FEDERAL RESERVE statistical release



G.17 (419)

For release at 9:15 a.m. (EDT) September 15, 2011

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production increased 0.2 percent in August after having advanced 0.9 percent in July. Manufacturing rose 0.5 percent in August, after a similarly sized gain in July, and the rates of change were revised down slightly in April, May, and June. In August, the output of mines moved up 1.2 percent. The output

(over)

Industrial Production and Capacity Utilization: Summary

Seasonally adjusted

			2007=	100						Percent	change		
	2011						2011						Aug. '10 to
Industrial production	Mar. ^r	Apr. ^r	May ^r	June ^r	July ^r	Aug. ^p	Mar. ^r	Apr. ^r	May	June ^r	July	Aug. ^p	Aug. '11
Total index	93.1	92.7	93.0	93.0	93.9	94.0	.7	4	.3	.1	.9	.2	3.4
Previous estimates	93.1	92.8	93.0	93.3	94.2	,	.7	3	.2	.4	.9		
1 Tevrous estimates) 5.1	72.0	75.0	75.5	71.2		.,			• • •	.,		
Major market groups													
Final Products	94.4	94.2	94.7	94.4	95.3	95.7	.1	3	.6	3	.9	.4	3.3
Consumer goods	93.2	92.8	93.1	92.7	93.5	93.7	.2	4	.3	4	.9	.2	1.2
Business equipment	94.6	94.5	95.8	95.9	97.0	97.7	.0	2	1.4	.1	1.1	.7	9.4
Nonindustrial supplies	83.7	83.4	84.0	83.9	84.6	84.3	.9	4	.7	2	.9	4	1.9
Construction	75.2	75.2	76.3	76.4	77.1	76.9	1.1	.0	1.4	.2	.9	2	4.2
Materials	95.1	94.6	94.4	94.9	95.8	95.9	1.1	5	2	.6	.9	.1	3.9
Major industry groups													
Manufacturing (see note below)	90.1	89.6	89.7	89.8	90.3	90.7	.7	5	.1	.0	.6	.5	3.8
Previous estimates	90.1	89.7	89.9	90.0	90.6		.6	4	.2	.2	.6		
Mining	104.2	104.9	105.5	106.0	107.2	108.5	1.6	.7	.5	.5	1.1	1.2	5.6
Utilities	100.7	99.7	100.5	100.4	103.3	100.2	3	9	.8	1	2.8	-3.0	-2.4
													Capacity
					Perce	ent of cap	acity						growth
	Average	1988-	1990-	1994-									
	1972-	89	91	95	2009	2010	2011						Aug. '10 to
Capacity utilization	2010	high	low	high	low	Aug.	Mar. ^r	Apr. ^r	May	June ^r	July	Aug. ^p	Aug. '11
Total industry	80.4	85.2	78.8	85.1	67.3	75.5	77.0	76.6	76.7	76.7	77.3	77.4	.9
Previous estimates	00.4	05.2	70.0	05.1	07.5	13.3	77.0	76.6	76.7	76.9	77.5	77.4	.,
1 revious estimates							//.0	70.0	70.7	70.7	11.5		
Manufacturing (see note below)	79.0	85.5	77.3	84.7	64.4	72.6	74.8	74.4	74.4	74.4	74.7	75.0	.4
Previous estimates	,,,,	05.5	, , , , ,	01.7	0 1.1	72.0	74.8	74.4	74.6	74.6	75.0	75.0	
Mining	87.4	86.3	83.8	88.5	79.0	87.7	88.0	88.4	88.7	89.0	89.9	90.8	2.0
Utilities	86.6	92.9	84.3	93.3	79.2	82.8	79.6	78.7	79.3	79.1	81.2	78.7	2.7
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Stage-of-process groups													
Crude	86.4	87.7	84.3	89.6	77.6	86.3	87.3	87.1	86.7	87.0	87.6	88.1	1.6
Primary and semifinished	81.3	86.5	77.9	87.9	64.9	72.8	74.1	73.6	73.9	74.0	74.7	74.4	1
Finished	77.3	83.3	77.4	80.7	66.8	74.2	76.1	75.8	75.8	75.6	76.0	76.4	1.6

r Revised. p Preliminary.

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

of utilities decreased 3.0 percent, as temperatures moderated somewhat from the previous month. At 94.0 percent of its 2007 average, total industrial production for August was 3.4 percent above its year-earlier level. Capacity utilization for total industry edged up to 77.4 percent, a rate 1.9 percentage points above its level from a year earlier but 3.0 percentage points below its long-run (1972–2010) average.

Market Groups

The production indexes for most major market groups moved up in August. The output of consumer goods rose 0.2 percent. Consumer durables recorded an increase of 1.3 percent largely because of further gains in automotive products. The production indexes for home electronics and for appliances, furniture, and carpeting both edged up, while the output of miscellaneous goods slipped. The output of nondurable consumer goods declined 0.1 percent: A decrease in residential sales by utilities more than offset increases in the production of consumer fuels and of non-energy nondurables. The output of non-energy nondurables has been little changed, on net, over the past year, as a gain for chemical products has about offset lower output for paper products, clothing, and foods and tobacco.

The production of business equipment rose 0.7 percent in August and has gained 9.4 percent in the past 12 months. In August, the index for transit equipment moved up 1.6 percent, boosted by higher output of civilian aircraft, and the index for information processing equipment increased 1.1 percent. The production of industrial and other equipment was little changed for a second month; however, the index has increased 7.7 percent over the past 12 months.

In August, the index for defense and space equipment increased 1.5 percent, its largest increase in more than a year. This index is little changed, on net, from 12 months earlier.

The output of construction supplies decreased 0.2 percent in August after having climbed 0.9 percent in July. Over the past 12 months, the index for construction supplies has moved up 4.2 percent. Nevertheless, the index in August was more than 20 percent below its average level in 2007. The production of business supplies decreased 0.4 percent in August after having increased 0.9 percent in July; it has reversed little of its decline from late 2007 to early 2009.

The production of materials to be further processed in the industrial sector edged up 0.1 percent in August after having posted a gain of 0.9 percent in July. The output of durable materials increased 0.6 percent and was up for a fourth consecutive month in August. After averaging gains of nearly 2 percent in June and July, the production of consumer parts edged down 0.1 percent in August. Following a fall of 0.9 percent in July, the output of equipment parts increased 1.6 percent in August; the gains among its components were broadly based. Decreases for textile, paper, and chemical materials all contributed to a decline of 0.4 percent in the output of nondurable materials; the index has been little changed, on net, over the previous 12 months. The output of energy materials was unchanged in August, as increased extraction of natural gas, crude oil, and coal was offset by lower output for utilities.

Industry Groups

Manufacturing output increased 0.5 percent in August; it was 3.8 percent higher than its year-earlier level. Capacity utilization for manufacturing in August was 75.0 percent, a rate 10.6 percentage points above its trough in June 2009 but still 4.0 percentage points below its long-run average. The utilization rate for July was revised down 0.3 percentage point, a move that reflects, in part, a downward revision to chemical production from April to June.

The production index for durable goods manufacturing rose 0.8 percent in August, after having gained 0.9 percent in July. Among the major durable goods industries, gains of 1.0 percent or more were recorded in August in primary metals; computer and electronic products; electrical equipment, appliances, and components; motor vehicles and parts; aerospace and miscellaneous transportation equipment; and furniture and related products. Motor vehicle and parts production increased an average of 3.1 percent in July and August but has not yet returned to its level prior to the supply chain disruptions that resulted from the earthquake in Japan. Meanwhile, decreases in production in August were recorded in wood products, nonmetallic mineral products, and machinery. Overall, the index for durable manufacturing was 7.7 percent above its year-earlier level.

The index for nondurable manufacturing edged up 0.1 percent in August. The index for petroleum and coal products moved up 1.1 percent for the month, and a small increase was also recorded in chemical production. The indexes for the remaining nondurable manufacturing industry groups moved down, with the largest production declines recorded for textile and product mills and for printing and support. Nondurable manufacturing stood 0.9 percent above its year-earlier level.

The production index for mining increased 1.2 percent in August, primarily as a result of gains for crude oil, natural gas, and coal. Capacity utilization in mining rose to 90.8 percent, a rate 3.4 percentage points above its long-run average. The output of utilities moved down 3.0 percent; its operating rate fell to 78.7 percent, a rate that is 7.9 percentage points below its long-run average.

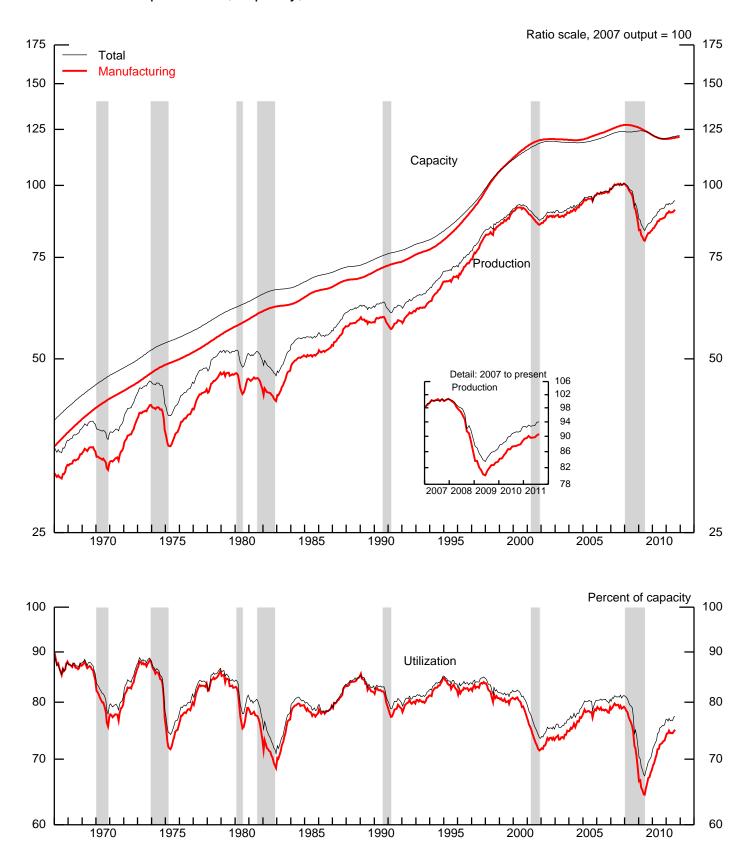
Capacity utilization rates in August at industries grouped by stage of process were as follows: At the crude stage, utilization increased 0.5 percentage point to 88.1 percent, a rate 1.7 percentage points above its long-run average; at the primary and semifinished stages, utilization fell 0.3 percentage point to 74.4 percent, a rate 6.9 percentage points below its long-run average; and at the finished stage, utilization rose 0.4 percentage point to 76.4 percent, a rate 0.9 percentage point below its long-run average.

Tables

- 1. Industrial Production: Market and Industry Group Summary; percent change
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- 14. Historical Statistics: Manufacturing Excluding Selected High-Technology Industries

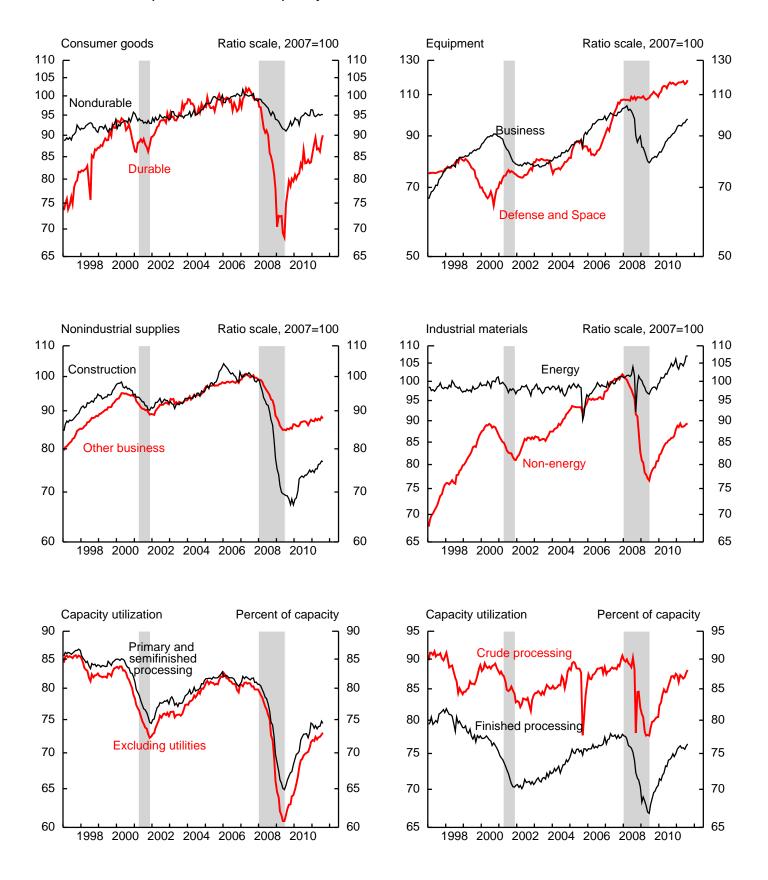
Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

