# **FEDERAL RESERVE statistical release**



G.17 (419)

For release at 9:15 a.m. (EDT) June 16, 2014

#### INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production rose 0.6 percent in May after having declined 0.3 percent in April. The decrease in April was previously reported to have been 0.6 percent. Manufacturing output increased 0.6 percent in May after having moved down 0.1 percent in the previous month. In May, the output of mines gained 1.3 percent and the

(over)

## Industrial Production and Capacity Utilization: Summary

Seasonally adjusted

	2013	2014					2013	2014					May '13 to
Industrial production	Dec. <sup>r</sup>	Jan. <sup>r</sup>	Feb. <sup>r</sup>	Mar.r	Apr.r	May <sup>p</sup>	Dec.	Jan. <sup>r</sup>	Feb. <sup>r</sup>	Mar. <sup>r</sup>	Apr.r	May <sup>p</sup>	May '14
Total index	101.6	101.4	102.5	103.3	103.0	103.7	.2	2	1.1	.8	3	.6	4.3
Previous estimates	101.5	101.3	102.4	103.3	102.7		.2	2	1.1	.9	6		
Major market groups							_			_	_	_	
Final Products	98.8	98.2	100.0	100.7	100.0	100.2	.5	6	1.9	.7	7	.3	3.7
Consumer goods	96.6	95.9	97.7	98.2	97.1	97.2	.9	7	1.8	.5	-1.1	.1	3.1
Business equipment	102.6	102.5	105.0	106.0	106.1	107.0	6	1	2.5	1.0	.1	.8	5.3
Nonindustrial supplies	90.2	90.1	90.8	91.0	90.7	91.0	.1	.0	.8	.3	4	.3	3.1
Construction	82.6	82.3	83.1	83.8	83.3	83.9	5	3	.9	.8	6	.8	4.4
Materials	108.1	108.2	108.8	110.0	110.2	111.2	1	.1	.5	1.1	.1	.9	5.1
Major industry groups										_			
Manufacturing (see note below)	97.7	96.9	98.3	99.0	98.9	99.5	.2	9	1.4	.8	1	.6	3.6
Previous estimates	97.7	96.8	98.3	99.0	98.6		.2	9	1.5	.7	4		
Mining	121.6	122.8	123.1	125.4	127.4	129.1	.2	1.0	.2	1.9	1.6	1.3	9.7
Utilities	103.8	107.3	107.0	106.5	101.6	100.8	.1	3.3	3	5	-4.5	8	.6
					Danaa	nt of som	a.itr.						Capacity
	Avionogo	1988-	1990-	1994-	Perce	nt of capa	acity						growth
	Average 1972-	89	91	95	2009	2013	2013	2014					May '12 to
Capacity utilization	2013	high	low	high	low	May	Dec.	Jan. <sup>r</sup>	Feb. <sup>r</sup>	Mar. <sup>r</sup>	Apr.r	May <sup>p</sup>	May '13 to May '14
Capacity utilization	2013	Iligii	10W	IIIgii	IOW	Iviay	Dec.	Jan.	Teo.	iviai.	Apı.	iviay	Wiay 14
Total industry	80.1	85.3	78.7	85.0	66.9	77.8	78.5	78.1	78.8	79.3	78.9	79.1	2.4
Previous estimates	00.1	05.5	70.7	05.0	00.7	/ / / .0	78.4	78.1	78.8	79.3	78.6	17.1	2.4
1 revious estinates							70.4	70.1	70.0	17.5	70.0		
Manufacturing (see note below)	78.7	85.6	77.3	84.6	63.9	75.9	76.4	75.5	76.5	76.9	76.7	77.0	2.2
Previous estimates	70.7	05.0	77.5	01.0	03.7	, , , ,	76.4	75.5	76.5	76.9	76.4	,,,,	2.2
Mining	87.3	86.3	83.8	88.5	78.8	87.1	87.6	88.1	87.9	89.2	90.2	91.0	5.0
Utilities	86.1	92.9	84.3	93.3	78.5	79.3	81.8	84.5	84.2	83.7	79.9	79.1	.7
Cindes	00.1	)2.)	04.5	75.5	70.5	17.5	01.0	04.5	04.2	05.7	17.7	77.1	.,
Stage-of-process groups													
Crude		07.7	04.4	89.6	76.8	86.1	86.1	86.2	86.3	87.1	88.0	88.7	4.1
	863	X//	1 84.4	1 X9 D								00 /	
	86.3 80.8	87.7 86.5	84.4 77.9										
Primary and semifinished Finished	86.3 80.8 77.1	87.7 86.5 83.4	77.9 77.4	89.6 87.7 80.6	64.2 66.8	75.8 76.2	77.2 76.2	77.4 75.2	77.7 76.5	77.9 77.0	77.0 76.7	77.1 76.8	1.4 3.0

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.

production of utilities decreased 0.8 percent. At 103.7 percent of its 2007 average, total industrial production in May was 4.3 percent above its level of a year earlier. The capacity utilization rate for total industry increased 0.2 percentage point in May to 79.1 percent, a rate that is 1.0 percentage point below its long-run (1972–2013) average.

