FEDERAL RESERVE statistical release



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INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production rose 0.2 percent in August after an increase of 0.5 percent in July. At 114.4 percent of its 2002 average, total industrial production in August was 1.7 percent above its year-earlier level. Manufacturing output fell 0.3 percent in August after five consecutive months of increases, mining output dropped 0.6 percent, but unusually hot weather contributed to an increase of 5.3 percent in the output of utilities.

(over)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION: SUMMARY

Seasonally adjusted									
		2002=	:100				Percent of	change	
	2007				2007				Aug. '06 to
Industrial production	May ^r	June ^r	July ^r	Aug. ^p	May ^r	June ^r	July ^r	Aug. ^p	Aug. '07
Total in don	112.0	112.6	114.2	114.4	1	_	_	2	1.7
Total index	113.0	113.6	114.2	114.4	1	.6	.5	.2	1.7
Previous estimates	112.8	113.5	113.9		2	.6	.3		
Major market groups									
Final Products	114.0	114.8	115.5	115.5	2	.7	.6	.0	2.3
Consumer goods	108.8	109.4	109.9	110.0	4	.6	.4	.1	2.1
Business equipment	131.1	132.1	133.7	133.4	.2	.8	1.2	2	3.7
Nonindustrial supplies	110.8	111.3	111.1	112.0	1	.5	2	.7	.5
Construction	109.1	110.3	110.3	110.3	.7	1.1	.0	.0	9
Materials	112.7	113.2	114.0	114.3	.0	.5	.7	.2	1.5
Major industry groups									
Manufacturing (see note below)	114.9	115.7	116.6	116.3	.1	.7	.7	3	1.7
Previous estimates	114.8	115.5	116.2		1	.6	.6		
Mining	99.9	100.3	101.1	100.4	3	.4	.8	6	.5
Utilities	108.0	107.4	105.7	111.3	-1.5	6	-1.7	5.3	2.3
									Composity
			P	ercent of ca	pacity				Capacity growth
	Average	1994-95	2001-02	2006	2007				Aug. '06 to
Capacity utilization	1972–2006	high	low	Aug.	May ^r	June ^r	July ^r	Aug. ^p	Aug. '07
Total industry	81.0	85.1	73.6	82.4	81.5	81.8	82.2	82.2	2.0
Previous estimates	61.0	65.1	75.0	02.4	81.4	81.8	81.9	62.2	2.0
1 revious estimates					01.4	01.0	61.9		
Manufacturing (see note below)	79.8	84.6	71.6	81.1	80.1	80.5	81.0	80.7	2.2
Previous estimates					80.0	80.4	80.7		
Mining	87.4	88.9	84.8	90.2	89.7	90.1	90.8	90.2	.6
Utilities	86.7	93.7	83.8	87.5	85.6	85.0	83.6	87.9	1.8
Stage-of-process groups									
Crude	86.5	89.5	82.0	89.2	89.2	89.3	89.9	89.6	.4
Crude	80.3	89.3	82.0	89.4	09.2	09.3	89.9	89.0	.4

r Revised. p Preliminary.

Finished

Primary and semifinished

74.6

70.0

84.4

82.1

82.4

82.5

83.1

2.5

88.2

80.5

82.2

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.

Capacity utilization for total industry was unchanged, at 82.2 percent, a rate 0.2 percentage point below its level in August 2006 but 1.2 percentage points above its 1972–2006 average.

Market Groups

The production of consumer goods edged up 0.1 percent in August. The production of durable consumer goods decreased 1.0 percent; the drop was due mainly to a reduction of 2.1 percent in the output of automotive products. Elsewhere, the output of home electronics declined 0.2 percent; the output of appliances, furniture, and carpeting fell 0.6 percent; but the index for miscellaneous durable goods rose 0.2 percent. The production of nondurable non-energy consumer goods fell 0.3 percent; decreases in the production of foods and tobacco, of clothing, and of paper products more than offset an increase in the production of consumer chemical products. Boosted by residential sales of electricity, the index for consumer energy goods rose 3.5 percent.

The index for business equipment fell 0.2 percent in August. The output of transit equipment declined 0.2 percent, as a reduction in motor vehicle assemblies more than offset an increase in the production of civilian aircraft. The index for industrial and other equipment decreased 0.6 percent; although farm machinery increased for the second month in a row, other machinery categories registered declines. The production of defense and space equipment fell 0.6 percent.

The index for construction supplies stayed flat in August. The index for business supplies rose 1.0 percent as a result of an increase in the commercial sales of electricity; the output of non-energy business supplies was unchanged.

The production of materials rose 0.2 percent in August. Within non-energy materials, the index for durable materials fell 0.2 percent, and the index for nondurable materials fell 0.1 percent. The decrease in durable materials reflected reduced output of motor vehicle parts as well as decreases in a variety of equipment parts. Among nondurable materials, declines in the output of textiles and of chemicals more than offset an increase in the production of paper. The output of energy materials climbed 1.5 percent.

Industry Groups

Manufacturing output fell 0.3 percent in August, as production of both durable and nondurable goods decreased. The factory operating rate for manufacturing declined 0.3 percentage point in August, to 80.7 percent, a rate about 1 percentage point above its 1972–2006 average. The production of durable goods fell 0.3 percent. Decreases were recorded in wood products; machinery; electrical equipment, appliances, and components; motor vehicles and parts; furniture and related products; and miscellaneous manufacturing, whereas increases were registered in nonmetallic mineral products; primary metals; fabricated metal products; computer and electronic products; and aerospace and miscellaneous transportation equipment. The production of nondurable goods moved down 0.2 percent. Declines in the indexes for food, beverage, and tobacco products; for textile and product mills; for apparel and leather; for petroleum and coal products; and for plastics and rubber products more than offset gains in paper, printing and support, and chemical products. The output of the non-NAICS manufacturing industries (logging and publishing) fell 0.3 percent.

The output of utilities jumped 5.3 percent in August. Electric utility output increased 6.3 percent, whereas the output of natural gas utilities was unchanged. The operating rate at utilities rose to 87.9 percent, a rate 1.2 percentage points above its 1972–2006 average. The output of mines fell 0.6 percent, and the capacity utilization rate for mining fell 0.6 percentage point, to 90.2 percent, a rate 2.8 percentage points above its long-run average.

In August, capacity utilization for industries in the crude stage moved down 0.3 percentage point, to 89.6 percent. For industries in the primary and semifinished stages, capacity utilization advanced 0.6 percentage point, to 83.1 percent; for industries in the finished stage, capacity utilization fell 0.4 percentage point, to 78.8 percent.

Tables

- 1. Industrial Production: Market and Industry Group Summary; percent change
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Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

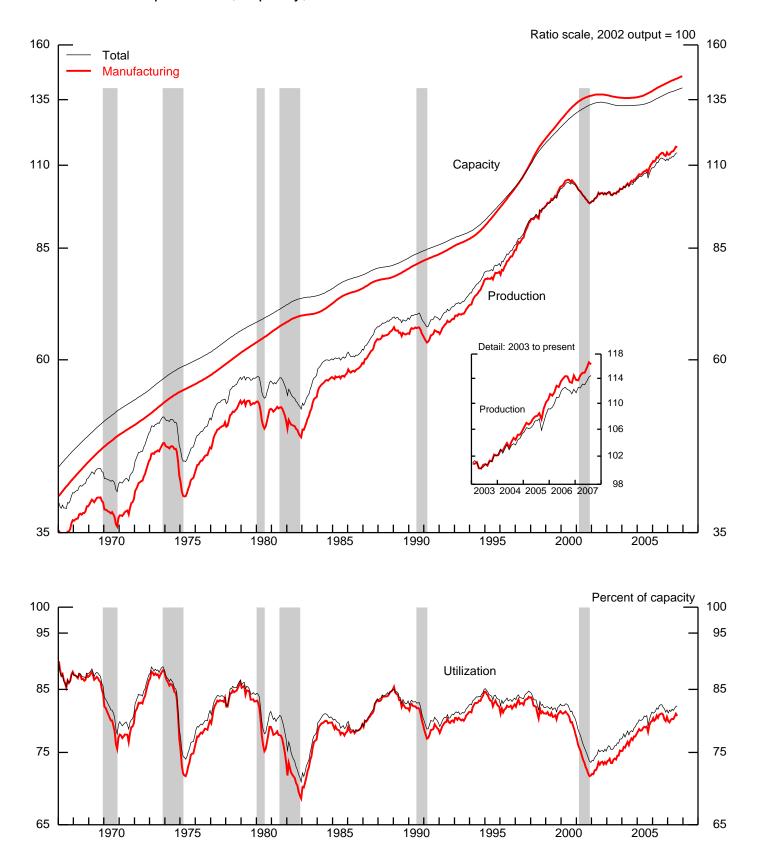
Revision of Industrial Production and Capacity Utilization

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 around the end of March 2008. The revised IP indexes will incorporate data from the 2006 Annual Surveys of Manufactures and from selected editions of the 2006 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 2006 will also be incorporated. The updating will include revisions to the monthly indicator (either product data or input data) and to seasonal factors for each industry as well as changes in the estimation methods for some series. Any changes to methods for estimating the output of an industry will affect the index from 1972 to the present. After the release of the revision, subsequent monthly releases will include new or revised indexes for a six-month reporting window: one month of new data and revisions for the previous five months.

Capacity and capacity utilization will be revised to incorporate data from the Census Bureau's 2006 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.

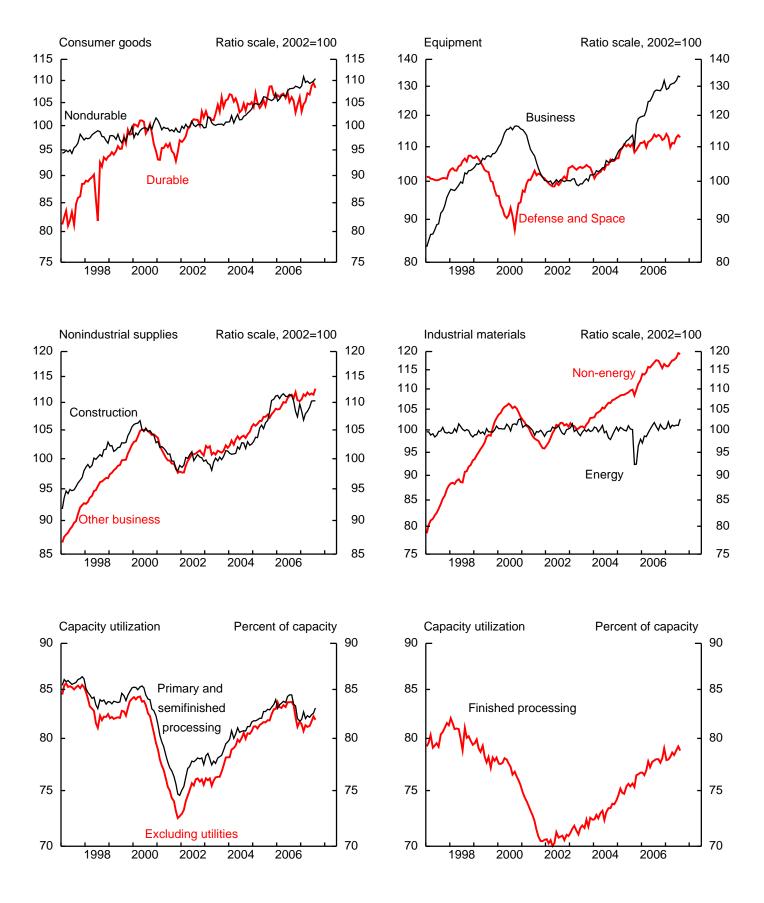
Once the revision is published, it will be available on the Board's website at www.federalreserve.gov/releases/G17. The revised data will also be available through the website of the Department of Commerce. Further information on these revisions can be obtained from the Board's Industrial Output Section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

1. Industrial production, capacity, and utilization

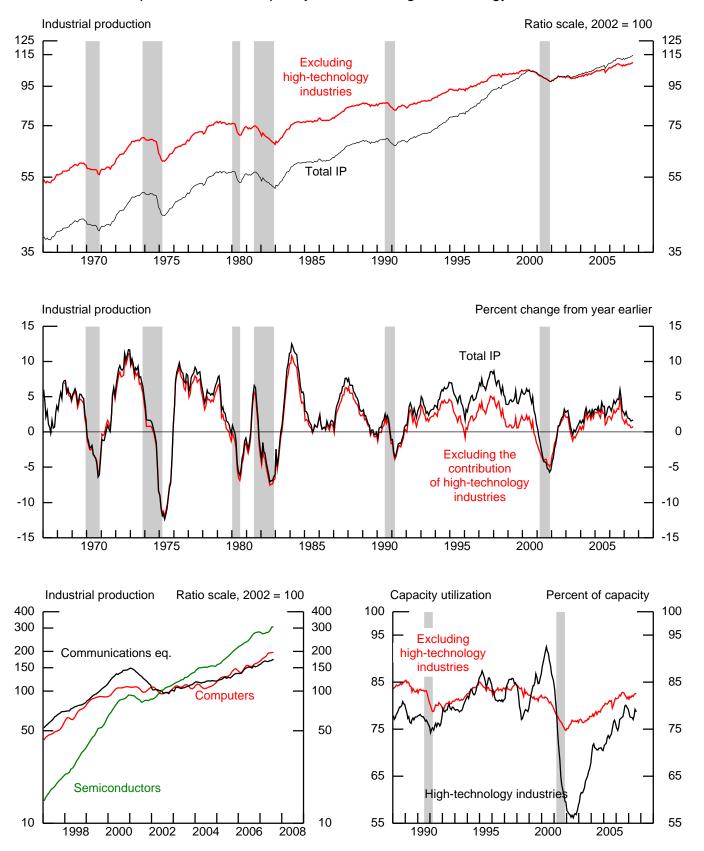


Notes: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER). See note on cover page.