1. Industrial production, capacity, and utilization

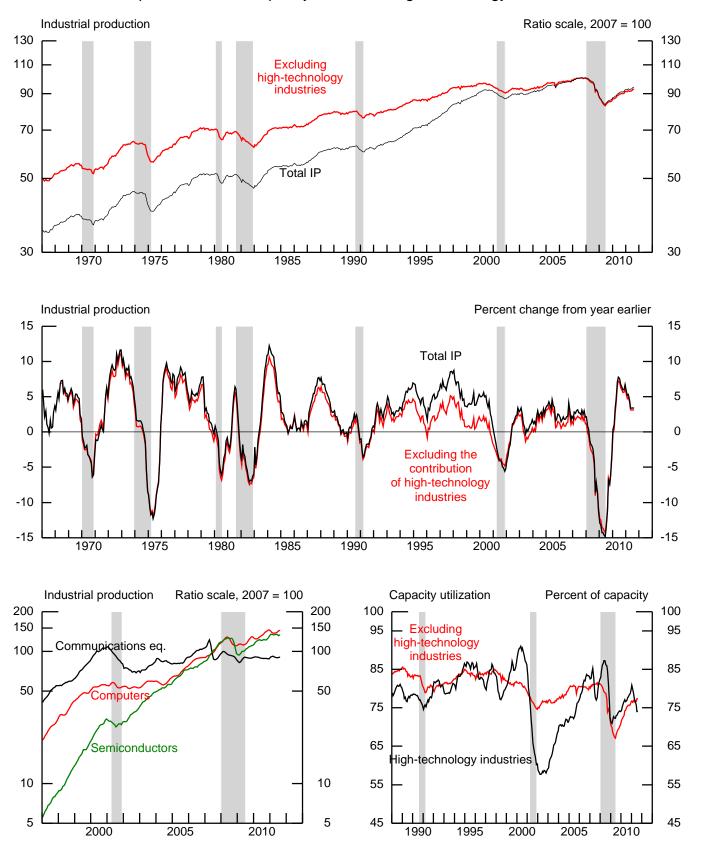


Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

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

				th quarte irth quar		Ai	nnual ra	te			Month	ıly rate			Aug. '10
Item		2010 proportion ¹	2008	2009	2010	2010 Q4	2011 Q1 ^r	Q2 ^r	2011 Mar. ^r	Apr.r	May ^r	Juner	July	Aug. ^p	to Aug. '11
Total IP		100.00	-9.1	-5.5	6.2	3.1	4.8	.5	.7	4	.3	.1	.9	.2	3.4
MARKET GROUPS															
Final products and nonindustrial supplie	es	55.24	-9.1	-5.5	5.3	1.6	4.9	.6	.3	3	.6	3	.9	.2	2.9
Consumer goods		29.07	-7.5	-2.1	3.3	4	3.4	-1.8	.2	4	.3	4	.9	.2	1.2
Durable Automotive products		6.17 3.26	-18.5 -22.2	-1.7 9.1	5.6 6.1	-3.1 -7.0	20.0	-5.2 -9.2	1.7 2.5	-3.0 -4.4	.2 4	9 9	3.1 4.8	1.3 2.6	7.9 11.6
Home electronics		.23	-6.5	2.5	-6.8	-13.8	-19.3	-13.8	-6.2	.2	1.6	9 4	1.0	.3	-10.5
Appliances, furniture, carpeting		.82	-22.2	-15.0	3.2	1.1	11.3	-1.1	4.6	-4.2	.3	7	8	.3	1.9
Miscellaneous goods		1.85	-12.7	-12.1	7.6	3.7	13.9	1.5	2	4	1.1	-1.0	2.0	3	6.2
Nondurable		22.91	-3.9	-2.2	2.6	.4	7	9	2	.3	.3	3	.3	1	5
Non-energy		16.98	-5.7	-2.8	2.2	2.7	4	.5	.0	.8	5	3	1	.2	.1
Foods and tobacco		9.43	-4.1	-1.2	4.8	2.4	6	8	3	.8	8	1	.4	1	2
Clothing		.21	-12.3	-23.8	7.6	7.2	5	-4.2	-3.4	1.2	.1	6	2	.2	-1.2
Chemical products		5.26	-7.3 -9.8	-3.5 -5.7	6	3.1 1.9	1.2	6.5	1.0	1.1	.0	2	-1.2 .4	.4	1.6
Paper products		1.56 5.92	1.9	-5.7	-3.2 3.9	-6.0	-5.9 -1.2	-12.6 -5.0	-1.0 9	3 -1.1	9 2.8	-2.8 5	1.4	1.0	-5.4 -2.3
Energy		3.92	1.9	.1	3.7	-0.0	-1.2	-3.0	9	-1.1	2.0	5	1.4	0	-2.3
Business equipment		9.06	-12.9	-7.9	12.2	9.5	13.4	4.0	.0	2	1.4	.1	1.1	.7	9.4
Transit		1.88	-35.4	11.9	10.5	-3.2	19.1	20.9	3.0	1	2.4	.8	3.0	1.6	15.9
Information processing		2.51	-3.7	1.3	11.3	11.3	9.1	-2.1	.5	-1.0	.5	9	2.2	1.1	7.4
Industrial and other		4.67	-8.4	-18.0	13.3	14.1	13.6	.9	-1.6	.3	1.4	.4	2	.1	7.7
Defense and space equipment		2.36	1.9	1.2	5.5	-1.0	2.3	.8	.1	.2	.4	-1.4	.3	1.5	1.1
Construction supplies Business supplies		4.08 10.06	-17.0 -8.7	-17.3 -5.8	10.1 1.4	5.0 9	1.6 2.5	6.1 .7	1.1 .9	.0 5	1.4 .4	.2 3	.9 .9	2 4	4.2
Materials		44.76	-9.1	-5.5	7.5	4.9	4.6	.4	1.1	5	2	.6	.9	.1	3.9
Non-energy		27.26	-14.1	-7.7	8.0	5.4	10.2	-1.1	.9	8	.0	.3	.5	.2	4.4
Durable		15.40	-13.7	-12.9	11.5	7.1	14.9	2.5	.9	6	.8	.5	.6	.6	7.8
Consumer parts		2.02	-26.0	-14.7	9.0	-3.7	9.2	-11.1	2.0	-4.8	-1.1	2.7	1.2	1	2.2
Equipment parts		5.71	-7.3	-10.7	11.8	11.3	19.0	5.3	1.0	6	1.2	.9	9	1.6	10.2
Other		7.67	-14.3	-14.0	12.0	7.0	13.3	4.1	.5	.5	.9	4	1.5	.0	7.4
Nondurable		11.87	-14.8	.0	3.5	3.1	4.2	-5.8	.9	-1.2	-1.0	1	.3	4	1
Textile		.47	-16.9	-4.6	9.5	7.0	1.9	16.0	-3.9	4.4	.8	.7	.4	-1.7	5.1
Paper Chemical		2.30	-11.0 -21.1	-4.5 2.9	.5 4.9	-1.1	2.7 8.2	-6.5 -8.7	1 2.3	1 -2.3	-1.5 -1.5	1 4	.6 .7	7	-1.5
Energy		5.44 17.50	-21.1	-1.9	6.5	3.7 4.2	-3.6	2.9	1.5	.0	-1.5	1.0	1.6	3 .0	3.0
INDUSTRY GROUPS Manufacturing		74.67	-11.8	-6.1	6.1	3.4	7.2	.2	.7	5	.1	.0	.6	.5	3.8
Manufacturing (NAICS)	31–33	71.48	-11.8	-5.9	6.6	3.8	7.2	.6	.7	5	.1	.1	.6	.4	4.2
Durable manufacturing	31-33	35.68	-13.3	-9.1	9.6	5.7	13.7	1.9	.8	8	.7	.2	.9	.8	7.7
Wood products	321	.93	-22.5	-11.7	6.3	8.6	11.1	-6.1	2.5	-2.5	.4	-2.3	.4	8	1.5
Nonmetallic mineral products	327	1.57	-19.4	-18.3	7.0	1.5	-8.6	13.8	.4	1.0	1.9	.2	1.3	2	3.1
Primary metals	331	2.19	-19.9	-8.3	12.5	16.7	25.7	1.3	2.7	6	8	.0	.7	1.2	12.4
Fabricated metal products	332	5.14	-11.8	-19.3	14.0	7.8	9.1	13.0	1.2	.9	1.1	1.6	.8	.0	9.4
Machinery	333	4.63	-9.0	-20.4	16.3	15.9	25.2	.7	-1.1	5	1.6	1.5	5	4	10.8
Computer and electronic products	334	6.51	-5.7	1.4	10.8	9.6	13.9	-2.1	2	5	.5	8	.8	1.3	6.8
Electrical equip., appliances,	225		10.5		0.5		4.0	0.4		2.0	2				
and components	335	1.74	-10.5	-17.5	9.6	9.2	1.0	-8.1	.3	-2.0	3	2	-1.8	1.0	-1.4
Motor vehicles and parts	3361–3	4.50	-28.7	2.3	10.2	-11.1	29.1	-15.8	3.0	-6.6	5	9	4.5	1.7	7.3
Aerospace and miscellaneous transportation equipment	3364–9	4.20	-13.7	.8	.9	5	3.3	19.9	1.3	2.4	1.2	1.0	1.1	2.2	9.6
Furniture and related products	337	1.04	-20.7	-21.3	6.5	4.5	8.4	5.6	3.5	-1.4	2.2	-3.6	1.3	1.2	5.6
Miscellaneous	339	3.22	-1.1	-5.3	4.1	6.4	11.5	2.6	-1.0	.1	.5	.8	1	.5	6.5
Nondurable manufacturing		35.80	-10.1	-2.3	3.5	2.0	2.1	7	.7	2	4	.0	.2	.1	.9
Food, beverage, and tobacco products	311,2	11.70	-3.4	5	4.4	2.6	7	<i>7</i>	2	.7	8	.0	.4	2	3
Textile and product mills	313,4	.74	-16.7	-10.5	6.8	3.0	2.9	7.4	-2.3	2.1	.1	.4	.0	-1.0	2.7
Apparel and leather	315,6	.29	-18.6	-18.9	6.8	13.1	5.1	7	-2.5	1.2	.6	4	3	3	2.3
Paper	322	2.75	-12.9	3	2.2	1.5	2.9	-7.9	.4	9	-1.1	3	1	3	-1.5
Printing and support	323	1.57	-10.3	-13.5	-3.0	-7.5	-2.8	2	5	.5	1	-1.3	1.1	9	-4.1
Petroleum and coal products	324	3.81	-4.0	9	4.3	.0	-7.0	4.1	2.3	-2.1	2.1	1.4	.2	1.1	2.2
Chemicals	325	11.88	-14.6	5	1.9	2.4	7.5	-2.0	1.7	8	-1.0	1	3	.2	1.7
Plastics and rubber products	326	3.06	-15.5	-7.3	9.8	4.1	5.4	2.4	3	.9	.3	9	1.8	2	3.9
Other manufacturing (non-NAICS)	1133,5111	3.19	-12.2	-10.0	-4.7	-6.2	-7.2	-10.1	-1.3	6	.1	-2.0	.5	.8	-6.5
Mining	21	13.94	4	-5.4	10.0	8.3	-3.9	7.5	1.6	.7	.5	.5	1.1	1.2	5.6
Utilities Electric	2211,2 2211	11.39 9.73	4 -1.5	-1.3 -1.7	3.1 2.5	-4.8 -8.6	.5 4.7	-5.5 -3.9	3 6	9 .1	.8 3	1 .3	2.8	-3.0 -3.3	-2.4 -1.9
Natural gas	2211	1.66	5.1	-1.7 .9	6.8	-8.6 20.3	-20.8	-3.9 -14.5	1.4	.1 -6.8	3 7.8	.3 -2.6	3.4 6	-3.3 6	-1.9 -5.6
rvaturar gas	2212	1.00	J.1	.9	0.0	20.5	-20.0	-14.3	1.4	-0.0	1.0	-2.0	0	0	-5.0

r Revised. p Preliminary.

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

^{1.} The proportion data are the relative weights for the rates of change for each series in the computation of the change in total industrial production in the following year.

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

creent enange, seasonarry adjusted															
				rth quarte								_			
			fo	urth quar	ter		Annual ra	te			Month	ıly rate			Aug. '10
Item		2010				2010	2011		2011						to
		proportion	2008	2009	2010	Q4	Q1 ^r	Q2 ^r	Mar.r	Apr.r	May ^r	June ^r	July ^r	Aug. ^p	Aug. '11
m		100.00				2.4	4.0	_	_						
Total industry		100.00	-9.1	-5.5	6.2	3.1	4.8	.5	.7	4	.3	.1	.9	.2	3.4
F		27.15	1	2.4	6.0	1.5	2.4	1.5	1.1	4	_		1.5	2	1.0
Energy		27.15 5.92	1 1.9	-2.4	6.0	1.5 -6.0	-2.4	1.5	1.1	4	.5 2.8	.6	1.5 1.4	3	1.9
Consumer products Commercial products		3.92	6	.1 2	3.9 1.7	-1.6	-1.2 -1.9	-5.0 1.7	2.8	-1.1 -2.1	1.5	5 .2	1.4	8 -1.7	-2.3 .0
Oil and gas well drilling	213111	.56	6.8	-42.4	44.7	16.6	20.7	28.0	.3	3.7	3.2	.3	2.4	2.2	21.8
Converted fuel	213111	4.37	-5.7	-42.4	3.4	-7.4	-1.0	6.3	.9	1.2	.8	.3	2.4	-1.9	3
Primary energy		13.12	.7	-2.1	7.6	8.2	-4.4	1.8	1.7	4	-1.0	1.3	1.4	-1.9	4.2
rimary energy		13.12	. '	-2.1	7.0	0.2	-4.4	1.0	1.7	4	-1.0	1.3	1.4	.0	4.2
Non-energy		72.85	-12.1	-6.5	6.3	3.7	7.6	.2	.5	4	.2	1	.7	.4	3.9
Selected high-technology industries		3.56	-5.5	6.1	10.5	12.5	16.1	-2.1	6	3	.3	.2	9	1.5	7.0
Computers and peripheral equipment	3341	.77	-1.5	15.7	12.1	23.3	-9.8	-4.3	-1.2	3	.6	1.5	1.9	1.5	6.6
Communications equipment	3342	.73	-3.1	.1	-1.4	-1.6	15.7	-5.7	.1	-1.4	7	2	.3	.6	2.6
Semiconductors and related	0012	.,,,	0.1			1.5	10.7	0.7		211	.,		.5	.0	2.0
electronic components	334412-9	2.06	-7.8	4.3	14.4	13.7	27.4	1	6	.1	.5	2	-2.3	1.9	8.7
Excluding selected high-technology															
industries		69.29	-12.6	-7.2	6.1	3.2	7.1	.3	.6	4	.2	1	.7	.3	3.7
Motor vehicles and parts	3361-3	4.50	-28.7	2.3	10.2	-11.1	29.1	-15.8	3.0	-6.6	5	9	4.5	1.7	7.3
Motor vehicles	3361	2.36	-32.0	10.9	15.4	-14.8	41.4	-19.6	4.9	-9.3	2	-1.4	7.3	2.7	12.7
Motor vehicle parts	3363	1.84	-23.0	-7.3	2.8	-7.8	3.9	-14.5	1.1	-4.2	-1.2	.1	1.5	.8	-1.7
Wiotor venicle parts	3303	1.04	-23.0	-7.3	2.0	-7.0	3.7	-14.5	1.1	-7.2	-1.2		1.5	.0	-1.7
Excluding motor vehicles and parts		64.79	-11.4	-7.8	5.8	4.3	5.7	1.5	.4	.1	.2	1	.5	.2	3.5
Consumer goods		20.21	-7.7	-4.8	2.8	2.4	1.3	1.3	.2	.7	3	3	.0	.2	.9
Business equipment		7.29	-13.0	-9.7	10.4	12.0	12.1	5.5	7	.6	1.6	.2	1.1	.9	10.1
Construction supplies		4.06	-17.1	-17.4	10.2	5.1	1.4	6.2	1.1	.0	1.4	.2	.9	2	4.2
Business supplies		6.64	-11.7	-8.4	.9	-1.2	3.8	.3	.0	.2	1	6	.8	.1	1.0
Materials		24.22	-13.4	-8.5	7.7	5.6	9.1	.0	1.0	6	.1	.3	.5	.0	4.4
Measures excluding selected															
high-technology industries															
Total industry		96.44	-9.3	-5.9	6.1	2.7	4.4	.6	.7	4	.3	.1	1.0	.1	3.2
Manufacturing ¹		71.11	-12.3	-6.8	5.8	2.9	6.7	.3	.7	5	.1	.0	.6	.4	3.6
Durable		32.26	-14.3	-10.8	9.5	4.8	13.3	2.4	.9	9	.7	.2	1.1	.7	7.6
Measures excluding motor vehicles															
and parts		05.50	0.1	<i>E</i> 0	6.1	2.0	27	1.4		1	2	1	7	1	2.2
Total industry		95.50	-8.1	-5.8	6.1	3.8	3.7	1.4	.6	1	.3	.1	.7	.1	3.2
Manufacturing ¹ Durable		70.17 31.31	-10.7 -11.1	-6.6 -10.6	5.8 9.5	4.4 8.2	5.9 11.6	1.3 4.7	.5	1 .1	.2 .8	.1 .4	.3 .4	.4 .7	3.6 7.7
Duraute		31.31	-11.1	-10.0	9.3	0.2	11.0	4./	.4	.1	.0	.4	.4	./	/./
Measures excluding selected high-technology industries															
and motor vehicles and parts															
Total industry		91.94	-8.2	-6.3	5.9	3.5	3.3	1.5	.6	- 1	3	1	.8	.1	3.0
Manufacturing ¹		66.61	-0.2	-7.3	5.6	4.0	5.3	1.5	.6	1	.2	.1	.6	.3	3.4
mandactum		00.01	-11.1	-1.3	5.0	4.0	5.5	1.5	.0	1	.2	.1	.+	.3	J. 4
Stage-of-process components															
of non-energy materials,															
measures of the input to															
Finished processors		10.49	-12.8	-10.0	8.7	5.4	12.7	.0	.8	-1.1	.2	1.0	1	.6	5.9
Primary and semifinished processors		16.77	-15.0	-6.1	7.6	5.4	8.6	-1.8	1.0	7	1	2	.8	1	3.4
Timely and seminished processors		10.77	15.0	0.1	7.0	3.4	0.0	1.0	1.0	,	1	2	.0	1	5.7

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

winners of units, seasonarry adjusted annual rate												
	2010	2010		2011		2011						
Item	average	Q3	Q4	Q1	Q2	Mar.	Apr.	May	June	July	Aug.	
Total	7.74	8.15	7.79	8.42	7.87	8.81	7.86	7.91	7.86	8.59	8.73	
Autos	2.73	2.66	2.54	2.70	2.75	2.90	2.65	2.81	2.78	2.67	3.03	
Trucks	5.01	5.49	5.25	5.73	5.13	5.90	5.21	5.10	5.07	5.92	5.70	
Light	4.87	5.33	5.09	5.54	4.88	5.69	4.99	4.84	4.81	5.69	5.50	
Medium and heavy	.15	.16	.16	.19	.25	.21	.22	.26	.27	.23	.20	_
Memo												
Autos and light trucks	7.60	8.00	7.63	8.23	7.63	8.60	7.64	7.65	7.59	8.35	8.53	

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

r Revised. p Preliminary.

