5 5	.5 3	1.2 2.2	.9 2	.7 .7	.9 1	.4 .3	8.5 4.4	5.7 3.1	8.9 3.6	10.6 5.6	7.3 5.9
1770				10		10	10		.2	.,		10		511		010	0.0
1999	.5	.5	.2	.2	.8	1	.7	.5	4	1.3	.6	.9	4.1	4.2	4.3	7.7	4.5
2000 2001	.2 8	.4 7	.4 3	.7	.3 8	.1 5	3 4	3 3	.4 4	3 5	.0 4	4 .0	5.4 -6.6	5.2 -4.9	9 -5.1	-1.3 -4.5	4.3 -3.5
2001 2002	8	/	3	1 .4	8	5	4	3	4	5	4	5	-6.6	-4.9	-5.1	-4.5	-3.5
2002	.5	.0	2	8	1	.3	.5	.1	.0	.1	.9	.2	.8	-3.3	3.6	5.1	.6
2004 2005	.4	.8 .4	3	.8	.9 .2	6 .8	.6 .0	.3	2 -1.3	.7	.2	.7	5.3 3.8	5.2 1.6	2.6 1.4	4.2 5.3	4.1
2005	1	.4	.0	1	.2	.0	.0	1	-1.5	1.1	.9	1.0	5.0	6.6	1.4	5.5	5.5
2000			10	10									011	0.0			
IP (2002=100)					1070						10.2.0						
2004	102.7	103.5 107.4	103.2 107.3	104.0 107.2	105.0	104.4	105.0	105.3	105.1 107.2	105.8 108.4	106.0 109.4	106.7 110.4	103.1	104.4 107.6	105.1 108.0	106.2 109.4	104.7
2005 2006	106.9 110.3	107.4	107.3	107.2	107.4 112.2	108.3 113.4	108.3 113.9	108.6 113.7	107.2	106.4	109.4	110.4	107.2 110.8	112.5	108.0	109.4	108.2
Capacity (percent of 2002 output)	122.0	122.0	122.0	122.1	122.1	122.0	100.0	122.4	122.5	122.6	100 7	122.0	122.0	122.1	122.4	122 7	122.2
2004 2005	133.0 134.0	133.0 134.2	133.0 134.3	133.1 134.5	133.1 134.7	133.2 134.9	133.3 135.1	133.4 135.3	133.5 135.5	133.6 135.7	133.7 135.9	133.9 136.1	133.0 134.2	133.1 134.7	133.4 135.3	133.7 135.9	133.3 135.0
2005	136.3	136.6	134.5	134.5	137.2	137.5	137.7	135.5	155.5	155.7	155.7	150.1	136.6	137.2	155.5	155.7	155.0
Utilization																	
(percent) 1984	79.5	79.7	80.0	80.4	80.7	80.8	80.9	80.9	80.6	80.3	80.5	80.3	79.7	80.7	80.8	80.4	80.4
1985	79.9	80.1	80.0	79.7	79.6	79.4	78.7	78.9	79.1	78.6	78.8	79.4	80.0	79.6	78.9	78.9	79.4
1986	79.7	79.0	78.4	78.3	78.4	78.0	78.4	78.2	78.3	78.5	78.7	79.3	79.0	78.2	78.3	78.9	78.6
1987	79.0	79.8	79.8	80.1	80.6	80.8	81.2	81.6	81.7	82.8	83.1	83.4	79.6	80.5	81.5	83.1	81.2
1988	83.4	83.6	83.7	84.1	84.0	84.2	84.3	84.6	84.3	84.7	84.8	85.0	83.6	84.1	84.4	84.8	84.2
1989	85.1	84.6	84.7	84.5	83.8	83.6	82.7	83.3	82.8	82.6	82.7	83.1	84.8	84.0	82.9	82.8	83.6
1990	82.4	82.9	83.2	83.0	82.9	82.9	82.7	82.8	82.8	82.0	80.9	80.2	82.8	82.9	82.7	81.1	82.4
1991	79.7	79.1	78.6	78.6	79.3	80.0	79.9	79.9	80.5	80.2	80.0	79.7	79.1	79.3	80.1	80.0	79.6
1992 1993	79.1 81.2	79.5 81.4	80.0 81.3	80.4 81.4	80.6 81.0	80.5 81.1	81.0 81.2	80.4 81.1	80.5 81.4	80.9 81.8	81.0 82.0	81.0 82.3	79.6 81.3	80.5 81.1	80.6 81.2	81.0 82.0	80.4 81.4
	01.2	01.7	01.5	01.7	01.0	01.1	01.2	01.1	01.7	01.0	02.0	02.0	01.5	51.1	01.2	02.0	01.7
1994	82.5	82.3	83.0	83.2	83.5	83.8	83.8	83.9	83.8	84.2	84.5	85.0	82.6	83.5	83.8	84.6	83.6
1995	85.0 82.1	84.7	84.5	84.1	83.9	83.8	83.1	83.9	83.8	83.3	83.2	83.2	84.7 82.5	83.9	83.6	83.2	83.9
1996 1997	82.1 83.3	83.0 83.9	82.5 84.1	82.9 83.6	83.1 83.6	83.5 83.5	83.0 83.5	83.2 84.0	83.3 84.3	82.9 84.3	83.3 84.6	83.5 84.4	82.5 83.7	83.2 83.6	83.1 83.9	83.3 84.4	83.0 83.9
1998	84.2	83.7	83.3	83.1	83.1	82.2	81.5	82.8	82.3	82.5	82.1	81.9	83.7	82.8	82.2	82.2	82.7
1999 2000	82.0 82.5	82.0 82.5	81.8 82.5	81.7 82.7	82.0 82.7	81.7 82.5	81.9 82.0	82.0 81.4	81.3 81.5	82.1 80.9	82.2 80.7	82.6 80.1	81.9 82.5	81.8 82.6	81.7 81.6	82.3 80.6	81.9 81.8
2000	82.3 79.2	82.3 78.4	82.3 77.9	82.7 77.6	82.7 76.9	82.3 76.3	82.0 75.9	75.4	75.0	80.9 74.5	74.0	73.9	82.3 78.5	82.0 76.9	75.4	74.2	76.3
2002	74.3	74.1	74.7	74.9	75.2	75.8	75.6	75.6	75.6	75.3	75.5	75.2	74.4	75.3	75.6	75.3	75.1
2003	75.5	75.6	75.4	74.9	74.9	75.1	75.4	75.5	76.0	76.1	76.8	76.9	75.5	74.9	75.6	76.6	75.7
2004	77.2	77.8	77.6	78.1	78.8	78.4	78.8	79.0	78.7	79.2	79.3	79.7	77.5	78.4	78.8	79.4	78.6
2004	79.8	80.0	79.9	79.7	79.8	80.3	80.2	80.3	79.1	79.2	80.5	81.1	79.9	78.4	78.8	80.5	80.0
2006	80.9	81.1	81.3	81.8	81.7	82.5	82.7	82.4					81.1	82.0			
1 Quarterly changes																	