### Market Groups

In May, the production of consumer goods edged up 0.1 percent to a level that is 3.1 percent higher than a year earlier. The index for consumer durables increased 0.9 percent, while the indexes for consumer non-energy nondurables and consumer energy products decreased 0.2 percent and 0.1 percent, respectively. All of the major components of consumer durables posted gains, with the largest advance—1.5 percent—registered by automotive products. Among consumer non-energy nondurables, declines in the indexes for foods and tobacco, for clothing, and for paper products were partially offset by a gain in the index for chemical products. Within consumer energy products, a decline in the index for residential utilities slightly more than offset an increase in the output of fuels.

The production of business equipment rose 0.8 percent in May, its fourth consecutive monthly increase. All of the major components of business equipment recorded gains; the largest pickup—1.1 percent—was posted by industrial and other equipment. Over the past 12 months, the index for business equipment has advanced 5.3 percent.

The production of defense and space equipment moved down 0.3 percent in May after having been unchanged in April. The index for this market group in May was 2.6 percent above its level of a year earlier.

The indexes for both major categories of nonindustrial supplies rose in May after having decreased in April. In May, the output of construction supplies increased 0.8 percent and was 4.4 percent above its level of 12 months earlier. The production of business supplies edged up 0.1 percent and was 2.6 percent above its year-earlier level.

The index for materials to be processed further in the industrial sector moved up 0.9 percent in May, its fifth consecutive monthly increase; the index was 5.1 percent above its level of a year earlier. The major categories of materials all posted gains in May. The output of durable materials advanced 1.0 percent, with solid gains in all of its major components. The output of nondurable materials moved up 0.6 percent, as a gain in the index for chemical materials more than offset declines in the indexes for textile materials and paper materials. The output of energy materials rose 1.1 percent; it has advanced 7.1 percent in the past 12 months.

### **Industry Groups**

Manufacturing production increased 0.6 percent in May after having edged down 0.1 percent in April; previously, factory output was reported to have declined 0.4 percent in April. In May, the index was 3.6 percent above its level of a year earlier but 1.3 percent below its peak in December 2007. The factory operating rate moved up 0.3 percentage point in May to 77.0 percent, its highest level since March 2008 but still 1.7 percentage points below its long-run average.

The production of durable goods rose 0.9 percent in May to a level 5.3 percent higher than a year earlier. Gains were widespread within this industry group: With the exception of primary metals, which edged down 0.1 percent, all of the major durable goods industries recorded gains of 0.6 percent or more. Capacity utilization for durable goods manufacturing increased 0.4 percentage point to 76.8 percent, a rate only 0.2 percentage point below its long-run average and 1.3 percentage points above its level of a year earlier.

Nondurable manufacturing output increased 0.4 percent in May after having moved down 0.2 percent in April; the index in May was 2.2 percent above its level of a year earlier. Sizable gains in the indexes for petroleum and coal products, for chemicals, and for plastics and rubber products more than outweighed the losses in all of the other major components of nondurables. Capacity utilization for nondurable manufacturing moved up 0.2 percentage point to 78.6 percent, a rate 2.1 percentage points below its long-run average but 0.8 percentage point above its level of a year earlier.

After having moved up 0.4 percent in April, the output of non-NAICS manufacturing industries (publishing and logging) decreased 0.8 percent in May to a level that was 2.2 percent lower than a year earlier.

Mining output advanced 1.3 percent in May following gains of more than  $1\frac{1}{2}$  percent in each of the previous two months. Increases were widespread within mining, including oil and gas extraction, coal mining, and drilling and related activities. The index for mining was 9.7 percent above its year-earlier level. Capacity utilization at mines increased 0.8 percentage point in May to 91.0 percent, a rate 3.7 percentage points above its long-run average. The output of utilities moved down 0.8 percent, its fourth consecutive decline. The operating rate for utilities fell 0.8 percentage point to 79.1 percent, a rate 7.0 percentage points below its long-run average.

Capacity utilization rates in May for industries grouped by stage of process were as follows: At the crude stage, utilization increased 0.7 percentage point to 88.7 percent, a rate 2.4 percentage points above its long-run average; at the primary and semifinished stages, utilization edged up 0.1 percentage point to 77.1 percent, a rate 3.7 percentage points below its long-run average; and at the finished stage, utilization also edged up 0.1 percentage point, to 76.8 percent, a rate 0.3 percentage point below its long-run average.

#### **Tables**

- 1. Industrial Production: Market and Industry Group Summary; percent change
- 2. Industrial Production: Special Aggregates and Selected Detail; percent change
- 3. Motor Vehicle Assemblies
- 4. Industrial Production: Market and Industry Group Summary; indexes
- 5. Industrial Production: Special Aggregates and Selected Detail; indexes
- 6. Diffusion Indexes of Industrial Production
- 7. Capacity Utilization
- 8. Industrial Capacity
- 9. Gross Value of Final Products and Nonindustrial Supplies
- 10. Gross-Value-Weighted Industrial Production: Stage-of-Process Groups
- 11. Historical Statistics: Total Industry
- 12. Historical Statistics: Manufacturing
- 13. Historical Statistics: Total Industry Excluding Selected High-Technology Industries
- 14. Historical Statistics: Manufacturing Excluding Selected High-Technology Industries