2. Industrial production and capacity utilization



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



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

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

Table 1
INDUSTRIAL PRODUCTION: MARKET AND INDUSTRY GROUP SUMMARY

Percent change, seasonally adjusted		Г	P-	uth	an to	ı				ı				
				rth quarte urth quar			Annua	ıl rate			Month	nly rate		Aug. '06
Item		2006	10	urtii quai	tci	2006	Aiiiua	2007		2007	Wionu	ny rate		to
		proportion ¹	2004	2005	2006	Q3	Q4	Q1	$Q2^{r}$	May	June ^r	July ^r	Aug.p	Aug. '07
						_								
Total IP		100.00	3.0	3.2	3.5	4.0	-1.5	1.1	3.5	1	.6	.5	.2	1.7
Market Groups														
Final products and nonindustrial supplies	s	57.43	2.6	4.8	2.6	3.9	3	1.5	3.1	2	.6	.4	.2	1.8
Consumer goods	~	29.36	1.8	2.7	1.1	2.6	1	3.4	2.5	4	.6	.4	.1	2.1
Durable		7.16	2	2.3	-2.5	-4.6	-4.0	7	12.9	3	1.8	.7	-1.0	2.0
Automotive products		3.33	-3.2	-1.8	-4.6	-10.1	-3.4	.4	20.3	-1.2	3.0	1.3	-2.1	3.7
Home electronics Appliances, furniture, carpeting		.36 1.23	14.2 2.2	16.8 3.1	13.1 -4.7	-9.7 -5.1	8.1 -8.4	40.8 -8.2	21.6 4.3	7 .8	.5 1	8 4	2 6	17.9 -5.0
Miscellaneous goods		2.24	2.2	6.4	-4.7	5.6	-4.4	-4.0	5.6	.5	1.3	4	.2	-3.0
Nondurable		22.19	2.6	2.9	2.2	5.0	1.2	4.7	5	4	.2	.3	.5	2.1
Non-energy		16.90	2.2	3.4	2.7	3.0	4.4	2.1	1.6	4	.4	.3	3	2.4
Foods and tobacco		9.18	2.3	4.8	2.2	1.3	7.0	4.3	3.6	3	.9	2	7	3.7
Clothing		.59	-10.5	3	.7	-1.4	-2.6	1.3	-1.5	.3	-1.2	.1	-1.8	-2.6
Chemical products Paper products		4.83 1.79	3.8	.9 2.2	3.8	7.8	-1.4 9.8	-2.2 2.2	-3.4 4.0	9 5	4	1.6	.8 3	2 4.9
Energy		5.29	3.7	1.7	.7	10.9	-8.0	13.5	-7.5	3	8	.1	3.5	1.3
Energy		0.2)	0.7	1.,	• •	10.5	0.0	10.0	, 10		.0	••	0.0	1.0
Business equipment		9.95	5.3	11.2	9.7	10.4	5.0	-1.3	5.7	.2	.8	1.2	2	3.7
Transit		2.03	6.0	20.5	16.9	10.1	11.2	-1.2	-1.7	-1.1	2.0	.6	2	3.1
Information processing		2.78	7.2	13.7	10.1	8.0	7.7	9.3	10.8	.8	.8	.5	.3	9.1
Industrial and other Defense and space equipment		5.14 1.75	3.9	6.7 3.8	6.9	11.9 5.6	1.2 -3.1	-6.9 -1.2	6.0 -2.0	.3 1	.3 1.7	1.9	6 6	1.0 2
2 stones and space equipment		1.73	2.3	5.0	2.3	5.0	3.1	1.2	2.0	1	1./	.0	.0	2
Construction supplies		4.55	1.6	8.0	-2.1	9	-8.9	-2.8	5.8	.7	1.1	.0	.0	9
Business supplies		11.02	2.9	3.4	2.4	3.3	-1.0	.9	2.1	4	.2	2	1.0	1.0
Materials		42.57	3.4	1.1	4.7	4.3	-3.1	.5	4.2	.0	.5	.7	.2	1.5
Non-energy		30.80	4.8	3.5	4.7	4.3	-4.0	.3	5.6	.1	.5	1.0	2	1.5
Durable		19.15	5.4	7.0	5.6	6.6	-3.9	1	7.4	.4	.8	1.4	2	2.5
Consumer parts		3.30	.2	1.7	-3.2	-8.3	-9.8	-1.9	7.6	.5	.7	.0	-1.6	-2.9
Equipment parts		6.64	9.4	16.0	19.4	27.9	10.3	-1.9	5.2	.0	1.6	3.1	2	7.0
Other		9.21	4.5	2.7	7	-1.9	-11.6	1.9	9.1	.6	.2	.8	.3	1.1
Nondurable Textile		11.64	3.8	-2.1 .2	2.6 -7.3	2.3	-4.2 -13.3	1.0 -9.8	2.6	3 .6	.1 7	.3 -3.3	1 -1.5	2 -11.3
Paper		2.30	3.9	2	2.5	3.8	2.8	-3.9	-4.5	7	-1.3	1.0	.5	9
Chemical		5.49	7.7	-6.5	4.7	4.7	-10.2	7.5	4.1	.1	.2	.3	1	1
Energy		11.77	2	-4.2	5.4	2.5	7	1.0	.6	2	.2	1	1.5	1.7
INDUSTRY GROUPS														
Manufacturing INDUSTRY GROUPS		81.86	3.4	4.4	3.4	4.4	-1.7	.8	4.4	.1	.7	.7	3	1.7
Manufacturing (NAICS)	31–33	77.70	3.5	4.6	3.6	4.8	-2.1	1.0	4.5	.1	.7	.8	3	1.7
Durable manufacturing		41.46	3.7	7.9	4.7	5.5	-1.5	4	7.4	.1	1.1	1.1	3	2.5
Wood products	321	1.39	1.8	10.5	-14.5	-11.8	-25.5	-5.4	7.8	2.2	1.2	6	4	-6.3
Nonmetallic mineral products	327	2.43	3.8	5.8	-1.9	-5.2	-9.3	-5.3	4.7	.6	1.4	.9	.5	9
Primary metal Fabricated metal products	331 332	3.25 5.63	7.4 1.6	-2.3 6.1	-3.5 3.8	-6.8 5.3	-28.2 -1.4	10.1 2	14.4 5.3	.7 3	7 1.3	2.0	.6 .4	4 2.1
Machinery Machinery	333	5.12	5.0	8.2	5.3	19.9	-3.1	-9.4	3.2	3	.1	2.1	-1.0	-1.7
Computer and electronic products	334	7.51	10.2	18.3	18.3	20.6	14.6	3.1	8.4	.1	1.7	2.2	.2	10.4
Electrical equip., appliances,														
and components	335	2.03	2.0	3.8	2.4	1.9	-3.3	5.4	6.9	6	.6	.9	8	1.7
Motor vehicles and parts Aerospace and miscellaneous	3361–3	5.54	-1.6	.2	-3.8	-9.8	-4.0	-7.5	13.4	5	2.6	.7	-2.6	-1.3
transportation equipment	3364–9	3.76	2.0	15.0	14.7	12.4	9.0	10.3	3.7	.0	1.7	.6	.4	8.0
Furniture and related products	337	1.57	3.5	1.7	-1.2	-3.2	-6.9	-8.6	.7	.8	1.0	.7	6	-3.8
Miscellaneous	339	3.22	2.2	8.7	4.8	5.8	7.9	1.6	8.8	.5	.3	.1	1	4.5
								_						
Nondurable manufacturing	211.2	36.24	3.2	.9	2.3	4.1	-2.9	2.6	1.4	.1	.2	.4	2	.7
Food, beverage, and tobacco products Textile and product mills	311,2 313,4	10.80 1.05	1.2	5.3 2.0	2.6 -7.7	1.1 -5.5	7.4 -14.6	3.9 -8.4	4.5 2.7	3 .5	1.0	3 -1.9	6 -1.2	4.0 -8.1
Apparel and leather	315,6	.64	-9.6	.4	-7.7	-3.3	-3.9	-8.4	-2.0	.3	-1.1	-1.9	-1.2	-8.1
Paper	322	2.61	3.0	1	1	2.1	4	-6.0	-1.5	6	6	.7	.1	-1.9
Printing and support	323	2.05	1.9	1.9	5.2	-1.5	8.4	3.1	-8.9	-1.6	9	2	.9	.1
Petroleum and coal products	324	3.83	10.0	-3.6	2.6	17.4	-13.4	8.8	-7.1	2.5	4	.8	9	-2.5
Chemical Plastics and rubber products	325 326	11.81 3.46	6.1	-2.5 3.0	3.8	5.7 1.9	-7.5 -8.9	1.3 6.7	1.7 8.6	.1	.0	.9 1.1	.4 1	3 2.8
Other manufacturing (non-NAICS)	1133,5111	4.16	2.6	.6	.2	-3.9	7.5	-1.9	2.5	6	.6	.1	3	2.4
Mining Utilities	21 2211,2	8.58 9.55	8 1.6	-5.5 2.1	8.0	.6 4.6	3.0 -3.6	-4.8 8.7	1 8	3 -1.5	.4 6	.8 -1.7	6 5.3	.5 2.3
Electric	2211,2	8.04	2.2	3.4	.0	1.7	-2.9	7.9	5	3	5	-2.4	6.3	2.7
Natural gas	2212	1.51	-1.4	-3.4	1.9	19.9	-7.3	13.3	-2.8	-7.6	7	2.6	.0	.2
-		1	1			l				I				

r Revised. p Preliminary.

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

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

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

Item			Fourth quarter to fourth quarter Annual rate						Month	nly rate		Aug. '06		
Item		2006 proportion	2004	2005	2006	2006 Q3	Q4	2007 Q1	Q2 ^r	2007 May ^r	June ^r	July ^r	Aug.p	to Aug. '07
Total industry		100.00	3.0	3.2	3.5	4.0	-1.5	1.1	3.5	1	.6	.5	.2	1.7
Energy		20.53	1.5	-1.8	4.0	5.8	-2.8	4.8	-1.4	3	1	3	2.3	1.6
Consumer products		5.29	3.7	1.7	.7	10.9	-8.0	13.5	-7.5	3	8	.1	3.5	1.3
Commercial products		2.74	4.5	.5	2.3	8.7	-2.5	4.0	3.6	6	3	-2.1	4.4	2.1
Oil and gas well drilling	213111	.72	8.3	11.8	14.7	11.8	.5	8.6	-6.3	-1.3	2.1	9	5	6
Converted fuel Primary materials		3.79 7.98	2.1 -1.3	-2.5 -4.9	2.2 6.8	6.7	-8.9 3.4	5.3 -1.0	6.2 -2.1	5 .0	.0	7 .3	2.8	1.6 1.7
Non-energy		79.47	3.3	4.6	3.3	3.5	-1.1	.1	4.8	.0	.7	.7	3	1.7
Selected high-technology industries Computers and peripheral equipment	3341	4.84 1.20	10.4 6.6	28.1 30.4	24.6 12.1	27.3 2.3	24.7 24.4	9.2 32.8	16.5 39.4	.9 4.3	2.5 1.0	3.3	.8 .6	19.5 28.0
Communications equipment	3342	1.06	6.2	12.9	14.8	6.6	9.6	27.7	8.3	4	1.5	.8	2.1	17.0
Semiconductors and related electronic components	334412–9	2.58	13.7	33.8	34.8	51.3	31.1	-6.9	9.4	3	3.9	6.3	.3	16.7
Excluding selected high-technology industries		74.63	2.8	3.1	1.9	2.0	-2.7	5	4.1	1	.6	.5	3	.6
Motor vehicles and parts	3361-3	5.54	-1.6	.2	-3.8	-9.8	-4.0	-7.5	13.4	5	2.6	.7	-2.6	-1.3
Motor vehicles	3361	2.41	-3.0	-2.5	-6.0	-16.9	-5.2	-10.6	23.1	-1.5	4.0	2.6	-3.7	.1
Motor vehicle parts	3363	2.72	-1.1	1.3	2	-3.5	-3.4	-4.0	8.8	.6	1.5	1	-2.0	-1.3
Excluding motor vehicles and parts		69.09	3.2	3.4	2.4	3.1	-2.6	.1	3.4	1	.4	.5	2	.8
Consumer goods		20.91	2.4	3.6	1.8	2.7	2.0	1.0	2.1	4	.6	.3	3	1.7
Business equipment Construction supplies		7.81 4.52	4.4 1.5	8.9 8.0	10.2 -2.2	13.0	4.0 -9.1	-3.3 -3.0	4.3 5.7	1 .7	.5 1.1	1.3	3	2.1
Business supplies		7.93	2.1	3.1	1.0	3	-1.8	.0	1.3	3	.3	.1	.0	.0
Materials		26.14	4.4	.7	2.3	2.3	-7.0	1.1	4.7	.1	.2	.7	.0	.2
Measures excluding selected high-technology industries		0.5.1.5	2.5	1.0	2.4	2.0	2.5		2.0			,		
Total industry		95.16	2.5	1.9	2.4	2.9	-2.7	.6	2.9	2	.5	.4	.2	.8
Manufacturing ¹ Durable		77.02 36.79	3.0 2.8	2.9 5.2	2.0 2.0	3.0 2.5	-3.3 -4.7	.3 -1.6	3.7 6.2	.0 .0	.6 .9	.6 .8	3 5	.6 .4
Measures excluding motor vehicles and parts														
Total industry		94.46	3.3	3.4	3.9	4.9	-1.3	1.6	3.0	1	.4	.5	.4	1.9
Manufacturing ¹ Durable		76.32 36.09	3.9 4.8	4.7 9.3	3.9 6.0	5.5 7.9	-1.5 -1.0	1.4	3.8 6.5	.1	.6 .9	.7 1.2	1 .0	1.9 3.1
Measures excluding selected high-technology industries and motor vehicles and parts														
Total industry		89.62	2.9	2.1	2.8	3.7	-2.7	1.1	2.3	1	3	4	.4	.9
Manufacturing ¹		71.48	3.4	3.1	2.5	4.0	-3.2	.9	3.0	.1	.4	.6	2	.8
Stage-of-process components of non-energy materials, measures of the input to Finished processors Primary and semifinished processors		12.85 17.95	5.2	8.3 1	9.0	11.9 .1	2.6 -8.6	-2.6 2.5	3.7 7.0	.0	.8	1.7 .5	5 .1	2.2
Timal and seminished processors		17.75	7.7	1	1.0	.1	-0.0	2.3	7.0	.2			.1	.,

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

willions of units, seasonarry adjusted aimuai rate									
	2006	2006		2007		2007			
Item	average	Q3	Q4	Q1	Q2	May	June	July	Aug.
Total	11.26	10.98	10.96	10.58	11.07	10.87	11.30	11.39	10.94
Autos	4.37	4.28	4.38	3.97	3.89	3.75	4.07	4.14	3.94
Trucks	6.89	6.69	6.57	6.61	7.18	7.12	7.24	7.24	7.00
Light	6.43	6.21	6.13	6.25	6.91	6.86	6.96	6.99	6.76
Medium and heavy	.46	.49	.45	.36	.27	.26	.27	.26	.24
Memo									
Autos and light trucks	10.80	10.49	10.51	10.22	10.80	10.60	11.03	11.13	10.70
	1								

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

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1. Refer to note on cover page.