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

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

Propertie Properint Propertie Propertie <t< th=""><th>Seasonally adjusted Year</th><th>Jan.</th><th>Feb.</th><th>Mar.</th><th>Apr.</th><th>May</th><th>June</th><th>July</th><th>Aug.</th><th>Sept.</th><th>Oct.</th><th>Nov.</th><th>Dec.</th><th>Q1</th><th>Q2</th><th>Q3</th><th>Q4</th><th>Annual</th></t<>	Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
change? u </td <td></td> <td>buiii</td> <td>100.</td> <td></td> <td>1.1211</td> <td>intug</td> <td>build</td> <td>varj</td> <td>i iugi</td> <td>Septi</td> <td></td> <td>11011</td> <td>2001</td> <td>×1</td> <td><u> </u></td> <td>X²</td> <td>¥.</td> <td></td>		buiii	100.		1.1211	intug	build	varj	i iugi	Septi		11011	2001	×1	<u> </u>	X ²	¥.	
1996 19 11 5 5 2 4 5 2 4 3 3 12 6.3 7.7 13 14 1.1 1.4 1.5 1.4 1.1 1.4 1.1 1.4 1.1 1.3 1.4 1.1 1.3 1.4 1.1 1.3 1.4 1.1 1.3 1.4 1.1 1.3 1.4 1.1 1.3 1.4 1.4 1.1 1.3 1.4 1.4 1.1 1.4 1.4 1.1 1.3 1.4 1.4 1.1 1.3 1.4 1.4 1.1 1.3 1.4 1.4 1.5 1.4 1.4 1.5 1.4 1.5 1.5 1.4 1.5	* .																	
1986 -4 -3 -3 -1 -1 -6 6 -1 -3 5 -4 4 -1 </td <td></td> <td>19</td> <td>11</td> <td>5</td> <td>5</td> <td>2</td> <td>4</td> <td>5</td> <td>2</td> <td>- 2</td> <td>4</td> <td>3</td> <td>3</td> <td>12.8</td> <td>63</td> <td>37</td> <td>2.8</td> <td>99</td>		19	11	5	5	2	4	5	2	- 2	4	3	3	12.8	63	37	2.8	99
1980 1.2 .7 .3 .4 .7 .4 .7 .4 .7 .5 .6 .1 .6																		
1989 -2.2 .1 3 3 1 3 7.7 3 4 2.4 4.1 4.5 5.2 1989 8 -10 -1 1 -58 1 -11 -58 -2 2 2 2 4 -17 -34 -30 5.8 1992 -58 -7 66 3 7 1.3 3 1.0 2.2 2.1 -91 2.2 7.4 4.8 -20 1993 1.0 1.1 1.3 8 7.7 3 1.0 6.8 1.1 5.2 9.5 6.3 4.6 6.3 4.6 6.4 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.5 7.5 7.5 <td></td>																		
1999 8 -1.0 -1.1 -3 1.2 -2 2.3 1.7 3.4 1.30 -5 7.3 1992 -2 1.4 4 4 1.2 1.3 3.4 1.0 3.4 1.0 3.4 1.0 3.4 1.0 3.4 1.0 3.4 1.0 3.4 1.0 3.4 1.0 3.4 1.0 3.4 1.0 3.4 1.0 3.4 1.0 3.4 1.0 1.0 3.4 1.0 1.0 3.4 1.0 1.0 3.4 1.0 1.0 3.4 1.0 1.0 3.4 1.0 1.0 3.4 1.0 1.0 3.4 1.0 1.0 3.5 1.0 1.0 3.5 1.0 1.0 3.5 1.0 1.0 3.5 1.0 1.0 3.5 1.0 1.0 3.5 1.0 1.0 3.5 1.0 1.0 3.5 1.0 1.0 3.5 1.0 1.0 1.0																		
1990 -2 1.4 4 -1 0.0 2 2 2 3 0 -8 -1.1 -8 4 2.7 -6 -4 -5 3 1.0 -2 -1 1.0 -7 7.0 3.0 2.7 3.3 3 -1 0 6 4 -1 1.1 1.0 2.7 3.3 1.0 -2 -1.1 3.1 1.0 6 3.3 1994 .3 .1 1.3 .7 .3 .5 .7 .3 1.0 .8 1.1 .4 .5 .6 .4 .2 .4 .4 .5 .7 .4 .4 .5 .7 .4 .5 .7 .4 .5 .7 .4 .1 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .5 .4	1988	2	.1	.3	.8	1	.1	.1	.1	.3	.7	.3	.4	2.4	4.1	1.4	5.0	5.2
1990 -2 1.4 4 -1 0.0 2 2 2 3 0 -8 -1.1 -8 4 2.7 -6 -4 -5 3 1.0 -2 -1 1.0 -7 7.0 3.0 2.7 3.3 3 -1 0 6 4 -1 1.1 1.0 2.7 3.3 1.0 -2 -1.1 3.1 1.0 6 3.3 1994 .3 .1 1.3 .7 .3 .5 .7 .3 1.0 .8 1.1 .4 .5 .6 .4 .2 .4 .4 .5 .7 .4 .4 .5 .7 .4 .5 .7 .4 .5 .7 .4 .1 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .4 .5 .5 .4	1989	.8	-1.0	1	.1	8	.1	-1.1	.9	3	2	.2	.2	1.7	-3.4	-3.0	.5	.8
1993 -5 9 9 5 7 3 8 -4 0 6 4 -7 7 7 9 9 2.7 3.7 1994 3 1 13 8 7 3 1.0 8 1.1 5.5 9.5 6.2 9.6 6.0 1995 -10 1.5 -3 1.2 7 1.0 2 1.0 8 1.1 4.5 5.5 6.0 6.0 6.0 6.0 6.0 6.0 7.5 7.0 1.0 9.8 8.5 7.5 6.5 6.0 7.5 7.7 7.4 1.5 7.3 6.0 8.5 7.6 7.6 7.4 7.5 7.3 6.0 8.5 7.7 7.8 7.7 7.4 7.5 7.5 6.6 4.6 7.7 7.4 7.5 7.5 7.6 6.4 7.2 7.4 7.3 7.6 7.7 7.4 7.5 7.5 7.6 6.4 4.0 7.6 7.7 7.5 7.7 7.5 7.7 7.5																		
1993 10 .1 .1 .3 .1 6 .8 4 .6 40 1.5 1.6 6.9 33.5 1994 .3 .1 1.3 .8 .7 .3 .5 .7 .3 1.0 .8 1.1 .5 .9 .6 .6 .6 .6 .7 .3 .1 .4 .5 .5 .7 .3 .1 .4 .5 .5 .6 .7 .4 .1 .5 .6 .7 .4 .1 .5 .6 .4 .1 .5 .6 .7 .4 .1 .5 .6 .7 .4 .1 .5 .6 .6 .7 .4 .1 .5 .6 .6 .7 .4 .1 .5 .1 .6 .1 .6 .6 .7 .4 .1 .5 .1 .6 .1 .6 .6 .6 .7 .4 .1																		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																		
1995 .4 -1.0 1.5 -3 1.2 7 1.0 1.0 2.7 7.6 3.0 4.4 5.4 1996 2.0 1.4 1.2 -3 1.2 7 1.0 2.0 7 1.0 1.0 9 9.5 7.6 5 6.5 6.6 -4 2.6 -3 1.0 1.1 5 6.0 2.5 9.5 7.7 1.4 1.4 1.0 2.5 1.01 6.8 9.9 1.4 8.5 1999 3 8 -1 4 1.0 -2 2.7 -7 -4 1.5 7 -4 1.3 -7 6.6 1.2 2.9 2.1 1.1 1.1 1.1 1.3 2.2	1993	1.0	.1	1	.5	1	1	.3	1	.0	.0	.4	.0	4.0	1.5	1.0	0.9	5.5
1996 -1.0 1.5 -3 1.2 7.7 0 1.0 1.2 7.7 0 1.0 1.2 5 1.0 6.8 9.9 1.4 1.6 5 6.6 7.5 6.5 7.5 6.5 1999 3 8 -1 -1 6 5 -6 -4 2.6 -3 1.0 1.1 5 6.0 2.5 3.9 7.8 6.7 1990 3 8 -1 4 1.0 -2 5 7 -4 1.5 -7 3 -6 3 -3 -7 5 5.1 -5 4.4 2.0 -2 2.0 -1 0 -3 -1 9 1.1 1.1 1.1 3 -2 2.0 4 0 5 5 -7 6.6 4.1 4.0 4.8 0 5 5 7 6.6 1.0 1.0 1.0 1.0 1.0 <td< td=""><td>1994</td><td>.3</td><td>.1</td><td>1.3</td><td>.8</td><td>.7</td><td>.3</td><td>.5</td><td>.7</td><td>.3</td><td>1.0</td><td>.8</td><td>1.1</td><td>5.2</td><td>9.5</td><td>6.2</td><td>9.6</td><td>6.0</td></td<>	1994	.3	.1	1.3	.8	.7	.3	.5	.7	.3	1.0	.8	1.1	5.2	9.5	6.2	9.6	6.0
1998 .7 .1 .1 .6 .5 .6 .4 2.6 .3 10 .1 .5 6.0 2.5 3.9 7.8 6.7 1999 .3 .3 .6 .7 0 2.2 .5 .7 .4 1.5 .7 .6 .5 .7.5 .5.1 .5.6 4.2 4.2 4.2 2000 .5 .1 .8 .1 .8 .6 .2 .7 .3 .6 .5 .5 .5 .3 .6 .7 .4 .8 .0 .1 .1 .1 .1 .1 .3 .2																		
1999 3 8 1 4 1.0 2 5 7 4 1.5 7 8 4.6 4.8 0.0 9.3 5.2 2000 -3 -3 -6 -7 -0.1 -5 -7 -5 -1 5.6 4.2 -2 -1 -6 -2 -5 3 5.3 5.2 2.2 -2 -1 -6 -3 -1 1.0 -1 1.1 -1 1.0 -2 -2.2 -2.2 -2.2 -2 -3 6.1 -5 -5 3.5 0.3 -1 1.0 -1 1.1 1.1 3 -2.2 2.2 9 4 0 -5 1.5 5 5 0.6 4.1 4.8 1.0 4.5 1.3 1.0 4.4 4.8 1.0 4.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0																		
2000 .3 .3 .6 .7 .0 .2 .1 .7 .4 .3 3 .7.5 .5.1 .5.6 .4.2 .4.2 2002 .5 .1 .8 .1 .5 1.0 .4 .3 .0 .6 .5 .5 .5 .5 .7.3 .5.1 .5 .5 .5 .7.3 .5.1 .5 .7.3 .6.1 .5 .5 .7.3 .6.1 .5 .5 .7.3 .6.1 .5 .5 .7.3 .6.1 .4 .9 .1.1 .1 .1 .1 .7.5 .5.1	1770	./	.1	1	.0	.5	0		2.0	5	1.0	.1	.5	0.0	2.5	5.7	7.0	0.7
2001 5 7 3 6 2 3 6 3 5 5.5 5.5 5.5 2.2 1 1 2003 .4 2 .2 .9 1 .6 .3 1 .9 .1 1.1 .1 .3 .2.7 .3.3 .6.1 .5 2004 .3 .9 .2 .8 .8 6 .8 .7 .4 .8 .0 .5 .5.7 .6.6 .4.1 .4.0 2005 .5 .3 .0 .4 .9 .2 .9 .4 .0 .5 .5.7 .6.6 .4.1 .4.0 2006 .13.1 .12.8 .10.8.1 .10.8.1 .10.9 .10.9.1 .10.9.1 .10.9.1 .10.9.1 .11.2 .11.2 .10.8.3 .10.9.1 .10.6.1 .07.1 .10.6.1 .07.1 .10.6.1 .07.1 .10.6.1 .10.7 .10.6.1 .10.7 .10.																		
2002 5 -1 8 1 5 1.0 -4 3 0 -6 3 -5 3 -5 3 2.2 2.2 1.1 2003 4 -2 2 -9 -1 6 3 -1 9 1.1 1.1 1.1 3 -2 7.3 3.6 5.3 5.7 6.6 4.1 4.0 4.8 2005 .5 .5 .5 .7 0.6 4.1 4.0 4.8 2006 .8 .3 .4 9 -2 9 4 0.6 10.5 1.8 4.4 4.5 1.3 2.0 9.1 2006 108.1 108.6 108.5 108.5 108.0 106.9 107.5 108.3 108.6 108.1 107.1 108.4 106.4 106.4 106.4 106.4 106.7 108.1 108.3 108.5 108.5 106.6 107.1 113.1 13.3																		
2003 A 2 2 9 1 .6 .3 1 .9 1.1 1.1 .1 .3 -2.7 3.3 6.1 .5 2004 .3 .9 .2 .8 .8 .6 .8 .7 .4 .8 .0 .5 .5.7 .6.6 .4.1 .4.0 .4.8 2006 .8 3 .4 .9 .2 .9 .4 .0 .5.3 .5.1 .9.1 .4.0 .5.3 .5.1 .9.1 .4.0 .5.3 .5.1 .9.1 .4.0 .5.3 .5.1 .9.1 .0.5 .1.8 .8 .4.5 .1.0 .1.0 .0.5 .0.0 .1.0 .1.0 .1.0 .0.0 .1.0 .1.1.1 .1.1.1 .1.1.1 .1.1.2 .1.0 .1.1.1 .1.1.1 .1.1.1 .1.1.1 .1.1.1 .1.1.1 .1.1.1 .1.1.1 .1.1.1 .1.1.1 .1.1.1 .1.1.1 .1.1.1 .1.1.1																		
2005 5 5 5 3 0 4 3 1 4 -5 1.8 8 4 4 5 1.3 2.0 9.1 4.0 2006 8 -3 4 9 -2 9 4 0 10.5 10.5 10.5 5.1 10.5<																		
2005 5 5 5 3 0 4 3 1 4 -5 1.8 8 4 4 5 1.3 2.0 9.1 4.0 2006 8 -3 4 9 -2 9 4 0 10.5 10.5 10.5 5.1 10.5<																		
2006 8 3 .4 .9 2 .9 .4 .0 5.3 5.1 IP (2002-100) 102.6 103.6 103.7 104.6 105.7 106.4 106.0 106.9 107.5 103.3 105.0 106.1 107.1 103.3 108.6 109.2 111.6 105.6 2006 113.1 112.8 113.3 114.3 114.1 115.5 115.5 108.9 110.9 111.7 112.2 108.3 108.6 109.2 111.6 105.6 2006 137.4 136.3 136.4 136.4 136.5 136.6 136.7 136.9 137.0 137.2 136.3 136.4 136.5 136.6 137.0 137.2 136.3 136.4 136.5 136.6 137.0 137.2 136.6 137.0 137.0 137.4 137.9 137.0 137.6 137.9 137.0 137.4 137.9 137.0 137.4 137.9 137.0 137.4 137.9 <td></td>																		
IP (2002=100) PC (2002=100) PC (2002=100) PC (2003 PC (20										3	1.8	.0	.4			2.0	9.1	4.0
2004 102.6 103.6 103.7 104.6 105.7 106.4 106.9 106.9 107.5 103.3 105.0 106.1 107.1 105.4 2006 113.1 112.8 113.3 114.3 114.1 115.5 115.5 108.9 110.9 111.7 112.2 113.1 114.5 113.1	2000	.0			.,	.2	.,		10					0.0	0.11			
2005 108.1 108.6 108.2 108.3 108.7 109.0 109.1 109.5 108.9 110.9 11.7 112.2 108.3 108.6 109.2 111.6 109.6 2006 113.1 112.8 113.3 114.3 114.1 115.1 115.5 115.5 115.5 115.5 115.6 110.9 117.7 112.2 113.6 108.6 107.0 107.0 107.0 107.0 107.0 107.0 107.0 107.0 107.0 107.0 107.0 107.0 107.0 107.0 107.0 107.0 107.0 107.0 108.3 108.0 108.0 108.0 107.0 107.0 108.0 108.0 107.0 107.0 108.0 108.0 108.0 109.0 117.0<																		
2006 113.1 112.8 113.3 114.3 114.1 115.1 115.5 115.5 113.1 114.5 114.5 115.7 Capacity (percent) of 2002																		
Capacity (percent of 2002 output) Image: Second Secon										108.9	110.9	111./	112.2			109.2	111.0	109.0