1. Refer to note on cover page.

 Table 4

 INDUSTRIAL PRODUCTION INDEXES: MARKET AND INDUSTRY GROUP SUMMARY

 2007 = 100, seasonally adjusted

007 = 100, seasonally adjusted											
Item		2010 proportion	2010 Dec.	2011 Jan.	Feb.	Mar. ^r	Apr.r	May ^r	June ^r	July ^r	Aug.p
Total IP		100.00	92.6	92.8	92.5	93.1	92.7	93.0	93.0	93.9	94.0
Market Groups											
Final products and nonindustrial supplies		55.24	90.9	91.4	91.1	91.4	91.2	91.8	91.5	92.3	92.5
Consumer goods		29.07	93.3	93.7	93.0	93.2	92.8	93.1	92.7	93.5	93.7
Durable		6.17	83.8	85.9	87.9	89.4	86.7	86.9	86.2	88.8	90.0
Automotive products		3.26	88.2	92.0	94.7	97.1	92.8	92.5	91.7	96.1	98.6
Home electronics		.23	97.1	96.1	94.6	88.7	88.9	90.3	90.0	90.9	91.2
Appliances, furniture, carpeting		.82 1.85	66.9	66.6 83.2	68.9 84.4	72.1 84.3	69.0 83.9	69.2 84.9	68.7 84.0	68.2 85.7	68.4 85.4
Miscellaneous goods Nondurable		22.91	82.3 96.4	96.3	94.8	94.6	94.9	95.2	94.9	95.2	95.1
Non-energy		16.98	92.6	92.9	92.2	92.2	93.0	92.5	92.2	92.1	92.3
Foods and tobacco		9.43	97.9	98.6	97.7	97.5	98.3	97.5	97.4	97.8	97.7
Clothing		.21	67.1	66.9	67.4	65.1	65.8	65.9	65.5	65.4	65.5
Chemical products		5.26	89.0	88.8	88.4	89.3	90.3	90.3	90.2	89.1	89.5
Paper products		1.56	80.1	79.8	78.0	77.2	76.9	76.2	74.1	74.4	75.1
Energy		5.92	109.3	107.8	103.9	102.9	101.8	104.7	104.2	105.6	104.8
Business equipment		9.06	92.4	94.1	94.7	94.6	94.5	95.8	95.9	97.0	97.7
Transit		1.88	83.3	84.9	87.7	90.3	90.2	92.4	93.1	95.9	97.5
Information processing Industrial and other		2.51 4.67	109.1 87.7	110.4 89.6	110.5 89.5	111.1 88.1	110.1 88.3	110.6 89.6	109.6 89.9	112.0 89.7	113.2 89.9
Defense and space equipment		2.36	115.3	116.2	116.7	116.8	117.0	117.5	115.8	116.2	118.0
Construction supplies Business supplies		4.08 10.06	74.4 87.6	74.9 87.2	74.4 87.1	75.2 87.8	75.2 87.4	76.3 87.8	76.4 87.5	77.1 88.3	76.9 87.9
Materials		44.76	94.6	94.5	94.1	95.1	94.6	94.4	94.9	95.8	95.9
Non-energy		27.26	87.8	88.8	88.5	89.3	88.5	88.5	88.8	89.2	89.3
Durable		15.40	86.2	88.3	88.2	88.9	88.4	89.1	89.5	90.0	90.6
Consumer parts		2.02	66.6	67.2	68.2	69.6	66.2	65.5	67.3	68.1	68.0
Equipment parts		5.71	99.5	101.7	101.9	103.0	102.4	103.6	104.5	103.6	105.3
Other Nondurable		7.67 11.87	83.5 90.2	85.9 89.7	85.3 89.1	85.7 89.9	86.0 88.8	86.8 87.9	86.5 87.9	87.8 88.1	87.8 87.8
Textile		.47	85.6	82.5	85.8	82.5	86.1	86.8	87.4	87.7	86.2
Paper		2.30	86.3	86.9	85.8	85.7	85.6	84.3	84.2	84.8	84.2
Chemical		5.44	88.5	87.7	86.8	88.8	86.8	85.4	85.1	85.7	85.5
Energy		17.50	106.2	104.0	103.4	104.9	104.9	104.3	105.3	107.0	107.0
INDUSTRY GROUPS											
Manufacturing		74.67	88.8	89.4	89.5	90.1	89.6	89.7	89.8	90.3	90.7
Manufacturing (NAICS)	31–33	71.48	89.6	90.3	90.5	91.1	90.7	90.8	90.9	91.4	91.8
Durable manufacturing	221	35.68	88.4	89.9	90.6	91.3	90.5	91.2	91.3	92.2	92.9
Wood products Nonmetallic mineral products	321 327	.93 1.57	71.0 67.7	71.8 66.6	71.4 67.9	73.2 68.2	71.4 68.8	71.7 70.2	70.0 70.3	70.3 71.2	69.7 71.0
Primary metals	331	2.19	88.6	90.1	89.3	91.7	91.1	90.4	90.4	91.0	92.1
Fabricated metal products	332	5.14	83.1	83.6	83.9	84.9	85.7	86.6	88.0	88.7	88.7
Machinery	333	4.63	87.0	90.3	90.0	89.1	88.6	90.0	91.3	90.9	90.5
Computer and electronic products	334	6.51	113.2	115.3	115.5	115.3	114.7	115.3	114.3	115.2	116.7
Electrical equip., appliances,	22-	1.71	00.0	01.1	01.0	01.5	7 0.0	70.6	70. 1	70.0	=0=
and components	335	1.74	80.8	81.1	81.3	81.5	79.9	79.6	79.4	78.0	78.7
Motor vehicles and parts Aerospace and miscellaneous	3361–3	4.50	76.5	79.5	82.5	85.0	79.4	79.0	78.3	81.8	83.2
transportation equipment	3364-9	4.20	93.8	94.3	94.8	96.0	98.3	99.5	100.5	101.6	103.8
Furniture and related products	337	1.04	67.0	67.1	67.6	70.0	69.0	70.5	68.0	68.8	69.7
Miscellaneous	339	3.22	98.3	99.6	101.5	100.5	100.5	101.1	101.9	101.9	102.3
Nondurable manufacturing		35.80	91.2	91.0	90.6	91.2	91.0	90.7	90.6	90.9	90.9
Food, beverage, and tobacco products	311,2	11.70	99.4	99.8	99.2	99.0	99.7	98.9	98.9	99.3	99.1
Textile and product mills	313,4	.74	77.5	75.8	78.3	76.5	78.1	78.2	78.5	78.5	77.7
Apparel and leather	315,6	.29	64.8	64.8	65.1	63.4	64.2	64.5	64.3	64.0	63.8
Paper Printing and support	322	2.75	90.0	90.7	89.1	89.4	88.6	87.7 74.6	87.5	87.4	87.1
Printing and support Petroleum and coal products	323 324	1.57 3.81	98.9	73.9 95.9	74.7 95.3	74.4 97.5	74.7 95.4	74.6 97.4	73.6 98.8	74.4 99.0	73.8 100.0
Chemicals	324	11.88	88.5	88.3	88.0	89.5	88.8	87.9	87.8	87.5	87.8
Plastics and rubber products	326	3.06	85.7	86.5	86.4	86.2	86.9	87.2	86.5	88.0	87.8
Other manufacturing (non-NAICS)	1133,5111	3.19	72.7	72.4	71.2	70.3	69.9	69.9	68.5	68.9	69.5
Mining	21	13.94	104.6	104.0	102.5	104.2	104.9	105.5	106.0	107.2	108.5
			105.1	103.4	101.0	100.7	99.7	100.5	100.4	103.3	100.2
Utilities	2211,2	11.39									
Utilities Electric Natural gas	2211,2 2211 2212	9.73 1.66	103.1	102.5 107.9	100.7	100.7	100.2	99.9	100.4	103.5 103.6 100.4	100.1

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

 Table 5

 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

 2007 = 100, seasonally adjusted

707 = 100, seasonarry adjusted											
Item		2010 proportion	2010 Dec.	2011 Jan.	Feb.	Mar. ^r	Apr.r	May ^r	June ^r	July ^r	Aug. ^p
Total industry		100.00	92.6	92.8	92.5	93.1	92.7	93.0	93.0	93.9	94.0
•											
Energy		27.15	106.0	104.0	102.7	103.8	103.3	103.8	104.4	106.0	105.7
Consumer products		5.92	109.3	107.8	103.9	102.9	101.8	104.7	104.2	105.6	104.8
Commercial products	212111	3.17	103.1	100.6	99.5	102.3	100.2	101.6	101.9	103.3	101.5
Oil and gas well drilling	213111	.56	88.4	91.1	91.5	91.8	95.1	98.2	98.4	100.9	103.0
Converted fuel		4.37	101.4	99.0	96.3	97.1	98.3	99.1	99.4	101.4	99.4
Primary energy		13.12	107.7	105.5	105.6	107.4	106.9	105.9	107.2	108.7	109.5
Non-energy		72.85	88.2	89.1	89.1	89.6	89.2	89.4	89.3	89.9	90.2
Selected high-technology industries		3.56	122.7	125.3	124.9	124.2	123.9	124.2	124.4	123.3	125.2
Computers and peripheral equipment	3341	.77	144.9	142.9	139.0	137.3	137.0	137.8	139.9	142.5	144.7
Communications equipment	3342	.73	87.8	90.4	91.6	91.7	90.4	89.7	89.6	89.9	90.4
Semiconductors and related											
electronic components	334412–9	2.06	130.2	134.3	134.3	133.5	133.6	134.2	134.0	131.0	133.4
Excluding selected high-technology											
industries		69.29	86.4	87.3	87.3	87.8	87.4	87.6	87.5	88.1	88.4
Motor vehicles and parts	3361-3	4.50	76.5	79.5	82.5	85.0	79.4	79.0	78.3	81.8	83.2
Motor vehicles	3361	2.36	81.3	85.6	90.5	94.9	86.0	85.8	84.6	90.8	93.3
Motor vehicle parts	3363	1.84	70.2	70.8	71.7	72.5	69.4	68.6	68.7	69.7	70.3
Excluding motor vehicles and parts		64.79	87.2	87.9	87.6	88.0	88.1	88.3	88.2	88.6	88.8
Consumer goods		20.21	89.6	90.0	89.6	89.8	90.4	90.1	89.8	89.8	90.0
Business equipment		7.29	90.1	91.5	91.9	91.2	91.8	93.2	93.4	94.4	95.2
Construction supplies		4.06	74.2	74.7	74.2	75.0	75.0	76.1	76.2	76.9	76.7
Business supplies		6.64	80.9	81.3	81.5	81.5	81.7	81.6	81.2	81.8	81.9
Materials		24.22	86.9	87.7	87.3	88.2	87.6	87.7	87.9	88.4	88.4
Measures excluding selected high-technology											
industries											
Total industry											
		96.44	91.4	91.6	91.2	91.9	91.5	91.8	91.8	92.7	
Manufacturing ¹		71.11	87.1	87.6	87.7	88.4	87.9	88.0	88.0	88.6	89.0
Durable											89.0
Durable Measures excluding motor vehicles and parts		71.11 32.26	87.1 84.8	87.6 86.1	87.7 86.9	88.4 87.7	87.9 87.0	88.0 87.6	88.0 87.8	88.6 88.7	89.0 89.4
Durable Measures excluding motor vehicles and parts Total industry		71.11 32.26 95.50	87.1 84.8 93.4	87.6 86.1 93.5	87.7 86.9 92.9	88.4 87.7 93.5	87.9 87.0 93.4	88.0 87.6	88.0 87.8	88.6 88.7 94.5	89.0 89.4 94.6
Durable Measures excluding motor vehicles and parts Total industry Manufacturing ¹		71.11 32.26 95.50 70.17	87.1 84.8 93.4 89.6	87.6 86.1 93.5 90.1	87.7 86.9 92.9 90.0	88.4 87.7 93.5 90.4	87.9 87.0 93.4 90.3	88.0 87.6 93.7 90.5	88.0 87.8 93.8 90.6	88.6 88.7 94.5 90.9	89.0 89.4 94.6 91.2
Durable Measures excluding motor vehicles and parts Total industry Manufacturing ¹ Durable		71.11 32.26 95.50	87.1 84.8 93.4	87.6 86.1 93.5	87.7 86.9 92.9	88.4 87.7 93.5	87.9 87.0 93.4	88.0 87.6	88.0 87.8	88.6 88.7 94.5	89.0 89.4 94.6 91.2
Durable Measures excluding motor vehicles and parts Total industry Manufacturing ¹ Durable Measures excluding selected high-technology	=	71.11 32.26 95.50 70.17	87.1 84.8 93.4 89.6	87.6 86.1 93.5 90.1	87.7 86.9 92.9 90.0	88.4 87.7 93.5 90.4	87.9 87.0 93.4 90.3	88.0 87.6 93.7 90.5	88.0 87.8 93.8 90.6	88.6 88.7 94.5 90.9	89.0 89.4 94.6 91.2
Durable Measures excluding motor vehicles and parts Total industry Manufacturing Durable Measures excluding selected high-technology industries and motor vehicles and parts		71.11 32.26 95.50 70.17 31.31	87.1 84.8 93.4 89.6 90.0	93.5 90.1 91.3	87.7 86.9 92.9 90.0 91.6	88.4 87.7 93.5 90.4 92.0	87.9 87.0 93.4 90.3 92.0	88.0 87.6 93.7 90.5 92.8	88.0 87.8 93.8 90.6 93.2	88.6 88.7 94.5 90.9 93.6	89.0 89.4 94.6 91.2 94.2
Durable Measures excluding motor vehicles and parts Total industry Manufacturing Durable Measures excluding selected high-technology industries and motor vehicles and parts		71.11 32.26 95.50 70.17	87.1 84.8 93.4 89.6	87.6 86.1 93.5 90.1	87.7 86.9 92.9 90.0	88.4 87.7 93.5 90.4	87.9 87.0 93.4 90.3	88.0 87.6 93.7 90.5	88.0 87.8 93.8 90.6	88.6 88.7 94.5 90.9	89.0 89.4 94.6 91.2 94.2
Durable Measures excluding motor vehicles and parts Total industry Manufacturing Durable Measures excluding selected high-technology industries and motor vehicles and parts Total industry Manufacturing Industry Manufacturing		71.11 32.26 95.50 70.17 31.31	87.1 84.8 93.4 89.6 90.0	87.6 86.1 93.5 90.1 91.3	87.7 86.9 92.9 90.0 91.6	88.4 87.7 93.5 90.4 92.0	87.9 87.0 93.4 90.3 92.0	88.0 87.6 93.7 90.5 92.8	88.0 87.8 93.8 90.6 93.2	88.6 88.7 94.5 90.9 93.6	89.0 89.4 94.6 91.2 94.2
Durable Measures excluding motor vehicles and parts Total industry Manufacturing Durable Measures excluding selected high-technology industries and motor vehicles and parts Total industry		71.11 32.26 95.50 70.17 31.31	87.1 84.8 93.4 89.6 90.0 92.2 87.9	87.6 86.1 93.5 90.1 91.3	87.7 86.9 92.9 90.0 91.6	88.4 87.7 93.5 90.4 92.0	87.9 87.0 93.4 90.3 92.0	88.0 87.6 93.7 90.5 92.8	88.0 87.8 93.8 90.6 93.2	88.6 88.7 94.5 90.9 93.6 93.3 89.1	89.0 89.4 94.6 91.2 94.2 93.4 89.4
Durable Measures excluding motor vehicles and parts Total industry Manufacturing ¹ Durable Measures excluding selected high-technology industries and motor vehicles and parts Total industry Manufacturing ¹ Stage-of-process components of non-energy		71.11 32.26 95.50 70.17 31.31	87.1 84.8 93.4 89.6 90.0	87.6 86.1 93.5 90.1 91.3	87.7 86.9 92.9 90.0 91.6	88.4 87.7 93.5 90.4 92.0	87.9 87.0 93.4 90.3 92.0	88.0 87.6 93.7 90.5 92.8	88.0 87.8 93.8 90.6 93.2	88.6 88.7 94.5 90.9 93.6	92.9 89.0 89.4 94.6 91.2 94.2 93.4 89.4

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Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

ercent												
Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2009	34.3	43.6	33.0	40.4	41.3	42.0	59.9	63.5	59.6	52.9	60.3	53.2
2010	64.7	52.6	65.7	68.6	66.7	53.2	60.3	52.9	51.6	57.7	54.8	59.3
2011	61.2	51.3	56.4	46.8	51.3	48.7	59.0					
Three months earlier												
2009	17.6	23.4	32.4	37.5	33.3	37.8	46.2	58.7	63.5	60.3	62.2	58.3
2010	70.2	62.2	65.7	63.8	74.0	65.4	62.5	57.7	58.3	53.8	55.4	58.3
2011	64.1	61.5	59.9	51.9	53.8	52.9	54.2					
Six months earlier												
2009	15.7	18.9	22.8	21.2	22.4	29.5	36.2	42.0	51.6	53.8	59.0	66.0
2010	68.6	67.6	67.6	75.0	72.8	72.4	67.9	68.3	64.7	61.5	57.4	60.9
2011	60.3	61.5	65.1	58.0	61.2	58.7	53.8					

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.