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

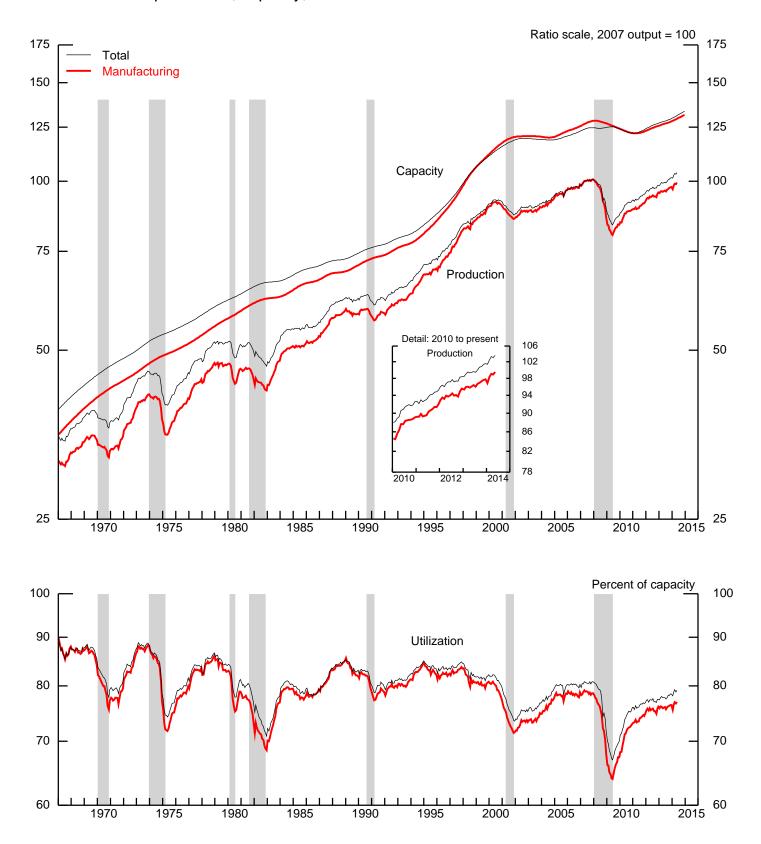
### **Revision of Industrial Production and Capacity Utilization**

The Federal Reserve Board issued its annual revision to the index of industrial production (IP) and the related measures of capacity utilization on March 28, 2014. The revised indexes for IP incorporated data from the U.S. Geological Survey regarding metallic and nonmetallic minerals (except fuels) for 2012. The update also included revisions to the monthly indicators (either product data or input data) and to seasonal factors for each industry. In addition, the estimation methods for some series changed. Modifications to the methods for estimating the output of an industry affected the index from 1972 to the present.

Capacity and capacity utilization were revised to incorporate data through the fourth quarter of 2013 from the Census Bureau's Quarterly Survey of Plant Capacity, which covers manufacturing, along with new data on capacity from the U.S. Geological Survey, the Department of Energy, and other organizations.

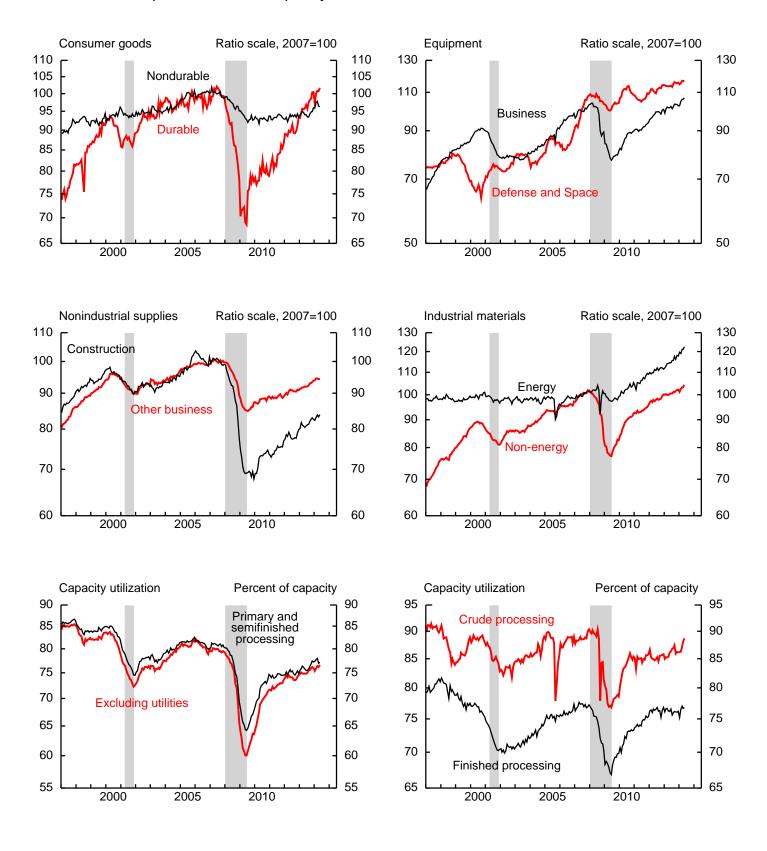
The release for the 2014 annual revision is available on the Federal Reserve Board's website at www.federalreserve.gov/releases/G17.