2002 136.3 136.3 136.3 136.4 136.4 136.5 136.6 137.2 136.3 136.4 136.4 136.5 136.5 137.2 136.3 136.4 136.7 138.7 138.7 138.7 138.7 138.7 138.7 138.7 138.7 138.7 138.7 138.7 138.7 138.7 138.7 138.7	Capacity																	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																		
2006 140.4 140.7 141.0 141.3 141.6 142.2 142.5 140.7 141.6 141.6 141.6 Utilization (percent) 78.1 78.9 79.1 79.4 79.5 79.6 79.7 79.9 78.3 78.3 78.4 78.7 79.2 78.4 78.0 78.2 78.8 78.3 78.4 78.7 79.2 78.4 78.3 78.4 78.7 79.2 78.4 78.3 78.3 78.4 78.7 79.2 78.4 78.4 78.3 78.4 78.7 79.2 78.4 78.8 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3 78.3																		
Utilization (percent) Viliation Viliiation Viliation Viliation <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>139.3</td> <td>139.6</td> <td>139.9</td> <td>140.1</td> <td></td> <td></td> <td>139.1</td> <td>139.9</td> <td>138.7</td>										139.3	139.6	139.9	140.1			139.1	139.9	138.7
(percent) (percent) <t< td=""><td>2000</td><td>140.4</td><td>140.7</td><td>141.0</td><td>141.5</td><td>141.0</td><td>141.7</td><td>142.2</td><td>142.5</td><td></td><td></td><td></td><td></td><td>140.7</td><td>141.0</td><td></td><td></td><td></td></t<>	2000	140.4	140.7	141.0	141.5	141.0	141.7	142.2	142.5					140.7	141.0			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	(percent)	70.1	7 0 0	70.1	50.4	7 0 7	7 0 f	50.0	7 0.0	70.4	7 0 5	50 6	7 0 f	50.5	7 0 5	50.5	70.6	70.4
1986 78.9 78.2 77.9 78.1 78.2 77.8 78.1 78.2 78.3 78.4 78.7 79.2 78.4 78.0 78.2 78.8 78.3 1987 78.9 79.8 79.7 79.9 80.4 80.5 80.9 81.1 81.5 82.6 83.0 83.4 79.5 80.3 81.2 83.0 81.0 1988 83.2 83.2 83.4 84.0 84.0 84.0 84.0 84.2 84.7 84.8 85.0 83.3 84.0 84.0 84.0 1989 85.5 84.5 84.3 84.2 83.3 83.2 82.1 82.2 81.9 81.7 81.0 79.9 79.2 82.2 82.8 81.8 81.9 81.7 81.0 79.9 79.2 82.2 81.8 81.9 81.7 78.1 77.7 77.8 78.9 78.9 78.3 79.7 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																		
1988 83.2 83.2 83.4 84.0 83.9 84.0 84.0 84.2 84.7 84.8 85.0 83.3 84.0 84.1 84.8 84.8 84.1 84.8 84.8 84.1 84.8 84.8 84.8 83.6 82.4 81.9 81.7 81.0 79.9 79.2 82.2 82.2 81.8 81.9 81.7 81.0 79.9 79.2 82.2 82.2 82.4 81.9 83.1 1990 81.5 82.4 82.6 82.3 82.1 82.2 81.8 81.9 81.7 81.0 79.9 79.2 82.2 82.2 81.8 80.0 81.6 1991 78.4 77.7 77.1 77.3 77.7 78.5 78.6 78.7 79.4 79.1 78.9 78.7 77.7 77.8 78.9 <																		
1989 85.5 84.3 84.2 83.3 83.2 82.1 82.7 82.2 81.9 81.9 81.8 84.8 83.6 82.2 81.9 81.9 81.7 81.0 79.9 79.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.2 82.4 82.4 82.4 82.4 82.4 82.4 82.4 82.4 82.4 82.4 82.4 82.4 82.4 82.4 82.4 82.4 82.4 82.4 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																		
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1988	83.2	83.2	83.4	84.0	83.9	84.0	84.0	84.0	84.2	84.7	84.8	85.0	83.3	84.0	84.1	84.8	84.0
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1989	85.5	84.5	84.3	84.2	83.3	83.2	82.1	82.7	82.2	81.9	81.9	81.8	84.8	83.6	82.4	81.9	83.1
1992 78.1 78.6 79.2 79.4 79.8 79.8 79.7 80.0 80.1 79.8 78.6 79.7 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 80.3 80.7 80.9 81.2 80.4 80.2 80.1 80.4 1994 81.3 81.1 82.0 82.4 82.8 82.8 82.9 83.2 83.1 83.6 84.0 84.5 81.4 83.1 83.1 80.4 1995 84.5 84.1 83.9 83.4 83.0 82.9 82.0 82.6 82.9 82.4 82.1 82.0 84.1 83.1 83.1 83.3 82.4 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.4 81.1 81.8 82.1 82.1 82.4 81.1 81.8 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.4 81.1 81.8 83.0 83.4 83.0 83.4 <																		
1993 80.5 80.4 80.2 80.4 80.2 80.0 80.1 79.9 80.3 80.7 80.9 81.2 80.4 80.2 80.1 80.4 1994 81.3 81.1 82.0 82.4 82.8 82.9 83.2 83.1 83.6 84.0 84.5 81.4 82.6 83.1 84.0 82.8 1995 84.5 84.1 83.9 83.4 83.0 82.9 82.6 82.9 82.4 82.1 82.0 84.1 83.1 82.5 82.1 82.1 82.4 81.1 81.8 82.1 82.1 82.4 81.1 81.8 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 81.8 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 83.3 <																		
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1995 84.5 84.1 83.9 83.4 83.0 82.9 82.0 82.4 82.1 82.0 84.1 83.1 82.5 82.2 83.0 1996 80.8 81.6 81.0 81.5 81.7 82.1 81.9 82.2 81.8 82.1 82.4 81.1 81.8 82.1 82.1 81.8 1997 82.2 82.8 83.3 82.5 82.7 82.7 82.4 83.1 83.3 83.3 83.6 83.4 82.8 82.6 83.0 83.4 83.0 83.4 83.9 82.2 82.1 81.9 80.1 81.7 81.0 81.4 81.1 81.8 82.8 82.6 83.0 83.4 83.0 83.0 83.4 83.0 83.4 83.0 83.4 83.0 83.4 83.0 83.4 83.0 83.4 83.0 83.4 83.0 83.4 83.0 83.4 83.0 83.3 83.3 83.6 83.4 82.8 81.7 80.9 81.2 81.7 80.9 81.2 81.7 80.9 <	1775	- 00.5	00.4	00.2	00.4	00.2	- 00.0	00.1	19.9	00.5	00.7	00.9	01.2	00.4	00.2	00.1	01.0	00.4
1996 80.8 81.6 81.0 81.5 81.7 82.1 81.9 82.2 81.8 82.1 82.4 81.1 81.8 82.1 82.1 82.4 81.1 81.8 82.1 82.1 82.2 81.8 82.1 82.4 81.1 81.8 82.1 82.1 82.2 82.8 83.3 82.5 82.7 82.7 82.4 83.1 83.3 83.3 83.6 83.4 82.8 82.6 83.0 83.4 83.0 83.4 82.9 82.2 82.1 81.9 80.9 80.1 81.7 81.0 81.4 81.1 81.8 82.8 81.7 80.9 81.7 81.7 1999 80.9 81.1 80.7 80.6 81.1 80.5 80.6 80.8 80.1 80.9 81.2 81.5 80.8 81.2 81.5 80.8 80.1 80.9 81.3 81.3 80.0 78.6 80.3 2000 81.3 81.2 81.4<																		
1997 82.2 82.8 83.3 82.5 82.7 82.7 82.4 83.1 83.3 83.3 83.6 83.4 82.8 82.6 83.0 83.4 82.9 1998 83.4 82.9 82.2 82.1 81.9 80.9 80.1 81.7 81.0 81.4 81.1 81.1 82.8 82.6 83.0 83.4 83.0 1999 80.9 81.1 80.7 80.6 81.1 80.5 80.6 80.8 80.1 80.9 81.2 81.5 80.9 80.7 80.5 81.2 80.3 2000 81.3 81.2 81.4 81.6 81.2 81.0 80.6 79.8 79.2 78.7 77.8 81.3 81.3 80.0 78.6 80.3 2001 77.0 76.2 75.7 75.4 74.6 74.0 73.7 73.9 73.9 73.4 73.6 73.3 74.7 73.2 72.1 74.1 2002 72.5 72.3 72.9 73.3 74.0 73.7 73.9																		
1998 83.4 82.9 82.2 82.1 81.9 80.9 80.1 81.7 81.0 81.4 81.1 81.1 82.8 81.7 80.9 81.2 81.7 1999 80.9 81.1 80.7 80.6 81.1 80.5 80.6 80.8 80.1 80.9 81.2 81.5 80.9 80.7 80.5 81.2 80.8 2000 81.3 81.2 81.4 81.6 81.2 81.0 80.6 79.8 79.2 78.7 77.8 81.3 81.3 80.0 78.6 80.3 2001 77.0 76.2 75.7 75.4 74.6 74.0 73.7 73.1 72.7 72.2 72.0 72.1 76.3 74.7 73.2 72.1 74.1 2002 72.5 72.3 72.9 73.0 73.3 74.0 73.7 73.9 73.9 73.4 73.6 73.3 72.6 73.4 73.8 73.4 73.4																		
1999 80.9 81.1 80.7 80.6 81.1 80.5 80.6 80.8 80.1 80.9 81.2 81.5 80.9 80.7 80.5 81.2 80.8 2000 81.3 81.2 81.4 81.6 81.2 81.0 80.6 79.8 79.2 78.7 77.8 81.3 81.3 80.0 78.6 80.3 2001 77.0 76.2 75.7 75.4 74.6 74.0 73.7 73.1 72.7 72.2 72.0 72.1 76.3 74.7 73.2 72.1 74.1 2002 72.5 72.3 72.9 73.0 73.3 74.0 73.7 73.9 73.9 73.4 73.6 73.3 72.6 73.4 73.8 73.4 73.3 2003 73.5 73.4 73.2 73.4 73.4 74.0 74.1 75.0 75.1 73.5 73.0 73.6 74.7 73.7 2004 75.3																		
2000 81.3 81.2 81.4 81.6 81.2 81.0 80.6 79.8 79.2 78.7 77.8 81.3 81.3 80.0 78.6 80.3 2001 77.0 76.2 75.7 75.4 74.6 74.0 73.7 73.1 72.7 72.2 72.0 72.1 76.3 74.7 73.2 72.1 74.1 2002 72.5 72.3 72.9 73.0 73.3 74.0 73.7 73.9 73.9 73.4 73.6 73.3 72.6 73.4 73.8 73.4 73.3 2003 73.5 73.4 73.5 72.9 72.8 73.2 73.4 73.4 74.0 74.1 75.0 75.1 73.5 73.0 73.6 74.7 73.8 73.4 73.4 73.4 74.0 74.1 75.0 75.1 73.5 73.0 73.6 74.7 73.7 2004 75.3 76.0 76.1 76.7 77.3																		
2001 77.0 76.2 75.7 75.4 74.6 74.0 73.7 73.1 72.7 72.2 72.0 72.1 76.3 74.7 73.2 72.1 74.1 2002 72.5 72.3 72.9 73.0 73.3 74.0 73.7 73.9 73.9 73.4 73.6 73.3 72.6 73.4 73.8 73.4 73.3 2003 73.5 73.4 73.5 72.9 72.8 73.2 73.4 73.4 74.0 74.1 75.0 75.1 73.5 73.4 73.5 73.7 73.7 73.9 73.9 73.4 73.6 73.3 72.6 73.4 73.8 73.4 73.3 2003 73.5 73.4 73.5 72.9 72.8 73.2 73.4 73.4 74.0 74.1 75.0 75.1 73.5 73.0 73.6 74.7 73.7 2004 75.3 76.0 76.1 76.7 77.3 76.9 77.4 77.9 77.5 78.1 78.0 78.3 75.8 77.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																		
2002 72.5 72.3 72.9 73.0 73.3 74.0 73.7 73.9 73.4 73.6 73.3 72.6 73.4 73.8 73.4 73.3 2003 73.5 73.4 73.5 72.9 72.8 73.2 73.4 73.4 74.0 74.1 75.0 75.1 73.5 73.0 73.6 74.7 73.7 2004 75.3 76.0 76.1 76.7 77.3 76.9 77.4 77.9 77.5 78.1 78.0 78.3 75.8 77.0 77.6 78.2 77.1 2005 78.6 78.9 78.4 78.6 78.7 78.6 78.8 78.2 79.4 79.9 80.1 78.7 78.5 78.5 78.8 78.9																		
2003 73.5 73.4 73.5 72.9 72.8 73.2 73.4 73.4 74.0 74.1 75.0 75.1 73.5 73.0 73.6 74.7 73.7 2004 75.3 76.0 76.1 76.7 77.3 76.9 77.4 77.9 77.5 78.1 78.0 78.3 75.8 77.0 77.6 78.2 77.1 2005 78.6 78.9 78.4 78.6 78.7 78.6 78.8 78.2 79.4 79.9 80.1 78.7 78.5 78.5 78.9 78.9																		
2005 78.6 78.9 78.5 78.4 78.6 78.7 78.6 78.8 78.2 79.4 79.9 80.1 78.7 78.5 78.5 79.8 78.9																		
2005 78.6 78.9 78.5 78.4 78.6 78.7 78.6 78.8 78.2 79.4 79.9 80.1 78.7 78.5 78.5 79.8 78.9	2004	75.0				77.0					70.1	7 0 0	70.2	75.0			70.2	
										10.2	19.4	19.9	00.1			10.5	19.0	10.9