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

Table 7
CAPACITY UTILIZATION
Percent of capacity, seasonally adjusted

reference of expuerty, seasonary augusteu			1972-	1994-										
Item		2010	2010	95	2009	2010	2011		2011					
Item		proportion	ave.	high	low	04	O1 ^r	O2r	Mar. ^r	Apr.r	May ^r	June ^r	July	Aug.p
		I I				_					,			
Total industry		100.00	80.4	85.1	67.3	76.1	76.8	76.7	77.0	76.6	76.7	76.7	77.3	77.4
Manufacturing ¹		77.87	79.0	84.7	64.4	73.3	74.5	74.4	74.8	74.4	74.4	74.4	74.7	75.0
Manufacturing (NAICS)	31–33	74.31	78.8	84.8	64.2	73.6	74.9	74.4	75.3	74.9	74.4	74.4	75.3	75.5
Manufacturing (NAICS)	31-33	/4.31	/0.0	04.0	04.2	/3.0	74.9	74.9	13.3	74.9	74.9	74.9	13.3	13.3
Durable manufacturing		39.68	77.2	83.8	59.0	70.6	72.8	72.8	73.3	72.6	72.9	73.0	73.5	74.0
Wood products	321	1.19	77.8	87.1	50.9	60.8	62.9	62.3	63.9	62.5	62.9	61.6	62.0	61.6
Nonmetallic mineral products	327	2.39	75.9	82.7	45.6	51.8	51.0	53.1	51.6	52.3	53.4	53.6	54.5	54.5
Primary metals	331	2.37	79.4	94.0	49.4	68.7	72.4	72.6	73.4	73.0	72.4	72.4	72.9	73.9
Fabricated metal products	332	5.62	77.2	85.6	60.5	72.9	74.9	77.6	75.7	76.5	77.4	78.8	79.5	79.6
Machinery	333	4.99	78.1	87.1	61.1	74.2	78.6	78.7	78.0	77.5	78.7	79.9	79.5	79.1
Computer and electronic products	334	6.72	78.1	84.9	68.6	78.6	79.9	77.8	79.4	78.4	78.1	76.9	76.8	77.2
Electrical equip., appliances,														
and components	335	1.78	82.7	92.9	66.8	76.1	76.6	75.3	76.9	75.4	75.2	75.2	73.9	74.7
Motor vehicles and parts	3361-3	5.69	75.3	87.4	34.8	61.3	65.1	62.0	67.1	62.5	62.1	61.4	64.0	65.0
Aerospace and miscellaneous														
transportation equipment	3364-9	4.45	73.0	68.9	70.6	71.3	71.7	74.8	72.4	74.0	74.9	75.5	76.3	77.9
Furniture and related products	337	1.21	77.5	82.5	59.2	66.7	68.3	69.5	70.1	69.2	70.9	68.4	69.4	70.4
Miscellaneous	339	3.26	76.0	80.6	68.8	76.5	78.5	78.6	78.4	78.3	78.6	79.0	78.8	79.0
Wilsechaneous	337	3.20	70.0	00.0	00.0	70.5	70.5	70.0	70.4	70.5	70.0	77.0	70.0	77.0
Nondurable manufacturing		34.63	81.1	86.1	69.8	77.0	77.4	77.2	77.7	77.5	77.1	77.1	77.2	77.2
Food, beverage, and tobacco products	311,2	11.15	81.2	86.1	74.5	79.0	78.5	78.0	78.1	78.5	77.8	77.6	77.8	77.5
Textile and product mills	313,4	.89	80.4	92.4	53.2	64.0	64.9	66.4	64.7	66.2	66.4	66.8	66.9	66.3
Apparel and leather	315,6	.33	78.2	87.3	62.7	69.1	70.3	70.4	69.3	70.2	70.6	70.3	70.1	69.9
Paper	322	2.48	87.1	92.6	71.7	83.2	83.9	82.4	83.7	83.0	82.1	82.0	81.9	81.7
Printing and support	323	1.85	82.2	85.8	63.4	64.0	63.8	63.9	63.9	64.2	64.2	63.4	64.1	63.6
Petroleum and coal products	324	3.03	85.8	90.9	78.3	85.5	84.2	84.9	85.3	83.5	85.1	86.2	86.3	87.1
Chemicals	325	11.59	78.0	81.8	66.2	76.3	77.7	77.3	78.5	77.8	77.0	76.9	76.7	76.9
Plastics and rubber products	326	3.32	82.3	92.5	57.5	71.6	73.1	74.0	73.0	73.9	74.3	73.8	75.3	75.3
Other manufacturing (non-NAICS)	1133,5111	3.56	83.4	83.2	69.0	66.6	65.4	63.8	64.5	64.2	64.3	63.0	63.4	64.0
N. 4	21	11.72	07.4	00.5	70.0	00.1	07.7	00.7	00.0	88.4	00.7	00.0	90.0	00.0
Mining Utilities	21 2211.2	11.73 10.40	87.4	88.5	79.0 79.2	89.1 81.1	87.7 80.6	88.7 79.0	88.0 79.6	78.7	88.7 79.3	89.0 79.1	89.9 81.2	90.8 78.7
Utilities	2211,2	10.40	86.6	93.3	19.2	81.1	80.6	79.0	/9.6	/8./	19.3	/9.1	81.2	/8./
		2.74	70.2	06.0	70.0	70.0	70.7	765	70.5	77.0	76.6	75.7	74.0	74.1
Selected high-technology industries	2241	3.74	78.3	86.9	70.9	78.9	79.7	76.5	78.5	77.3	76.6	75.7	74.0	74.1
Computers and peripheral equipment	3341	.74	78.5	87.3	82.5	83.4	77.4	74.8	75.3	74.5	74.5	75.3	76.4	77.3
Communications equipment	3342	.75	76.7	83.8	78.8	75.6	76.4	74.0	76.4	74.9	73.9	73.3	73.2	73.2
Semiconductors and related	224442 =		00.5	00.5		70.5	04.6	5 0.4	00.5	5 0 -	5 0 -	(50 6	50 6
electronic components	334412–9	2.25	80.3	92.2	63.1	78.6	81.9	78.4	80.7	79.6	78.6	77.1	73.9	73.8
Measures excluding selected high-technology industries														
Total industry		96.26	80.5	85.0	67.1	76.0	76.7	76.6	76.9	76.5	76.7	76.7	77.4	77.4
Manufacturing ¹		74.13	79.0	84.5	64.0	73.0	74.2	74.3	74.6	74.2	74.3	74.3	74.7	75.0
STAGE-OF-PROCESS GROUPS														
Crude		15.38	86.4	89.6	77.6	87.1	86.9	86.9	87.3	87.1	86.7	87.0	87.6	88.1
Primary and semifinished		45.86	81.3	87.9	64.9	73.2	74.0	73.8	74.1	73.6	73.9	74.0	74.7	74.4
Finished		38.77	77.3	80.7	66.8	74.8	75.9	75.8	76.1	75.8	75.8	75.6	76.0	76.4
1 moneu		36.77	11.3	00.7	00.0	74.0	13.3	13.0	70.1	13.0	13.0	15.0	70.0	70.4

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1. Refer to note on cover page.

Table 8 INDUSTRIAL CAPACITY

Percent change

													Monthly
	1	Average aı	nnual rate		Fourth	quarter to	o fourth q	uarter		Annua	l rate		rate
Item	1972-	1980-	1989-	1995-					2010	2011			2011
	79	88	94	2011	2008	2009	2010	2011	Q4	Q1	Q2	Q3	Aug.
Total industry	3.1	1.9	2.2	2.3	.2	-1.1	-1.8	1.1	1	.9	1.3	1.3	.1
Manufacturing ¹	3.3	2.2	2.5	2.5	6	-2.8	-2.0	.8	6	.3	.8	1.1	.1
Mining Utilities	.7 4.2	.1 2.1	6 1.8	.0 2.2	2.6 2.4	3.4 .5	9 3.6	2.1 2.0	1.2 4.0	2.3 3.1	2.5 2.1	2.1 1.4	.2 .1
Selected high-technology industries	19.6	17.3	15.6	20.9	1	10.0	4.1	15.2	5.5	10.4	14.9	17.6	1.4
Manufacturing ¹ ex. selected high-technology industries	2.6	1.3	1.6	.9	7	-3.6	-2.3	.1	9	2	.2	.3	.0
STAGE-OF-PROCESS GROUPS Crude Primary and semifinished Finished	1.6 3.0 3.9	.4 1.3 3.3	5 2.5 2.6	.1 2.7 2.4	2.3 .0 8	.9 -2.3 -2.1	9 -2.1 7	1.5 .2 2.0	1.2 8 .7	1.9 1 1.4	1.9 .3 1.9	1.4 .4 2.2	.1 .0 .2
	3.7	5.5	2.0	2.1		2.1	.,	2.0	.,	1	1.7	2.2	

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

Table 9
GROSS VALUE OF FINAL PRODUCTS AND NONINDUSTRIAL SUPPLIES
Billions of 2005 dollars at annual rate, seasonally adjusted

· · · · · · · · · · · · · · · · · · ·	nany adjusted		2010	2011		2011					
Item	2005	2010	Q4	Q1 ^r	Q2 ^r	Mar. ^r	Apr.r	May ^r	June ^r	July ^r	Aug.
Final products and nonindustrial											
supplies	3,336.9	3,159.9	3,209.4	3,246.5	3,247.9	3,261.7	3,229.2	3,255.6	3,258.8	3,279.4	3,294.
Final products	2,477.7	2,428.8	2,472.1	2,504.5	2,502.1	2,512.6	2,486.9	2,508.4	2,510.9	2,527.4	2,543.
Consumer goods	1,835.2	1,775.2	1,795.1	1,807.8	1,799.0	1,813.4	1,790.6	1,802.1	1,804.4	1,816.4	1,828.
Durable	495.3	416.6	421.0	443.4	436.6	453.8	436.9	438.6	434.4	448.8	458.
Automotive products	288.3	262.1	264.6	283.4	277.0	292.0	277.7	278.0	275.3	288.3	297.
Other durable goods	207.0	154.9	156.9	160.6	160.1	162.4	159.7	161.1	159.6	161.1	161.
Nondurable	1,339.9	1,351.8	1,367.2	1,361.3	1,358.2	1,358.4	1,350.1	1,359.6	1,365.0	1,365.3	1,369.
Equipment, total	642.5	652.6	677.3	698.8	706.6	701.4	699.3	710.2	710.2	714.8	718.
Business and defense	619.1	634.1	658.4	678.8	685.0	681.1	678.3	688.6	688.2	692.6	696.
Business	539.2	524.5	547.7	568.3	574.2	570.4	567.1	577.0	578.4	582.5	584.
Defense and space	79.9	107.0	108.4	108.7	109.1	108.8	109.3	109.8	108.3	108.6	110.
Nonindustrial supplies	859.2	734.7	741.2	746.2	749.8	753.1	746.3	751.2	752.0	756.0	755.
Construction supplies	270.2	200.2	205.6	207.3	209.7	208.4	208.4	210.1	210.6	211.7	211.
Business supplies	589.1	534.7	535.8	539.1	540.4	544.8	538.1	541.4	541.6	544.5	544.
Commercial energy products	210.9	213.0	213.2	212.6	214.2	217.1	210.9	214.9	216.7	216.9	216.

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

Percent change, seasonally adjusted														
		Fou	rth quarte	er to										
		fo	urth quar	ter		Annual ra	ate			Month	nly rate			Aug. '10
Item	2010				2010	2011		2011						to
	gross value ¹	2008	2009	2010	Q4	Q1 ^r	Q2 ^r	Mar.r	Apr.r	May ^r	June ^r	July ^r	Aug.p	Aug. '11
Finished	1882.5	-10.5	-3.0	7.1	3.9	9.5	.8	.5	7	.5	.0	.7	.8	5.4
Semifinished	1522.1	-11.4	-9.3	6.0	5	6.4	2.8	.2	.2	.7	.0	.9	5	2.6
Primary	1305.0	-8.6	-3.4	5.4	3.4	2	-3.6	1.7	-2.2	.4	.8	.4	.6	1.8
Crude	623.9	-10.0	4	5.0	2.6	4.4	-3.5	1.8	-1.2	8	.3	.6	.0	1.5

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^{1.} Billions of 2005 dollars.