# 1. Industrial production, capacity, and utilization



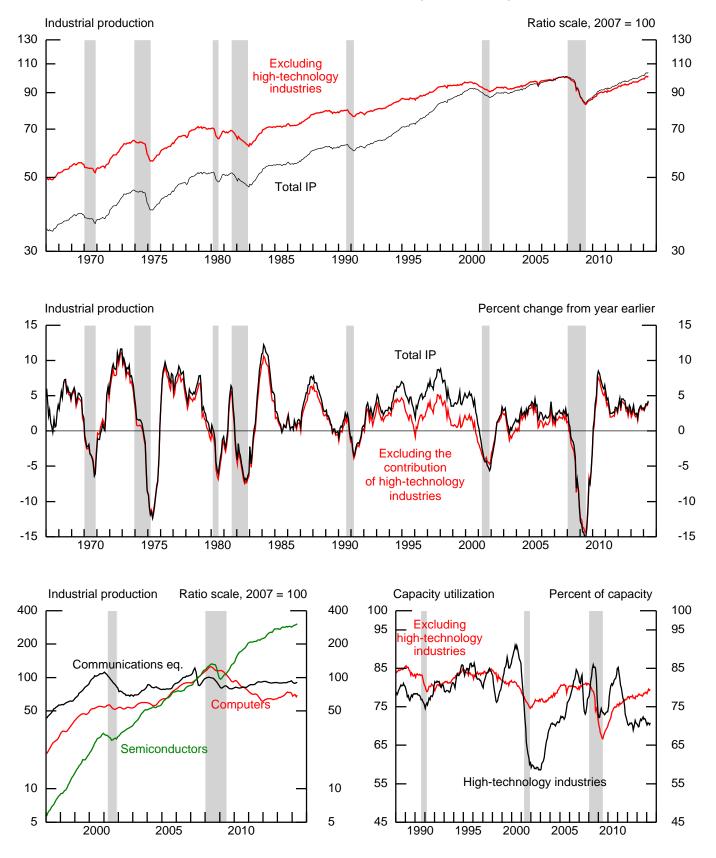
Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