Table 12 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing¹ Seasonally adjusted

 1. Refer to note on cover page.

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

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	04	Annual
Year	Jaii.	reo.	Iviai.	Арі.	Widy	June	July	Aug.	Sept.	001.	INOV.	Dec.	QI	Q2	Q3	Q4	Aiiiuai
P (percent																	
change) ² .984	2.0	2	4	5	4	2	2	0	2	2	2	1	11.4	5.0	16	2	7.9
1984 1985	2.0	.3 .5	.4 .2	.5 .0	.4	.2	.2 5	.0 .5	2 .5	2 4	.3 .3	.1 1.1	11.4 .9	1.2	1.6 2	3 2.6	1.0
1986	.6	8	7	.0	.1	2	.3	2	.2	.4	.4	.8	2.3	-2.7	.6	4.0	.9
1987	5	1.2	.2	.5	.6	.4	.5	.6	.2	1.4	.5	.4	4.5	6.3	6.0	9.1	4.2
1988	.0	.3	.2	.4	1	.2	.1	.5	4	.6	.2	.4	3.1	2.6	1.5	2.9	4.4
1989	.3	5	.4	1	7	.0	-1.1	.9	4	2	.3	.7	1.8	-2.1	-3.3	1.0	.6
1989	7	3	.4	1	.0	.0	-1.1	.9	4	2	-1.2	8	2.2	-2.1	-5.5	-6.5	.3
1991	5	8	6	.2	1.0	1.0	.0	.1	.9	2	2	5	-8.1	2.2	5.4	.3	-2.0
1992	8	.7	.7	.6	.3	2	.7	5	.1	.6	.3	.0	-1.9	6.1	1.7	3.0	1.9
1993	.5	.3	.0	.2	4	.2	.3	1	.4	.6	.3	.5	3.0	.4	1.6	5.2	2.5
1994	.4	1	.8	.3	.4	.6	.1	.3	.0	.7	.4	.9	4.2	5.3	3.4	5.5	4.0
1994	.4	1	.0 1	2	.4	.0	5	1.2	.0	4	.4	.9	4.2 3.0	-1.4	1.3	5.5 .5	2.4
1996	-1.0	1.4	4	.8	.5	.7	5	.4	.4	2	.8	.4	3	6.1	2.1	3.5	1.7
1997	1	.8	.5	4	.3	.3	.3	1.0	.8	.6	.7	.1	4.9	2.1	6.1	8.3	4.2
1998	.1	.0	1	.2	.5	9	8	2.0	6	.5	3	.1	1.6	1.0	3	2.3	3.1
1999	.2	.2	1	2	.6	4	.3	.4	5	1.2	.3	.6	.9	.3	1.2	5.6	1.2
2000	3	.2	1	2	1	4	5	5	5	5	2	5	.9	1.7	-3.0	-2.9	1.2
2001	8	6	3	.0	7	4	2	3	4	5	5	.0	-6.7	-4.0	-4.0	-4.8	-4.1
2002	.8	1	.9	.4	.4	.9	3	1	1	5	.2	6	3.4	6.2	1.3	-2.4	.3
2003	.4	2	3	8	1	.2	.4	.0	.6	.0	.9	.2	6	-4.3	2.6	4.4	3
2004	.3	.7	4	.8	.9	7	.5	.2	3	.8	.2	.6	4.3	4.6	1.6	3.8	3.2
2005	.0	.3	1	2	.1	.8	1	.1	-1.5	1.1	.8	.9	2.4	.8	.1	4.2	2.3
2006	1	.3	.4	.7	.0	1.0	.4	2					4.6	5.9			
B (2002 100)																	
IP (2002=100) 2004	101.2	101.9	101.6	102.4	103.3	102.6	103.1	103.3	103.0	102.9	104.0	104.6	101.6	102.7	103.1	104.1	102.9
	L									103.8	104.0		101.0	102.7	105.1	104.1	102.9
	1045	104.9	104.8	104.6	104 7	105.5	1054	ר רטו		105 2		10/0					
2005 2006 Canagity	104.5 106.9	104.9 107.2	104.8 107.7	104.6 108.5	104.7 108.4	105.5 109.5	105.4 109.9	105.5 109.7	104.0	105.2	100.0	107.0	107.3	108.8	105.0	100.1	105.5
2006 C apacity <i>[percent of</i> 2002 output) 2004 2005	106.9 130.1 130.5	107.2 130.1 130.5	107.7 130.1 130.6	108.5 130.1 130.6	108.4 130.2 130.7	109.5 130.2 130.7	109.9 130.2 130.8	109.7 130.3 130.8	130.3 130.9	130.4 130.9	130.4 131.0	130.4 131.0	107.3 130.1 130.5	108.8 130.2 130.7	130.3 130.8	130.4 131.0	130.2
2006 Capacity (percent of 2002 output) 2004 2005 2006 Utilization (percent)	106.9 130.1 130.5 131.1	107.2 130.1 130.5 131.3	107.7 130.1 130.6 131.4	108.5 130.1 130.6 131.6	108.4 130.2 130.7 131.7	109.5 130.2 130.7 131.9	109.9 130.2 130.8 132.0	109.7 130.3 130.8 132.2	130.3 130.9	130.4 130.9	130.4 131.0	130.4 131.0	107.3 130.1 130.5 131.3	108.8 130.2 130.7 131.7	130.3 130.8	130.4 131.0	130.2 130.7
2006 Capacity <i>(percent of 2002 output)</i> 2004 2005 2006 Utilization	106.9 130.1 130.5	107.2 130.1 130.5	107.7 130.1 130.6	108.5 130.1 130.6	108.4 130.2 130.7	109.5 130.2 130.7	109.9 130.2 130.8	109.7 130.3 130.8	130.3	130.4	130.4	130.4	107.3 130.1 130.5	108.8 130.2 130.7	130.3	130.4	130.2
2006 Capacity (percent of 2002 output) 2004 2005 2006 Utilization (percent) 1984 1985 1986	106.9 130.1 130.5 131.1 79.2 79.6 80.1	107.2 130.1 130.5 131.3 79.4 79.9 79.3	107.7 130.1 130.6 131.4 79.7 79.8 78.7	108.5 130.1 130.6 131.6 80.1 79.7 78.7	108.4 130.2 130.7 131.7 80.3 79.6 78.7	109.5 130.2 130.7 131.9 80.4 79.4 78.5	109.9 130.2 130.8 132.0 80.5 78.9 78.7	109.7 130.3 130.8 132.2 80.4 79.1 78.4	130.3 130.9 80.1 79.3 78.5	130.4 130.9 79.9 78.9 78.9 78.7	130.4 131.0 80.1 79.0 79.0	130.4 131.0 80.0 79.7 79.6	107.3 130.1 130.5 131.3 79.5 79.8 79.4	108.8 130.2 130.7 131.7 80.3 79.6 78.6	130.3 130.8 80.4 79.1 78.5	130.4 131.0 80.0 79.2 79.1	130.2 130.7 80.0 79.4 78.9
2006 Capacity percent of 2002 output) 2004 2005 2006 Utilization percent) 1984 1985 1986 1987	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9	130.3 130.9 80.1 79.3 78.5 81.9	130.4 130.9 79.9 78.9 78.7 83.1	130.4 131.0 80.1 79.0 79.0 83.4	130.4 131.0 80.0 79.7 79.6 83.7	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8	130.3 130.8 80.4 79.1 78.5 81.7	130.4 131.0 80.0 79.2 79.1 83.4	130.2 130.7 80.0 79.4 78.9 81.4
2006 Capacity <i>(percent of 2002 output)</i> 2004 2005 2006 Utilization <i>(percent)</i> 1984 1985 1986 1987	106.9 130.1 130.5 131.1 79.2 79.6 80.1	107.2 130.1 130.5 131.3 79.4 79.9 79.3	107.7 130.1 130.6 131.4 79.7 79.8 78.7	108.5 130.1 130.6 131.6 80.1 79.7 78.7	108.4 130.2 130.7 131.7 80.3 79.6 78.7	109.5 130.2 130.7 131.9 80.4 79.4 78.5	109.9 130.2 130.8 132.0 80.5 78.9 78.7	109.7 130.3 130.8 132.2 80.4 79.1 78.4	130.3 130.9 80.1 79.3 78.5	130.4 130.9 79.9 78.9 78.9 78.7	130.4 131.0 80.1 79.0 79.0	130.4 131.0 80.0 79.7 79.6	107.3 130.1 130.5 131.3 79.5 79.8 79.4	108.8 130.2 130.7 131.7 80.3 79.6 78.6	130.3 130.8 80.4 79.1 78.5	130.4 131.0 80.0 79.2 79.1	130.2 130.7 80.0 79.4 78.9 81.4
2006 Capacity (percent of 2002 output) 2004 2005 2006 Utilization (percent) 1984	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 84.9	130.3 130.9 80.1 79.3 78.5 81.9 84.5	130.4 130.9 79.9 78.9 78.7 83.1	130.4 131.0 80.1 79.0 79.0 83.4	130.4 131.0 80.0 79.7 79.6 83.7	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8	130.3 130.8 80.4 79.1 78.5 81.7 84.6	130.4 131.0 80.0 79.2 79.1 83.4	130.2 130.7 80.0 79.4 78.9 81.4 84.5
2006 Capacity (percent of 2002 output) 2004 2005 2006 Utilization (percent) 1984 1985 1986 1987 1988 1989 1990	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9	130.3 130.9 80.1 79.3 78.5 81.9	130.4 130.9 79.9 78.9 78.7 83.1 84.9	130.4 131.0 80.1 79.0 79.0 83.4 85.0	130.4 131.0 80.0 79.7 79.6 83.7 85.3	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4	130.3 130.8 80.4 79.1 78.5 81.7	130.4 131.0 80.0 79.2 79.1 83.4 85.1	130.2 130.7 80.0
2006 Capacity [percent of 2002 output] 2004 2005 2006 Utilization [percent] 1984 1985 1986 1987 1988 1988 1989 1989 1990 1991	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 83.2 79.5	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 83.0 80.1	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 84.9 83.6 83.1 80.1	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 80.5 79.7	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 84.4 83.2 79.5	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 83.1 81.4 80.1	130.2 130.7 80.0 79.4 78.9 81.4 84.5 84.0 82.7 79.8
2006 Capacity [percent of 2002 output] 2004 2005 2006 Utilization [percent] 1984 1985 1986 1987 1988 1989 1989 1990 1991 1992	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 79.3 79.5	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 80.5	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 83.2 79.5 80.6	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2 80.4	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 83.0 80.1 81.0	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 84.9 83.6 83.1 80.1 80.5	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7 80.5	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5 80.9	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 80.5 79.7 81.0	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.4 79.5	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 84.4 83.2 79.5 80.5	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3 80.6	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 83.1 81.4 80.1 81.0	130.2 130.7 80.0 79.4 78.9 81.4 84.5 84.0 82.7 79.8 80.4
2006 Capacity percent of 2002 output) 2004 2005 2006 Utilization percent) 1984 1985 1986 1987 1988 1989 1989 1989 1989	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 83.2 79.5	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 83.0 80.1	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 84.9 83.6 83.1 80.1	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 80.5 79.7	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 84.4 83.2 79.5	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 83.1 81.4 80.1	130.2 130.7 80.0 79.4 78.9 81.4 84.5 84.0 82.7 79.8 80.4
2006 Capacity (percent of 2002 output) 2004 2005 2006 Utilization percent) 1984 1985 1986 1987 1988 1989 1989 1990 1991 1992	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 79.3 79.5	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 80.5	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 83.2 79.5 80.6	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2 80.4	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 83.0 80.1 81.0	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 84.9 83.6 83.1 80.1 80.5	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7 80.5	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5 80.9	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 80.5 79.7 81.0	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.4 79.5	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 84.4 83.2 79.5 80.5	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3 80.6	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 83.1 81.4 80.1 81.0	130.2 130.7 80.0 79.4 78.9 81.4 84.5 84.0 82.7 79.8 80.4 81.5