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

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ¹																	
1989	.3	4	.3	.0	7	.1	-1.0	.9	3	1	.3	.6	1.7	-1.4	-2.6	1.6	.9
1990	6	.9	.5	1	.2	.3	1	.2	.2	8	-1.2	7	2.9	3.0	1.7	-6.2	1.0
1991	4	7	5	.2	1.0	1.0	.0	.1	.9	2	1	3	-7.4	2.5	5.5	.8	-1.5
1992	6	.8	.8	.7	.3	.0	.9	5	.2	.7	.4	.0	4	7.2	2.9	4.1	2.8
1993	.5	.4	.0	.3	4	.2	.3	.0	.5	.7	.4	.5	3.6	1.0	2.0	6.1	3.3
1994	.4	.0	1.0	.5	.5	.7	.2	.6	.2	.8	.6	1.1	5.2	7.4	5.1	8.2	5.3
1995	.3 6	.0 1.6	.2 1	1 .8	.2 .7	.3 .9	4 1	1.3	.3	2 .0	.2	.4	5.1	1.2 8.5	3.7 5.4	3.0	4.7
1996 1997	0	1.0	1	.0	.7	.5	1 .6	1.3	.9	.7	.o .9	.6 .4	7.8	6.5	9.6	5.4 10.1	4.4 7.2
1998	.5	.1	.1	.4	.7	6	4	2.2	3	.8	1	.3	4.4	2.9	3.0	5.7	5.8
1999	.4	.4	.2	.2	.8	1	.7	.4	3	1.3	.5	.8	3.8	3.9	4.1	7.5	4.3
2000	.1	.4	.4	.6	.1	.1	3	2	.5	4	.0	3	4.7	4.5	6	-1.1	4.0
2001	7	6	3	2	7	6	5	3	4	5	5	.0	-5.5	-5.2	-5.7	-4.7	-3.4
2002	.6	.0	.8	.4	.6	.9	3	.2	.1	4	.5	5	2.8	6.7	2.6	4	.2
2003	.8	.3	2	8	.0	.0	.3	1	.6	.0	.8	.0	3.0	-3.1	2.0	3.4	1.3
2004	.3	.6	6	.4	.7	9	.7	.3	.0	1.0	.2	.7	2.8	1.7	2.1	5.8	2.3
2005	.5	.7	1	.0	.2	.4	2	.1	-2.0	1.2	1.0	.6	6.1	1.7	-1.7	3.1	3.2
2006	.2	.1	.2	.4	2	.4	.2	.2	1	.0	1	1.1	4.0	2.4	1.8	1.0	2.2
2007	3	1.1	.0	.8	1	.0	.1	.0	.5	6	.4	.2	4.5	4.5	1.1	.1	2.7
2008	3	2	4	9	6	3	4	-1.7	-4.1	.9	-1.3	-2.6	-1.2	-6.6	-12.2	-15.7	-3.7
2009	-2.1	5	-1.7	9	-1.1	4	1.1	.9	.7	.3	.2	.6	-18.9	-11.5	5.3	5.6	-11.2
2010	1.2	.2	.5	.4	1.3	.1	.9	.2	.3	1	.3	1.3	8.1	7.1	6.7	3.1	5.3
2011	.2	4	.7	4	.3	.1	.9	.2					4.8	.5			
IP (2007=100)																	
2009	87.5	87.0	85.5	84.8	83.9	83.5	84.4	85.2	85.8	86.0	86.2	86.7	86.7	84.1	85.2	86.3	85.5
2010 2011	87.7 92.8	87.9 92.5	88.4 93.1	88.7 92.7	89.9 93.0	90.0 93.0	90.8 93.9	91.0 94.0	91.2	91.1	91.4	92.6	88.0 92.8	89.5 92.9	91.0	91.7	90.1
Capacity (percent of 2007 output) 2009 2010	124.2 122.1	124.3 121.8	124.3 121.5	124.3 121.2	124.2 121.0	124.1 120.8	123.9 120.6	123.6 120.5	123.4 120.5	123.1 120.5	122.8 120.5	122.4 120.6	124.3 121.8	124.2 121.0	123.6 120.6	122.8 120.5	123.7 121.0
2011	120.7	120.8	120.9	121.0	121.2	121.3	121.5	121.6	120.5	120.5	120.5	120.0	120.8	121.2	120.0	120.5	121.0
Utilization																	
(percent)	95.3	047	04.0	047	04.0	02.0	02.0	02.4	92.0	00.7	02.0	02.1	04.0	04.2	02.1	92.0	02.0
1989 1990	85.2 82.5	84.7 83.0	84.8 83.3	84.7 83.0	84.0 83.0	83.9 83.1	82.9 82.9	83.4 82.9	83.0 83.0	82.7 82.2	82.8 81.1	83.1 80.4	84.9 82.9	84.2 83.0	83.1 82.9	82.9 81.2	83.8 82.5
1991	79.9	79.3	78.8	78.8	79.5	80.2	80.1	80.1	80.7	80.5	80.3	79.9	79.3	79.5	80.3	80.2	79.8
1992	79.3	79.8	80.3	80.7	80.8	80.7	81.2	80.6	80.6	81.0	81.2	81.0	79.8	80.7	80.8	81.1	80.6
1993	81.3	81.4	81.3	81.4	81.0	81.1	81.3	81.1	81.4	81.9	82.0	82.3	81.3	81.2	81.3	82.1	81.5
1994	82.5	82.3	83.0	83.2	83.4	83.7	83.6	83.8	83.8	84.2	84.4	85.1	82.6	83.5	83.7	84.6	83.6
1995	85.0	84.7	84.6	84.2	84.1	84.1	83.4	84.2	84.2	83.7	83.5	83.5	84.8	84.1	83.9	83.6	84.1
	82.6	83.6	83.1	83.5	83.6	84.0	83.5	83.7	83.7	83.3	83.6	83.7	83.1	83.7	83.6	83.6	83.5
1996					0.4.0	83.9	83.9	84.5	84.7	84.7	84.9	84.7	83.9	83.9	84.4	84.8	84.2
	83.4	84.0	84.2	83.8	84.0	05.7											
1997	83.4 84.5			83.8 83.3	83.3	82.3	81.5	82.8	82.1	82.4	81.9	81.8	84.0	83.0	82.2	82.1	
1997 1998 1999	84.5 81.8	84.0 84.0 81.8	84.2 83.5 81.6	83.3 81.5	83.3 81.7	82.3 81.3	81.5 81.6	81.6	81.1	81.8	81.9	82.2	81.7	81.5	81.4	82.0	82.8 81.7
1997 1998 1999 2000	84.5 81.8 82.0	84.0 84.0 81.8 82.0	84.2 83.5 81.6 82.1	83.3 81.5 82.3	83.3 81.7 82.1	82.3 81.3 81.9	81.5 81.6 81.5	81.6 81.0	81.1 81.2	81.8 80.6	81.9 80.4	82.2 79.8	81.7 82.1	81.5 82.1	81.4 81.2	82.0 80.3	82.8 81.7 81.4
1997 1998 1999 2000 2001	84.5 81.8 82.0 79.1	84.0 84.0 81.8 82.0 78.4	84.2 83.5 81.6 82.1 77.9	83.3 81.5 82.3 77.5	83.3 81.7 82.1 76.8	82.3 81.3 81.9 76.1	81.5 81.6 81.5 75.6	81.6 81.0 75.1	81.1 81.2 74.7	81.8 80.6 74.2	81.9 80.4 73.6	82.2 79.8 73.5	81.7 82.1 78.5	81.5 82.1 76.8	81.4 81.2 75.1	82.0 80.3 73.8	82.8 81.7 81.4 76.0
1997 1998 1999 2000 2001 2002	84.5 81.8 82.0 79.1 73.8	84.0 84.0 81.8 82.0 78.4 73.7	84.2 83.5 81.6 82.1 77.9 74.2	83.3 81.5 82.3 77.5 74.4	83.3 81.7 82.1 76.8 74.8	82.3 81.3 81.9 76.1 75.4	81.5 81.6 81.5 75.6 75.2	81.6 81.0 75.1 75.3	81.1 81.2 74.7 75.4	81.8 80.6 74.2 75.1	81.9 80.4 73.6 75.5	82.2 79.8 73.5 75.1	81.7 82.1 78.5 73.9	81.5 82.1 76.8 74.9	81.4 81.2 75.1 75.3	82.0 80.3 73.8 75.2	82.8 81.7 81.4 76.0 74.8
1997 1998 1999 2000 2001 2002 2003	84.5 81.8 82.0 79.1 73.8 75.7	84.0 84.0 81.8 82.0 78.4 73.7 76.0	84.2 83.5 81.6 82.1 77.9 74.2 75.9	83.3 81.5 82.3 77.5 74.4 75.4	83.3 81.7 82.1 76.8 74.8 75.4	82.3 81.3 81.9 76.1 75.4 75.5	81.5 81.6 81.5 75.6 75.2 75.7	81.6 81.0 75.1 75.3 75.7	81.1 81.2 74.7 75.4 76.2	81.8 80.6 74.2 75.1 76.2	81.9 80.4 73.6 75.5 76.8	82.2 79.8 73.5 75.1 76.8	81.7 82.1 78.5 73.9 75.9	81.5 82.1 76.8 74.9 75.4	81.4 81.2 75.1 75.3 75.9	82.0 80.3 73.8 75.2 76.6	82.8 81.7 81.4 76.0 74.8 75.9
1997 1998 1999 2000 2001 2002 2002 2003	84.5 81.8 82.0 79.1 73.8 75.7	84.0 84.0 81.8 82.0 78.4 73.7 76.0	84.2 83.5 81.6 82.1 77.9 74.2 75.9	83.3 81.5 82.3 77.5 74.4 75.4	83.3 81.7 82.1 76.8 74.8 75.4	82.3 81.3 81.9 76.1 75.4 75.5	81.5 81.6 81.5 75.6 75.2 75.7	81.6 81.0 75.1 75.3 75.7	81.1 81.2 74.7 75.4 76.2	81.8 80.6 74.2 75.1 76.2	81.9 80.4 73.6 75.5 76.8	82.2 79.8 73.5 75.1 76.8	81.7 82.1 78.5 73.9 75.9	81.5 82.1 76.8 74.9 75.4	81.4 81.2 75.1 75.3 75.9	82.0 80.3 73.8 75.2 76.6	82.8 81.7 81.4 76.0 74.8 75.9
1997 1998 1999 2000 2001 2002 2003 2004 2005	84.5 81.8 82.0 79.1 73.8 75.7 77.0 79.8	84.0 84.0 81.8 82.0 78.4 73.7 76.0 77.4 80.3	84.2 83.5 81.6 82.1 77.9 74.2 75.9 77.0 80.1	83.3 81.5 82.3 77.5 74.4 75.4 77.3 80.1	83.3 81.7 82.1 76.8 74.8 75.4 77.9 80.2	82.3 81.3 81.9 76.1 75.4 75.5	81.5 81.6 81.5 75.6 75.2 75.7	81.6 81.0 75.1 75.3 75.7 78.0 80.2	81.1 81.2 74.7 75.4 76.2 77.9 78.5	81.8 80.6 74.2 75.1 76.2 78.7 79.4	81.9 80.4 73.6 75.5 76.8 78.8 80.0	82.2 79.8 73.5 75.1 76.8 79.4 80.4	81.7 82.1 78.5 73.9 75.9	81.5 82.1 76.8 74.9 75.4 77.5 80.2	81.4 81.2 75.1 75.3 75.9 77.9 79.6	82.0 80.3 73.8 75.2 76.6	82.8 81.7 81.4 76.0 74.8 75.9 77.9 79.9
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	84.5 81.8 82.0 79.1 73.8 75.7 77.0 79.8 80.4	84.0 84.0 81.8 82.0 78.4 73.7 76.0 77.4 80.3 80.3	84.2 83.5 81.6 82.1 77.9 74.2 75.9 77.0 80.1 80.4	83.3 81.5 82.3 77.5 74.4 75.4 77.3 80.1 80.6	83.3 81.7 82.1 76.8 74.8 75.4 77.9 80.2 80.3	82.3 81.3 81.9 76.1 75.4 75.5 77.2 80.4 80.5	81.5 81.6 81.5 75.6 75.2 75.7 77.8 80.2 80.5	81.6 81.0 75.1 75.3 75.7 78.0 80.2 80.5	81.1 81.2 74.7 75.4 76.2 77.9 78.5 80.3	81.8 80.6 74.2 75.1 76.2 78.7 79.4 80.1	81.9 80.4 73.6 75.5 76.8 78.8 80.0 79.9	82.2 79.8 73.5 75.1 76.8 79.4 80.4 80.5	81.7 82.1 78.5 73.9 75.9 77.1 80.1 80.4	81.5 82.1 76.8 74.9 75.4 77.5 80.2 80.5	81.4 81.2 75.1 75.3 75.9 77.9 79.6 80.4	82.0 80.3 73.8 75.2 76.6 79.0 79.9 80.2	82.8 81.7 81.4 76.0 74.8 75.9 77.9 80.4
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	84.5 81.8 82.0 79.1 73.8 75.7 77.0 79.8	84.0 84.0 81.8 82.0 78.4 73.7 76.0 77.4 80.3	84.2 83.5 81.6 82.1 77.9 74.2 75.9 77.0 80.1	83.3 81.5 82.3 77.5 74.4 75.4 77.3 80.1	83.3 81.7 82.1 76.8 74.8 75.4 77.9 80.2	82.3 81.3 81.9 76.1 75.4 75.5	81.5 81.6 81.5 75.6 75.2 75.7	81.6 81.0 75.1 75.3 75.7 78.0 80.2	81.1 81.2 74.7 75.4 76.2 77.9 78.5	81.8 80.6 74.2 75.1 76.2 78.7 79.4	81.9 80.4 73.6 75.5 76.8 78.8 80.0	82.2 79.8 73.5 75.1 76.8 79.4 80.4	81.7 82.1 78.5 73.9 75.9	81.5 82.1 76.8 74.9 75.4 77.5 80.2	81.4 81.2 75.1 75.3 75.9 77.9 79.6	82.0 80.3 73.8 75.2 76.6	82.8 81.7 81.4 76.0 74.8 75.9 77.9 80.4 81.0
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	84.5 81.8 82.0 79.1 73.8 75.7 77.0 79.8 80.4 80.2 81.1	84.0 84.0 81.8 82.0 78.4 73.7 76.0 77.4 80.3 80.3 80.9 81.0	84.2 83.5 81.6 82.1 77.9 74.2 75.9 77.0 80.1 80.4 80.8 80.6	83.3 81.5 82.3 77.5 74.4 75.4 77.3 80.1 80.6 81.2 80.0	83.3 81.7 82.1 76.8 74.8 75.4 77.9 80.2 80.3 81.1 79.5	82.3 81.3 81.9 76.1 75.4 75.5 77.2 80.4 80.5 81.0 79.3	81.5 81.6 81.5 75.6 75.2 75.7 77.8 80.2 80.5 81.0 79.0	81.6 81.0 75.1 75.3 75.7 78.0 80.2 80.5 81.0 77.6	81.1 81.2 74.7 75.4 76.2 77.9 78.5 80.3 81.3 74.3	81.8 80.6 74.2 75.1 76.2 78.7 79.4 80.1 80.8 74.9	81.9 80.4 73.6 75.5 76.8 78.8 80.0 79.9 81.1 73.9	82.2 79.8 73.5 75.1 76.8 79.4 80.4 80.5 81.3 71.9	81.7 82.1 78.5 73.9 75.9 77.1 80.1 80.4 80.6 80.9	81.5 82.1 76.8 74.9 75.4 77.5 80.2 80.5 81.1 79.6	81.4 81.2 75.1 75.3 75.9 77.9 79.6 80.4 81.1 77.0	82.0 80.3 73.8 75.2 76.6 79.0 79.9 80.2 81.1 73.6	82.8 81.7 81.4 76.0 74.8 75.9 77.9 80.4 81.0 77.8
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	84.5 81.8 82.0 79.1 73.8 75.7 77.0 79.8 80.4 80.2	84.0 84.0 81.8 82.0 78.4 73.7 76.0 77.4 80.3 80.3 80.9	84.2 83.5 81.6 82.1 77.9 74.2 75.9 77.0 80.1 80.4 80.8	83.3 81.5 82.3 77.5 74.4 75.4 77.3 80.1 80.6 81.2	83.3 81.7 82.1 76.8 74.8 75.4 77.9 80.2 80.3 81.1	82.3 81.3 81.9 76.1 75.4 75.5 77.2 80.4 80.5 81.0	81.5 81.6 81.5 75.6 75.2 75.7 77.8 80.2 80.5 81.0	81.6 81.0 75.1 75.3 75.7 78.0 80.2 80.5 81.0	81.1 81.2 74.7 75.4 76.2 77.9 78.5 80.3 81.3	81.8 80.6 74.2 75.1 76.2 78.7 79.4 80.1 80.8	81.9 80.4 73.6 75.5 76.8 78.8 80.0 79.9 81.1	82.2 79.8 73.5 75.1 76.8 79.4 80.4 80.5 81.3	81.7 82.1 78.5 73.9 75.9 77.1 80.1 80.4 80.6	81.5 82.1 76.8 74.9 75.4 77.5 80.2 80.5 81.1	81.4 81.2 75.1 75.3 75.9 77.9 79.6 80.4 81.1	82.0 80.3 73.8 75.2 76.6 79.0 79.9 80.2 81.1	82.8 81.7 81.4 76.0 74.8 75.9 77.9 79.9 80.4 81.0

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

Table 12 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing ¹ Seasonally adjusted