 Table 4

 INDUSTRIAL PRODUCTION INDEXES: MARKET AND INDUSTRY GROUP SUMMARY

 2002 = 100, seasonally adjusted

002 = 100, seasonally adjusted											
Item		2006 proportion	2006 Dec.	2007 Jan.	Feb.	Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p
Total IP		100.00	112.2	111.7	112.5	112.4	113.1	113.0	113.6	114.2	114.4
MARKET GROUPS											
Final products and nonindustrial supplies		57.43	112.6	111.9	113.1	112.8	113.4	113.1	113.9	114.3	114.5
Consumer goods		29.36	107.8	107.4	109.4	108.6	109.2	108.8	109.4	109.9	110.0
Durable		7.16	106.2	103.1	104.6	105.2	107.1	106.7	108.7	109.4	108.3
Automotive products		3.33	100.6	95.2	98.7	99.7	102.3	101.1	104.1	105.5	103.3
Home electronics		.36	180.7	184.6	196.0	191.1	200.8	199.4	200.3	198.7	198.2
Appliances, furniture, carpeting		1.23	102.2	100.5	99.5	99.8	100.4	101.3	101.1	100.7	100.2
Miscellaneous goods		2.24	108.4	107.4	106.3	107.1	107.6	108.1	109.6	110.1	110.3
Nondurable		22.19	108.2	108.7	110.9	109.6	109.8	109.4	109.5	109.9	110.5
Non-energy		16.90	109.8	109.7	109.5	109.9	110.3	109.8	110.3	110.7	110.4
Foods and tobacco		9.18	111.8	112.1	111.9	112.7	113.1	112.8	113.8	113.6	112.7
Clothing		.59	78.9	80.4	79.6	78.7	79.4	79.7	78.8	78.8	77.4
Chemical products		4.83	112.9	111.8	110.9	110.5	110.9	109.9	109.4	111.2	112.1
Paper products Energy		1.79 5.29	103.3 103.7	103.3 106.1	104.7 115.8	105.5 108.9	105.6 108.7	105.1 108.3	105.9 107.4	106.2 107.5	105.9 111.3
Business equipment		9.95	132.1 146.8	128.8 144.2	129.2	130.6 144.3	130.9	131.1 142.1	132.1	133.7	133.4
Transit Information processing		2.03	146.8	144.2	144.1 146.2	144.3	143.7 148.6	142.1	145.0 151.0	145.9 151.7	145.6 152.1
Industrial and other		5.14	120.7	115.6	115.4	117.3	117.5	149.8	118.1	120.3	119.7
Defense and space equipment		1.75	112.5	113.0	113.4	109.8	111.1	111.0	112.9	113.5	112.9
Construction supplies		4.55	109.7	108.4	106.8	107.9	108.3	109.1	110.3	110.3	110.3
Business supplies		11.02	110.3	110.6	111.5	111.2	111.9	111.5	111.7	111.5	112.6
Materials		42.57	111.7	111.3	111.8	112.0	112.7	112.7	113.2	114.0	114.3
Non-energy		30.80	116.6	115.9	116.0	116.8	117.5	117.7	118.3	119.5	119.3
Durable		19.15	124.7	124.4	123.9	124.9	126.0	126.5	127.5	129.3	129.1
Consumer parts		3.30	98.5	96.8	97.1	98.3	98.6	99.1	99.8	99.8	98.1
Equipment parts		6.64	170.8	169.8	168.6	169.5	170.5	170.5	173.3	178.7	178.3
Other		9.21	107.3	107.8	107.5	108.3	109.7	110.4	110.6	111.5	111.8
Nondurable		11.64	104.2	103.2	103.9	104.5	104.7	104.4	104.5	104.8	104.7
Textile		.60 2.30	83.3 103.2	81.1 100.1	81.3	80.9 100.7	80.8	81.3 99.6	80.7 98.4	78.1 99.4	76.9 99.9
Paper Chemical		5.49	103.2	100.1	101.0 110.1	111.4	100.3 111.1	111.2	111.4	111.8	111.6
Energy		11.77	100.7	100.5	101.9	100.5	101.1	100.9	101.2	101.1	102.6
Y											
INDUSTRY GROUPS Manufacturing		81.86	114.4	113.7	113.6	114.4	114.8	114.9	115.7	116.6	116.3
Manufacturing (NAICS)	31–33	77.70	115.4	114.7	114.6	115.4	115.8	115.9	116.7	117.6	117.3
Durable manufacturing	01 00	41.46	122.7	121.2	121.3	122.3	123.2	123.4	124.8	126.2	125.7
Wood products	321	1.39	100.3	98.5	97.7	98.3	98.2	100.3	101.6	101.0	100.6
Nonmetallic mineral products	327	2.43	111.0	109.8	106.5	108.3	108.5	109.2	110.7	111.8	112.3
Primary metal	331	3.25	102.7	107.1	107.6	108.8	111.3	112.1	111.2	113.4	114.0
Fabricated metal products	332	5.63	109.8	109.3	109.8	110.6	111.1	110.8	112.2	112.5	113.0
Machinery	333	5.12	122.6	116.4	115.3	118.0	117.2	117.6	117.7	120.2	119.0
Computer and electronic products	334	7.51	181.7	181.3	181.5	182.3	184.2	184.4	187.6	191.8	192.1
Electrical equip., appliances,		2.05	107	1000	105	105.0	100.5	100 =	100.0	110	100
and components	335	2.03	107.1	106.5	107.4	107.9	109.3	108.7	109.3	110.3	109.4
Motor vehicles and parts	3361–3	5.54	102.4	96.4	98.7	99.4	100.8	100.3	102.9	103.6	100.9
Aerospace and miscellaneous	2264 0	276	128.3	120.7	121.0	120.2	131.1	121 1	122.2	124 1	124 5
transportation equipment Furniture and related products	3364–9 337	3.76 1.57	128.3	130.7 101.8	131.0 100.7	130.2 101.0	131.1	131.1 101.2	133.3 102.3	134.1 103.0	134.5 102.3
Miscellaneous	339	3.22	121.0	120.2	119.4	121.6	122.5	123.1	123.4	123.5	102.3
Nondurable manufacturing	2112	36.24	107.4	107.5	107.2	107.8	107.7	107.8	108.0	108.4	108.2
Food, beverage, and tobacco products Textile and product mills	311,2 313,4	10.80	112.2 88.6	112.3 87.4	112.2 87.3	113.0 86.5	113.7 87.3	113.3 87.8	114.4 87.9	114.1 86.3	113.3 85.3
Apparel and leather	315,4	.64	79.7	81.1	80.3	79.5	80.0	80.3	79.4	79.1	77.7
Paper	313,0	2.61	99.5	96.4	97.5	97.2	97.3	96.7	96.1	96.8	96.9
Printing and support	323	2.05	106.3	105.6	106.0	105.6	104.7	103.1	102.1	101.9	102.8
Petroleum and coal products	324	3.83	108.9	113.0	110.0	111.7	107.9	110.6	110.1	111.0	110.0
Chemical	325	11.81	110.5	109.9	110.1	110.4	110.5	110.6	110.7	111.7	112.1
Plastics and rubber products	326	3.46	105.6	106.3	105.5	107.1	108.0	108.5	109.0	110.2	110.2
Other manufacturing (non-NAICS)	1133,5111	4.16	98.7	98.4	98.6	99.1	99.5	99.0	99.6	99.7	99.3
	21	8.58	102.5	100.2	100.0	100.2	100.2	99.9	100.3	101.1	100.4
Mining							100.2	//./	100.0	101.1	
Mining Utilities	2211,2	9.55	102.5	105.1	114.1	106.6	109.7	108.0	107.4	105.7	111.3
						106.6 109.2	109.7 110.7	108.0 110.4	107.4 109.9	105.7 107.2	111.3 114.0

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

 Table 5

 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

 2002 = 100, seasonally adjusted

002 = 100, seasonally adjusted		2005	2005	2005							
Item		2006 proportion	2006 Dec.	2007 Jan.	Feb.	Mar.	Apr.	May ^r	June ^r	July ^r	Aug. ^p
Item		proportion	DCC.	Juii.	1 00.	iviai.	7 tp1.	iviay	June	July	riug.
Total industry		100.00	112.2	111.7	112.5	112.4	113.1	113.0	113.6	114.2	114.4
Energy		20.53	103.3	104.6	108.4	105.3	106.0	105.6	105.6	105.2	107.6
Consumer products		5.29	103.7	106.1	115.8	108.9	108.7	108.3	107.4	107.5	111.3
Commercial products		2.74	110.0	113.7	117.6	113.7	116.6	115.9	115.6	113.2	118.1
Oil and gas well drilling	213111	.72	170.3	172.6	173.7	173.0	170.6	168.4	171.9	170.3	169.5
Converted fuel		3.79	101.3	102.1	108.0	103.1	106.3	105.8	105.8	105.0	108.0
Primary materials		7.98	99.5	99.5	98.9	99.1	98.6	98.5	98.9	99.1	99.8
Non-energy		79.47	114.6	113.6	113.6	114.3	114.9	114.9	115.7	116.5	116.2
Selected high-technology industries		4.84	218.6	219.9	220.4	223.2	226.4	228.5	234.3	242.1	244.0
Computers and peripheral equipment	3341	1.20	166.6	171.3	176.6	179.9	185.2	193.2	195.0	195.6	196.8
Communications equipment	3342	1.06	157.8	161.1	165.1	168.8	168.0	167.3	169.7	171.0	174.6
Semiconductors and related										-1-10	
electronic components	334412-9	2.58	281.0	278.0	272.2	273.7	277.8	277.0	287.7	305.8	306.8
Excluding selected high-technology											
industries		74.63	109.4	108.2	108.3	108.9	109.4	109.3	109.9	110.5	110.2
Motor vehicles and parts	3361-3	5.54	102.4	96.4	98.7	99.4	100.8	100.3	102.9	103.6	100.9
Motor vehicles	3361	2.41	102.2	92.4	97.5	97.6	100.6	99.1	103.1	105.8	101.8
Motor vehicle parts	3363	2.72	100.4	97.7	98.1	99.1	99.5	100.1	101.6	101.5	99.5
Excluding motor vehicles and parts		69.09	110.0	109.3	109.1	109.7	110.2	110.1	110.6	111.1	111.0
Consumer goods		20.91	109.4	109.1	108.8	109.1	109.6	109.2	109.8	110.2	109.9
Business equipment		7.81	125.6	122.2	122.0	123.5	123.8	123.7	124.3	125.9	125.5
Construction supplies		4.52	109.2	107.9	106.2	107.3	107.7	108.5	109.7	109.7	109.7
Business supplies		7.93	106.1	105.4	105.4	106.2	106.1	105.8	106.1	106.2	106.2
Materials		26.14	107.6	107.3	107.5	108.2	108.8	108.9	109.1	109.8	109.8
Measures excluding selected high-technology											
industries		05.16	100.0	107.4	100.2	100 1	100 6	100 5	100.0	100.4	100-6
Total industry		95.16	108.0	107.4	108.3	108.1	108.6	108.5	109.0	109.4	109.6
Manufacturing ¹		77.02	109.3	108.5	108.4	109.2	109.5	109.5	110.1	110.8	110.4
Durable Magazines evoluting motor vehicles and norts		36.79	112.6	110.9	111.0	111.8	112.5	112.6	113.6	114.5	113.9
Measures excluding motor vehicles and parts Total industry		94.46	112.9	112.7	113.4	113.3	113.9	113.8	114.3	114.9	115.3
		76.32	112.9	112.7	113.4	115.7	115.9	115.8	114.3	114.9	
Manufacturing ¹ Durable		36.09	126.5	115.1	125.5	115.7	127.3	116.2	116.8	117.7	117.6 130.3
Measures excluding selected high-technology											
industries and motor vehicles and parts											
Total industry		89.62	108.4	108.1	108.9	108.6	109.1	109.0	109.3	109.7	110.1
Manufacturing ¹		71.48	109.9	109.5	109.2	110.0	110.2	110.3	110.7	111.4	111.2
Stage-of-process components of non-energy											
materials, measures of the input to											
Finished processors		12.85	130.1	128.3	128.1	128.8	129.2	129.3	130.3	132.5	131.8
Primary and semifinished processors		17.95	106.9	107.0	107.2	108.1	108.9	109.2	109.6	110.2	110.2
, J J F											

Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2005	54.8	50.5	52.1	52.5	56.4	56.1	56.8	51.2	61.1	58.4	58.4	52.1
2006	63.4	48.2	58.7	60.4	50.2	61.1	59.4	51.2	46.5	41.6	43.2	59.4
2007	46.9	53.6	57.8	59.1	51.2	58.7	56.4					
Three months earlier												
2005	58.7	61.4	54.8	53.1	57.8	60.1	57.8	57.8	56.8	56.1	56.4	57.8
2006	61.4	56.8	63.0	59.7	56.1	61.1	58.1	57.4	52.5	43.2	36.6	45.5
2007	45.2	53.5	50.2	61.1	60.1	62.4	62.4					
Six months earlier												
2005	58.7	57.4	59.7	58.1	62.7	59.1	61.1	55.8	62.4	63.0	59.4	56.4
2006	59.1	57.4	64.0	63.0	62.0	64.0	61.4	64.4	59.4	47.5	44.2	46.9
2007	36.3	42.2	42.9	54.1	57.1	56.8	63.4					

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

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1. Refer to note on cover page.