2006 Capacity percent of 2002 output) 2004 2005 2006 Utilization percent) 984 985 986 987 988 988 989 9990 991 992 993 1994	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0 81.3 82.6 85.0	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 79.5 81.5	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0 81.3	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 80.5 81.5	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 83.2 79.5 80.6 81.0	109.5 130.2 130.7 131.9 80.4 79.4 79.5 81.1 84.5 84.1 83.3 80.2 80.4 81.2	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 83.0 80.1 81.0 81.3	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 83.6 83.1 80.1 80.5 81.2	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7 80.5 81.4	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5 80.9 81.9	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1 82.1	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 80.5 79.7 81.0 82.4	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.5 81.4	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 84.4 83.2 79.5 80.5 81.2	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3 80.6 81.3	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 83.1 81.4 80.1 81.4 80.1 82.1	130.2 130.7 80.0 79.4 78.9 81.4 84.5 84.0
2006 Capacity percent of 2002 output) 2004 2005 2006 Jtilization percent) 984 985 986 987 988 988 989 990 991 992 993 994 995 996	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0 81.3 82.6 85.0 82.1	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 79.5 81.5 82.5 84.6 83.1	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0 81.3 83.1 84.4 82.6	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 80.5 81.5 83.2 84.0 83.1	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 83.2 79.5 80.6 81.0 83.5 83.8 83.3	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2 80.4 81.2 83.9 83.7 83.7	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 80.1 81.0 81.3 83.8 83.1 83.1	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 83.6 83.1 80.1 80.5 81.2 83.9 83.8 83.3	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7 80.5 81.4 83.8 83.7 83.5	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5 80.9 81.9 81.9 84.2 83.2 83.1	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1 82.1 82.1 84.4 83.1 83.5	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 85.3 83.4 80.5 79.7 81.0 82.4 85.0 83.1 83.7	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.5 81.4 82.7 84.6 82.6	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 84.4 83.2 79.5 80.5 81.2 83.5 83.8 83.4	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3 80.6 81.3 83.8 83.5 83.3	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 81.4 80.1 81.0 82.1 84.5 83.1 83.4	130.2 130.7 80.0 79.4 78.9 81.4 84.5 84.0 82.7 79.8 80.4 81.5 83.6 83.8 83.2
0006 Capacity percent of 002 output) 004 005 006 Jtilization percent) 984 985 986 987 988 989 989 990 991 992 993 994 995 996 997	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0 81.3 82.6 85.0 82.1 83.4	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 79.5 81.5 82.5 84.6 83.1 83.8	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0 81.3 83.1 84.4 82.6 84.0	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 80.5 81.5 83.2 84.0 83.1 83.4	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 79.5 80.6 81.0 83.5 83.8 83.3 83.4	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2 80.4 81.2 83.9 83.7 83.3	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 80.1 81.0 81.3 83.8 83.1 83.1 83.2	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 83.6 83.1 80.5 81.2 83.9 83.8 83.3 83.8	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7 80.5 81.4 83.8 83.7 83.5 84.1	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5 80.9 81.9 84.2 83.2 83.1 84.3	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1 82.1 82.1 84.4 83.1 83.5 84.6	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 80.5 79.7 81.0 82.4 85.0 83.1 83.7 84.4	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.5 81.4 82.7 84.6 82.6 83.7	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 83.4 84.4 83.5 81.2 83.5 83.8 83.4 83.4	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3 80.6 81.3 83.8 83.5 83.3 83.7	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 81.4 80.1 81.0 82.1 84.5 83.1 83.4 84.5	130.2 130.7 80.0 79.4 78.9 81.4 84.5 84.0 82.7 79.8 80.4 81.5 83.6 83.8 83.2 83.8
2006 Capacity percent of 2002 output) 2004 2005 2006 Jtilization percent) 984 985 986 987 988 989 989 990 991 992 993 994 995 996 997	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0 81.3 82.6 85.0 82.1	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 79.5 81.5 82.5 84.6 83.1	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0 81.3 83.1 84.4 82.6	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 80.5 81.5 83.2 84.0 83.1	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 83.2 79.5 80.6 81.0 83.5 83.8 83.3	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2 80.4 81.2 83.9 83.7 83.7	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 80.1 81.0 81.3 83.8 83.1 83.1	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 83.6 83.1 80.1 80.5 81.2 83.9 83.8 83.3	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7 80.5 81.4 83.8 83.7 83.5	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5 80.9 81.9 81.9 84.2 83.2 83.1	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1 82.1 82.1 84.4 83.1 83.5	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 85.3 83.4 80.5 79.7 81.0 82.4 85.0 83.1 83.7	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.5 81.4 82.7 84.6 82.6	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 84.4 83.2 79.5 80.5 81.2 83.5 83.8 83.4	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3 80.6 81.3 83.8 83.5 83.3	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 81.4 80.1 81.0 82.1 84.5 83.1 83.4	130.2 130.7 80.0 79.4 78.9 81.4 84.5 84.0 82.7 79.8 80.4 81.5 83.6 83.8 83.2 83.8
2006 Capacity percent of 2002 output) 2004 2005 2006 Utilization percent) 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1995 1997 1998	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0 81.3 82.6 85.0 82.1 83.4	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 79.5 81.5 82.5 84.6 83.1 83.8	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0 81.3 83.1 84.4 82.6 84.0	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 80.5 81.5 83.2 84.0 83.1 83.4	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 79.5 80.6 81.0 83.5 83.8 83.3 83.4	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2 80.4 81.2 83.9 83.7 83.3	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 80.1 81.0 81.3 83.8 83.1 83.1 83.2	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 83.6 83.1 80.5 81.2 83.9 83.8 83.3 83.8	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7 80.5 81.4 83.8 83.7 83.5 84.1	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5 80.9 81.9 84.2 83.2 83.1 84.3	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1 82.1 82.1 84.4 83.1 83.5 84.6	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 80.5 79.7 81.0 82.4 85.0 83.1 83.7 84.4	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.5 81.4 82.7 84.6 82.6 83.7	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 83.4 84.4 83.5 81.2 83.5 83.8 83.4 83.4	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3 80.6 81.3 83.8 83.5 83.3 83.7	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 81.4 80.1 81.0 82.1 84.5 83.1 83.4 84.5	130.2 130.7 130.7 80.0 79.4 78.9 81.4 84.5 84.0 82.7 79.8 80.4 81.5 83.6 83.8 83.2 83.8 83.2 83.8 83.1
2006 Capacity percent of 2002 output) 2004 2005 2006 Utilization percent) 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1994 1995 1996 1997 1998	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0 81.3 82.6 85.0 82.1 83.4 84.2	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 79.5 81.5 82.5 84.6 83.1 83.8 83.9	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0 81.3 83.1 84.4 82.6 84.0 83.6	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 80.5 81.5 83.2 84.0 83.1 83.4 83.6	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 83.2 79.5 80.6 81.0 83.5 83.8 83.3 83.4 83.7	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2 80.4 81.2 83.9 83.7 83.7 83.3 82.8	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 80.1 81.0 81.3 83.8 83.1 83.1 83.2 81.9	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 83.6 83.1 80.1 80.5 81.2 83.9 83.8 83.3 83.8 83.3	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7 80.5 81.4 83.8 83.7 83.5 84.1 82.6	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5 80.9 81.9 84.2 83.2 83.1 84.3 82.8	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1 82.1 84.4 83.1 83.5 84.6 82.3	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 80.5 79.7 81.0 82.4 85.0 83.1 83.7 84.4 82.2	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.5 81.4 82.7 84.6 82.6 83.7 83.9	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 83.2 79.5 80.5 81.2 83.5 83.8 83.4 83.4 83.4	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3 80.6 81.3 83.8 83.5 83.3 83.5 83.3 83.7 82.6	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 81.4 80.1 81.0 82.1 84.5 83.1 83.4 84.5 83.1 83.4	130.2 130.7 130.7 80.0 79.4 78.5 81.4 84.5 84.0 82.7 79.8 80.4 81.5 83.6 83.8 83.2 83.8 83.1 83.8 83.1