Year																	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent change) ²																	
1989	.8	9	1	.2	8	.2	-1.1	.8	2	2	.2	.1	2.0	-2.7	-3.2	.3	.8
1990 1991	1 8	1.4 6	.5 7	3 .3	.2 .7	.3 1.1	1 .2	.2 .2	.0 1.1	8 2	-1.1 2	8 1	4.3 -8.8	2.9 1.9	1.1 7.2	-6.8 1.5	-2.0
1992	6	0	1.0	.5	.6	.3	.9	4	.0	2 .6	.4	1	-6.6	8.2	4.0	2.9	3.6
1993	1.0	.2	2	.5	1	1	.3	1	.6	.8	.4	.5	4.5	1.5	1.1	6.9	3.5
1994	.2	.1	1.3	.8	.7	.3	.4	.8	.3	1.0	.8	1.2	5.1	9.4	6.0	9.9	5.9
1995	.3	1	.3	2	.1	.5	6	1.1	.8	1	.0	.4	5.5	.6	3.0	3.8	5.2
1996	7	1.6	2	1.1	.7	1.1	.3	.6	.7	1	.8	.9	2.2	9.7	7.8	5.6	4.8
1997	.1	1.4	1.2	2	.9	.7	.5	1.6	.8	.6	1.1	.4	9.2	7.7	10.8	10.9	8.4
1998	.8	.1	1	.5	.6	7	5	2.6	3	1.0	.2	.5	6.0	2.4	3.3	7.8	6.0
1999	.2	.7	1	.4	.9 2	3	.5	.7	3	1.5	.6	.7	4.4	4.5 4.2	3.8	9.0	5.0
2000 2001	.2 6	.3 6	.6 3	.6 2	2	.2 7	.0 4	6 7	.5 2	4 7	3 3	7 .3	5.3 -6.4	-5.4	8 -6.3	-2.7 -4.5	4.2
2002	.5	1	.8	.2	.7	1.1	5	.4	.1	5	.5	5	3.3	6.1	3.4	5	-4.0
2003	.6	.2	.2	9	.1	.4	.1	3	.7	.0	1.0	2	2.3	-2.2	1.5	3.9	1.3
2004	.0	.7	3	.4	.7	8	.8	.7	1	1.1	1	.7	2.6	2.9	3.5	5.7	2.8
2005	.8	.8	5	.2	.4	.1	1	.2	-1.1	1.5	.8	.0	6.7	2.0	5	5.5	4.0
2006	.9	1	1	.6	4	.3	1	.4	.1	3	.1	1.6	4.0	1.0	1.1	1.8	2.5
2007	3	.5	.7	.7	2	.3	.3	5	.5	5	.3	.3	5.4	5.2	.8	2	2.9
2008	3	5	4	-1.2	6	6	-1.1	-1.4	-3.4	6	-2.4	-3.1	-2.0	-8.9	-13.9	-21.4	-5.0
2009	-2.7	.1	-2.0	8	-1.2	3	1.3	1.0	.8	.0	.8	.2	-22.2	-11.4	6.6	5.9	-13.5
2010 2011	1.0	.1	.9 .7	.7	1.1	1	.8	.1	.2	.2	.2	1.0	7.1 7.2	8.7	5.1	3.4	5.4
2011	.7	.1	./	5	.1	.0	.6	.3					1.2	.2			
IP (2007=100) 2009	026	83.7	82.0	81.4	80.4	80.1	81.2	81.9	82.6	82.6	83.3	83.4	83.1	80.6	81.9	83.1	82.2
2010	83.6 84.2	84.3	85.1	85.7	86.7	86.6	87.3	87.4	87.5	87.7	87.9	88.8	84.5	86.3	87.4	88.1	86.
2010	89.4	89.5	90.1	89.6	89.7	89.8	90.3	90.7	67.5	07.7	67.7	00.0	89.7	89.7	07.4	00.1	80.0
Capacity (percent of 2007 output) 2009	125.8	125.6	125.2	125.0	124.7	124.4	104.1	100.7	123.4	123.0	122.7	100.1					
		125.6	125.3	125.0	124.7	124.4	124.1	123.7				122.4	125.6	124.7	123.7	122.7	124.2
2010	122.0 120.3	121.7 120.3	121.4 120.4	121.2 120.5	124.7 120.9 120.6	120.7 120.7	124.1 120.6 120.8	120.4 120.9	120.3	120.3	120.2	122.4	125.6 121.7 120.3	124.7 120.9 120.6	123.7 120.4	122.7 120.3	124.2
2010 2011 Utilization (percent)	122.0	121.7	121.4	121.2	120.9	120.7	120.6	120.4					121.7	120.9			
2010 2011 Utilization	122.0	121.7	121.4	121.2	120.9	120.7	120.6	120.4					121.7	120.9			
2010 2011 Utilization (percent) 1989	122.0 120.3	121.7 120.3	121.4 120.4	121.2 120.5	120.9 120.6	120.7 120.7	120.6 120.8	120.4 120.9	120.3	120.3	120.2	120.2	121.7 120.3	120.9 120.6	120.4	120.3	120.
2010 2011 Utilization (percent) 1989 1990	122.0 120.3 85.5 81.6 78.5	121.7 120.3 84.6 82.5 77.9	121.4 120.4 84.4 82.7 77.3	121.2 120.5 84.3 82.3 77.4	120.9 120.6 83.5 82.3 77.8	120.7 120.7 83.5 82.3 78.6	120.6 120.8 82.3 82.1 78.7	120.4 120.9 82.8 82.1 78.8	82.4 81.9 79.5	82.1 81.1 79.3	82.0 80.0 79.0	81.9 79.3 78.8	121.7 120.3 84.8 82.3 77.9	120.9 120.6 83.8 82.3 78.0	82.5 82.0 79.0	82.0 80.1 79.0	83. 81. 78.
2010 2011 Utilization (percent) 1989 1990 1991 1992	122.0 120.3 85.5 81.6 78.5 78.2	121.7 120.3 84.6 82.5 77.9 78.8	121.4 120.4 84.4 82.7 77.3 79.4	121.2 120.5 84.3 82.3 77.4 79.6	120.9 120.6 83.5 82.3 77.8 79.9	120.7 120.7 83.5 82.3 78.6 79.9	120.6 120.8 82.3 82.1 78.7 80.4	120.4 120.9 82.8 82.1 78.8 79.9	82.4 81.9 79.5 79.7	82.1 81.1 79.3 80.0	82.0 80.0 79.0 80.1	81.9 79.3 78.8 79.8	121.7 120.3 84.8 82.3 77.9 78.8	120.9 120.6 83.8 82.3 78.0 79.8	82.5 82.0 79.0 80.0	82.0 80.1 79.0 80.0	83. 81. 78. 79.
2010 2011 Utilization (percent)	122.0 120.3 85.5 81.6 78.5	121.7 120.3 84.6 82.5 77.9	121.4 120.4 84.4 82.7 77.3	121.2 120.5 84.3 82.3 77.4	120.9 120.6 83.5 82.3 77.8	120.7 120.7 83.5 82.3 78.6	120.6 120.8 82.3 82.1 78.7	120.4 120.9 82.8 82.1 78.8	82.4 81.9 79.5	82.1 81.1 79.3	82.0 80.0 79.0	81.9 79.3 78.8	121.7 120.3 84.8 82.3 77.9	120.9 120.6 83.8 82.3 78.0	82.5 82.0 79.0	82.0 80.1 79.0	120. 83.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993	122.0 120.3 85.5 81.6 78.5 78.2 80.4 81.3	121.7 120.3 84.6 82.5 77.9 78.8 80.4 81.2	121.4 120.4 84.4 82.7 77.3 79.4 80.1 82.1	121.2 120.5 84.3 82.3 77.4 79.6 80.4 82.5	120.9 120.6 83.5 82.3 77.8 79.9 80.2 82.8	120.7 120.7 120.7 83.5 82.3 78.6 79.9 80.0 82.8	120.6 120.8 82.3 82.1 78.7 80.4 80.1 82.8	120.4 120.9 82.8 82.1 78.8 79.9 79.9 83.2	82.4 81.9 79.5 79.7 80.3 83.2	82.1 81.1 79.3 80.0 80.8 83.7	82.0 80.0 79.0 80.1 81.0 84.0	81.9 79.3 78.8 79.8 81.3 84.7	121.7 120.3 84.8 82.3 77.9 78.8 80.3 81.5	120.9 120.6 83.8 82.3 78.0 79.8 80.2 82.7	82.5 82.0 79.0 80.0 80.1 83.1	82.0 80.1 79.0 80.0 81.0	83. 81. 78. 79. 80.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994	85.5 81.6 78.5 78.2 80.4 81.3 84.6	121.7 120.3 84.6 82.5 77.9 78.8 80.4 81.2 84.2	84.4 82.7 77.3 79.4 80.1 82.1 84.1	84.3 82.3 77.4 79.6 80.4 82.5 83.6	83.5 82.3 77.8 79.9 80.2 82.8 83.3	120.7 120.7 120.7 83.5 82.3 78.6 79.9 80.0 82.8 83.3	82.3 82.1 78.7 80.4 80.1 82.8 82.5	82.8 82.1 78.8 79.9 79.9 83.2 83.1	82.4 81.9 79.5 79.7 80.3 83.2 83.4	82.1 81.1 79.3 80.0 80.8 83.7 82.9	82.0 80.0 79.0 80.1 81.0 84.0 82.5	81.9 79.3 78.8 79.8 81.3 84.7 82.4	121.7 120.3 84.8 82.3 77.9 78.8 80.3 81.5 84.3	83.8 82.3 78.0 79.8 80.2 82.7 83.4	82.5 82.0 79.0 80.0 80.1 83.1 83.0	82.0 80.1 79.0 80.0 81.0 84.1 82.6	83. 81. 78. 79. 80. 82.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996	85.5 81.6 78.2 80.4 81.3 84.6 81.4	84.6 82.5 77.9 88.0 80.4 81.2 82.3	84.4 82.7 77.3 79.4 80.1 82.1 84.1 81.7	84.3 82.3 77.4 79.6 80.4 82.5 83.6 82.2	83.5 82.3 77.8 80.2 82.8 83.3 82.3	120.7 120.7 120.7 83.5 82.3 78.6 79.9 80.0 82.8 83.3 82.8	82.3 82.1 78.7 80.4 80.1 82.8 82.5 82.6	82.8 82.1 78.8 79.9 79.9 83.2 83.1 82.6	82.4 81.9 79.5 79.7 80.3 83.2 83.4 82.7	82.1 81.1 79.3 80.0 80.8 83.7 82.9 82.2	82.0 80.0 79.0 80.1 81.0 84.0 82.5 82.4	81.9 79.3 78.8 79.8 81.3 84.7 82.4 82.6	84.8 82.3 77.9 88.8 80.3 81.5 84.3 81.8	83.8 82.3 78.0 79.8 80.2 82.7 83.4 82.4	82.5 82.0 79.0 80.0 80.1 83.1 83.0 82.6	82.0 80.1 79.0 81.0 84.1 82.6 82.4	83. 81. 78. 79. 80. 82. 83.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996	85.5 81.6 78.5 78.2 80.4 81.3 84.6	121.7 120.3 84.6 82.5 77.9 78.8 80.4 81.2 84.2	84.4 82.7 77.3 79.4 80.1 82.1 84.1	84.3 82.3 77.4 79.6 80.4 82.5 83.6	83.5 82.3 77.8 79.9 80.2 82.8 83.3	120.7 120.7 120.7 83.5 82.3 78.6 79.9 80.0 82.8 83.3	82.3 82.1 78.7 80.4 80.1 82.8 82.5	82.8 82.1 78.8 79.9 79.9 83.2 83.1	82.4 81.9 79.5 79.7 80.3 83.2 83.4	82.1 81.1 79.3 80.0 80.8 83.7 82.9	82.0 80.0 79.0 80.1 81.0 84.0 82.5	81.9 79.3 78.8 79.8 81.3 84.7 82.4	121.7 120.3 84.8 82.3 77.9 78.8 80.3 81.5 84.3	83.8 82.3 78.0 79.8 80.2 82.7 83.4	82.5 82.0 79.0 80.0 80.1 83.1 83.0	82.0 80.1 79.0 80.0 81.0 84.1 82.6	83. 81. 78. 79. 80.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996 1997	122.0 120.3 85.5 81.6 78.5 78.2 80.4 81.3 84.6 81.4 82.2	121.7 120.3 84.6 82.5 77.9 78.8 80.4 81.2 84.2 82.3 82.9	121.4 120.4 84.4 82.7 77.3 79.4 80.1 82.1 84.1 81.7 83.4	121.2 120.5 84.3 82.3 77.4 79.6 80.4 82.5 83.6 82.2 82.7	120.9 120.6 83.5 82.3 77.8 79.9 80.2 82.8 83.3 82.3 82.9	120.7 120.7 120.7 83.5 82.3 78.6 79.9 80.0 82.8 83.3 82.8 82.9	82.3 82.1 78.7 80.4 80.1 82.8 82.5 82.6 82.8	120.4 120.9 82.8 82.1 78.8 79.9 79.9 83.2 83.1 82.6 83.6	82.4 81.9 79.5 79.7 80.3 83.2 83.4 82.7 83.7	82.1 81.1 79.3 80.0 80.8 83.7 82.9 82.2 83.6	82.0 80.0 79.0 80.1 81.0 84.0 82.5 82.4 83.9	81.9 79.3 78.8 79.8 81.3 84.7 82.4 82.6 83.6	121.7 120.3 84.8 82.3 77.9 78.8 80.3 81.5 84.3 81.8 82.8	120.9 120.6 83.8 82.3 78.0 79.8 80.2 82.7 83.4 82.4 82.9	82.5 82.0 79.0 80.0 80.1 83.1 83.0 82.6 83.3	82.0 80.1 79.0 80.0 81.0 84.1 82.6 82.4 83.7	83. 81. 78. 79. 80. 82. 83. 82.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	85.5 81.6 78.5 78.2 80.4 81.3 84.6 81.4 82.2 83.7	121.7 120.3 84.6 82.5 77.9 78.8 80.4 81.2 84.2 82.3 82.9 83.1	84.4 82.7 77.3 79.4 80.1 82.1 84.1 81.7 83.4 82.4	121.2 120.5 84.3 82.3 77.4 79.6 80.4 82.5 83.6 82.2 82.7 82.2	120.9 120.6 83.5 82.3 77.8 79.9 80.2 82.8 83.3 82.3 82.9 82.0	120.7 120.7 120.7 83.5 82.3 78.6 79.9 80.0 82.8 83.3 82.8 82.9	82.3 82.1 78.7 80.4 80.1 82.8 82.5 82.6 82.8 80.0	82.8 82.1 78.8 79.9 83.2 83.1 82.6 83.6 81.5	82.4 81.9 79.5 79.7 80.3 83.2 83.4 82.7 83.7 80.8	82.1 81.1 79.3 80.0 80.8 83.7 82.9 82.2 83.6 81.1	82.0 80.0 79.0 80.1 81.0 84.0 82.5 82.4 83.9 80.8	81.9 79.3 78.8 79.8 81.3 84.7 82.4 82.6 83.6 80.8	121.7 120.3 84.8 82.3 77.9 78.8 80.3 81.5 84.3 81.8 82.8 83.0	120.9 120.6 83.8 82.3 78.0 79.8 80.2 82.7 83.4 82.4 82.9 81.7	82.5 82.0 79.0 80.0 80.1 83.1 83.0 82.6 83.3 80.8	82.0 80.1 79.0 80.0 81.0 84.1 82.6 82.4 83.7 80.9	83. 81. 78. 79. 80. 82. 83. 82. 83. 81.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	122.0 120.3 85.5 81.6 78.5 78.2 80.4 81.3 84.6 81.4 82.2 83.7 80.6 80.7 76.7	121.7 120.3 84.6 82.5 77.9 78.8 80.4 81.2 82.3 82.9 83.1 80.7 80.6 76.0	121.4 120.4 84.4 82.7 77.3 79.4 80.1 82.1 84.1 81.7 83.4 82.4 80.3 80.8 75.5	121.2 120.5 84.3 82.3 77.4 79.6 80.4 82.5 83.6 82.2 82.7 82.2 80.2 80.9 75.1	120.9 120.6 83.5 82.3 77.8 79.9 80.2 82.8 83.3 82.3 82.9 82.0 80.6 80.4 74.3	120.7 120.7 120.7 83.5 82.3 78.6 79.9 80.0 82.8 83.3 82.8 82.9 80.9 80.0 80.2 73.7	120.6 120.8 82.3 82.1 78.7 80.4 80.1 82.8 82.5 82.6 82.8 80.0 80.1 79.9 73.2	120.4 120.9 82.8 82.1 78.8 79.9 79.9 83.2 83.1 82.6 83.6 81.5	82.4 81.9 79.5 79.7 80.3 83.2 83.4 82.7 83.7 80.8	82.1 81.1 79.3 80.0 80.8 83.7 82.9 82.2 83.6 81.1 80.5 78.7 71.7	82.0 80.0 79.0 80.1 81.0 84.0 82.5 82.4 83.9 80.8 80.7 78.1 71.4	81.9 79.3 78.8 79.8 81.3 84.7 82.4 82.6 83.6 80.8 80.9 77.4 71.5	121.7 120.3 84.8 82.3 77.9 78.8 80.3 81.5 84.3 81.8 82.8 83.0 80.5 80.7 76.0	120.9 120.6 83.8 82.3 78.0 79.8 80.2 82.7 83.4 82.4 82.9 81.7 80.3 80.5 74.4	82.5 82.0 79.0 80.0 80.1 83.1 83.0 82.6 83.3 80.8 80.0 79.4 72.7	82.0 80.1 79.0 80.0 81.0 84.1 82.6 82.4 83.7 80.9 80.7 78.1	83. 81. 78. 79. 80. 82. 83. 82. 83. 81.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	122.0 120.3 85.5 81.6 78.5 78.2 80.4 81.3 84.6 81.4 82.2 83.7 80.6 80.7 76.7 71.8	121.7 120.3 84.6 82.5 77.9 78.8 80.4 81.2 82.3 82.9 83.1 80.7 80.6 76.0 71.7	121.4 120.4 84.4 82.7 77.3 79.4 80.1 82.1 84.1 81.7 83.4 82.4 80.3 80.8 75.5 72.2	121.2 120.5 84.3 82.3 77.4 79.6 80.4 82.5 83.6 82.2 82.7 82.2 80.2 80.9 75.1 72.3	120.9 120.6 83.5 82.3 77.8 79.9 80.2 82.8 83.3 82.3 82.9 82.0 80.6 80.4 74.3 72.8	120.7 120.7 120.7 83.5 82.3 78.6 79.9 80.0 82.8 82.9 80.9 80.0 80.2 73.7 73.6	120.6 120.8 82.3 82.1 78.7 80.4 80.1 82.8 82.5 82.6 82.8 80.0 80.1 79.9 73.2 73.2	120.4 120.9 82.8 82.1 78.8 79.9 79.9 83.2 83.1 82.6 83.6 81.5 80.3 79.1 72.6 73.5	82.4 81.9 79.5 79.7 80.3 83.2 83.4 82.7 83.7 80.8 79.7 79.2 72.3 73.6	82.1 81.1 79.3 80.0 80.8 83.7 82.9 82.2 83.6 81.1 80.5 78.7 71.7 73.3	82.0 80.0 79.0 80.1 81.0 84.0 82.5 82.4 83.9 80.8 80.7 78.1 71.4 73.6	81.9 79.3 78.8 79.8 81.3 84.7 82.4 82.6 83.6 80.8 80.9 77.4 71.5 73.2	121.7 120.3 84.8 82.3 77.9 78.8 80.3 81.5 84.3 81.8 82.8 83.0 80.5 80.7 76.0 71.9	120.9 120.6 83.8 82.3 78.0 79.8 80.2 82.7 83.4 82.4 82.9 81.7 80.3 80.5 74.4 72.9	82.5 82.0 79.0 80.0 80.1 83.1 83.0 82.6 83.3 80.8 80.0 79.4 72.7 73.5	82.0 80.1 79.0 80.0 81.0 84.1 82.6 82.4 83.7 80.9 80.7 78.1 71.6 73.4	83. 81. 78. 79. 80. 82. 83. 82. 83. 81.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	122.0 120.3 85.5 81.6 78.5 78.2 80.4 81.3 84.6 81.4 82.2 83.7 80.6 80.7 76.7	121.7 120.3 84.6 82.5 77.9 78.8 80.4 81.2 82.3 82.9 83.1 80.7 80.6 76.0	121.4 120.4 84.4 82.7 77.3 79.4 80.1 82.1 84.1 81.7 83.4 82.4 80.3 80.8 75.5	121.2 120.5 84.3 82.3 77.4 79.6 80.4 82.5 83.6 82.2 82.7 82.2 80.2 80.9 75.1	120.9 120.6 83.5 82.3 77.8 79.9 80.2 82.8 83.3 82.3 82.9 82.0 80.6 80.4 74.3	120.7 120.7 120.7 83.5 82.3 78.6 79.9 80.0 82.8 83.3 82.8 82.9 80.9 80.0 80.2 73.7	120.6 120.8 82.3 82.1 78.7 80.4 80.1 82.8 82.5 82.6 82.8 80.0 80.1 79.9 73.2	120.4 120.9 82.8 82.1 78.8 79.9 79.9 83.2 83.1 82.6 83.6 81.5	82.4 81.9 79.5 79.7 80.3 83.2 83.4 82.7 83.7 80.8	82.1 81.1 79.3 80.0 80.8 83.7 82.9 82.2 83.6 81.1 80.5 78.7 71.7	82.0 80.0 79.0 80.1 81.0 84.0 82.5 82.4 83.9 80.8 80.7 78.1 71.4	81.9 79.3 78.8 79.8 81.3 84.7 82.4 82.6 83.6 80.8 80.9 77.4 71.5	121.7 120.3 84.8 82.3 77.9 78.8 80.3 81.5 84.3 81.8 82.8 83.0 80.5 80.7 76.0	120.9 120.6 83.8 82.3 78.0 79.8 80.2 82.7 83.4 82.4 82.9 81.7 80.3 80.5 74.4	82.5 82.0 79.0 80.0 80.1 83.1 83.0 82.6 83.3 80.8 80.0 79.4 72.7	82.0 80.1 79.0 80.0 81.0 84.1 82.6 82.4 83.7 80.9 80.7 78.1	83. 81. 78. 79. 80. 82. 83. 82. 83. 81.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003	85.5 81.6 78.5 78.2 80.4 81.3 84.6 81.4 82.2 83.7 80.6 80.7 76.7 71.8 73.7	84.6 82.5 77.9 78.8 80.4 81.2 84.2 82.3 82.9 83.1 80.7 80.6 76.0 71.7 73.8	84.4 82.7 77.3 79.4 80.1 82.1 84.1 81.7 83.4 82.4 80.3 80.8 75.5 72.2 74.0	84.3 82.3 77.4 79.6 80.4 82.5 83.6 82.2 82.7 82.2 80.9 75.1 72.3 73.3	120.9 120.6 83.5 82.3 77.8 79.9 80.2 82.8 83.3 82.9 82.0 80.6 80.4 74.3 72.8 73.4	120.7 120.7 120.7 120.7 83.5 82.3 78.6 79.9 80.0 82.8 83.3 82.8 82.9 80.9 80.2 73.7 73.6 73.7	82.3 82.1 78.7 80.4 80.1 82.8 82.5 82.6 82.8 80.0 80.1 79.9 73.2 73.2 73.7	82.8 82.1 78.8 79.9 79.9 83.2 83.1 82.6 81.5 80.3 79.1 72.6 73.5 73.5	82.4 81.9 79.5 79.7 80.3 83.2 83.4 82.7 83.7 80.8 79.7 79.2 72.3 73.6 74.1	82.1 81.1 79.3 80.0 80.8 83.7 82.9 82.2 83.6 81.1 80.5 78.7 71.7 73.3 74.1	82.0 80.0 79.0 80.1 81.0 84.0 82.5 82.4 83.9 80.8 80.7 78.1 71.4 73.6 74.9	81.9 79.3 78.8 79.8 81.3 84.7 82.4 82.6 83.6 80.8 80.9 77.4 71.5 73.2 74.7	84.8 82.3 77.9 78.8 80.3 81.5 84.3 81.8 82.8 83.0 80.5 80.7 76.0 71.9 73.8	120.9 120.6 83.8 82.3 78.0 79.8 80.2 82.7 83.4 82.4 82.9 81.7 80.3 80.5 74.4 72.9 73.4	82.5 82.0 79.0 80.0 80.1 83.1 83.0 82.6 83.3 80.8 80.0 79.4 72.7 73.5 73.8	82.0 80.1 79.0 81.0 84.1 82.6 82.4 83.7 80.9 80.7 78.1 71.6 73.4 74.6	83. 81. 78. 80. 82. 83. 81. 80. 79. 73. 72. 73.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003	85.5 81.6 78.5 78.2 80.4 81.3 84.6 81.4 82.2 83.7 76.7 71.8 73.7 74.8 78.1	84.6 82.5 77.9 78.8 80.4 81.2 82.3 82.9 83.1 80.7 76.0 71.7 73.8	84.4 82.7 77.3 79.4 80.1 82.1 84.1 81.7 83.4 82.4 80.8 75.5 72.2 74.0	84.3 82.3 77.4 79.6 80.4 82.5 83.6 82.2 82.7 82.2 80.9 75.1 72.3 73.3	120.9 120.6 83.5 82.3 77.8 79.9 80.2 82.8 83.3 82.3 82.9 82.0 80.6 80.4 74.3 72.8 73.4	120.7 120.7 120.7 120.7 83.5 82.3 78.6 79.9 80.0 82.8 83.3 82.8 82.9 80.9 80.2 73.7 73.6 73.7 75.5 78.4	120.6 120.8 82.3 82.1 78.7 80.4 80.1 82.8 82.5 82.6 82.8 80.0 80.1 79.9 73.2 73.2 73.7	120.4 120.9 82.8 82.1 78.8 79.9 79.9 83.2 83.1 82.6 83.6 81.5 80.3 79.1 72.6 73.5 73.5	82.4 81.9 79.5 79.7 80.3 83.2 83.4 82.7 83.7 80.8 79.7 79.2 72.3 73.6 74.1	82.1 81.1 79.3 80.0 80.8 83.7 82.9 82.2 83.6 81.1 80.5 78.7 71.7 73.3 74.1	82.0 80.0 79.0 80.1 81.0 84.0 82.5 82.4 83.9 80.8 80.7 78.1 71.4 73.6 74.9	81.9 79.3 78.8 79.8 81.3 84.7 82.4 82.6 83.6 80.8 80.9 77.4 71.5 73.2 74.7	84.8 82.3 77.9 78.8 80.3 81.5 84.3 81.8 82.8 83.0 80.5 80.7 76.0 71.9 73.8	120.9 120.6 83.8 82.3 78.0 79.8 80.2 82.7 83.4 82.4 82.9 81.7 80.3 80.5 74.4 72.9 73.4	82.5 82.0 79.0 80.0 80.1 83.1 83.0 82.6 83.3 80.8 80.0 79.4 72.7 73.5 73.8	82.0 80.1 79.0 80.0 81.0 84.1 82.6 82.4 83.7 80.9 80.7 78.1 71.6 73.4 74.6	83 81. 78. 79. 80. 82. 83. 81. 80. 79. 73. 72. 73.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	85.5 81.6 78.5 78.2 80.4 81.3 84.6 81.4 82.2 83.7 76.7 71.8 73.7 74.8 78.1 79.1	84.6 82.5 77.9 78.8 80.4 81.2 82.3 82.9 83.1 80.7 80.6 76.0 71.7 73.8 75.4 78.6 78.9	84.4 82.7 77.3 79.4 80.1 82.1 81.7 83.4 82.4 80.3 80.8 75.5 72.2 74.0	84.3 82.3 77.4 79.6 80.4 82.5 83.6 82.2 82.7 82.2 80.9 75.1 72.3 73.3 75.5 78.2	120.9 120.6 83.5 82.3 77.8 79.9 80.2 82.8 83.3 82.3 82.9 82.0 80.6 80.4 74.3 72.8 73.4 76.1 78.4 78.5	83.5 82.3 78.6 79.9 80.0 82.8 83.3 82.8 82.9 80.9 80.2 73.7 73.6 73.7 75.5 78.4 78.6	82.3 82.1 78.7 80.4 80.1 82.8 82.5 82.6 82.8 80.0 80.1 79.9 73.2 73.2 73.7	120.4 120.9 82.8 82.1 78.8 79.9 79.9 83.2 83.1 82.6 83.6 81.5 80.3 79.1 72.6 73.5 73.5 76.6 78.2 78.6	82.4 81.9 79.5 79.7 80.3 83.2 83.4 82.7 83.7 80.8 79.7 79.2 72.3 73.6 74.1 76.4 77.2 78.5	82.1 81.1 79.3 80.0 80.8 83.7 82.9 82.2 83.6 81.1 80.5 78.7 71.7 73.3 74.1 77.2 78.2 78.1	82.0 80.0 79.0 80.1 81.0 84.0 82.5 82.4 83.9 80.8 80.7 78.1 71.4 73.6 74.9 77.1 78.7 78.0	81.9 79.3 78.8 79.8 81.3 84.7 82.4 82.6 83.6 80.8 80.9 77.4 71.5 73.2 74.7 77.6 78.5 79.1	84.8 82.3 77.9 78.8 80.3 81.5 84.3 81.8 82.8 83.0 80.5 80.7 76.0 71.9 73.8 75.1 78.3 78.9	120.9 120.6 83.8 82.3 78.0 79.8 80.2 82.7 83.4 82.4 82.9 81.7 80.3 80.5 74.4 72.9 73.4 75.7 78.3 78.7	82.5 82.0 79.0 80.0 80.1 83.1 83.0 82.6 83.3 80.8 80.0 79.4 72.7 73.5 73.8 76.3 77.8 78.5	82.0 80.1 79.0 80.0 81.0 84.1 82.6 82.4 83.7 80.9 80.7 78.1 71.6 73.4 74.6	83 81. 78. 79 80. 82 83 81. 80 79. 73. 72. 73. 76. 78.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006	85.5 81.6 78.5 78.2 80.4 81.3 84.6 81.4 82.2 83.7 76.7 71.8 73.7 74.8 78.1	84.6 82.5 77.9 78.8 80.4 81.2 82.3 82.9 83.1 80.7 76.0 71.7 73.8	84.4 82.7 77.3 79.4 80.1 82.1 84.1 81.7 83.4 82.4 80.8 75.5 72.2 74.0	84.3 82.3 77.4 79.6 80.4 82.5 83.6 82.2 82.7 82.2 80.9 75.1 72.3 73.3	120.9 120.6 83.5 82.3 77.8 79.9 80.2 82.8 83.3 82.3 82.9 82.0 80.6 80.4 74.3 72.8 73.4	120.7 120.7 120.7 120.7 83.5 82.3 78.6 79.9 80.0 82.8 83.3 82.8 82.9 80.9 80.2 73.7 73.6 73.7 75.5 78.4	120.6 120.8 82.3 82.1 78.7 80.4 80.1 82.8 82.5 82.6 82.8 80.0 80.1 79.9 73.2 73.2 73.7	120.4 120.9 82.8 82.1 78.8 79.9 79.9 83.2 83.1 82.6 83.6 81.5 80.3 79.1 72.6 73.5 73.5	82.4 81.9 79.5 79.7 80.3 83.2 83.4 82.7 83.7 80.8 79.7 79.2 72.3 73.6 74.1	82.1 81.1 79.3 80.0 80.8 83.7 82.9 82.2 83.6 81.1 80.5 78.7 71.7 73.3 74.1	82.0 80.0 79.0 80.1 81.0 84.0 82.5 82.4 83.9 80.8 80.7 78.1 71.4 73.6 74.9	81.9 79.3 78.8 79.8 81.3 84.7 82.4 82.6 83.6 80.8 80.9 77.4 71.5 73.2 74.7	84.8 82.3 77.9 78.8 80.3 81.5 84.3 81.8 82.8 83.0 80.5 80.7 76.0 71.9 73.8	120.9 120.6 83.8 82.3 78.0 79.8 80.2 82.7 83.4 82.4 82.9 81.7 80.3 80.5 74.4 72.9 73.4	82.5 82.0 79.0 80.0 80.1 83.1 83.0 82.6 83.3 80.8 80.0 79.4 72.7 73.5 73.8	82.0 80.1 79.0 80.0 81.0 84.1 82.6 82.4 83.7 80.9 80.7 78.1 71.6 73.4 74.6	83. 81. 78. 80. 82. 83. 82. 83. 81. 80. 79. 73. 76. 78. 78.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	85.5 81.6 78.5 78.2 80.4 81.3 84.6 81.4 82.2 83.7 76.7 71.8 73.7 74.8 78.1 79.1 78.9	84.6 82.5 77.9 78.8 80.4 81.2 84.2 82.3 82.9 83.1 80.7 70.7 73.8 75.4 78.6 78.9 79.0	84.4 82.7 77.3 79.4 80.1 82.1 84.1 81.7 83.4 82.4 80.3 80.8 75.5 72.2 74.0 75.2 78.2 78.2 78.1	84.3 82.3 77.4 79.6 80.4 82.5 83.6 82.2 82.7 82.2 80.9 75.1 72.3 73.3 75.5 78.2 79.0 79.7	83.5 82.3 77.8 79.9 80.2 82.8 83.3 82.9 82.0 80.6 80.4 74.3 72.8 73.4 76.1 78.4 76.5	83.5 82.3 78.6 79.9 80.0 82.8 83.3 82.9 80.9 80.2 73.7 73.6 73.7 75.5 78.4 78.6 79.5 76.3	82.3 82.1 78.7 80.4 80.1 82.8 82.5 82.6 82.8 80.0 80.1 79.9 73.2 73.2 73.7 76.1 78.1 78.4 79.5	82.8 82.1 78.8 79.9 83.2 83.1 82.6 83.6 81.5 80.3 79.1 72.6 73.5 73.5 76.6 78.2 78.2 78.6	82.4 81.9 79.5 79.7 80.3 83.2 83.4 82.7 83.7 80.8 79.7 79.2 72.3 73.6 74.1 76.4 77.2 78.5 79.3 72.2	82.1 81.1 79.3 80.0 80.8 83.7 82.9 82.2 83.6 81.1 80.5 78.7 71.7 73.3 74.1 77.2 78.2 78.1 78.8 71.8	82.0 80.0 79.0 80.1 81.0 84.0 82.5 82.4 83.9 80.8 80.7 78.1 71.4 73.6 74.9 77.1 78.7 79.0 79.0	81.9 79.3 78.8 79.8 81.3 84.7 82.4 82.6 80.8 80.9 77.4 71.5 73.2 74.7 77.6 78.5 79.1 79.2 68.2	84.8 82.3 77.9 78.8 80.3 81.5 84.3 81.8 82.8 83.0 80.5 80.7 76.0 71.9 73.8 75.1 78.3 79.0 78.5	120.9 120.6 83.8 82.3 78.0 79.8 80.2 82.7 83.4 82.4 82.9 81.7 80.3 80.5 74.4 72.9 73.4 75.7 78.3 78.7 79.5 76.8	82.5 82.0 79.0 80.0 80.1 83.1 83.0 82.6 83.3 80.8 80.0 79.4 72.7 73.5 73.8 76.3 77.8 78.5 79.3 74.1	82.0 80.1 79.0 81.0 84.1 82.6 82.4 83.7 80.9 80.7 78.1 71.6 73.4 74.6 77.3 78.5 78.4 79.0	83. 81. 78. 80. 82. 83. 81. 80. 79. 73. 72. 73.
2010 2011 Utilization (percent) 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006 2007	85.5 81.6 78.5 78.2 80.4 81.3 84.6 81.4 82.2 83.7 76.7 71.8 73.7 74.8 78.1 79.1	84.6 82.5 77.9 78.8 80.4 81.2 84.2 82.3 82.9 83.1 80.7 70.6 71.7 73.8 75.4 78.6 78.9	84.4 82.7 77.3 79.4 80.1 82.1 84.1 81.7 83.4 82.4 80.3 80.8 75.5 72.2 74.0 75.2 78.6 79.3	84.3 82.3 77.4 79.6 80.4 82.5 83.6 82.2 82.7 82.2 80.9 75.1 72.3 73.3 75.5 78.2 79.0	120.9 120.6 83.5 82.3 77.8 79.9 80.2 82.8 83.3 82.3 82.9 82.0 80.6 80.4 74.3 72.8 73.4 76.1 78.4 78.5	83.5 82.3 78.6 79.9 80.0 82.8 83.3 82.8 82.9 80.9 80.2 73.7 75.5 78.4 78.6 79.5	82.3 82.1 78.7 80.4 80.1 82.8 82.5 82.6 82.8 80.0 80.1 79.9 73.2 73.2 73.7 76.1 78.4 79.5	82.8 82.1 78.8 79.9 83.2 83.1 82.6 83.6 81.5 80.3 79.1 72.6 73.5 73.5 76.6 78.2 78.6	82.4 81.9 79.5 79.7 80.3 83.2 83.4 82.7 83.7 80.8 79.7 79.2 72.3 73.6 74.1 76.4 77.2 78.5 79.3	82.1 81.1 79.3 80.0 80.8 83.7 82.9 82.2 83.6 81.1 80.5 78.7 71.7 73.3 74.1 77.2 78.2 78.1 78.8	82.0 80.0 79.0 80.1 81.0 84.0 82.5 82.4 83.9 80.8 80.7 78.1 71.4 73.6 74.9 77.1 78.0 79.0	81.9 79.3 78.8 79.8 81.3 84.7 82.4 82.6 83.6 80.8 80.9 77.4 71.5 73.2 74.7 77.6 78.5 79.1	121.7 120.3 84.8 82.3 77.9 78.8 80.3 81.5 84.3 81.8 82.8 83.0 80.5 80.7 76.0 71.9 73.8 75.1 78.3 78.9	120.9 120.6 83.8 82.3 78.0 79.8 80.2 82.7 83.4 82.4 82.9 81.7 80.3 80.5 74.4 72.9 73.4 75.7 78.3 78.7	82.5 82.0 79.0 80.0 80.1 83.1 83.0 82.6 83.3 80.8 80.0 79.4 72.7 73.5 73.8 76.3 77.8 78.5	82.0 80.1 79.0 80.0 81.0 84.1 82.6 82.4 83.7 80.9 80.7 78.1 71.6 73.4 74.6	83. 81. 78. 79. 80. 82. 83. 82. 83. 81. 79. 73. 74. 75.