Table 7 CAPACITY UTILIZATION

Percent of	capacity,	seasonally adjusted	

referred of capacity, seasonary adjusted			1972-	1988-	1994-	2001-								
Item		2006	2006	89	95	02	2006		2007		2007			
item		proportion	ave.	high	high	low	O3	04	O1	O2 ^r	May	June ^r	July	Aug.p
-		proportion	avc.	mgn	mgn	10 W	Q3	Q+	Q1	Q2	iviay	June	July	riug.
Total industry		100.00	81.0	85.0	85.1	73.6	82.3	81.5	81.3	81.7	81.5	81.8	82.2	82.2
Total madely		100.00	01.0	00.0	00.1	75.0	02.5	01.0	01.0	0117	01.0	01.0	02.2	02.2
Manufacturing ¹		82.52	79.8	85.4	84.6	71.6	80.9	80.1	79.8	80.3	80.1	80.5	81.0	80.7
Manufacturing (NAICS)	31–33	78.53	79.6	85.3	84.7	71.0	80.8	79.9	79.6	80.1	79.9	80.3	80.8	80.4
Durable manufacturing		42.55	78.0	84.5	84.2	68.1	79.5	78.5	77.7	78.4	78.1	78.8	79.5	79.0
Wood products	321	1.41	80.2	88.2	87.7	71.0	80.4	74.3	73.1	74.5	74.8	75.7	75.3	75.0
Nonmetallic mineral products	327	2.34	79.5	85.1	84.1	75.8	82.3	79.6	78.0	78.6	78.4	79.4	80.1	80.4
Primary metal	331	2.86	80.8	93.8	95.6	68.5	88.8	82.2	84.4	87.2	87.6	86.8	88.5	88.8
Fabricated metal products	332	5.63	77.3	81.6	85.1	69.2	80.7	80.2	79.9	80.6	80.2	81.1	81.3	81.5
Machinery	333	5.14	78.7	85.2	87.6	63.7	82.1	80.9	78.4	78.7	78.7	78.7	80.2	79.2
Computer and electronic products	334	8.43	78.3	81.4	84.3	58.6	77.2	77.3	75.3	74.3	73.9	74.4	75.2	74.5
Electrical equip., appliances,														
and components	335	1.90	83.2	89.1	93.1	71.8	85.4	84.3	85.0	86.3	85.9	86.4	87.1	86.3
Motor vehicles and parts	3361-3	5.92	77.5	89.7	89.0	68.9	75.6	74.7	73.6	76.7	75.9	78.2	79.0	77.3
Aerospace and miscellaneous														
transportation equipment	3364-9	3.96	72.5	87.1	68.5	62.8	77.6	78.8	80.3	80.6	80.1	81.3	81.7	81.8
Furniture and related products	337	1.61	78.5	82.2	82.9	67.8	79.5	78.3	76.6	76.7	76.7	77.4	78.0	77.5
Miscellaneous	339	3.36	76.7	82.5	81.3	70.6	78.1	78.8	78.3	79.1	79.1	79.0	78.8	78.4
Nondurable manufacturing		35.98	81.7	86.8	85.4	74.9	82.4	81.6	82.0	82.1	82.0	82.1	82.4	82.2
Food, beverage, and tobacco products	311,2	10.67	81.6	85.9	84.1	75.6	81.1	82.2	82.6	83.1	82.8	83.5	83.1	82.5
Textile and product mills	313,4	1.09	82.3	91.2	91.4	68.8	78.3	75.8	74.6	75.6	75.7	76.0	74.8	74.1
Apparel and leather	315,6	.70	78.7	84.3	87.1	59.5	74.1	74.1	74.9	75.2	75.5	74.9	74.9	73.8
Paper	322	2.46	87.8	92.5	92.0	78.9	85.4	85.5	84.3	84.1	84.1	83.6	84.3	84.4
Printing and support	323	2.08	83.7	91.8	86.4	72.7	79.3	80.5	80.6	78.4	78.2	77.3	77.1	77.7
Petroleum and coal products	324	3.77	86.2	89.0	90.6	83.7	93.1	90.1	92.3	90.7	91.5	91.1	91.8	91.0
Chemical	325	12.01	78.3	85.1	81.4	70.2	79.5	77.7	77.8	78.0	78.0	78.0	78.6	78.8
Plastics and rubber products	326	3.20	83.9	89.8	91.9	75.1	87.5	84.8	85.4	86.7	86.7	86.9	87.7	87.4
Other manufacturing (non-NAICS)	1133,5111	3.99	84.7	91.0	83.3	81.3	83.2	84.6	84.0	84.4	84.0	84.5	84.5	84.2
Mining	21	8.25	87.4	86.1	88.9	84.8	90.9	91.3	90.0	89.9	89.7	90.1	90.8	90.2
Utilities	2211,2	9.23	86.7	92.7	93.7	83.8	86.4	85.0	86.4	85.9	85.6	85.0	83.6	87.9
Selected high-technology industries		5.48	78.0	80.8	87.4	56.2	78.7	79.7	77.9	77.4	77.0	77.8	79.2	78.6
Computers and peripheral equipment	3341	1.39	78.1	79.9	84.2	62.8	74.5	78.3	82.3	85.2	86.1	85.3	83.9	82.7
Communications equipment	3342	1.29	75.4	80.8	86.6	40.2	71.8	73.3	77.6	78.6	78.1	79.0	79.5	80.9
Semiconductors and related	3342	1.27	75.4	00.0	00.0	40.2	71.0	75.5	77.0	70.0	70.1	17.0	17.5	00.7
electronic components	334412-9	2.80	80.6	82.9	93.5	58.1	83.5	82.7	75.6	72.9	71.9	73.3	76.6	75.6
electronic components	334412-7	2.00	80.0	02.7	73.3	30.1	03.3	02.7	75.0	12.7	/1./	13.3	70.0	75.0
Measures excluding selected														
high-technology industries														
Total industry		94.52	81.2	85.4	85.0	74.7	82.6	81.8	81.7	82.1	81.9	82.3	82.5	82.6
Manufacturing ¹		77.04	79.9	85.9	84.5	72.8	81.3	80.3	80.2	80.7	80.6	81.0	81.4	81.0
C					-								•	
Emiliar of phologra analysis														
STAGE-OF-PROCESS GROUPS Crude		12.41	86.5	88.1	89.5	82.0	89.4	89.1	907	89.2	89.2	89.3	89.9	89.6
		48.00	86.5	86.5	89.5 88.2		89.4	89.1	88.7 82.2	89.2	89.2	89.3 82.4	89.9	
Primary and semifinished Finished		39.59	77.8	86.5	88.2	74.6 70.0	77.9	78.2	78.0	78.6	78.4	78.8	79.2	83.1 78.8
1 molicu		39.39	//.0	04.0	00.5	70.0	11.9	10.2	70.0	70.0	/ 0.4	10.0	17.4	10.0
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1. Refer to note on cover page.

Table 8
INDUSTRIAL CAPACITY
Percent change

	Average annual rate				Fourth	quarter t	to fourth	quarter		Annua	ıl rate		Monthly rate
Item	1972-	1980-	1989-	1995-					2006	2007			2007
	79	88	94	2007	2004	2005	2006	2007	Q4	Q1	Q2	Q3	Aug.
Total industry	3.1	2.0	2.3	3.3	.1	1.1	2.4	1.8	2.3	2.1	1.8	1.7	.1
Manufacturing ¹	3.3	2.3	2.6	3.7	.0	1.7	2.7	2.1	2.4	2.3	2.1	2.1	.2
Mining Utilities	.8 4.3	.1 2.1	9 1.6	5 2.2	3 2.6	-1.7 .0	.6 2.1	.4 1.5	1.1 2.5	.9 2.1	.3 1.5	.2 1.2	.0 .1
Selected high-technology industries Manufacturing ¹ ex. selected	20.9	19.1	17.3	27.2	4.3	18.3	19.6	19.6	18.5	19.5	19.5	19.6	1.5
high-technology industries	2.6	1.3	1.6	1.6	2	.6	1.4	1.0	1.3	1.1	.9	.9	.1
STAGE-OF-PROCESS GROUPS Crude Primary and semifinished Finished	1.7 3.0 3.9	.3 1.4 3.5	4 2.6 2.7	1 3.9 3.4	1 .4 .5	-1.1 1.4 2.0	.3 3.0 2.3	.5 2.3 1.9	.5 3.0 2.1	.5 2.8 2.0	.3 2.2 1.9	.4 2.1 1.9	.0 .2 .2

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

allions of 2000 dollars at annual rate, seaso	nany aujusteu										
			2006			2007		2007			
Item	2000	2006	Q2	Q3	Q4	Q1	Q2 ^r	May ^r	June ^r	July ^r	Aug. ^p
Final products and nonindustrial											
supplies	2,812.5	3,043.0	3,045.3	3,075.0	3,060.2	3,072.1	3,090.4	3,081.8	3,103.9	3,117.8	3,120.0
Final products	2,112.0	2,302.3	2,302.5	2,327.4	2,321.5	2,332.3	2,344.7	2,337.0	2,356.3	2,373.2	2,368.9
Consumer goods	1,480.7	1,606.0	1,607.9	1,619.6	1,610.7	1,627.7	1,637.6	1,632.1	1,644.6	1,654.4	1,653.6
Durable	471.7	504.6	511.4	503.1	498.2	496.8	514.1	509.3	520.8	525.3	518.0
Automotive products	278.9	296.1	301.5	293.1	291.1	290.4	304.8	300.2	310.2	314.7	307.5
Other durable goods	192.9	208.2	209.6	209.6	206.7	206.0	209.3	208.8	210.6	210.6	210.4
Nondurable	1,009.0	1,097.5	1,094.0	1,111.5	1,107.0	1,124.1	1,119.2	1,118.0	1,120.2	1,125.7	1,131.1
Equipment, total	631.3	706.0	704.0	718.4	722.2	714.5	716.8	714.6	721.7	729.1	725.3
Business and defense	614.9	689.1	686.5	701.3	706.0	697.3	699.7	697.7	704.2	712.3	708.5
Business	556.8	619.8	617.0	631.4	637.4	628.3	631.0	629.4	634.5	642.3	639.1
Defense and space	58.2	71.4	71.5	72.2	71.4	71.5	71.3	70.9	72.2	72.6	72.1
Nonindustrial supplies	700.5	741.1	743.1	748.1	739.6	740.8	746.5	745.6	748.6	746.2	752.1
Construction supplies	197.2	207.8	209.6	209.2	204.0	202.8	205.9	205.8	207.7	207.9	207.8
Business supplies	503.3	533.2	533.4	538.9	535.7	538.2	540.7	539.8	540.9	538.2	544.4
Commercial energy products	136.0	154.7	154.4	157.7	156.3	157.5	158.1	158.0	157.7	154.6	160.2

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

Percent change, seasonally adjusted													
		Fou	rth quart	er to									
		fo	fourth quarter			Annua	l rate			Month	nly rate		Aug. '06
Item	2006		-		2006		2007		2007		-		to
	gross value ¹	2004	2005	2006	Q3	Q4	Q1	$Q2^{r}$	May ^r	June ^r	July ^r	Aug.p	Aug. '07
Finished	1980.5	2.4	5.6	3.4	2.3	2.3	-1.2	4.8	4	1.0	.9	8	2.0
Semifinished	1754.9	2.4	6.2	2.5	5.7	-2.7	.2	3.8	.2	.7	.2	.6	1.1
Primary	992.6	4.5	8	.1	5.0	-13.3	7.2	.9	.2	2	.7	.6	4
Crude	420.0	5.2	-8.3	7.1	2.5	-3.4	.9	4.3	.0	.4	.6	1	1.6

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1. Refer to note on cover page.

^{1.} Billions of 2000 dollars.