2006 Capacity percent of 2002 output) 2004 2005 2006 Utilization percent) 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0 81.3 82.6 85.0 82.1 83.4 84.2 82.2 81.9 78.9	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 79.5 81.5 82.5 81.5 82.5 84.6 83.1 83.8 83.9 82.1 81.8 78.4	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0 81.3 83.1 84.4 82.6 84.0 83.6 81.9 81.8 78.0	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 80.5 81.5 83.2 84.0 83.1 83.4 83.6 81.5 82.0 78.0	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 79.5 80.6 81.0 83.5 83.8 83.3 83.4 83.7 81.9 81.8 77.3	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2 80.4 81.2 83.9 83.7 83.7 83.3 82.8 81.4 81.7 76.9	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 83.0 80.1 81.0 81.3 83.8 83.1 83.1 83.2 81.9 81.4 81.2 76.7	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 83.6 83.1 80.5 81.2 83.9 83.8 83.3 83.8 83.3 81.6 80.7 76.4	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7 80.5 81.4 83.8 83.7 83.5 84.1 82.6 81.0 80.9 76.0	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5 80.9 81.9 84.2 83.2 83.1 84.3 82.8 81.9 80.4 75.5	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1 82.1 82.1 84.4 83.1 83.5 84.6 82.3 82.0 80.2 75.1	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 85.3 83.4 85.5 79.7 81.0 82.4 85.0 83.1 83.7 84.4 82.2 82.3 79.7 75.0	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.5 81.4 82.7 81.4 82.7 84.6 82.6 83.7 83.9 82.1 81.8 78.4	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 83.4 81.6 81.9 77.4	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3 83.8 83.1 80.3 83.8 83.5 83.3 83.7 82.6 81.4 80.9 76.4	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 81.4 80.1 82.1 84.5 83.1 83.4 84.5 82.5 82.5 82.1 80.1 75.2	130.2 130.7 130.7 80.0 79.2 78.5 81.2 84.5 83.6 83.6 83.6 83.6 83.6 83.6 83.6 83.6
2006 2006 2006 2002 2004 2005 2004 2005 2006 2006 2006 2006 2006 2006 2008 2008	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0 81.3 82.6 85.0 82.1 83.4 84.2 82.2 81.9 78.9 75.6	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 84.0 85.0 83.2 79.5 81.5 82.5 84.6 83.1 83.8 83.9 82.1 81.8 78.4 75.4	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0 81.3 83.1 84.4 82.6 84.0 83.6 81.9 81.8 78.0 76.1	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 83.2 84.0 83.1 83.4 83.6 81.5 82.0 78.0 78.0 76.3	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 83.2 79.5 80.6 81.0 83.5 83.8 83.3 83.4 83.7 81.9 81.8 77.3 76.6	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2 80.4 81.2 83.9 83.7 83.7 83.3 82.8 81.4 81.7 76.9 77.3	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 83.0 83.0 83.1 83.1 83.1 83.1 83.1 83.2 81.9 81.4 81.2 76.7 77.0	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 83.6 83.1 80.5 81.2 83.9 83.8 83.3 83.8 83.3 81.6 80.7 76.4 77.0	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.5 81.4 83.8 83.7 83.5 81.4 83.8 83.7 83.5 84.1 82.6 81.0 80.9 76.0 76.9	130.4 130.9 79.9 78.7 83.1 84.9 82.4 80.5 80.9 81.9 84.2 83.2 83.1 84.3 82.8 81.9 80.4 75.5 76.6	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1 82.1 84.4 83.5 84.6 82.3 82.0 80.2 75.1 76.8	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 80.5 79.7 78.1.0 82.4 85.0 83.1 83.7 81.0 82.4 85.0 83.1 83.7 84.4 82.2 82.3 79.7 75.0 76.3	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.5 81.4 82.7 81.4 82.7 81.4 82.7 81.4 82.7 83.9 82.1 81.8 78.4 75.7	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 84.4 83.2 79.5 80.5 81.2 83.5 81.2 83.5 83.4 83.4 83.4 83.4 83.4 81.6 81.9 77.4 76.7	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.6 81.3 83.8 83.8 83.5 83.3 83.7 82.6 81.4 80.9 76.4 77.0	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 81.4 80.1 82.1 84.5 83.1 81.4 84.5 83.1 83.4 84.5 82.5 82.1 80.1 75.2 76.6	130.2 130.7 130.7 80.0 79.4 81.4 84.5 84.6 82.7 79.8 80.4 81.5 83.6 83.8 83.2 83.2 83.2 83.2 83.2 83.2 83.2
2006 Capacity (percent of 2002 output) 2004 2005 2006 Utilization (percent) 1984 1985 1986 1987 1988	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0 81.3 82.6 85.0 82.1 83.4 84.2 82.2 81.9 78.9	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 79.5 81.5 82.5 81.5 82.5 84.6 83.1 83.8 83.9 82.1 81.8 78.4	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0 81.3 83.1 84.4 82.6 84.0 83.6 81.9 81.8 78.0	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 80.5 81.5 83.2 84.0 83.1 83.4 83.6 81.5 82.0 78.0	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 79.5 80.6 81.0 83.5 83.8 83.3 83.4 83.7 81.9 81.8 77.3	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2 80.4 81.2 83.9 83.7 83.7 83.3 82.8 81.4 81.7 76.9	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 83.0 80.1 81.0 81.3 83.8 83.1 83.1 83.2 81.9 81.4 81.2 76.7	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 83.6 83.1 80.5 81.2 83.9 83.8 83.3 83.8 83.3 81.6 80.7 76.4	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7 80.5 81.4 83.8 83.7 83.5 84.1 82.6 81.0 80.9 76.0	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5 80.9 81.9 84.2 83.2 83.1 84.3 82.8 81.9 80.4 75.5	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1 82.1 82.1 84.4 83.1 83.5 84.6 82.3 82.0 80.2 75.1	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 85.3 83.4 85.5 79.7 81.0 82.4 85.0 83.1 83.7 84.4 82.2 82.3 79.7 75.0	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.5 81.4 82.7 81.4 82.7 84.6 82.6 83.7 83.9 82.1 81.8 78.4	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 83.4 81.6 81.9 77.4	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3 83.8 83.1 80.3 83.8 83.5 83.3 83.7 82.6 81.4 80.9 76.4	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 81.4 80.1 81.0 82.1 84.5 83.1 83.4 84.5 82.5 82.5 82.1 80.1 75.2	130.2 130.7 130.7 80.0 79.4 81.4 84.5 84.6 82.7 79.8 80.4 81.5 83.6 83.8 83.2 83.2 83.2 83.2 83.2 83.2 83.2
2006 Capacity percent of 2002 output) 2004 2005 2006 Utilization percent) 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1995 1995 1995 1995 1995 1995 1997 1998 1999 2000 2001 2002 2003	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0 81.3 82.6 85.0 82.1 83.4 84.2 82.2 81.9 75.6 76.7	130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 81.5 82.5 84.6 83.1 83.8 83.9 82.1 81.8 78.4 75.4 76.6	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0 81.3 83.1 84.4 82.6 84.0 83.6 81.9 81.8 78.0 76.4	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 80.5 81.5 83.2 84.0 83.1 83.4 83.6 81.5 82.0 78.0 76.3 75.8	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.2 83.2 79.5 80.6 81.0 83.5 83.4 83.7 81.9 81.8 77.3 76.6 75.8	130.2 130.7 130.7 131.9 80.4 79.4 78.5 81.1 83.3 80.4 81.2 83.9 83.7 80.4 81.4 81.7 76.0	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 83.0 81.3 83.8 83.1 83.1 83.2 81.9 81.4 81.2 76.7 77.0 76.3	130.3 130.3 130.8 132.2 80.4 79.1 78.4 81.9 84.9 83.6 83.1 80.5 81.2 83.9 83.8 83.3 83.8 83.3 81.6 80.7 76.4 77.0 76.3	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.7 80.5 81.4 83.8 83.7 83.5 84.1 82.6 81.0 80.9 76.0 76.8	130.4 130.9 79.9 78.9 78.7 83.1 84.9 82.9 82.4 80.5 80.9 81.9 84.2 83.2 83.1 84.3 82.8 81.9 80.4 75.5 76.6 76.8	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1 82.1 84.4 83.1 82.1 84.4 83.5 84.6 82.3 82.0 80.2 75.1 76.8 77.5	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 80.5 79.7 81.0 82.4 85.0 83.1 83.7 84.4 85.0 83.1 83.7 84.4 82.2 82.3 79.7 75.0 76.3 77.6	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.5 81.4 82.7 81.4 82.7 84.6 82.6 83.7 83.9 82.1 81.8 78.4 75.7 76.6	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 83.2 79.5 80.5 81.2 83.4 83.4 83.4 83.4 83.4 83.4 83.4 83.4 83.7 77.4 77.5	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.3 80.6 81.3 83.8 83.5 83.3 83.7 82.6 81.4 80.9 76.4	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 81.4 80.1 82.1 84.5 82.5 82.1 80.1 75.2 76.6 77.3	130.2 130.7 130.7 80.0 79.4 78.9 81.4 84.5 84.0 82.7 79.8 80.4 81.5 83.6 83.8 83.2 83.8 83.2 83.8 83.1 81.8 81.2 76.5 76.5 76.5
2006 2006 2006 2002 2004 2005 2004 2005 2006 2006 2006 2006 2006 2006 2008 2008	106.9 130.1 130.5 131.1 79.2 79.6 80.1 79.2 83.7 85.5 82.7 80.1 79.0 81.3 82.6 85.0 82.1 83.4 84.2 82.2 81.9 78.9 75.6	107.2 130.1 130.5 131.3 79.4 79.9 79.3 80.0 84.0 85.0 83.2 79.3 84.0 85.0 83.2 79.5 81.5 82.5 84.6 83.1 83.8 83.9 82.1 81.8 78.4 75.4	107.7 130.1 130.6 131.4 79.7 79.8 78.7 80.1 84.1 85.2 83.5 78.8 80.0 81.3 83.1 84.4 82.6 84.0 83.6 81.9 81.8 78.0 76.1	108.5 130.1 130.6 131.6 80.1 79.7 78.7 80.4 84.4 84.9 83.3 78.8 83.2 84.0 83.1 83.4 83.6 81.5 82.0 78.0 78.0 76.3	108.4 130.2 130.7 131.7 80.3 79.6 78.7 80.8 84.3 84.3 84.2 83.2 79.5 80.6 81.0 83.5 83.8 83.3 83.4 83.7 81.9 81.8 77.3 76.6	109.5 130.2 130.7 131.9 80.4 79.4 78.5 81.1 84.5 84.1 83.3 80.2 80.4 81.2 83.9 83.7 83.7 83.3 82.8 81.4 81.7 76.9 77.3	109.9 130.2 130.8 132.0 80.5 78.9 78.7 81.4 84.5 83.0 83.0 83.0 83.0 83.1 83.1 83.1 83.1 83.1 83.2 81.9 81.4 81.2 76.7 77.0	109.7 130.3 130.8 132.2 80.4 79.1 78.4 81.9 83.6 83.1 80.5 81.2 83.9 83.8 83.3 83.8 83.3 81.6 80.7 76.4 77.0	130.3 130.9 80.1 79.3 78.5 81.9 84.5 83.2 83.1 80.5 81.4 83.8 83.7 83.5 81.4 83.8 83.7 83.5 84.1 82.6 81.0 80.9 76.0 76.9	130.4 130.9 79.9 78.7 83.1 84.9 82.4 80.5 80.9 81.9 84.2 83.2 83.1 84.3 82.8 81.9 80.4 75.5 76.6	130.4 131.0 80.1 79.0 79.0 83.4 85.0 83.0 81.2 80.2 81.1 82.1 84.4 83.5 84.6 82.3 82.0 80.2 75.1 76.8	130.4 131.0 80.0 79.7 79.6 83.7 85.3 83.4 80.5 79.7 78.1.0 82.4 85.0 83.1 83.7 81.0 82.4 85.0 83.1 83.7 84.4 82.2 82.3 79.7 75.0 76.3	107.3 130.1 130.5 131.3 79.5 79.8 79.4 79.8 83.9 85.2 83.1 79.4 79.5 81.4 82.7 81.4 82.7 81.4 82.7 81.4 82.7 83.9 82.1 81.8 78.4 75.7	108.8 130.2 130.7 131.7 80.3 79.6 78.6 80.8 84.4 84.4 84.4 83.2 79.5 80.5 81.2 83.5 81.2 83.5 83.4 83.4 83.4 83.4 83.4 81.6 81.9 77.4 76.7	130.3 130.8 80.4 79.1 78.5 81.7 84.6 83.3 83.1 80.6 81.3 83.8 83.8 83.5 83.3 83.7 82.6 81.4 80.9 76.4 77.0	130.4 131.0 80.0 79.2 79.1 83.4 85.1 83.1 81.4 80.1 82.1 84.5 83.1 81.4 84.5 83.1 83.4 84.5 82.5 82.1 80.1 75.2 76.6	130.2 130.7 80.0 79.4 78.9 81.4 84.5 84.0 82.7 79.8 80.4 81.5 83.6 83.8 83.2