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																	
1989	.3	4	.3	.0	7	.0	-1.1	.8	3	2	.2	.6	2.0	-1.6	-3.5	.8	.6
1990	7	.9	.5	2	.1	.3	1	.2	.2	8	-1.3	8	2.2	2.5	1.3	-6.7	.3
1991	4	8	6	.2	1.0	1.0	.0	.0	.9	2	2	5	-8.0	2.0	5.3	.3	-2.0
1992 1993	8 .5	.8	.8 1	.6	.2 4	1 .2	.8	6 1	.1	.6	.3	.0	-1.9 3.1	6.2	1.8 1.4	2.9 5.1	1.9
1994 1995	.4	.0 2	.9 1	.3 3	.3	.6	.0 6	.4 1.1	.0	.6 5	.4	.9	4.5	5.3	3.2 1.5	5.7	4.0
1996	-1.0	1.3	3	.8	.5	.7	5	.4	.3	3	.8	.5	4	6.4	2.1	3.0	1.7
1997	1	.9	.5	3	.3	.2	.3	1.0	.7	.6	.6	.1	5.1	2.4	6.2	7.8	4.2
1998	.2	.0	1	.2	.6	9	8	2.0	7	.6	3	.1	1.9	.8	3	2.4	3.1
1999	.2	.1	1	1	.6	4	.3	.4	4	1.2	.2	.5	.6	.3	1.1	5.4	1.1
2000	3	.0	.1	.4	2	1	6	4	.4	5	2	5	.5	1.5	-3.0	-2.7	1.0
2001	7	5	3	1	7	5	3	3	4	5	4	1	-5.9	-4.4	-4.6	-4.8	-4.0
2002 2003	.7 .7	1 .2	.8 3	.4 9	.5 1	.9 1	4 .2	.1 1	.0 .6	4 2	.4 .7	6 1	3.0	6.4 -4.6	1.8 .9	-1.1 2.6	.3
	. /	.2	3	9	1		.2		.0	2		1		-4.0	.9	2.0	.2
2004	.2	.6	6	.5	.7	9	.7	.2	1	1.0	.2	.7	2.2	1.8	1.6	5.4	1.7
2005 2006	.4	.6 .0	2 .2	.0 .4	.1 3	.3 .3	3 .2	.0 .2	-2.2 2	1.2	1.0 2	.5 1.0	5.3 3.4	.9 1.7	-3.0 1.2	2.0	2.5 1.4
2007	3	1.0	2	.6	.0	.1	.1	1	2	8	.2	.1	3.7	3.6	1.1	-1.5	1.4
2008	3	3	5	9	6	3	3	-1.7	-4.3	1.1	-1.1	-2.5	-2.4	-7.4	-12.2	-14.7	-4.4
2009	-2.1	6	-1.8	-1.0	-1.1	5	1.0	.9	.6	.2	.2	.6	-18.7	-12.5	4.8	5.2	-11.2
2010	1.2	.1	.5	.3	1.4	.1	.9	.2	.3	1	.2	1.2	7.9	6.9	6.8	2.7	5.0
2011	.2	4	.7	4	.3	.1	1.0	.1					4.4	.6			
IP (2007=100)																	
2009	87.0	86.6	85.0	84.1	83.2	82.8	83.7	84.4	85.0	85.1	85.3	85.8	86.2	83.4	84.3	85.4	84.8
2010	86.8	86.9	87.4	87.7	88.9	89.0	89.8	90.0	90.2	90.1	90.3	91.4	87.1	88.5	90.0	90.6	89.0
2011	91.6	91.2	91.9	91.5	91.8	91.8	92.7	92.9					91.6	91.7			
Capacity																	
(percent of																	
2007 output) 2009	123.7	123.7	123.7	123.6	123.5	123.3	123.1	122.8	122.4	122.1	121.7	121.3	123.7	123.5	122.8	121.7	122.9
2010	123.7	120.6	120.3	120.0	119.8	119.6	119.4	119.3	119.3	119.2	119.2	119.3	120.6	119.8	119.3	119.3	119.8
2011	119.3	119.4	119.5	119.6	119.7	119.8	119.8	119.9	117.0	117.2	117.2	117.0	119.4	119.7	117.0	117.0	117.0
Utilization																	
(percent)																	
1989	85.5	85.1	85.3	85.1	84.4	84.3	83.2	83.8	83.3	83.0	83.1	83.4	85.3	84.6	83.4	83.2	84.1
1990	82.7	83.3	83.6	83.3	83.3	83.4	83.2	83.3	83.3	82.5	81.4	80.7	83.2	83.3	83.3	81.5	82.8
1991 1992	80.2 79.2	79.5 79.7	78.9 80.2	79.0 80.6	79.7 80.8	80.4 80.6	80.3 81.1	80.3 80.6	80.9 80.6	80.6 81.0	80.4 81.2	79.9 81.1	79.6 79.7	79.7 80.7	80.5 80.8	80.3 81.1	80.0 80.6
1993	81.4	81.6	81.5	81.6	81.2	81.2	81.4	81.2	81.5	81.9	82.1	82.4	81.5	81.3	81.4	82.1	81.6
1994	82.6	82.5	83.1	83.2	83.4	83.8	83.7	83.9	83.7	84.1	84.4	85.0	82.7	83.5	83.8	84.5	83.6
1995	84.9	84.6	84.4	84.0	83.9	83.9	83.3	84.1	84.0	83.5	83.4	83.4	84.6	83.9	83.8	83.4	83.9
1996	82.4	83.4	83.0	83.5	83.8	84.2	83.6	83.8	83.9	83.4	83.9	84.1	82.9	83.8	83.7	83.8	83.6
1997	83.8	84.3	84.4	83.9	83.9	83.8	83.8	84.3	84.6	84.8	85.0	84.7	84.1	83.9	84.2	84.8	84.3
1998	84.6	84.2	83.9	83.7	83.9	82.8	81.9	83.3	82.5	82.7	82.1	82.0	84.2	83.5	82.5	82.3	83.1
1999	81.9	81.8	81.5	81.2	81.5	81.0	81.0	81.2	80.7	81.5	81.6	81.9	81.7	81.2	81.0	81.7	81.4
2000	81.5	81.4	81.4	81.6	81.4	81.3	80.7	80.3	80.6	80.0	79.8	79.3	81.4	81.4	80.5	79.7	80.8
2001	78.7	78.2	77.9	77.7	77.1	76.6	76.3	76.0	75.6	75.1	74.7	74.6	78.3	77.2	76.0	74.8	76.6
2002 2003	75.1 76.9	75.0 77.1	75.5 76.9	75.8 76.3	76.1 76.3	76.8 76.2	76.5 76.4	76.6 76.4	76.7 76.8	76.4 76.7	76.8 77.3	76.3 77.3	75.2 77.0	76.2 76.3	76.6 76.5	76.5 77.1	76.1 76.7
2004 2005	77.4 80.2	77.9 80.7	77.4 80.6	77.8 80.5	78.4 80.6	77.7 80.8	78.2 80.6	78.4 80.5	78.3 78.7	79.1 79.5	79.3 80.2	79.9 80.6	77.5 80.5	77.9 80.6	78.3 79.9	79.4 80.1	78.3 80.3
2006	80.2	80.7	80.5	80.3	80.8	80.8	80.6	80.3	80.1	79.3 80.0	79.7	80.6	80.5	80.5	80.3	80.1	80.3
2007	80.1	80.8	80.6	81.0	81.0	81.1	81.2	81.1	81.5	80.9	81.1	81.3	80.5	81.0	81.3	81.1	81.0
2008	81.0	80.8	80.4	79.7	79.2	79.0	78.7	77.3	73.9	74.7	73.8	71.9	80.8	79.3	76.6	73.5	77.5
	1																
2009	70.3	70.0	68.7	68.1	67.3	67.1	68.0	68.8	69.4	69.7	70.1	70.7	69.7	67.5	68.7	70.2	69.0
2009 2010	70.3 71.8	70.0 72.1	68.7 72.6	68.1 73.0	67.3 74.2	67.1 74.4	68.0 75.2	68.8 75.4	69.4 75.6	69.7 75.6	70.1 75.7	70.7 76.6	69.7	67.5 73.9	68.7 75.4	70.2 76.0	74.4