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

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ¹																	
985	3	.4	.2	2	.1	.1	6	.5	.4	4	.3	1.0	1.2	.7	5	2.7	1.4
.986	.5	8	6	.1	.2	3	.6	2	.2	.4	.5	.9	2.4	-2.4	1.7	4.6	1.1
.987	3	1.3	.2	.6	.7	.5	.6	.7	.3	1.5	.5	.5	5.4	7.2	7.3	9.9	5.1
1988 1989	.0	.4 5	.3	.5	1 7	.2	.2 9	.5 1.0	3 3	.6 1	.2	.4 .7	3.4 1.5	3.4 -1.8	2.1 -2.4	3.3	5.1
																	.9
990 991	6 5	.9 7	.5 5	1	1.0	1.0	2 .0	.3	.2	7 2	-1.2 1	7 3	3.0 -7.6	2.8	1.4 5.7	-5.9 1.0	1.0 -1.5
992	5	.7	.8	.7	.4	.1	.8	5	.2	.7	.4	.1	3	7.1	3.1	4.0	2.9
.993	.5	.3	.0	.3	4	.3	.4	.0	.5	.8	.4	.6	3.7	1.1	2.4	6.4	3.4
994	.5	.0	1.0	.5	.5	.7	.2	.5	.3	.9	.7	1.1	5.6	7.3	5.1	8.3	5.5
995	.4	.1	.1	1	.2	.3	4	1.3	.4	2	.3	.3	6.0	1.0	3.8	3.5	5.0
996	8	1.5	2	.9	.7	.9	2	.7	.5	.0	.9	.7	2.0	8.4	5.2	6.1	4.3
997	.2	1.2	.8	1	.6	.4	.5	1.3	.9	.8	1.0	.4	8.3	5.5	9.0	11.1	7.2
998 999	.5 .6	.1 .5	.0 .2	.5 .2	.7 .8	5 1	3 .7	2.2	2 4	.7 1.3	1 .6	.4 .9	4.7 4.9	3.3 4.0	3.8 4.4	5.3 8.2	6.1 4.7
000	.1	.4	.4	.8	.3	.1	3	3	.5	5	.0	4	5.3	5.9	5	-1.6	4.5
001	7	6	4	3	7	6	4	4	4	6	5	.0	-5.7	-5.4	-5.6	-5.1	-3.5
002	.5	.1	.8	.4	.4	.9	3	.2	.1	3	.4	4	2.7	6.4	2.3	4	.0
003	.6	.3	2	8	1	.2	.4	1	.5	1	.8	.0	2.3	-3.2	2.5	3.3	1.1
004	.2	.7	6	.6	.6	7	.6	.2	2	.7	.2	.6	3.3	2.5	1.8	4.3	2.5
005	.3	.6	1	.1	.4	.6	.0	.3	-1.6	1.2	1.1	.8	4.6	2.8	.8	4.7	3.2
006	.0	.3	.5	.9	1	.9	.4	.2	3	2	4	.6	5.0	6.5	4.0	-1.5	3.9
007	5	.8	1	.6	1	.6	.5	.2					1.1	3.5			
? (2002=100)																	
005	105.6	106.2	106.1	106.2	106.6	107.3	107.3	107.6	105.8	107.1	108.2	109.1	106.0	106.7	106.9	108.1	106.9
006 007	109.1 111.7	109.4 112.5	110.0 112.4	110.9 113.1	110.9 113.0	111.9 113.6	112.3 114.2	112.5 114.4	112.2	112.0	111.5	112.2	109.5 112.2	111.2 113.2	112.3	111.9	111.1
Capacity Dercent of 002 output) 005 006	132.7 134.6 137.8	132.7 134.8 138.0	132.8 135.1 138.2	132.9 135.4 138.4	133.0 135.7 138.6	133.1 136.0 138.8	133.2 136.2 139.0	133.4 136.5 139.2	133.6 136.8	133.8 137.0	134.1 137.3	134.3 137.5	132.7 134.9 138.0	133.0 135.7 138.6	133.4 136.5	134.1 137.3	133.3 136.1
Itilization	137.6	136.0	130.2	130.4	130.0	130.0	137.0	137.2					130.0	130.0			
percent) .985	80.0	80.1	80.0	79.7	79.6	79.4	78.7	78.9	79.1	78.6	78.8	79.5	80.0	79.6	78.9	79.0	79.4
986	79.8	79.0	78.4	78.4	78.4	78.1	78.5	78.3	78.3	78.6	78.8	79.4	79.1	78.3	78.4	78.9	78.7
987	79.0	79.9	79.9	80.2	80.5	80.8	81.1	81.6	81.6	82.7	83.0	83.3	79.6	80.5	81.4	83.0	81.1
988	83.2	83.5	83.6	84.0	83.9	84.0	84.1	84.5	84.2	84.6	84.7	84.9	83.4	84.0	84.2	84.7	84.1
989	85.0	84.5	84.6	84.4	83.7	83.6	82.6	83.3	82.8	82.6	82.7	83.1	84.7	83.9	82.9	82.8	83.6
990	82.4	83.0	83.2	82.9	82.9	83.0	82.7	82.8	82.8	82.1	80.9	80.2	82.9	82.9	82.7	81.1	82.4
991	79.7	79.0	78.5	78.6	79.3	79.9	79.8	79.8	80.4	80.1	79.9	79.5	79.1	79.3	80.0	79.9	79.6
992	79.0	79.4	79.9	80.3	80.4	80.3	80.8	80.3	80.3	80.8	80.9	80.8	79.4	80.3	80.5	80.8	80.3
993 994	81.1 82.6	81.3 82.4	81.1 83.1	81.3 83.3	80.9 83.5	81.0 83.8	81.2 83.7	81.1 83.8	81.4 83.8	81.8 84.2	82.0 84.4	82.3 85.1	81.2 82.7	81.1 83.5	81.2 83.8	82.1 84.6	81.4 83.6
995				84.1			83.2					83.3					84.0
995 996	85.1 82.3	84.8 83.2	84.6 82.6	84.1	84.0 83.2	83.9 83.6	83.2	84.0 83.2	84.0 83.3	83.5 83.0	83.4 83.3	83.5 83.5	84.8 82.7	84.0 83.3	83.7 83.2	83.4 83.3	84.0 83.1
997	83.3	83.8	84.1	83.6	83.6	83.5	83.5	84.0	84.3	84.4	84.7	84.5	83.7	83.6	83.9	84.5	83.9
998	84.3	83.9	83.3	83.2	83.2	82.3	81.6	82.9	82.3	82.5	82.0	81.9	83.8	82.9	82.3	82.2	82.8
999	82.1	82.1	81.9	81.8	82.1	81.6	81.8	81.9	81.3	82.0	82.2	82.6	82.0	81.8	81.7	82.3	81.9
000	82.3	82.3	82.3	82.6	82.5	82.3	81.8	81.3	81.4	80.8	80.5	79.9	82.3	82.5	81.5	80.4	81.7
001	79.2	78.5	78.0	77.5	76.8	76.2	75.7	75.3	74.8	74.2	73.7	73.6	78.5	76.9	75.3	73.8	76.1
002	73.8	73.8	74.3	74.5	74.7	75.4	75.1	75.2	75.3	75.1	75.5	75.2	74.0	74.9	75.2	75.3	74.8
003 004	75.7 77.2	76.0 77.8	75.9 77.3	75.4 77.8	75.4 78.2	75.7 77.7	76.0 78.1	76.0 78.3	76.4 78.2	76.4 78.7	77.1 78.9	77.1 79.4	75.9 77.5	75.5 77.9	76.1 78.2	76.8 79.0	76.1 78.1
						11.1	70.1								10.2	17.0	
2005	79.6	80.0	79.9	79.9	80.2	80.6	80.5	80.7	79.2	80.0	80.7	81.3	79.8	80.2	80.1	80.7	80.2
	81.1	81.1	81.4	81.9	81.7	82.3	82.4	82.4	82.0	81.7	81.3	81.6	81.2	82.0	82.3	81.5	81.7
2006 2007	81.1	81.6	81.4	81.7	81.5	81.8	82.2	82.2					81.3	81.7			