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

 I. 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.

Year Jam Feb. Mar Age May Jame Jage Age State Opt Nov. Dec. Opt Opt <th< th=""><th>Seasonally adjusted</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	Seasonally adjusted																	
change?	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
change?	IP (percent																	
1984 1.8 .9 .4 .4 .1 .3 .4 .1 .3 .4 .1																		
1986 1.3 7 3 4 4 1 7 3 3 4 8 8 7.3 1.2 4.2 2.2 2.3 3 3 5 5 5 5 5 1.2 4.2 1.4 3 6 7 7.3 1.4 0 0 1.3 3 6 3 4 1.4 1.4 6.4 6.4 7.4 1.4 1.4 1.4 2.3 1.4 3 2.2 1.4 2.3 1.4 1.4 2.4 1.4 2.4 1.4 2.4 3		1.8	.9	.4	.4	.1	.3	.4	.1		.4	.3	.3	11.4	4.4	2.0	1.9	8.4
1987 -4 1.4 1.4 1.4 1.4 7 3.3 5 1.5 1.5 5 5 4 2.8 5.5 1.0 4.4 1988 -2 1.1 0 0.0 0.8 1.1 1.3 9 3.3 3.1 1.1 1.2 2.8 3.7 2.1 3.7 2.1 3.8 1.2 2.8 3.7 2.1 1.4 3.3 2.1 1.4 3.3 2.1 1.4 3.3 2.1 1.4 3.5 2.1 1.1 2.2 2.7 2.0 1.0 2.6 2.5 1.5 2.2 1.5 2.1 1.0 2.6 <																		
1988 -2 .1 .2 .7 .7 .7 .0 .0 .1 .3 .6 .3 .4 .20 .3 .4 .40 .6 .7 .4 .4 1990 .3 .4 .0 .2 .3 .2 .1 .2 .3 .3 .4 .4 .21 .2.7 .3 .3 .3 .3 .3 .4 .0 .2 .1 .2 .1 .2 .3 .3 .2 .1 .2 .3 .5 .3 .4 .0 .2 .2 .5 .1 .2 .2 .3 .5 .0 .8 .6 .9 .2 .9 .4 .1 .0 .1 .5 .6 .2 .3 .5 .8 .6 .9 .2 .9 .0 .0 .5 .4 .1 .3 .4 .1 .3 .4 .1 .3 .5 .4 .1 .3 .4 .1 .3 .4 .1 .3 .3 .4																		
1980 9 -1.0 0 8 .1 -1.3 .9 3 3 .1 1 2.1 .5.7 .4.0 .2 .7.2 .7.3 .1 .2.1 .7.3 .2.1 .2.2 .7.2 .7.3 .1.1 .2.4 .1.2 .2.3 .2.1 .2.2 .7.2 .7.3 .3 .3 .4.1 .1.1 .2.1 .7.3 .7.3 .3 .3 .4.1 .1.1 .2.1 .2.1 .2.1 .2.2 .7.2 .7.3 .5 .1.3 .3																		
1990 -3 1.4 -3 -2 0.0 2 -2 2 3 -1.1 -2 2 3.5 4.8 1.5 7.1 1.0 2.5 1.1 -2 2.3 3.4 4.8 3.7 2.1 0.2 0.7 0.1 0.5 7.1 1.4 3.3 -2 1.1 0.5 0.7 1.1 0.7 1.1 0.7 1.1 0.7 1.1 0.7 1.1 0.7 1.1 0.7 1.1 0.7 1.1 0.7 1.1 1.3 1.3 1.3 1.3 1.3 1.4 1.3 <th< td=""><td>1988</td><td>2</td><td>.1</td><td>.2</td><td>./</td><td>2</td><td>.0</td><td>.0</td><td>.1</td><td>.3</td><td>.6</td><td>.3</td><td>.4</td><td>2.0</td><td>3.4</td><td>.6</td><td>4.7</td><td>4.4</td></th<>	1988	2	.1	.2	./	2	.0	.0	.1	.3	.6	.3	.4	2.0	3.4	.6	4.7	4.4
1990 -3 1.4 -3 -2 0.0 2 -2 2 3 -1.1 -2 2 3.5 4.8 1.5 7.1 1.0 2.5 1.1 -2 2.3 3.4 4.8 3.7 2.1 0.2 0.7 0.1 0.5 7.1 1.4 3.3 -2 1.1 0.5 0.7 1.1 0.7 1.1 0.7 1.1 0.7 1.1 0.7 1.1 0.7 1.1 0.7 1.1 0.7 1.1 0.7 1.1 1.3 1.3 1.3 1.3 1.3 1.4 1.3 <th< td=""><td>1989</td><td>.9</td><td>-1.0</td><td>.0</td><td>.0</td><td>8</td><td>.1</td><td>-1.3</td><td>.9</td><td>3</td><td>3</td><td>.1</td><td>.1</td><td>2.1</td><td>-3.7</td><td>-4.0</td><td>4</td><td>.4</td></th<>	1989	.9	-1.0	.0	.0	8	.1	-1.3	.9	3	3	.1	.1	2.1	-3.7	-4.0	4	.4
1993 1.0 9 9 9 4 6 1 7 7 5 7.1 6.3 7.2 7.2 7.2 7.2 7.3 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																		
1993 1.0 0. -1.2 5 -1.1 -2.2 2.2 7.3 3.5 3.8 8 5 5.8.8 4.2 1094 1.1 0 1.1 5 6.2 3.5 0 8 6.6 9 3.9 7.0 4.0 6.8 4.4 1095 1.2 1.3 3 1.0 2 8 1.1 5 5 4.4 1.1 2.2 2.8 1.1 6.4 4.3 3.5 1.5 1.5 1.4 8 4.7 1.7 7.1 1.2 2.8 1.1 -7.7 4.1 4.4 4.8 4.4 4.9 9.0 1.1 5.0 4.3 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.0 2.0 2.0 7.1 1.4 4.7 1.1 5.0 1.1 3.9 1.1 2.0 2.7 1.1 4.7 1.1 1.0	1991				.3	.7	1.1		.2	1.1	2			-9.8	1.5	7.1	1.0	-2.6
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																		
1905 1.2 1.3 1.4 1.3 2.5 1.4 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.0 1.5 1.0 1.5 1.0 1.1 1.7 1.7 1.5 1.0 1.1 1.1 1.1 1.7 1.1 1.7 1.4 4.4	1993	1.0	.0	2	.5	1	2	.2	2	.5	.7	.3	.5	3.8	.8	.5	5.8	2.6
1905 1.2 1.3 1.4 1.3 2.5 1.4 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.0 1.5 1.0 1.5 1.0 1.1 1.7 1.7 1.5 1.0 1.1 1.1 1.1 1.7 1.1 1.7 1.4 4.4	1994	.1	.0	1.1	.5	.6	.2	.3	.5	.0	.8	.6	.9	3.9	7.0	4.0	6.8	4.4
1996 -1.2 1.0 4 8 -1.4 4 5 -4 8 0 -1.8 6.9 4.1 1.3 1.5 1997 -2 1.0 9 -7 5 A 1 1.3 7 7 7 7 1.2 2.8 1.0 7.7 8.4 4.4 4.5 2.8 3.3 4.7 1.4 3.5 1990 -1 5 -5 -1 8.7 -7 0 7.7 -6 1.4 4.4 4.6 9 8.3 3.7 7.1 9 1.0 1.0 -7 -7.3 3.7 7.2 2.0 2.6 7.8 8.4 4.3 4.4 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 9.0 1.4 4.4 6.0 2.9 3.6 3.3 3.6 3.0 3.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1																		
1998 .4 .1 .5 .2.4 .7.7 .7.1 .2.2 2.8 .1.1 .7.7 4.1 3.5 1999 3 3 4 .1 5 .0 .7 -0 1.4 .4 .6 .9 6 .8 .3 .4 .7 .4 .4 .4 .7 .7 .2 .7 .4 .4 .4 .0 .7 .3 .4 .	1996			5		.4			.4			.8		-1.8	6.9	4.1	3.3	1.5
1999 -1 5 -5 -5 -7 0 7 -6 1.4 .4 4 8 3 4 7 1.4 2000 -7 -6 -4 1 -8 -4 0 -7 -2 2 2 -7 -4 4 -4 -7 -3 -7 -2 2 -7 -4 -4 -3 -7 -2 2 -5 -7 -2 2 -7 -4 4 -7 -1 -5 -3 -2 -5 -7 -8 -4 -1 -5 -3 -5 -9 0 -4 4.4 -0 2.9 -5 -8 -2 -7 1.8 -5 -9 0 -4 4.4 -0 -7 -8 -3 -2 -8 -3 -7 1.8 -6 3 2.8 -5 -80 2.8 -3 -8 -3 -8 -3																		
2000 -3 -1 -3 -4 -5 -5 -7 -5 -7 -	1998	.4	1	3	.4	.4	-1.1	9	2.4	7	.7	1	.2	2.8	.1	7	4.1	3.5
2000 -3 -1 -3 -4 -5 -5 -7 -5 -7 -	1999	- 1	5	- 5	_ 1	8	- 7	0	7	- 6	1.4			8	3		7 1	1.4
2001 -7 -6 -7 -8 -7 -7 2 2 7.8 4.1 4.3 4.5 1.0 -3 1.0 -1 -7 1.1 -6 1.0 -7 1.1 -7 1.1 -7 1.1 -7.5 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.0 -7.5 1.0 <th1< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th1<>																		
2002 7 -1 9 1 -5 1.0 -4 1 -1 -7 1 -6 422 5.3 1.7 -3.2 3 2003 3 -4 1. -9 -7.2 5 1.1 -3 9 0 1.2 0 1.2 0.1 1.8 0.4 4.4 6.0 2.9 3.6 3.8 2005 3 4.4 -4 1.3 3.2 0 2.2 -7 1.8 6 3 2.8 3 5 8.0 2.8 2005 105.2 105.6 105.2 105.5 105.5 105.5 105.5 105.5 105.4 105.6 107.6 106.1 2005 105.0 105.2 105.6 105.2 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 </td <td></td>																		
2004 1 .8 .1 .9 .7 .7 .8 .5 .5 .9 .0 .4 4.4 .00 .29 .3 .8 2005 .9 .3 .4 .4 .1 .3 .2 .0 .2 .7 1.8 .5 .3 .2 .8 .3 .2 .20 .2 .7 1.8 .5 .3 .2 .8 .3 .2 .20 .1 .4 .4 .4 .1 .2 .3 .3 .1 .3 .1 .3 .1 .3 .1 .3 .1 .3 .1	2002	.7	1	.9	.1	.5	1.0	4	.1	1	7	.1	6	4.2	5.3	1.7	-3.2	.3
2005 3 4 -4 1 3 2 0 2 7 1.8 6 3.3 2.8 3.5 8.0 2.8 2006 9 3 4 .8 .3 .1 .1 .1 .4 .1	2003	.3	4	.1	9	2	.5	.1	3	.9	.0	1.2	.0	-1.5	-3.9	2.1	5.3	6
2005 3 4 -4 1 3 2 0 2 7 1.8 6 3.3 2.8 3.5 8.0 2.8 2006 9 3 4 .8 .3 .1 .1 .1 .4 .1	2004	1	0	1	0	7	7	0	5	5	0	0	А	A A	60	2.0	26	20
2066 9 3 .4 .8 3 1 4.7 4.1 107 0002 1005 10.7 10.8 102.7 10.5.5 10.4.7 10.5.5 10.4.5 10.4.5 10.4.5 10.4.5 10.4.5 10.4.5 10.4.5 10.4.5 10.4.5 10.5.7 10.5.6 10.5.3 10.5.6 10.5.6 10.5.7 10.5.6 10.5.7 10.5.1 10.5.7 10.5.7 10.5.7 10.5.7 10.5.7 10.5.8 10.5.7 10.5.8 10.5.7 10.5.8 10.5.7 10.5.8 10.5.7 10.5.8 10.5.7 10.5.8 10.5.7 10.5.8 10.5.7 10.5.8 10.5.7 10.5.8 10.5.7 10.5.8																		
IP (2002-100) P <		L								/	1.0	.0					0.0	2.0
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Table 14 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing' Excluding Selected High-Technology Industries² Seasonally adjusted