## 2. Industrial production and capacity utilization



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

# 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

Total IP		2013 proportion <sup>1</sup>	2011	2012	2013	2013 Q3	Q4 <sup>r</sup>	2014 Q1 <sup>r</sup>	2013 Dec. <sup>r</sup>	2014 Jan. <sup>r</sup>	Dala I				to
		_				V-	QΤ	Q1	DCC.	Jan.	Feb.r	Mar.r	Apr.r	May <sup>p</sup>	May '14
		100.00	3.2	3.2	3.3	2.5	4.9	4.5	.2	2	1.1	.8	3	.6	4.3
MARKET GROUPS															
Final products and nonindustrial supplies		52.70	2.3	2.7	3.2	.9	5.9	4.7	.4	4	1.6	.6	6	.3	3.6
Consumer goods		26.78	2.0	1.6	3.2	9	7.6	5.6	.9	7	1.8	.5	-1.1	.1	3.1
Durable		5.88 3.01	8.0 15.1	6.2	9.1	4.4	11.5 16.3	-1.8 -2.2	.1 .4	-3.2 -5.8	2.9 6.3	.8	1	.9 1.5	6.1 7.5
Automotive products Home electronics		.13	5.2	6.6 -2.5	11.2 4.7	2.9 -2.3	7.1	-6.3	2	-2.6	1.3	4	9 .5	.3	1.6
Appliances, furniture, carpeting		.78	1.3	3.7	7.4	6.8	12.0	-4.0	1.2	-2.0	-2.3	2.7	2.2	.s .9	7.6
Miscellaneous goods		1.97	.8	7.5	6.7	6.2	4.5	.1	9	.2	1	.4	.2	.1	3.7
Nondurable		20.90	.5	.4	1.6	-2.4	6.5	7.8	1.1	.0	1.5	.4	-1.4	1	2.3
Non-energy		15.62	1.1	.2	.3	-1.0	1.9	3.6	1.1	8	1.1	.8	3	2	1.8
Foods and tobacco		9.00	.9	3.1	.8	-1.5	3.8	2.8	1.4	-1.2	1.2	.9	2	5	2.0
Clothing		.19	-7.8	-1.5	6.3	11.3	6.8	.3	1.8	9	9	2.5	1	2	4.9
Chemical products		4.65	2.6	-3.8	3	-2.8	8	7.7	.8	1	1.5	1.0	7	.3	1.9
Paper products		1.29	3	-6.3	-2.9	5.0	-5.3	-3.4	.1	.4	9	-1.0	.3	4	-2.4
Energy		5.27	-1.2	1.0	5.7	-6.2	21.5	20.7	1.1	2.3	2.6	6	-4.6	1	3.8
Business equipment		9.47	4.6	6.6	3.4	2.0	3.4	5.6	6	1	2.5	1.0	.1	.8	5.3
Transit		2.25	7.1	14.6	3.2	-1.4	4.8	8	2	-2.9	3.3	1.7	.4	.5	4.2
Information processing		2.02	.9	6.3	3.9	6.1	4.4	9	.1	2	5	1.3	9	.4	2.1
Industrial and other		5.20	5.3	3.7	3.3	1.9	2.3	11.1	-1.0	1.1	3.2	.6	.3	1.1	7.0
Defense and space equipment		2.26	5	4.6	1.7	3.8	2.8	.5	.3	8	.7	1.1	.0	3	2.6
~															
Construction supplies Business supplies		4.14 9.27	2.5	3.8 2.1	5.0 2.9	4.2 2.3	6.4 4.5	1.6 3.7	5 .4	3 .1	.9 .7	.8 .0	6 3	.8 .1	4.4 2.6
Materials		47.30	4.1	3.8	3.5	4.3	3.8	4.4	1	.1	.5	1.1	.1	.9	5.1
Non-energy		28.50	3.7	4.5	2.6	2.7	3.8	1.4	.1	9	1.2	.7	.2	.9	3.7
Durable		17.33	7.1	6.1	4.2	4.4	6.8	2.9	5	6	1.7	.9	.0	1.0	5.8
Consumer parts		2.49	5.2	8.6	6.5	4.1	13.1	2	3	-2.2	2.1	.9	1	1.0	6.0
Equipment parts		6.40	11.8	8.2	4.1	5.5	3.9	5.7	9	.3	2.2	.4	6	1.4	5.5
Other		8.45	4.1	3.8	3.5	3.7	7.2	1.7	3	8	1.2	1.2	.5	.7	5.8
Nondurable		11.16	-1.1	2.1	.1	.0	8	9	1.2	-1.4	.5	.5	.4	.6	.6
Textile		.41	-2.4	-1.6	1.7	1.7	5.3	-9.0	-1.2	-1.7	-3.8	7.4	1	-2.1	1.3
Paper		1.88	-1.3	-2.3	5	-1.8	-3.0	-6.2	.8	7	-1.6	.3	.8	6	-3.3