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

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

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ²																	
.985	4	3	.8	3	.1	.2	6	.6	.1	2	.7	.4	.3	1.1	.3	2.5	1.9
1986	1.1	7	3	.4	.2	3	.5	.3	.2	.4	.5	.9	4.6	.0	2.5	5.0	2.3
1987	3	1.4	.1	.5	.8	.4	.7	.5	.6	1.6	.6	.6	6.0	7.0	7.2	11.4	5.7
1988 1989	2 .7	-1.0	.3 1	.8	1 8	.1	.1 -1.1	1.0	.4 3	.6 2	.3	.4	2.4	4.3 -3.2	1.4 -2.9	5.0	5.3
. 767	.,	-1.0	1	.1	0	.1	-1.1	1.0	5	2	.2	.2	1.7	-3.2	-2.7	.0	.0
1990	2	1.4	.4	2	.1	.2	2	.3	.0	8	-1.1	7	4.5	2.6	.8	-6.5	.8
1991	8	7	6	.3	.7	1.1	.2	.3	1.1	2	2	1	-9.0	2.3	7.4	1.8	-1.9
1992	5	.8	.9	.5	.6	.3	.8	4	.1	.6	.4	1	.7	8.1	4.2	2.8	3.8
1993 1994	1.1	.1 .1	2 1.3	.6	1 .7	1	.3	1 .7	.6	.8 1.0	.4	.6 1.2	4.6 5.5	1.6 9.2	1.7	7.2	3.7
1994		.1	1.5	.0	./	.3	.5	./	.4	1.0	.0	1.2	3.3	9.2	6.0	10.1	6.1
1995	.4	.0	.2	2	.0	.4	6	1.2	.9	1	.1	.3	6.4	.4	3.1	4.4	5.5
996	9	1.5	3	1.1	.7	1.1	.3	.6	.7	.0	.9	.9	1.1	9.6	7.6	6.5	4.6
1997	.1	1.4	1.1	3	.8	.6	.4	1.5	.9	.8	1.2	.5	9.8	6.6	10.0	12.1	8.5
1998	.8	.0	2	.6	.5	6	4	2.6	3	.9	.2	.5	6.3	2.8	4.1	7.5	6.9
1999	.4	.8	1	.3	1.0	3	.5	.7	3	1.6	.8	.8	5.4	4.5	4.1	9.9	5.4
2000	.2	.3	.7	.7	.0	.2	1	6	.5	4	4	7	5.8	5.8	7	-3.2	4.8
2001	6	6	4	3	7	6	3	7	3	7	3	.2	-6.6	-5.7	-6.2	-5.0	-4.2
2002	.4	.1	.8	.1	.6	1.1	4	.4	.1	5	.4	4	3.1	5.8	3.1	8	.0
2003	.5	.0	.2	9	1	.6	.1	2	.7	1	1.0	1	1.7	-2.3	2.2	3.7	1.1
2004	.0	.7	1	.6	.6	7	.8	.6	3	.7	.0	.6	2.9	3.7	3.5	3.7	2.9
2005	.5	.6	2	.2	.6	.4	.1	.4	8	1.5	.9	.4	5.1	3.1	1.9	7.5	3.9
2006	.8	2	.4	1.0	2	.9	.4	.4	.0	8	2	1.1	5.5	5.5	4.4	-1.7	4.6
2007	6	1	.7	.4	.1	.7	.7	3					.8	4.4			
IP (2002=100)	1064	107.0	1067	1060	107.6	100.0	100.1	100.4	107.5	100.2	110.1	110.6	1067	107.5	100.0	110.0	100.0
2005 2006	106.4 111.5	107.0	106.7	106.9	107.6	108.0	108.1	108.4	107.5	109.2	110.1	110.6	106.7 111.5	107.5	108.0	110.0 113.7	108.0
2006 2007	111.5	111.2 113.6	111.7 114.4	112.8 114.8	112.6 114.9	113.5 115.7	113.9 116.6	114.3 116.3	114.3	113.4	113.2	114.4	111.5	113.0 115.2	114.2	113./	113.0
Capacity percent of 2002 output)																	
	136.0 138.9	136.2 139.2	136.3 139.5	136.5 139.9	136.6 140.2	136.9 140.5	137.1 140.8	137.3 141.1	137.6 141.3	137.9 141.6	138.2 141.9	138.6 142.2	136.2 139.2	136.6 140.2	137.4 141.1	138.2 141.9	137.1 140.6
2006																	L.
2006 2007 Utilization	138.9	139.2	139.5	139.9	140.2	140.5	140.8	141.1					139.2	140.2			L.
2006 2007 Utilization (percent)	138.9 142.5	139.2 142.7	139.5 143.0	139.9 143.2	140.2 143.5	140.5 143.7	140.8 143.9	141.1 144.2	141.3	141.6	141.9	142.2	139.2 142.7	140.2 143.5	141.1	141.9	140.6
2006 2007 Utilization (percent) 1985	138.9 142.5	139.2 142.7	139.5 143.0 79.0	139.9 143.2 78.5	140.2 143.5	140.5 143.7	140.8 143.9	141.1 144.2 78.0	141.3 77.9	141.6 77.6	141.9 77.9	142.2 78.2	139.2 142.7 78.9	140.2 143.5	77.9	141.9 77.9	140.6 78.3
2006 2007 Utilization (<i>percent</i>) 1985 1986	138.9 142.5	139.2 142.7	139.5 143.0	139.9 143.2	140.2 143.5	140.5 143.7	140.8 143.9	141.1 144.2	141.3	141.6	141.9	142.2	139.2 142.7	140.2 143.5	141.1	141.9	140.6 78.3
2006 2007 Utilization (<i>percent</i>) 1985 1986	138.9 142.5 79.1 78.9	139.2 142.7 78.6 78.3	139.5 143.0 79.0 78.0	139.9 143.2 78.5 78.2	140.2 143.5 78.4 78.3	140.5 143.7 78.3 77.9	140.8 143.9 77.7 78.2	141.1 144.2 78.0 78.3	77.9 78.4	77.6 78.5	77.9 78.8	78.2 79.3	139.2 142.7 78.9 78.4	140.2 143.5 78.4 78.1	77.9 78.3	77.9 78.9	78.3 78.4 80.9
2006 2007 Utilization (percent) 1985 1986 1987	138.9 142.5 79.1 78.9 78.9	78.6 78.3 79.9	139.5 143.0 79.0 78.0 79.7	78.5 78.2 79.9	140.2 143.5 78.4 78.3 80.4	78.3 77.9 80.5	77.7 78.2 80.9	78.0 78.3 81.1	77.9 78.4 81.4	77.6 78.5 82.5	77.9 78.8 82.9	78.2 79.3 83.2	78.9 78.4 79.5	140.2 143.5 78.4 78.1 80.3	77.9 78.3 81.1	77.9 78.9 82.9	78.3 78.4 80.9
2006 2007 Utilization (percent) 1985 1986 1987 1988	79.1 78.9 78.9 78.9 83.0 85.4	78.6 78.3 79.9 83.0 84.4	79.0 78.0 79.7 83.2 84.2	78.5 78.2 79.9 83.9 84.1	78.4 78.3 80.4 83.7 83.2	78.3 77.9 80.5 83.8 83.2	77.7 78.2 80.9 83.8 82.1	78.0 78.3 81.1 83.9 82.6	77.9 78.4 81.4 84.1 82.2	77.6 78.5 82.5 84.5 81.9	77.9 78.8 82.9 84.7 81.9	78.2 79.3 83.2 84.9 81.8	78.9 78.4 79.5 83.1 84.7	78.4 78.1 80.3 83.8 83.5	77.9 78.3 81.1 83.9 82.3	77.9 78.9 82.9 84.7 81.9	78.3 78.4 80.9 83.9 83.1
2006 2007 Utilization (percent) 1985 1986 1987 1988 1989	79.1 78.9 78.9 78.9 83.0 85.4 81.5	78.6 78.3 79.9 83.0 84.4 82.5	79.0 78.0 79.7 83.2 84.2	78.5 78.2 79.9 83.9 84.1 82.2	78.4 78.3 80.4 83.7 83.2	78.3 77.9 80.5 83.8 83.2	77.7 78.2 80.9 83.8 82.1 81.9	78.0 78.3 81.1 83.9 82.6 81.9	77.9 78.4 81.4 84.1 82.2 81.8	77.6 78.5 82.5 84.5 81.9	77.9 78.8 82.9 84.7 81.9	78.2 79.3 83.2 84.9 81.8 79.2	78.9 78.4 79.5 83.1 84.7	78.4 78.1 80.3 83.8 83.5	77.9 78.3 81.1 83.9 82.3 81.8	77.9 78.9 82.9 84.7 81.9	78.3 78.4 80.9 83.9 83.1 81.6
2006 2007 Utilization (percent) 1985 1986 1987 1988 1989	79.1 78.9 78.9 78.9 83.0 85.4 81.5 78.4	78.6 78.6 78.3 79.9 83.0 84.4 82.5 77.7	79.0 78.0 79.7 83.2 84.2 82.6 77.1	78.5 78.2 79.9 83.9 84.1 82.2	78.4 78.3 80.4 83.7 83.2 82.2	78.3 77.9 80.5 83.8 83.2 82.2 78.4	77.7 78.2 80.9 83.8 82.1 81.9 78.5	78.0 78.3 81.1 83.9 82.6 81.9 78.6	77.9 78.4 81.4 84.1 82.2 81.8 79.3	77.6 78.5 82.5 84.5 81.9 81.0 79.0	77.9 78.8 82.9 84.7 81.9 79.9 78.7	78.2 79.3 83.2 84.9 81.8 79.2 78.5	78.9 78.4 79.5 83.1 84.7 82.2	78.4 78.1 80.3 83.8 83.5 82.2	77.9 78.3 81.1 83.9 82.3 81.8 78.8	77.9 78.9 82.9 84.7 81.9 80.0 78.8	78.3 78.4 80.9 83.9 83.1 81.6 78.3
2006 2007 Utilization (percent) 1985 1986 1987 1988 1989 1990	79.1 78.9 78.9 78.9 83.0 85.4 81.5	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5	79.0 78.0 79.7 83.2 84.2	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3	78.4 78.3 80.4 83.7 83.2	78.3 77.9 80.5 83.8 83.2	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2	78.0 78.3 81.1 83.9 82.6 81.9	77.9 78.4 81.4 84.1 82.2 81.8	77.6 78.5 82.5 84.5 81.9	77.9 78.8 82.9 84.7 81.9	78.2 79.3 83.2 84.9 81.8 79.2	78.9 78.4 79.5 83.1 84.7	78.4 78.1 80.3 83.8 83.5	77.9 78.3 81.1 83.9 82.3 81.8	77.9 78.9 82.9 84.7 81.9	78.3 78.4 80.9 83.9 83.1 81.6 78.3
2006 2007 Utilization percent) 1985 1986 1987 1988 1989 1990 1991 1992	79.1 78.9 78.9 78.9 83.0 85.4 81.5 78.4 78.0	78.6 78.6 78.3 79.9 83.0 84.4 82.5 77.7	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0	78.5 78.2 79.9 83.9 84.1 82.2	78.4 78.3 80.4 83.7 83.2 82.2 77.7 79.6	78.3 77.9 80.5 83.8 83.2 82.2 78.4 79.7	77.7 78.2 80.9 83.8 82.1 81.9 78.5	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5	77.6 78.5 82.5 84.5 81.9 81.0 79.0 79.8	77.9 78.8 82.9 84.7 81.9 79.9 78.7 79.9	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6	78.9 78.4 79.5 83.1 84.7 82.2 77.7 78.5	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5	77.9 78.3 81.1 83.9 82.3 81.8 78.8 79.8	77.9 78.9 82.9 84.7 81.9 80.0 78.8 79.8	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3
2006 2007 Utilization percent) 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994	79.1 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 80.3 82.5	78.4 78.3 80.4 83.7 83.2 82.2 77.7 79.6 80.1 82.7	78.3 77.9 80.5 83.8 83.2 82.2 78.4 79.7 79.9 82.7	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1	77.6 78.5 82.5 84.5 81.9 81.0 79.0 79.8 80.8 83.6	77.9 78.8 82.9 84.7 81.9 79.9 78.7 79.9 80.9 83.9	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6	78.9 78.9 78.4 79.5 83.1 84.7 82.2 77.7 78.5 80.2 81.5	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6	77.9 78.3 81.1 83.9 82.3 81.8 78.8 79.8 80.0 83.0	77.9 78.9 82.9 84.7 81.9 80.0 78.8 79.8 81.0 84.0	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8
2006 2007 Utilization (percent) 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994	79.1 78.9 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 82.5	78.4 78.3 80.4 83.7 83.2 82.2 77.7 79.6 80.1 82.7 83.1	78.3 77.9 80.5 83.8 83.2 82.2 78.4 79.7 79.9 82.7	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1	77.6 78.5 82.5 84.5 81.9 81.0 79.0 79.8 80.8 83.6	77.9 78.8 82.9 84.7 81.9 79.9 78.7 79.9 80.9 83.9	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6	78.9 78.4 79.5 83.1 84.7 82.2 77.7 78.5 80.2 81.5	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6	77.9 78.3 81.1 83.9 82.3 81.8 78.8 79.8 80.0 83.0	77.9 78.9 82.9 84.7 81.9 80.0 78.8 79.8 81.0 84.0	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8
2006 2007 Utilization (percent) 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994	79.1 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3 84.6 81.0	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2 84.2 81.8	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1 84.0 81.2	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 82.5 83.5 81.7	78.4 78.3 80.4 83.7 83.2 82.2 77.7 79.6 80.1 82.7 83.1 81.8	78.3 77.9 80.5 83.8 83.2 82.2 78.4 79.7 79.9 82.7 83.1 82.3	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1 82.7 82.1	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1 83.1 82.3	77.6 78.5 82.5 84.5 81.9 81.0 79.0 79.8 80.8 83.6 82.6 81.8	77.9 78.8 82.9 84.7 81.9 79.9 78.7 79.9 80.9 83.9 82.3 82.2	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6	78.9 78.4 79.5 83.1 84.7 82.2 77.7 78.5 80.2 81.5	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6 83.2 81.9	77.9 78.3 81.1 83.9 82.3 81.8 79.8 80.0 83.0 82.7 82.2	77.9 78.9 82.9 84.7 81.9 80.0 78.8 79.8 81.0 84.0 82.3 82.2	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8 83.1 81.9
2006 2007 Utilization percent) 1985 1986 1987 1988 1999 1990 1991 1992 1993 1994	138.9 142.5 79.1 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3 84.6 81.0	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2 84.2 81.8	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1 84.0 81.2	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 82.5 83.5 81.7 82.5	78.4 78.3 80.4 83.7 83.2 82.2 77.7 79.6 80.1 82.7 83.1 81.8	78.3 77.9 80.5 83.8 83.2 82.2 78.4 79.7 79.9 82.7 83.1 82.3 82.7	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8 82.2 82.0	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1 82.7 82.1 83.2	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1 83.1 83.3	77.6 78.5 82.5 84.5 81.9 81.0 79.0 79.8 80.8 83.6 82.6 81.8 83.4	77.9 78.8 82.9 84.7 81.9 79.9 78.7 79.9 80.9 83.9 82.3 82.2 83.8	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6 82.1 82.5 83.6	78.9 78.4 79.5 83.1 84.7 78.5 80.2 81.5 84.3 82.8	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6 83.2 81.9	77.9 78.3 81.1 83.9 82.3 81.8 79.8 80.0 83.0 82.7 82.2 83.0	77.9 78.9 82.9 84.7 81.9 80.0 78.8 79.8 81.0 84.0 82.3 82.2 83.6	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8 83.1 81.9
2006 2007 Utilization percent) 1985 1986 1987 1988 1999 1990 1991 1992 1993 1994 1995 1996 1997	79.1 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3 84.6 81.0	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2 84.2 81.8	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1 84.0 81.2	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 82.5 83.5 81.7	78.4 78.3 80.4 83.7 83.2 82.2 77.7 79.6 80.1 82.7 83.1 81.8	78.3 77.9 80.5 83.8 83.2 82.2 78.4 79.7 79.9 82.7 83.1 82.3	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1 82.7 82.1	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1 83.1 82.3	77.6 78.5 82.5 84.5 81.9 81.0 79.0 79.8 80.8 83.6 82.6 81.8	77.9 78.8 82.9 84.7 81.9 79.9 78.7 79.9 80.9 83.9 82.3 82.2	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6 82.1 82.5	78.9 78.4 79.5 83.1 84.7 82.2 77.7 78.5 80.2 81.5	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6 83.2 81.9	77.9 78.3 81.1 83.9 82.3 81.8 79.8 80.0 83.0 82.7 82.2	77.9 78.9 82.9 84.7 81.9 80.0 78.8 79.8 81.0 84.0 82.3 82.2	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8 83.1 81.9
2006 2007 Utilization percent) 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999	79.1 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3 84.6 81.0 82.1 83.6 81.0	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2 84.2 81.8 82.8 83.0 81.2	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1 84.0 81.2 83.3 82.3 80.8	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 82.5 83.5 81.7 82.5 80.7	78.4 78.3 80.4 83.7 79.6 80.1 82.7 83.1 82.7 83.1 81.8 82.7 82.1	78.3 77.9 80.5 83.8 83.2 78.4 79.7 79.9 82.7 83.1 82.3 82.7 81.0 80.5	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8 82.2 82.0 82.4 80.2 80.5	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1 82.7 82.1 82.2 81.8 80.7	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1 83.1 82.3 83.3 81.1 80.0	77.6 78.5 82.5 84.5 81.9 81.0 79.0 79.8 80.8 83.6 82.6 81.8 83.4 81.4 80.9	77.9 78.8 82.9 84.7 81.9 79.9 83.9 82.3 82.2 83.8 81.1 81.1	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6 82.1 82.5 83.6 81.4	78.9 78.4 79.5 83.1 84.7 78.5 80.2 81.5 84.3 81.3 82.8 83.0 81.0	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6 83.2 81.9 82.6 81.8	77.9 78.3 81.1 83.9 82.3 81.8 78.8 79.8 80.0 83.0 82.7 82.2 83.0 81.0 80.4	77.9 78.9 82.9 84.7 81.9 80.0 78.8 79.8 81.0 84.0 82.3 82.2 83.6 81.2 81.1	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8 83.1 81.9 83.0 81.7 80.8
2006 2007 Utilization percent) 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999	79.1 78.9 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3 84.6 81.0 82.1 83.6 81.0	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2 84.2 81.8 82.8 83.0 81.2	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1 84.0 81.2 83.3 82.3 80.8	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 82.5 83.5 81.7 82.5 82.2 80.7	78.4 78.3 80.4 83.7 83.2 82.2 77.7 79.6 80.1 82.7 83.1 81.8 82.7 82.1 81.1	78.3 77.9 80.5 83.8 83.2 82.2 78.4 79.7 79.9 82.7 83.1 82.3 82.7 81.0 80.5	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8 82.2 82.0 82.4 80.2 80.5	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1 82.7 82.1 83.2 81.8 80.7	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1 83.1 82.3 83.3 81.1 80.0	77.6 78.5 82.5 81.9 81.0 79.0 79.8 80.8 83.6 82.6 81.8 83.4 81.4 80.9	77.9 78.8 82.9 84.7 81.9 79.9 78.7 79.9 83.9 82.3 82.2 83.8 81.1 81.1	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6 82.1 82.5 83.6 81.1 81.4	78.9 78.4 79.5 83.1 84.7 77.7 78.5 80.2 81.5 84.3 81.3 82.8 83.0 81.0	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6 83.2 81.9 82.6 81.8 80.7	77.9 78.3 81.1 83.9 82.3 81.8 78.8 79.8 80.0 83.0 82.7 82.2 83.0 81.0 80.4	77.9 78.9 82.9 84.7 81.9 80.0 78.8 79.8 81.0 84.0 82.3 82.2 83.6 81.2 81.1 78.3	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8 83.1 81.9 83.0 81.7 80.8
2006 2007 Utilization percent) 1985 1986 1987 1988 1999 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	79.1 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3 84.6 81.0 82.1 83.6 81.0	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2 84.2 81.8 82.8 83.0 81.2	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1 84.0 81.2 83.3 82.3 80.8	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 82.5 81.7 82.5 82.2 80.7	78.4 78.3 80.4 83.7 79.6 80.1 82.7 79.6 80.1 82.7 83.1 81.8 82.7 82.1 81.1	78.3 77.9 80.5 83.8 83.2 78.4 79.7 79.9 82.7 83.1 82.3 82.7 81.0 80.5	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8 82.2 82.0 82.4 80.2 80.5	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1 82.7 82.1 83.2 81.8 80.7	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1 83.1 82.3 83.3 81.1 80.0 79.7 72.5	77.6 78.5 82.5 84.5 81.9 81.0 79.0 79.8 80.8 83.6 82.6 81.8 83.4 81.4 80.9	77.9 78.8 82.9 84.7 81.9 79.9 78.7 79.9 83.9 82.2 83.8 81.1 81.1 78.4 71.6	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6 82.1 82.5 83.6 81.1 81.4	78.9 78.4 79.5 83.1 84.7 78.5 80.2 81.5 84.3 81.3 82.8 83.0 81.0	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6 81.9 82.6 81.8 80.7	77.9 78.3 81.1 83.9 82.3 81.8 79.8 80.0 83.0 82.7 82.2 83.0 81.0 80.4 79.9 73.0	77.9 78.9 82.9 84.7 81.9 80.0 78.8 79.8 81.0 84.0 82.3 82.2 83.6 81.2 81.1 78.3 71.7	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8 83.1 81.9 83.0 81.7 80.8
2006 2007 Utilization (percent) 1985 1986 1987 1988 1999 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	79.1 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3 84.6 81.0 82.1 83.6 81.0	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2 84.2 81.8 82.8 83.0 81.2	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1 84.0 81.2 83.3 82.3 80.8	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 82.5 81.7 82.5 82.2 80.7	78.4 78.3 80.4 83.7 83.2 82.2 77.7 79.6 80.1 82.7 83.1 81.8 82.7 82.1 81.1	78.3 77.9 80.5 83.8 83.2 82.2 78.4 79.7 79.9 82.7 83.1 82.3 82.7 81.0 80.5	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8 82.2 82.0 82.4 80.2 80.5	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1 82.7 82.1 83.2 81.8 80.7 79.6 72.9 73.5	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1 83.1 82.3 83.3 81.1 80.0 79.7 72.5 73.6	77.6 78.5 82.5 84.5 81.9 81.0 79.0 79.8 80.8 83.6 82.6 81.8 83.4 81.4 80.9 79.0 71.9 73.3	77.9 78.8 82.9 84.7 81.9 79.9 78.7 79.9 83.9 82.2 83.8 81.1 81.1 78.4 71.6 73.6	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6 82.1 82.5 83.6 81.1 81.4 77.6 71.7	78.9 78.4 79.5 83.1 84.7 78.5 80.2 81.5 84.3 81.3 82.8 83.0 81.0 81.1 76.3 72.0	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6 81.9 82.6 81.8 80.7	77.9 78.3 81.1 83.9 82.3 81.8 79.8 80.0 83.0 82.7 82.2 83.0 81.0 80.4 79.9 73.0 73.5	77.9 78.9 82.9 84.7 81.9 80.0 78.8 79.8 81.0 84.0 82.3 82.2 83.6 81.2 81.1 78.3 71.7 73.4	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8 83.1 81.9 83.0 81.7 80.8
2006 2007 Utilization percent) 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999	79.1 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3 84.6 81.0 82.1 83.6 81.0 81.1 76.9 71.9	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2 84.2 81.8 82.8 83.0 81.2	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1 84.2 83.3 82.3 80.8 81.2 75.7 72.4 74.1	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 82.5 83.5 81.7 82.5 82.2 80.7	78.4 78.3 80.4 83.7 79.6 80.1 82.7 77.6 80.1 82.7 83.1 81.8 82.7 81.1 81.0 74.6 72.8 73.5	78.3 77.9 80.5 83.8 83.2 82.2 78.4 79.9 82.7 83.1 82.3 82.7 81.0 80.5 80.8 73.9 73.6 74.0	140.8 143.9 77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8 82.2 82.0 82.4 80.5 80.4 73.5 73.2	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1 82.7 82.1 83.2 80.7	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1 82.3 83.3 83.1 80.0 79.7 72.5 73.6 74.6	77.6 78.5 82.5 84.5 81.9 81.0 79.0 79.8 80.8 83.6 82.6 81.8 83.4 80.9 79.0 71.9 73.3 74.5	77.9 78.8 82.9 84.7 81.9 79.9 78.7 79.9 80.9 83.9 82.3 82.2 83.8 81.1 81.1 78.4 71.6 73.6 75.3	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6 82.1 82.5 83.6 81.1 81.4 77.6 71.7 73.3 75.2	78.9 78.4 79.5 83.1 84.7 78.2 77.7 78.5 80.2 81.5 84.3 81.3 82.8 83.0 81.0 81.1 76.3 72.0	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6 83.2 81.9 82.6 81.8 80.7	77.9 78.3 81.1 83.9 82.3 81.8 79.8 80.0 83.0 82.7 82.2 83.0 80.4 79.9 73.0 73.5 74.2	77.9 78.9 82.9 84.7 81.9 80.0 78.8 81.0 84.0 82.3 82.2 83.6 81.1 78.3 71.7 73.4 75.0	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8 83.1 81.9 83.0 81.7 73.0 74.2
2006 2007 Utilization (percent) 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003	79.1 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3 84.6 81.0 82.1 83.6 81.0	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2 84.2 81.8 82.8 83.0 81.2	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1 84.0 81.2 83.3 82.3 80.8	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 82.5 81.7 82.5 82.2 80.7	78.4 78.3 80.4 83.7 83.2 82.2 77.7 79.6 80.1 82.7 83.1 81.8 82.7 82.1 81.1	78.3 77.9 80.5 83.8 83.2 82.2 78.4 79.7 79.9 82.7 83.1 82.3 82.7 81.0 80.5	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8 82.2 82.0 82.4 80.2 80.5	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1 82.7 82.1 83.2 81.8 80.7 79.6 72.9 73.5	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1 83.1 82.3 83.3 81.1 80.0 79.7 72.5 73.6	77.6 78.5 82.5 84.5 81.9 81.0 79.0 79.8 80.8 83.6 82.6 81.8 83.4 81.4 80.9 79.0 71.9 73.3	77.9 78.8 82.9 84.7 81.9 79.9 78.7 79.9 83.9 82.2 83.8 81.1 81.1 78.4 71.6 73.6	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6 82.1 82.5 83.6 81.1 81.4 77.6 71.7	78.9 78.4 79.5 83.1 84.7 78.5 80.2 81.5 84.3 81.3 82.8 83.0 81.0 81.1 76.3 72.0	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6 81.9 82.6 81.8 80.7	77.9 78.3 81.1 83.9 82.3 81.8 79.8 80.0 83.0 82.7 82.2 83.0 81.0 80.4 79.9 73.0 73.5	77.9 78.9 82.9 84.7 81.9 80.0 78.8 79.8 81.0 84.0 82.3 82.2 83.6 81.2 81.1 78.3 71.7 73.4	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8 83.1 81.9 83.0 81.7 80.8
2006 2007 Utilization (percent) 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	79.1 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3 84.6 81.0 82.1 83.6 81.0 76.9 71.9 73.7 75.3	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2 84.2 81.8 82.8 83.0 81.2 76.2 71.9 73.8 75.8	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1 84.2 83.3 82.3 80.8 81.2 75.7 72.4 74.1	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 82.5 81.7 82.5 82.2 80.7 81.4 75.3 72.4 73.5 76.2	78.4 78.3 80.4 83.7 79.6 80.1 82.7 83.1 81.8 82.7 82.1 81.1 81.0 74.6 72.8 73.5 76.6	78.3 77.9 80.5 83.8 83.2 82.2 78.4 79.7 79.9 82.7 83.1 82.3 82.7 81.0 80.5 80.8 73.9 73.6 74.0 76.1	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8 82.2 82.0 82.4 80.2 80.5 80.4 73.5 73.2 74.1 76.7 78.8	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1 82.7 82.1 83.2 81.8 80.7 79.6 72.9 73.5 74.0 77.2	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1 83.1 82.3 83.3 81.1 80.0 79.7 72.5 73.6 74.6 76.9 78.1	77.6 78.5 82.5 84.5 81.9 81.0 79.0 79.8 80.8 83.6 82.6 81.8 83.4 81.4 80.9 79.0 71.9 73.3 74.5 77.4	77.9 78.8 82.9 84.7 81.9 79.9 78.7 79.9 83.9 82.3 82.2 83.8 81.1 81.1 78.4 71.6 73.6 75.3 77.4	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6 82.1 82.5 83.6 81.1 81.4 77.6 71.7 73.3 75.2 77.8	78.9 78.4 79.5 83.1 84.7 78.2 77.7 78.5 80.2 81.5 84.3 81.3 82.8 83.0 81.0 81.1 76.3 72.0	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6 83.2 81.9 82.6 81.8 80.7	77.9 78.3 81.1 83.9 82.3 81.8 78.8 79.8 80.0 83.0 82.7 82.2 83.0 81.0 80.4 79.9 73.0 73.5 74.2 76.9 78.6	77.9 78.9 82.9 84.7 81.9 80.0 78.8 81.0 84.0 82.3 82.2 83.6 81.1 78.3 71.7 73.4 75.0	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8 83.1 81.9 83.0 81.7 80.8
2005 2006 2007 Utilization (percent) 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	79.1 78.9 78.9 83.0 85.4 81.5 78.4 78.0 80.3 81.3 84.6 81.0 82.1 83.6 81.0 81.1 76.9 71.9 73.7	78.6 78.3 79.9 83.0 84.4 82.5 77.7 78.5 80.3 81.2 84.2 81.8 82.8 83.0 81.2 81.2	79.0 78.0 79.7 83.2 84.2 82.6 77.1 79.0 80.0 82.1 84.0 81.2 83.3 82.3 80.8 81.2 75.7 72.4 74.1	78.5 78.2 79.9 83.9 84.1 82.2 77.2 79.3 80.3 82.5 81.7 82.5 82.2 80.7 81.4 75.3 72.4 73.5 76.2	78.4 78.3 80.4 83.7 79.6 80.1 82.7 83.1 82.7 82.1 81.1 81.0 74.6 72.8 73.5	78.3 77.9 80.5 83.8 83.2 82.2 78.4 79.7 79.9 82.7 83.1 82.3 82.7 81.0 80.5	77.7 78.2 80.9 83.8 82.1 81.9 78.5 80.2 80.1 82.8 82.2 82.0 82.4 80.5 80.4 73.5 73.2 74.1 76.7	78.0 78.3 81.1 83.9 82.6 81.9 78.6 79.7 79.9 83.1 82.7 82.1 83.2 81.8 80.7 79.6 72.9 73.5 74.0	77.9 78.4 81.4 84.1 82.2 81.8 79.3 79.5 80.2 83.1 83.1 82.3 87.3 87.5 80.0 79.7 72.5 73.6 74.6 76.9	77.6 78.5 82.5 81.9 81.0 79.0 79.8 80.8 83.6 82.6 81.8 83.4 81.4 80.9 79.0 71.9 73.3 74.5 77.4	77.9 78.8 82.9 84.7 81.9 79.9 83.9 82.3 82.2 83.8 81.1 81.1 78.4 71.6 73.6 75.3 77.4	78.2 79.3 83.2 84.9 81.8 79.2 78.5 79.6 81.3 84.6 82.1 82.5 83.6 81.1 81.4 77.6 71.7 73.3 75.2 77.8	78.9 78.4 79.5 83.1 84.7 78.5 80.2 81.5 84.3 81.3 82.8 83.0 81.0 81.1 76.3 72.0 73.9	78.4 78.1 80.3 83.8 83.5 82.2 77.8 79.5 80.1 82.6 83.2 81.9 82.6 81.9 82.6 81.7 81.1 74.6 72.9 73.6	77.9 78.3 81.1 83.9 82.3 81.8 78.8 79.8 80.0 83.0 82.7 82.2 83.0 81.0 80.4 79.9 73.0 73.5 74.2 76.9	77.9 78.9 82.9 84.7 81.9 80.0 78.8 79.8 81.0 84.0 82.3 82.2 83.6 81.2 81.1 78.3 71.7 73.4 75.0 77.6	78.3 78.4 80.9 83.9 83.1 81.6 78.3 79.4 80.3 82.8 83.1 81.9 83.0 81.7 80.8