^{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

Proper classes Prop	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
1999	* -				_	-		-	-	_								
		.9	-1.0	.0	.1	9	.2	-1.4	.8	3	3	.1	.0	2.3	-3.1	-4.3	7	.4
999		3	1.5				.2			1	9		8		2.3		-7.6	.0
14																		1
1994																		
1995	1993	1.1	.1	3	.3	2	2	.2	2	.5	. /	.3	.5	4.0	./	.4	3.7	2.3
1995	1994	.1	.1	1.2	.5	.4	.2	.2	.6	.1	.8	.5	.9	4.2	7.0	3.7	7.0	4.4
1997	1995		3	1					.9	.5			.0	2.8	-2.2	.3	.6	
1999																		
1999														1				
2000	1,,,0			.5	.2	• •	1.1	.,	2.1	.0	.,	.1	.2	3.1	.2	.5	1.1	3.3
2001 5.6														1				1
2002 7																		
2004																		
2005																		
2005	2004					-								1.0	2.1	2.1		2.0
2006 R																		
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100																		1
Capacity Capacity	2007	4	.4	.5	.5				6		8		.2			.8	-2.3	2.0
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Properties Pro																		
2009 R29 R29 R29 R1.1 R0.3 79.3 79.0 R0.0 R0.7 R1.3 R1.2 R1.9 R2.0 R2.3 R2.3 79.5 R0.7 R1.7 R1.1	2011	.6	.1	.7	5	.1	.0	.6	.4					6.7	.3			
2009 R29 R29 R29 R1.1 R0.3 79.3 79.0 R0.0 R0.7 R1.3 R1.2 R1.9 R2.0 R2.3 R2.3 79.5 R0.7 R1.7 R1.1	IP (2007–100)																	
2010		82.9	82.9	81.1	80.3	79.3	79.0	80.0	80.7	81.3	81.2	81.9	82.0	82.3	79.5	80.7	81.7	81.1
Capacity (percent of 2007 output) 2008 215.2 124.9 124.5 124.2 123.8 123.4 122.9 122.5 122.1 121.6 121.2 120.8 124.9 123.8 122.5 121.2 123.1 2010 120.5 120.1 119.8 119.5 119.5 119.5 118.5 118.5 118.6 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5								85.8	85.8	86.0	86.2	86.2	87.1			85.9	86.5	85.1
Conting Cont	2011	87.6	87.7	88.4	87.9	88.0	88.0	88.6	89.0					87.9	88.0			
2010 120.5 120.1 119.8 119.5 119.3 119.1 118.9 118.6 118.5 118.5 118.5 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.6 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5 118.5	(percent of 2007 output)	125.2	1240	124.5	1242	122.0	122.4	122.0	122.5	100.1	121.6	121.2	120.0	124.0	122.0	122.5	101.0	122.1
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										110.0	110.5	110.5	110.1			110.7	110.5	115.2
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1995 84.5 84.0 83.8 83.3 83.0 83.1 82.2 82.8 83.1 82.1 84.1 83.1 82.7 82.3 83.1 1996 81.0 81.9 81.4 82.1 82.3 82.8 82.5 82.6 82.8 82.2 82.6 82.9 81.4 82.4 82.6 82.5 82.3 1997 82.5 83.1 83.5 82.7 82.7 82.7 82.5 83.3 83.4 83.5 83.8 83.6 83.0 82.7 83.1 83.6 83.1 83.2 82.7 82.5 82.5 81.3 80.3 81.0 81.3 80.9 80.8 83.2 82.1 81.1 81.0 81.8 1998 80.6 80.7 80.1 79.9 80.2 79.5 79.3 79.6 79.1 80.0 80.2 80.3 80.4 79.9 79.4 80.2 200.0 79.0 79.9 79.7 79.3 79.6 <td>100/</td> <td>Q1 2</td> <td>Q1 2</td> <td>Q2 1</td> <td>82.5</td> <td>Q2 7</td> <td>827</td> <td>92 °</td> <td>82.2</td> <td>92 1</td> <td>92 4</td> <td>83 D</td> <td>Q1 5</td> <td>Q1 4</td> <td>82 6</td> <td>83 N</td> <td>940</td> <td>920</td>	100/	Q1 2	Q1 2	Q2 1	82.5	Q2 7	827	92 °	82.2	92 1	92 4	83 D	Q1 5	Q1 4	82 6	83 N	940	920
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Refer to note on cover page.
 Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.
 Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

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

value added divided by the average annual IP index.

The Industrial Production and Capacity Utilization statistical release, which is published around the middle of the month, reports measures of output, capacity, and capacity utilization in manufacturing, mining, and the electric and gas utilities industries. More detailed descriptions of industrial production and capacity utilization are available on the Board's website at www.federalreserve.gov/releases/G17. In addition, the website includes files containing data shown in the release, more detailed series that are published in a monthly supplement to the G.17, and historical data. Instructions on searching for and downloading specific series are provided as well.

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 4 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by 4/10 percentage point $(0.04 \times 10\% = 0.4\%)$. To assist users with calculations, the Federal Reserve's web site provides supplemental monthly statistics that represent the exact proportionate contribution of a monthly change in a component index to the monthly change in the total index (www.federalreserve.gov/releases/G17/ipdisk/IPWeightsSa.txt).

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 2007. Manufacturing consists of those industries included in the North American Industry Classification System (NAICS) definition of manufacturing plus those industries— newspaper, periodical, book, and directory publishing plus logging—that have traditionally been considered to be manufacturing. For the period since 1997, the total IP index has been constructed from 312 individual series based on the 2002 NAICS codes. These individual series are classified in two ways: (1) market groups, and (2) industry groups. Market groups consist of products and materials. Total products are the aggregate of final products, such as consumer goods and equipment, and nonindustrial supplies (which are inputs to nonindustrial sectors). Materials are inputs in the manufacture of products. Major industry groups include three-digit NAICS industries and aggregates of these industries—for example, durable and nondurable manufacturing, mining, and utilities. A complete description of the market and industry structures, including details regarding series classification, relative importance weights, and data sources, is available on the Board's web site (www.federalreserve.gov/releases/G17/About.htm).

Timing. The first estimate of output for a month is published around the 15th of the following month. The estimate is preliminary (denoted by the superscript "p" in tables) and subject to revision in each of the subsequent five months as new source data become available. (Revised estimates are denoted by the superscript "r" in tables.) For the first estimate of output for a given month, about 67 percent of the source data (in value-added terms) are available; the fraction of available source data increases to 81 percent for estimates in the second month that the estimate is published, 93 percent in the third month, 96 percent in the fourth month, 99 percent in the fifth month, and 99 percent in the sixth month. Data availability by data type in early 2011 is summarized in the table 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 and unit values or sales) by a corresponding Fisher price index; the most notable of these fall within the high-technology grouping and include computers, communications equipment, and semiconductors. When suitable direct measures of product are not available, estimates of output are based on production-worker hours by industry. Data on hours worked by production workers are collected in the monthly establishment survey conducted by the Bureau of Labor Statistics. The factors used to convert inputs into estimates of production are based on historical relationships between the inputs and the comprehensive annual data used to benchmark the IP indexes; these factors also may be influenced by technological or cyclical developments. The annual data used in benchmarking the individual IP indexes are constructed from a variety of source data, such as the quinquennial Censuses of Manufactures and Mineral Industries and the Annual Survey of Manufactures, prepared by the Bureau of the Census; the *Minerals Yearbook*, prepared by the United States Geological Survey of the Department of the Interior; and publications of the Department of Energy.

Availability of Monthly IP Data in Publication Window (Percent of value added in 2011)

	Month of estimate										
Type of data	1st	2nd	3rd	4th	5th	6th					
Physical product	27	41	53	55	58	58					
Production-worker hours	41	41	41	41	41	41					
IP data received	67	81	93	96	99	99					
IP data estimated	33	19	7	4	1	1					

Aggregation Methodology and Weights. The aggregation method for the IP index is a version of the Fisher-ideal index formula. (For a detailed discussion of the aggregation method, see the *Federal Reserve Bulletins* of February 1997 and March 2001.) In the IP index, series that measure the output of an individual industry are combined using weights derived from their proportion in the total value-added output of all industries. The IP index, which extends back to 1919, is built as a chain-type index since 1972. The current formula for the growth in monthly IP (or any of the sub-aggregates) since 1972 is shown below. An output index for month m is denoted by I_m^A for aggregate A and I_m for each of its components. The monthly price measure in the formula (p_m) is interpolated from an annual series of

The physical product group includes series based on either monthly or quarterly data. As can be seen in the first row of the table, in the first month, a physical product indicator is available for about half of the series (in terms of value added) that ultimately are based on physical product data (27 percent out of a total of 58 percent). Of the 27 percent, about two-thirds (19 percent of total IP) include series that are derived from weekly physical product data and for which actual monthly data may lag up to several months. On average, quarterly product data are received for the fourth estimate of industrial production. Specifically, quarterly data are available for the third estimate of the last month of a quarter, the fourth estimate of the second month of a quarter, and the fifth estimate of the first month of a quarter.

Seasonal adjustment. Individual series are seasonally adjusted using Census X-12 ARIMA. For series based on production-worker hours, the current seasonal factors were estimated with data through January 2011; for other series, the factors were estimated with data through at least December 2010. Series are pre-adjusted for the effects of holidays or business cycles when appropriate. For the data since 1972, all seasonally adjusted aggregate indexes are calculated by aggregating the seasonally adjusted indexes of the individual series.

Reliability. The average revision to the *level* of the total IP index, without regard to sign, between the first and the fourth estimates was 0.27 percent during the 1987–2010 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 1987–2010

period. In most cases (about 85 percent), the direction of the change in output indicated by the first estimate for a given month is the same as that shown by the fourth estimate.

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

CAPACITY UTILIZATION

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

Coverage. Capacity indexes are constructed for 89 detailed industries (71 in manufacturing, 16 in mining, and 2 in utilities), which mostly correspond to industries at the three- and four-digit NAICS level. Estimates of capacity and utilization are available for a variety of groups, including durable and nondurable manufacturing, total manufacturing, mining, utilities, and total industry. Manufacturing consists of those industries included in the North American Industry Classification System (NAICS) definition of manufacturing plus those industries— newspaper, periodical, book, and directory publishing plus logging—that have traditionally been considered to be manufacturing. Also, special aggregates are available, such as high-technology industries and manufacturing excluding high-technology industries.

Source Data. The monthly rates of capacity utilization are designed to be consistent with both the monthly data on production and the periodically available data on capacity and utilization. Because there is no direct monthly information on overall industrial capacity or utilization rates, the Federal Reserve first estimates annual capacity indexes from the source data. Capacity data reported in physical units from government sources (primarily from the U.S. Geological Survey and the Department of Energy's Energy Information Administration) and trade sources are available for portions of several industries in manufacturing (e.g., paper, industrial chemicals, petroleum refining, motor vehicles), as well as for electric utilities and mining; these industries represent about 25 percent of total industrial capacity. When physical product data are unavailable for manufacturing industries, capacity indexes are based on responses to the Bureau of the Census's Quarterly Survey of Plant Capacity (QSPC); these industries account for a bit less than 70 percent of total industry capacity. In the absence of utilization data for a few mining and petroleum series, capacity is based on trends through peaks in production (roughly 5 percent of total industry capacity). A detailed description of the methodology used to construct the capacity indexes is available on the Board's web site (www.federalreserve.gov/releases/G17/CapNotes.htm).

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

Consistency. A major aim is that the Federal Reserve utilization rates be consistent over time so that, for example, a rate of 85 percent means about the same degree of tightness that it meant in the past. A major task for the Federal Reserve in developing reasonable and consistent time series of capacity and utilization is dealing with inconsistencies between the movements of the industrial production index and the survey-based utilization rates. The McGraw-Hill/DRI Survey, now discontinued, was the primary source of manufacturing

utilization rates for many years. This was a survey of large companies that reported, on average, higher utilization rates than those reported by establishments covered by the Census Bureau's annual Survey of Plant Capacity (the predecessor to the QSPC) for the fourteen years they overlapped. Adjustments have been made to keep the industry utilization rates currently reported by the Federal Reserve roughly in line with rates formerly reported by McGraw-Hill. As a consequence, the rates reported by the Federal Reserve tend to be higher than the rates reported in the QSPC.

Perspective. Over the 1972–2010 period, the average total industry utilization rate is 80.4 percent; for manufacturing, the average factory operating rate has been 79.0 percent. Industrial plants usually operate at capacity utilization rates that are well below 100 percent: none of the broad aggregates has ever reached 100 percent. For total industry and total manufacturing, utilization rates have exceeded 90 percent only in wartime. The highs and lows in capacity utilization shown in table 7 are specific to each series and do not all occur in the same month.

REFERENCES AND RELEASE DATES

References. The release for the annual revision that was published on March 25, 2011 is available on the Board's website (www.federal $reserve.gov/releases/g17/revisions/Current/DefaultRev.htm). \ A$ summary of the annual revision that incorporated back to 1972 production and capacity indexes reclassified according to the North American Industry Classification System is available in an article in the Federal Reserve Bulletin, vol. 89 (April 2003), pp. 151-176. A description of the aggregation methods for industrial production and capacity utilization is included in an article in the Federal Reserve Bulletin, vol. 83 (February 1997), pp. 67-92. The Federal Reserve methodology for constructing industry-level measures of capital is detailed in "Capital Stock Estimates for Manufacturing Industries: Methods and Data" by Mike Mohr and Charles Gilbert (1996), which can be obtained at:

www.federalreserve.gov/releases/g17/CapitalStockDocLatest.pdf.

Industrial Production—1986 Edition contains a more detailed description of the other methods used to compile the industrial production index, plus a history of its development, a glossary of terms, and a bibliography. The major revisions to the IP indexes and capacity utilization since 1990 have been described in the Federal Reserve Bulletin (April 1990, June 1990, June 1993, March 1994, January 1995, January 1996, February 1997, February 1998, January 1999, March 2000, March 2001, March 2002, April 2003, Winter 2004, Winter 2005, March 2006, May 2007, August 2008, August 2009) or in an on-line staff study (www.federalreserve.gov/releases/g17/articles/rev2010/industrial10.pdf).

Release Schedule

At 9:15 a.m. on

2011: January 14, February 16, March 17, April 15, May 17, June 15, July 15, August 16, September 15, October 17, November 16, and December 15.

2012: January 18, February 15, March 16, April 17, May 16, June 15, July 17, August 15, September 14, October 16, November 16, and December 14.