Chemical		5.68	-1.6	4.5	.2	.4	-1.5	.5	1.6	-1.6	.9	.3	.3	1.2	1.2
Energy		18.81	4.7	2.6	4.9	7.0	3.7	8.9	3	1.6	5	1.8	.1	1.1	7.1
INDUSTRY GROUPS Manufacturing		74.32	3.1	3.5	2.9	1.9	4.2	2.1	.2	9	1.4	.8	1	.6	3.6
Manufacturing (NAICS)	31–33	71.79	3.3	3.9	3.2	1.7	4.7	2.3	.2	9	1.5	.8	1	.7	3.8
Durable manufacturing		37.96	6.0	6.2	4.9	3.6	6.9	2.1	6	9	1.9	.8	.0	.9	5.3
Wood products	321	.91	1.0	7.8	9.0	10.2	13.5	-11.6	-1.5	-2.9	.1	1.4	.9	1.7	6.2
Nonmetallic mineral products	327	1.51	1	2.2	3.9	4.8	2.4	6.3	-1.5	2.2	6	1.4	1.1	.8	5.5
Primary metals	331	3.12	8.5	-1.4	4.0	5.5	9.5	-4.4	7	-2.1	2.5	2	.8	1	3.5
Fabricated metal products	332	5.61	6.4	5.4	4.8	3.6	8.4	1.6	6	6	1.1	.3	.2	.7	5.0
Machinery	333	5.60	8.1	1.8	4.9	4.7	5.4	11.7	-2.5	2.4	3.0	.2	5	1.1	7.6
Computer and electronic products	334	6.07	6.7	12.9	4.2	4.8	2.6	3.5	4	.5	.5	1.0	2	.7	3.6
Electrical equip., appliances,										_					
and components	335	1.81	2.2	4.1	2.5	2.9	4.6	2.5	.2	7	1.0	.8	4	1.1	4.3
Motor vehicles and parts	3361–3	4.52	11.3	11.5	8.9	2.7	14.5	-2.4	.1	-5.9	6.7	.3	1	1.5	7.7
Aerospace and miscellaneous	2264.0	4 - 1		<i>-</i> ^	2.2	_	2.2	2.5	4	~	1.2	1.0	4		2.2
transportation equipment	3364–9	4.61	6.4	5.0	2.3	7	3.3	2.6	.1	7	1.2	1.9	4	.6	3.2
Furniture and related products	337	1.00	1	4.3	4.6	-3.4	8.6	3.8	1.1	-1.3	8	4.1	.3	1.0	6.7
Miscellaneous	339	3.20	5	7.4	6.7	5.6	8.1	-1.4	.5	-2.1	1.2	1.2	.2	1.2	6.0
Nondanoble manufacturi		22.02	4	1.2	1.0	4	2.2	2.0	1.1	1.0	1.0	0	2	4	2.2
Nondurable manufacturing	211.0	33.82 10.94	.4	1.3 3.3	1.2	4 -1.0	2.3 3.9	2.6 2.8	1.1	-1.0	1.0 1.4	.8 .7	2 1	.4	2.2 2.4
Food, beverage, and tobacco products Textile and product mills	311,2 313,4			-1.0	1.0	2.2	4.3	-6.0	1.4 5	-1.4 -2.3	7	3.5		3 9	1.7
Apparel and leather	315,4	.66	6 -5.1	-1.0	5.9	11.5	4.0	-1.3	1.8	-2.3	-1.1	2.7	.1 .1	9 4	3.7
Apparer and leather Paper	313,6	2.32	-3.1	-1.9	-1.4	-2.3	-5.4	-1.3 -7.1	.0	-1.2 1	-1.1 -1.9	.0	1.8	4 5	-3.9
Printing and support	323	1.30	-3.7	-2.1	3.1	-2.5	10.3	1.5	2.8	-1.9	-1.9	1.0	-1.2	3 1	1.3
Petroleum and coal products	324	3.81	3.0	-1.5	1.7	2.6	2.1	4.6	.1	.0	1.0	1.1	-1.5	1.3	3.0
Chemicals	325	11.59	.1	1.0	.7	-1.4	1.0	3.5	1.4	-1.1	1.3	.5	1	.7	2.0
	326	2.95	.8	4.9	4.4	2.6	4.5	5.9	.3	3	1.2	2.0	8	1.8	5.9
Plastics and rubber products		2.52	2	-6.2	-3.4	7.7	-9.1	-3.3	1	3	.4	3	.4	8	-2.2
· ·	1133,5111	2.53	2					I							
Other manufacturing (non-NAICS) Mining	21	15.88	7.4	4.2	4.8	11.8	4	9.2	.2	1.0	.2	1.9	1.6	1.3	9.7
Other manufacturing (non-NAICS) Mining Utilities	21 2211,2	15.88 9.81	7.4	4.2	4.2	-6.7	19.6	15.5	.1	3.3	3	5	-4.5	8	.6
Other manufacturing (non-NAICS)	21	15.88	7.4	4.2											