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

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

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent change) ²				_	•		•	_	_								
1985	3	.5	.2	1	.1	.0	5	.4	.5	4	.3	1.1	.9	1.1	2	2.6	1.0
1986	.5	8	7	.0	.1	2	.3	2	.2	.4	.4	.8	2.3	-2.7	.5	4.0	.9
1987	5	1.2	.2	.5	.6	.4	.5	.6	.2	1.4	.5	.4	4.4	6.4	6.1	9.0	4.3
1988	.0	.4	.2	.5	2	.2	.1	.5	4	.5	.2	.4	3.0	2.7	1.4	2.9	4.4
1989	.3	5	.3	1	7	.0	-1.1	.9	3	2	.3	.7	1.8	-2.0	-3.3	1.0	.6
1990 1991	7 5	.9 8	.4 6	2 .2	1.0	1.0	2	.3	.1	8 2	-1.2 2	7 5	2.2 -8.1	2.3	1.0 5.4	-6.5 .4	.3 -2.0
1992	8	.7	.7	.6	.3	1	.8	6	.2	.6	.3	.0	-1.9	6.1	1.8	2.9	1.9
1993	.5	.3	1	.3	4	.2	.3	1	.4	.7	.3	.5	3.0	.4	1.6	5.1	2.5
1994	.4	.0	.9	.3	.4	.6	.1	.3	.0	.6	.4	.9	4.2	5.4	3.3	5.5	4.0
1995 1996	.2 -1.0	2 1.4	2 4	3 .8	.0 .4	.1 .7	5 5	1.1 .4	.1 .4	5 2	.1 .8	.2 .5	3.0 3	-1.4 6.0	1.5 2.2	.4 3.4	2.4 1.7
1997	1	.8	.5	4	.3	.2	.3	1.0	.7	.7	.7	.2	5.0	2.1	6.0	8.3	4.2
1998	.2	1	1	.2	.5	9	8	2.0	6	.5	3	.0	1.7	1.0	2	2.2	3.1
1999	.2	.2	1	2	.6	5	.3	.4	5	1.2	.3	.6	.9	.3	1.2	5.5	1.2
2000	3	.0	.1	.4	.0	1	5	4	.4	6	2	5	.7	1.7	-2.9	-3.0	1.1
2001 2002	7 .7	5 .1	4 .8	1 .4	6 .4	4 .9	3 3	3 .1	5 .0	6 4	5 .3	1 6	-6.4 2.9	-4.1 6.1	-4.3 1.7	-5.3 -1.3	-4.1 .1
2003	.5	.2	3	8	1	.2	.3	1	.5	1	.8	1	1.0	-4.0	1.7	2.7	.2
2004	.1	.6	6	.7	.6	8	.7	.2	2	.7	.2	.6	1.9	2.6	1.6	4.0	1.9
2005	.2	.5	2	1	.3	.6	1	.2	-1.9	1.0	1.0	.8	3.8	1.5	5	3.0	2.5
2006	1	.2	.4	.7	2	.8	.3	.1	5	3	5	.6	4.5	5.2	2.9	-2.7	2.8
2007	5	.8	2	.5	2	.5	.4	.2					.6	2.9			
IP (2002=100)	102.0	1011	1010	1012	1011	1051	1050	107.0	100.0	1012	105.0	1052	1012	1016	1011	105.2	104.6
2005 2006	103.9 106.1	104.4 106.3	104.2 106.8	104.2 107.6	104.4 107.4	105.1 108.3	105.0 108.6	105.2 108.7	103.2 108.2	104.2 107.9	105.3 107.4	106.2 108.0	104.2 106.4	104.6 107.7	104.4 108.5	105.2 107.8	104.6 107.5
2007	100.1	108.3	108.1	107.6	107.4	108.3	109.4	108.7	106.2	107.9	107.4	106.0	100.4	107.7	106.5	107.8	107.5
Capacity (percent of 2002 output)																	
2005	129.7	129.7	129.7	129.7	129.6	129.7	129.7	129.7	129.8	129.9	130.0	130.1	129.7	129.7	129.7	130.0	129.8
2006 2007	130.2 132.0	130.4 132.1	130.5 132.2	130.7 132.3	130.8 132.4	131.0 132.5	131.2 132.5	131.3 132.6	131.5	131.6	131.8	131.9	130.4 132.1	130.8 132.4	131.3	131.8	131.1
Utilization (percent)																	
1985	79.7	79.9	79.9	79.7	79.6	79.5	78.9	79.1	79.4	79.0	79.1	79.8	79.8	79.6	79.1	79.3	79.5
1986	80.2	79.4	78.8	78.8	78.8	78.6	78.8	78.5	78.6	78.8	79.1	79.6	79.5	78.7	78.6	79.2	79.0
1987	79.2	80.1	80.1	80.4	80.8	81.1	81.4	81.8	81.9	83.0	83.3	83.6	79.8	80.8	81.7	83.3	81.4
1988	83.6	83.9	84.0	84.4	84.2	84.3	84.4	84.8	84.4	84.8	84.9	85.2	83.8	84.3	84.5	85.0	84.4
1989	85.4	84.9	85.1	84.9	84.2	84.0	83.0	83.6	83.2	82.9	83.0	83.4	85.1	84.3	83.3	83.1	84.0
1990	82.7	83.3	83.5	83.2	83.2	83.3	83.0	83.1	83.1	82.4	81.2	80.5	83.2	83.2	83.1	81.4	82.7
1991 1992	80.0 79.0	79.3 79.4	78.7 79.9	78.8 80.4	79.5 80.5	80.1 80.3	80.1 80.9	80.0 80.3	80.6 80.4	80.4 80.8	80.1 81.0	79.6 80.9	79.4 79.4	79.5 80.4	80.2 80.5	80.1 80.9	79.8 80.3
1992	81.2	81.4	81.3	81.4	81.0	81.1	81.3	81.2	81.4	81.9	82.1	82.4	81.3	81.2	81.3	82.1	81.5
1994	82.6	82.5	83.1	83.2	83.5	83.8	83.8	83.9	83.8	84.2	84.4	85.0	82.7	83.5	83.8	84.5	83.6
1995	85.0	84.7	84.4	84.0	83.8	83.8	83.2	83.9	83.9	83.3	83.2	83.2	84.7	83.9	83.6	83.2	83.9
1996	82.2	83.2	82.7	83.2	83.4	83.8	83.2	83.4	83.5	83.1	83.6	83.8	82.7	83.4	83.4	83.5	83.3
1997	83.4	83.9	84.1	83.5	83.4	83.3	83.3	83.8	84.1	84.4	84.7	84.5	83.8	83.4	83.7	84.5	83.9
1998 1999	84.3 82.2	84.0 82.1	83.6 81.8	83.6 81.5	83.8 81.8	82.8 81.3	82.0 81.4	83.3 81.5	82.6 81.0	82.8 81.8	82.4 81.9	82.2 82.2	84.0 82.1	83.4 81.6	82.7 81.3	82.5 81.9	83.1 81.7
2000	81.8	81.7	81.6	81.8	81.7	81.5	81.0	80.6	80.8	80.2	80.0	79.5	81.7	81.7	80.8	79.9	81.0
2001	78.8	78.3	77.9	77.8	77.3	76.9	76.6	76.3	75.8	75.3	74.9	74.7	78.4	77.3	76.2	75.0	76.7
2002	75.2	75.2	75.7	75.9	76.2	76.9	76.7	76.7	76.8	76.5	76.8	76.4	75.3	76.4	76.7	76.6	76.3
2003 2004	76.9 77.7	77.1 78.2	77.0 77.7	76.4 78.2	76.4 78.7	76.6 78.1	76.8 78.6	76.8 78.8	77.2 78.6	77.1 79.2	77.7 79.4	77.7 79.9	77.0 77.9	76.4 78.4	76.9 78.7	77.5 79.5	77.0 78.6
2005		80.5	80.4							80.2	81.0		80.3			80.9	80.6
2005	80.1 81.5	80.5	80.4	80.3 82.3	80.6 82.1	81.1 82.7	80.9 82.8	81.1 82.8	79.5 82.3	82.0	81.5	81.6 81.9	80.3	80.6 82.3	80.5 82.6	80.9	80.6
2007	81.4	81.9	81.8	82.1	81.9	82.3	82.5	82.6	22.0			,	81.7	82.1			