I
 Refer to note on cover page.
 Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.
 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 at www.federalreserve.gov/releases/G17 at the Board's World Wide Web site. In addition, files containing data shown in the release, more detailed series that were published in the G.17 prior to December 2000, and historical data are available at the Board's Web site. Instructions for searching for and downloading specific series are provided as well. For paid access to the data files through the Department of Commerce's Economic Bulletin Board or World Wide Web site, please call STAT-USA at 1-800-STAT-USA or 202-452-1986. Diskettes containing historical data and the data published in this release also are available from the Board of Governors of the Federal Reserve System, Publications Services, 202-452-3245.

INDUSTRIAL PRODUCTION

Coverage. The industrial production (IP) index measures the real output of the manufacturing, mining, and electric and gas utilities industries; the reference period for the index is 2002. Manufacturing consists of those industries included in the North American Industry Classification System, or NAICS, definition of manufacturing plus those industries-logging and newspaper, periodical, book and directory publishing-that have traditionally been considered to be manufacturing and included in the industrial sector. For the period since 1997, the total IP index has been constructed from 300 individual series based on the 2002 North American Industrial Classification System (NAICS) codes. These individual series are classified in two ways: (1) market groups, and (2) industry groups. Market groups consist of products and materials. Total products are the aggregate of final products, such as consumer goods and equipment, and nonindustrial supplies (which are inputs to nonindustrial sectors). Materials are inputs in the manufacture of products. Major industry groups include three-digit NAICS industries and aggregates of these industries-for example, durable and nondurable manufacturing, mining, and utilities. A complete description of the market and industry structures, including details regarding series classification, relative importance weights, and data sources, is available on the Board's web site

(www.federalreserve.gov/releases/G17/About.html). Changes in output for the market and industry groups are summarized in table 1 and the levels of output (in index form) are shown in table 4. Special aggregates, that highlight the relative importance and contributions of several key industries, such as high-technology and motor vehicles, are summarized in tables 2 and 5. For a detailed description of the contents of the statistical tables, see below.

Source data. On a monthly basis, the individual indexes of industrial production are constructed from two main types of source data: (1) output measured in physical units and (2) data on inputs to the production process, from which output is inferred. Data on physical products, such as tons of steel or barrels of oil, are obtained from private trade associations and from government agencies; data of this type are used to estimate monthly IP wherever possible and appropriate. Production indexes for a few industries are derived by dividing estimated nominal output (calculated using unit production or sales and unit values) by a corresponding Fisher price index; the most notable of these fall within the high-technology grouping and include computers, communications equipment, and semiconductors. When suitable data on physical product are not available, estimates of output are based on 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 *Federal Reserve Bulletin* February 1997 and March 2001.) In the IP index, series that measure the output of an individual industry are combined using weights derived from their proportion in the total value-added output of all industries. The IP index, which extends back to 1919, is built as a chain-type index since 1972. The current formula for the growth in monthly IP (or any of the sub-aggregates) since 1972 is the geometric mean of the change in output (*I*), and, as can be seen below, is computed using the unit value added estimate for the current month (p_m) and the estimate for previous month:

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

The IP proportions (typically shown in the first column of the relevant tables in the G.17 release) are estimates of the industries' relative contributions to overall growth in the following year. For example, the relative importance weight of the motor vehicles and parts industry is about 8 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by 8/10 percentage point (0.08 x 10% = 0.8%). To assist users with calculations, the Federal Reserve's web site provides supplemental monthly statistics that represent the exact proportionate contribution of a monthly change in a component index to the monthly change in the total index (www.federalreserve.gov/releases/G17/ipdisk/ipweights.sa).

Timing. The first estimate of output for a month is published around the 15th of the following month. The estimate is preliminary (denoted by the superscript "p" in tables) and subject to revision in each of the subsequent three months as new source data become available. (Revised estimates are denoted by the superscript "r" in tables.) For the first estimate of output for a given month, about 70 percent of the source data (in value-added terms) are available; the fraction of available source data increases to about 85 percent for estimates in the second month that the estimate is published, 96 percent in the third month, and 97 percent in the fourth month. Data availability by data type is summarized in the table below:

Availability of Monthly IP Data in Publication Window (Percent of value added in 2004)

	Month of estimate								
Type of data	1st	2nd	3rd	4th					
Physical product	25	40	51	52					
Production-worker hours	45	45	45	45					
IP data received	70	85	96	97					
IP data estimated	30	15	4	3					

The physical product group includes series based on either monthly or quarterly data. As can be seen in the first line of the table, in the first month, a physical product indicator is available for about half of the series (in terms of value added) that ultimately are based on physical product data (25 percent out of total of 52 percent). Of the 25 percent, about two-thirds (17 percent of total IP) include series that are derived from weekly physical product data and for which actual monthly data may lag up to several months. On average, quarterly product data are received for the third estimate of industrial production. Specifically, quarterly data are available for the second estimate of the last month of a quarter, the third estimate of the second month of a quarter, and the fourth estimate of the first month of a quarter. About 3 percent of the source data for monthly IP—all physical product measures—are available too late for direct inclusion in the current index and are incorporated at the time of an annual historical revision.

Seasonal adjustment. Individual series are seasonally adjusted using Census X-12 ARIMA. For series based on production-worker hours, the current seasonal factors were estimated with data through April

2006; for other series, the factors were estimated with data through at least June 2005. Series are pre-adjusted for the effects of holidays or the business cycle when appropriate. For the data since 1972, all seasonally adjusted aggregate indexes are calculated by aggregating the seasonally adjusted indexes of the individual series.

Reliability. The average revision to the *level* of the total IP index, without regard to sign, between the first and the fourth estimates was 0.27 percent during the 1987–2004 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 1987–2004 period. In most cases (about 86 percent), the direction of change in output indicated by the first estimate for a given month is the same as that shown by the fourth estimate.

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

CAPACITY UTILIZATION

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

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

Source Data. The monthly rates of capacity utilization are designed to be consistent with both the monthly data on production and the periodically available data on capacity and utilization. Because there is no direct monthly information on overall industrial capacity or utilization rates, the Federal Reserve first estimates annual capacity indexes from the source data. Capacity data reported in physical units from government sources (primarily from the U.S. Geological Survey and the Department of Energy's Energy Information Administration) and trade sources are available for portions of several industries in manufacturing (e.g., paper, industrial chemicals, petroleum refining, motor vehicles), as well as for electric utilities and mining; these industries represent about 21 percent of total industrial capacity. When physical product data are unavailable for manufacturing industries, capacity indexes are based on responses to the Bureau of the Census's Survey of Plant Capacity (SPC); these industries account for a bit less than 75 percent of total industry capacity. In the absence of utilization data for a few mining and petroleum series, capacity is based on trends through peaks in production (roughly 4 percent of total industry capacity). A detailed description of the methodology used to construct the capacity indexes is available on the Board's web site (www.federalreserve.gov/releases/G17/cap_notes.html).

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

related capacity index.

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

Perspective. Over the 1972–2005 period, the average total industry utilization rate is 81.0 percent; for manufacturing, the average factory operating rate has been 79.8 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 annual revision published in November 2005 is described in an article published in the *Federal Reserve Bulletin*, vol. 92, pp. A39–A58. A description of the aggregation methods for industrial production and capacity utilization is included in an article in the *Federal Reserve Bulletin*, vol. 83 (February 1997), pp. 67-92. The Federal Reserve methodology for constructing industry-level measures of capital is detailed in "Capital Stock Estimates for Manufacturing Industries: Methods and Data" by Mike Mohr and Charles Gilbert (1996), which can be obtained at: **www.federalreserve.gov/releases/g17/capital_stock_doc-latest.pdf.**

Industrial Production—1986 Edition contains a more detailed description of the other methods used to compile the industrial production index, plus a history of its development, a glossary of terms, and a bibliography. The major revisions to the IP indexes and capacity utilization since 1990 have been described in the Federal Reserve Bulletin (April 1990, June 1990, June 1993, March 1994, January 1995, January 1996, February 1997, February 1998, January 1999, March 2000, March 2001, March 2002, April 2003, Winter 2004, Winter 2005).

Release Schedule

At 9:15 a.m. on

2006: January 17, February 15, March 17, April 14, May 16, June 15, July 17, August 16, September 15, October 17, November 16, and December 15.