r Revised. p Preliminary.

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

<sup>1.</sup> 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

rercent change, seasonarry adjusted															
			1	rth quart								1			
<b>.</b>		2012	for	urth quar	ter		nnual ra		2012	2011	Month	nly rate			May '13
Item		2013	2011	2012	2012	2013	Q4 <sup>r</sup>	2014	2013	2014	Est I	Manif	Δ Γ	<b>N</b> 4 D	to
		proportion	2011	2012	2013	Q3	Ų4	Q1 <sup>r</sup>	Dec. <sup>r</sup>	Jan. <sup>r</sup>	Feb. <sup>r</sup>	Mar. <sup>r</sup>	Apr. <sup>r</sup>	May <sup>p</sup>	May '14
<b>Total industry</b>		100.00	3.2	3.2	3.3	2.5	4.9	4.5	.2	2	1.1	.8	3	.6	4.3
,															
Energy		27.74	3.3	1.8	4.8	3.7	7.5	10.7	.0	1.8	.0	1.0	9	.7	5.8
Consumer products		5.27	-1.2	1.0	5.7	-6.2	21.5	20.7	1.1	2.3	2.6	6	-4.6	1	3.8
Commercial products	212111	2.92	2	1.4	4.0	1.9	10.0	6.2	.1	2.4	-1.2	-1.7	-1.0	5	1.1
Oil and gas well drilling	213111	.73	21.3	-7.5	-1.2	5.9	-1.3	3.4	.6	2	1	1.9	1.3	.9	5.8
Converted fuel		3.88	-1.3	.3	1.0	-4.2	14.8	15.7	.6	3.1	-1.4	1.5	-3.5	.6	3.8
Primary energy		14.92	6.6	3.3	6.1	10.2	1.0	7.2	6	1.2	3	1.8	1.0	1.2	7.9
Non-energy		72.26	3.1	3.7	2.8	2.0	3.9	2.2	.2	9	1.5	.8	.0	.6	3.7
Selected high-technology industries		3.27	8.8	16.9	5.4	7.2	2.0	2.7	7	1	1.5	.6	.3	1.6	5.3
Computers and peripheral equipment	3341	.35	-20.0	2.6	13.6	31.8	.7	-19.0	-1.7	-5.8	2.0	1.3	-4.1	2.7	1.8
Communications equipment	3342	.49	11.2	-1.5	2.5	2.8	9.5	-12.0	1.1	-2.8	-1.7	4	1.1	.7	.7
Semiconductors and related	33 FZ	. +7	11.2	1.3	2.3	2.0	7.5	12.0	1.1	2.0	1.7	. 1	1.1	.,	.,
electronic components	334412-9	2.42	13.7	23.9	5.0	5.0	.8	9.5	9	1.3	2.1	.7	.8	1.6	6.7
•															
Excluding selected high-technology												_	_		
industries		68.99	2.8	3.1	2.7	1.8	4.0	2.2	.3	-1.0	1.5	.8	.0	.5	3.6
Motor vehicles and parts	3361-3	4.52	11.3	11.5	8.9	2.7	14.5	-2.4	1	-5.9	6.7	.3	1	1.5	7.7
Motor vehicles	3361	2.22	18.0	12.7	11.7	2.7	19.9	-2.4	.1	-9.5	10.1	2	1 3	2.2	9.0
Motor vehicle parts	3363	2.00	4.8	9.7	5.9	2.3	6.7	1.4	3	-2.5	3.2	.7	3	1.3	5.5
Wictor Vemere parts	3303	2.00	1.0	<i>7.7</i>	3.7	2.1	0.7	1		2.5	3.2	.,		1.5	3.5
Excluding motor vehicles and parts		64.47	2.3	2.5	2.3	1.7	3.3	2.5	.3	6	1.1	.8	.0	.4	3.3
Consumer goods		18.91	1.4	1.1	1.3	1	2.7	2.9	.9	7	.9	.9	2	1	2.2
Business equipment		8.20	5.4	6.0	3.8	1.8	2.8	8.1	7	.7	2.2	1.2	.0	.8	5.7
Construction supplies		4.13	2.4	3.9	5.0	4.2	6.4	1.6	5	3	.9	.8	6	.8	4.4
Business supplies Materials		6.05 24.90	.2 2.8	1.5 2.4	2.3 2.0	2.2 2.3	2.0 3.7	2.2	.6 .2	-1.1 9	1.6 1.0	.8 .7	.1 .1	.4 .7	3.1 3.3
Materials		24.50	2.0	2.4	2.0	2.3	3.7	.,	.2	,	1.0	.,	.1	.,	3.3
Measures excluding selected															
high-technology industries															
Total industry		96.73	2.9	2.7	3.3	2.3	5.0	4.6	.2	2	1.1	.8	3	.6	4.2
Manufacturing <sup>1</sup>		71.04	2.8	2.8	2.8	1.6	4.3	2.1	.2	9	1.4	.8	1	.6	3.5
Durable		34.84	5.7	5.1	4.9	3.3	7.4	2.1	6	-1.0	2.0	.8	1	.8	5.3
Manager and the second second to be															
Measures excluding motor vehicles and parts															
Total industry		95.48	2.8	2.8	3.1	2.5	4.4	4.9	.2	.1	.8	.9	3	.5	4.1
Manufacturing <sup>1</sup>		69.79	2.7	3.0	2.6	1.9	3.6	2.5	.2	6	1.1	.8	3 1	.5	3.3
Durable		33.59	5.4	5.5	4.4	3.9	5.9	2.8	7	2	1.3	.9	.0	.8	5.0
Measures excluding selected															
high-technology industries															
and motor vehicles and parts															
Total industry		92.21	2.6	2.3	3.0	2.3	4.5	5.0	.2	.1	.8	.9	3	.5	4.1
Manufacturing <sup>1</sup>		66.52	2.3	2.3	2.4	1.6	3.6	2.4	.2	6	1.1	.8	1	.5	3.2
Stage-of-process components															
of non-energy materials,															
measures of the input to		11 17	7.2	60	20	20	A O	1.0	_	=	1 4	7	2	0	4.0
Finished processors Primary and semifinished processors		11.17 17.32	7.3	6.0 3.5	3.8 1.8	3.8	4.8	1.8 1.2	5 .5	5 -1.2	1.4	.7 .7	2 .4	.9	4.0 3.6
I finally and seminished processors		17.32	1.4	5.5	1.0	1.9	3.1	1.2		-1.2	1.2	. /	.4	.9	3.0