^{1.} Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.

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

Table 14
HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing Excluding Selected High-Technology Industries Seasonally adjusted

No. Property Pro	Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
1985	IP (percent																	
1985	change) ³																	
1986		5	3	.9	2	.1	.1	4	.6	.2	3	.6	.4	2	1.7	.7	2.5	1.4
1987				3	.4	.1								4.7	3			
1986																		
1989																		
1991																		
	1990	3	1.4	.3	3	.1	.2	2	.3	1	8	-1.2	8	3.7	2.0	.3	-7.2	.0
1992	1991		8							1.1		3		-9.8	1.5		1.0	
1994	1992	8	.8	.9	.4	.5	.1	.7	5	.0	.4	.3	2	-1.2	6.9	2.6	1.5	2.6
Post	1993	1.1	.0	3	.5	1	2	.3	2	.5	.7	.3	.5	3.8	.8	.6	5.7	2.6
1996	1994	.1	.0	1.2	.6	.5	.2	.3	.5	.1	.7	.6	.9	3.9	7.1	3.9	6.7	4.4
1997	1995	.2	3	1	4	2	.2	8	.9	.6	4	1	.1	3.0	-2.5	.3	.8	2.5
1998																		
1990			1.0									.9				6.6	8.8	4.9
2000																		
2001	1999	.0	.5	5	1	.8	7	.0	.6	5	1.4	.4	.4	.9	.2	.4	6.9	1.4
2002 5																		
2005																		
2005																		
Capacity																		
Processes 1908 19	2004	2	.6	2	./	.6	/	.8	.6	4	./	.0	.5	1.3	3.9	3.3	3.4	2.2
Produce																		
Properties Pro	2006	.8	3	.3	.8	4	.8	.3	.2	3	9	2	1.1	4.9	3.8	3.0	-3.3	3.2
10.5 10.4 10.4 10.4 10.4 10.5	2007	7	1	.7	.3	.0	.6	.6	3					.3	3.7			
1006 107.9 107.5 107.8 107.8 108.7 109.5 109.5 109.5 109.7 109.4 108.4 108.2 109.3 109.7 108.7 109.7 108.6 108.6																		
Capacity (percent of (percent of 132.6 132.6 132.7 132.7 132.8 132.8 132.9 133.0 133.1 133.3 133.4 133.6 132.6 132.8 132.9 133.0 133.1 133.3 133.4 133.6 132.6 132.8 132.9 133.0 133.1 133.3 133.4 133.6 132.8 132.9 133.0 133.1 133.3 133.4 133.6 132.6 132.8 132.8 132.9 133.0 133.1 133.3 133.4 133.6 132.8 133.9 134.3 134.5 134.5 134.5 135.2 135.6 135.9 135.6																		
Capacity										109.4	108.4	108.2	109.3			109.5	108.6	108.6
Company Comp	2007	108.5	108.4	109.2	109.5	109.5	110.1	110.8	110.4					108.7	109.7			
133.7 133.9 134.0 134.2 134.3 134.5 134.7 134.8 135.0 135.1 135.2 135.4 133.9 134.3 134.8 135.2 134.6 2007 135.5 135.6 135.7 135.8 135.9 136.0 136.1 136.2 135.0 135.1 135.2 135.4 133.9 134.3 134.8 135.2 2008 133.7 133.9 134.0 134.2 134.3 134.5 134.8 135.2 134.6 2000 20.4 20.0 20.0 20.4 20.0 20.0 20.7 20.0 2	(percent of																	
Utilization (percent) 135.5 135.6 135.7 135.8 135.9 136.0 136.1 136.2	2005	132.6	132.6	132.7	132.7	132.8	132.8	132.9	133.0	133.1	133.3	133.4	133.6	132.6	132.8	133.0	133.4	133.0
Utilization (percent) 1985	2006	133.7	133.9	134.0	134.2	134.3	134.5	134.7	134.8	135.0	135.1	135.2	135.4	133.9	134.3	134.8	135.2	134.6
	2007	135.5	135.6	135.7	135.8	135.9	136.0	136.1	136.2					135.6	135.9			
1985 78.6 78.3 78.8 78.5 78.4 78.3 77.9 78.2 78.2 77.9 78.3 78.6 78.4 78.1 78.7 78.4 78.5 78.6 78.7 78.8 79.0 79.6 78.6 78.6 78.1 78.6 78.6 79.7 80.6 81.2 81.4 81.7 82.9 83.3 83.6 79.7 80.6 81.4 83.2 81.2 1988 83.4 83.5 83.7 84.3 84.1 84.2 84.4 84.4 84.8 85.0 85.3 83.5 84.2 84.2 85.9 1989 85.9 84.9 84.7 84.6 83.7 82.4 83.0 82.7 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.5 82.2 82.5 82.2 82.5 82.5 82.5<																		
1986 79.4 78.8 78.4 78.7 78.4 78.5 78.6 78.7 78.8 79.0 79.6 78.9 78.6 78.1 78.8 1987 79.1 80.1 80.0 80.2 80.7 80.8 81.2 81.4 81.7 82.9 83.3 83.6 79.7 80.6 81.4 83.2 81.2 81.4 81.7 82.9 83.3 83.6 79.7 80.6 81.4 83.2 81.2 81.4 84.2 84.4 84.8 85.0 85.9 84.9 84.7 84.6 83.7 82.4 83.0 82.7 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.2 82.5 82.2 83.5 82.2 82.3 82.1 81.3 80.2 79.5 79.5 79.5 79.5 79.5 78.6 78.0 79.7 79.4 79.8 80.0 79.7 78																		
1987 79.1 80.1 80.0 80.2 80.7 80.8 81.2 81.4 81.7 82.9 83.3 83.6 79.7 80.6 81.4 83.2 81.2 1988 83.4 83.5 83.7 84.3 84.1 84.2 84.1 84.4 84.8 85.0 85.3 83.5 84.2 84.2 84.3 1989 85.9 84.9 84.7 84.6 83.7 82.4 83.0 82.7 82.2 82.2 85.2 84.0 82.7 82.2 82.3 1990 81.8 82.8 82.9 82.6 82.5 82.5 82.2 82.3 82.1 81.3 80.2 79.7 85.6 78.0 77.9 79.0 78.9 78.4 1991 78.7 77.9 77.2 77.4 77.8 78.6 78.7 79.5 79.3 78.6 78.0 79.9 78.4 79.5 79.8 79.9 78.0 78.6 78.0																		
1988 83.4 83.5 83.7 84.3 84.1 84.2 84.4 84.8 85.0 85.3 83.5 84.2 84.2 85.0 84.3 1989 85.9 84.9 84.7 84.6 83.7 82.4 83.0 82.7 82.2 82.2 85.2 84.0 82.7 82.2 83.5 1990 81.8 82.8 82.9 82.6 82.5 82.5 82.2 82.3 82.1 81.3 80.2 79.5 82.5 82.2 80.3 81.9 1991 78.7 77.9 77.2 77.4 77.8 78.6 78.7 79.5 79.3 78.9 78.6 78.0 79.7 79.6 79.8 79.7 79.6 79.7 79.6 79.7 79.6 79.7 79.6 79.8 80.0 79.7 79.6 79.8 80.0 80.1 81.0 80.1 81.0 80.1 81.0 80.1 81.0 80.1 81.0 80.1 <td></td>																		
1989 85.9 84.9 84.7 84.6 83.7 82.4 83.0 82.7 82.2 82.2 85.2 84.0 82.7 82.2 83.5 1990 81.8 82.8 82.9 82.6 82.5 82.5 82.2 82.3 82.1 81.3 80.2 79.5 82.5 82.2 80.3 81.9 1991 78.7 77.9 77.2 77.4 77.8 78.6 78.7 79.5 79.3 78.9 78.6 78.0 77.9 79.8 79.0 79.3 79.6 79.8 80.0 79.7 79.6 79.8 80.0 79.7 78.4 79.5 79.8 79.9 80.0 80.7 80.9 81.2 80.3 80.1 80.4 80.4 80.1 80.4 80.2 80.0 80.1 79.9 80.2 80.7 80.9 81.2 80.3 80.1 81.0 80.4 80.2 82.7 82.8 83.1 83.1 83.1 83.1<																		
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1991 78.7 77.9 77.2 77.4 77.8 78.6 78.7 79.5 79.3 78.6 78.9 78.4 199.5 79.3 79.6 79.7 80.2 79.7 79.6 79.8 80.0 79.7 79.6 79.8 80.0 79.7 79.6 79.8 80.0 79.7 79.6 79.8 80.0 79.7 79.6 79.8 80.0 79.7 79.6 79.8 80.0 79.7 79.6 79.8 80.0 79.7 79.6 79.8 80.0 79.7 79.6 79.8 80.0 79.7 79.6 79.8 80.0 80.0 80.1 79.9 80.2 80.9 81.2 80.1 81.0 80.4 80.4 80.2 82.0 82.0 82.0 82.8 83.1 83.1 83.5 83.8 84.5 81.5 82.6 82.1 82.9 82.3 82.0 82.3 82.0 82.3 82.2 82.3 82.2 82.3 82.6 <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<>																		
1992 77.9 78.4 79.0 79.3 79.6 79.7 80.2 79.7 79.6 79.8 80.0 79.7 78.4 79.5 79.8 79.8 79.4 1993 80.4 80.4 80.1 80.0 80.1 79.9 80.2 80.7 80.9 81.2 80.3 80.2 80.1 81.0 80.4 1994 81.2 81.2 82.0 82.4 82.7 82.8 83.1 83.5 83.8 84.5 81.5 82.6 83.0 83.9 82.8 1995 84.4 84.0 83.7 83.2 82.9 82.9 82.0 82.6 82.9 82.3 82.0 81.9 84.0 83.0 82.5 82.1 82.9 1996 80.8 81.7 81.1 81.7 81.9 82.4 82.2 82.3 82.4 81.9 82.3 82.6 81.2 82.8 83.1 82.2 82.8 83.2 82.4 82.1																		
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1997 82.2 82.8 83.2 82.3 82.4 82.1 82.9 83.1 83.2 83.5 82.7 82.4 82.7 83.4 82.8 1998 83.5 83.1 82.5 82.6 82.6 81.4 80.5 82.1 81.3 81.6 81.3 81.2 83.1 82.2 81.3 81.4 82.0 1999 81.0 81.2 80.6 80.3 80.7 80.0 79.8 80.2 79.5 80.5 80.7 80.8 80.9 80.3 79.8 80.4 2000 80.4 80.2 80.3 80.4 79.9 79.8 79.3 78.6 78.8 78.2 77.7 76.9 80.3 80.0 78.9 79.2 2001 76.3 75.8 75.5 75.4 74.9 74.5 74.4 73.8 73.5 73.0 72.8 72.9 75.9 74.9 74.9 74.5 74.4 73.8 73.5 73.0																		
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^{1.} Refer to note on cover page.
2. Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.
3. Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

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:

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

The IP proportions (typically shown in the first column of the relevant tables in the G.17 release) are estimates of the industries' relative contributions to overall growth in the following year. For example, the relative importance weight of the motor vehicles and parts industry is about 8 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by 8/10 percentage point ($0.08 \times 10\% = 0.8\%$). To assist users with calculations, the Federal Reserve's web site provides supplemental monthly statistics that represent the exact proportionate contribution of a monthly change in a component index to the monthly change in the total index (www.federalreserve.gov/releases/G17/ipdisk/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 84 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 2005)

	Mon			
Type of data	1st	2nd	3rd	4th
Physical product	27	42	54	54
Production-worker hours	43	43	43	43
IP data received	70	84	96	97
IP data estimated	30	16	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

September 2006; for other series, the factors were estimated with data through at least June 2006. 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 1987–2005 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 1987–2005 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 87 detailed industries (69 in manufacturing, 16 in mining, and 2 in utilities), which mostly correspond to industries at the three- and four-digit NAICS level. Estimates of capacity and utilization are available for a variety of groups, including durable and nondurable manufacturing, total manufacturing, mining, utilities, and total industry. Manufacturing consists of those industries included in the North American Industry Classification System, 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 24 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 72 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

2007: January 17, February 15, March 16, April 17, May 16, June 15, July 17, August 15, September 14, October 16, November 16, and December 14.

2008: January 16, February 15, March 17, April 16, May 15, June 17, July 16, August 15, September 15, October 16, November 17, and December 15.