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

rinnons of units, seasonany adjusted annual rate	•										
	2013	2013			2014	2013	2014				
Item	average	Q2	Q3	Q4	Q1	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total	11.07	11.08	10.97	11.41	11.18	11.58	10.54	11.50	11.48	11.46	11.58
Autos	4.37	4.42	4.22	4.41	4.20	4.50	4.17	4.30	4.13	4.04	3.94
Trucks	6.70	6.67	6.75	7.00	6.98	7.08	6.38	7.20	7.35	7.42	7.63
Light	6.45	6.41	6.48	6.75	6.71	6.83	6.12	6.93	7.08	7.13	7.34
Medium and heavy	.25	.26	.27	.25	.27	.25	.26	.27	.27	.29	.29
Memo Autos and light trucks	10.82	10.82	10.70	11.16	10.91	11.33	10.29	11.23	11.21	11.17	11.29
Autos and right trucks	10.82	10.62	10.70	11.10	10.71	11.33	10.29	11.23	11.21	11.17	11.27

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

2007 = 100, seasonally adjusted											
Item		2013 proportion	2013 Sept.	Oct.	Nov.	Dec.r	2014 Jan. <sup>r</sup>	Feb.r	Mar. <sup>r</sup>	Apr.r	May <sup>p</sup>
Total IP		100.00	100.7	100.8	101.4	101.6	101.4	102.5	103.3	103.0	103.7
Market Groups											
Final products and nonindustrial supplies		52.70	95.4	95.8	96.0	96.4	96.0	97.5	98.0	97.4	97.7
Consumer goods		26.78	94.9	95.4	95.8	96.6	95.9	97.7	98.2	97.1	97.2
Durable		5.88	98.1	98.6	100.3	100.4	97.2	100.0	100.8	100.7	101.7
Automotive products		3.01	111.8	111.8	114.5	115.0	108.4	115.2	115.9	114.9	116.6
Home electronics		.13	60.1	61.1	61.9	61.8	60.2	61.0	60.7	61.0	61.2
Appliances, furniture, carpeting		.78	71.2	72.7	73.2	74.1	73.1	71.4	73.3	75.0	75.6
Miscellaneous goods		1.97	94.7	95.4	96.4	95.5	95.7	95.6	96.0	96.2	96.3
Nondurable		20.90	94.4	94.9	94.9	96.0	96.0	97.4	97.8	96.4	96.3
Non-energy		15.62	91.5	91.5	91.4	92.4	91.6	92.7	93.4	93.1	93.0
Foods and tobacco Clothing		9.00	99.7 61.5	100.0 61.7	99.9 60.9	101.2 62.0	100.0 61.4	101.2 60.9	102.1 62.4	101.9 62.4	101.4 62.2
Chemical products		4.65	82.9	82.7	82.9	83.5	83.4	84.7	85.6	85.0	85.3
Paper products		1.29	76.6	75.6	74.7	74.7	75.1	74.4	73.6	73.8	73.5
Energy		5.27	104.1	106.4	107.0	108.2	110.7	113.5	112.9	107.7	107.6
Business equipment		9.47	103.4	103.4	103.2	102.6	102.5	105.0	106.0	106.1	107.0
Transit Transit		2.25	108.1	107.3	107.6	107.4	102.3	107.8	100.6	110.1	110.6
Information processing		2.02	101.6	101.8	101.3	101.4	101.2	100.7	102.0	101.1	101.4
Industrial and other		5.20	101.4	101.7	101.4	100.4	101.5	104.7	105.4	105.7	106.8
Defense and space equipment		2.26	116.1	115.7	115.3	115.6	114.7	115.5	116.8	116.8	116.4
Construction supplies		4.14	82.0	82.7	83.0	82.6	82.3	83.1	83.8	83.3	83.9
Business supplies		9.27	93.0	93.2	93.4	93.8	82.3 93.9	94.5	83.8 94.5	94.3	83.9 94.4
		47.20	107.4	107.2	100.2	100.1	100.2	100.0	110.0	110.2	111.0
Materials Non-energy		47.30 28.50	107.4 101.2	107.3 101.6	108.2 102.0	108.1 102.1	108.2 101.2	108.8 102.5	110.0 103.2	110.2 103.4	111.2 104.2
Durable		17.33	101.2	110.5	111.4	110.8	110.1	112.0	113.0	113.0	114.1
Consumer parts		2.49	95.1	95.4	97.3	97.1	94.9	96.9	97.8	97.7	98.7
Equipment parts		6.40	142.4	143.0	143.6	142.3	142.6	145.8	146.4	145.5	147.6
Other		8.45	93.7	94.5	95.3	95.0	94.2	95.3	96.5	97.0	97.7
Nondurable		11.16	89.4	89.5	89.3	90.3	89.1	89.5	89.9	90.3	90.9
Textile		.41	77.1	77.7	78.5	77.6	76.3	73.4	78.8	78.7	77.1
Paper		1.88	81.9	82.7	81.6	82.2	81.7	80.3	80.6	81.3	80.8
Chemical Energy		5.68 18.81	90.3 117.6	90.0 116.3	89.8 118.1	91.2 117.8	89.8 119.7	90.7 119.0	90.9 121.1	91.2 121.3	92.3 122.5
INDUSTRY GROUPS Manufacturing		74.32	96.9	97.3	97.6	97.7	96.9	98.3	99.0	98.9	99.5
Manufacturing (NAICS)	31–33	71.79	98.3	98.7	99.1	99.3	98.3	99.8	100.6	100.5	101.2
Durable manufacturing		37.96	105.5	106.1	106.8	106.2	105.3	107.3	108.2	108.2	109.2
Wood products	321	.91	79.4	80.8	81.4	80.2	77.9	78.0	79.1	79.9	81.2
Nonmetallic mineral products	327	1.51	74.5	74.6	75.3	74.2	75.8	75.3	76.4	77.3	77.9
Primary metals	331	3.12	100.8	103.6	103.2	102.5	100.4	102.8	102.7	103.5	103.4
Fabricated metal products	332	5.61	94.9	95.6	97.1	96.6	96.0	97.1	97.3	97.5	98.2
Machinery Computer and electronic products	333 334	5.60 6.07	104.6 146.3	105.3 147.0	105.6 146.5	102.9 146.0	105.3 146.7	108.5 147.5	108.7 149.1	108.2 148.7	109.4 149.8
Electrical equip., appliances,	334	0.07	140.3	147.0	140.3	140.0	140.7	147.3	147.1	140.7	149.6
and components	335	1.81	88.3	89.1	89.6	89.8	89.2	90.1	90.8	90.5	91.5
Motor vehicles and parts	3361–3	4.52	107.5	106.6	109.6	109.7	103.2	110.2	110.5	110.4	112.1
Aerospace and miscellaneous											
transportation equipment	3364-9	4.61	106.1	106.3	106.0	106.1	105.3	106.6	108.6	108.2	108.8
Furniture and related products	337	1.00	70.5	70.7	72.0	72.9	72.0	71.4	74.3	74.5	75.2
Miscellaneous	339	3.20	110.8	111.5	112.4	112.9	110.5	111.9	113.3	113.5	114.9
Nondurable manufacturing		33.82	90.9	91.2	91.2	92.2	91.2	92.1	92.9	92.7	93.0
Food, beverage, and tobacco products	311,2	10.94	100.9	101.3	101.3	102.7	101.3	102.7	103.4	103.3	103.0
Textile and product mills	313,4	.66	73.3	73.5	74.3	74.0	72.3	71.8	74.3	74.4	73.7
Apparel and leather	315,6	.25	60.4	60.4	59.5	60.6	59.9	59.2	60.8	60.8	60.6
Paper	322	2.32	84.1	84.6	83.5	83.5	83.4	81.8	81.8	83.3	82.9
Printing and support Petroleum and coal products	323 324	1.30 3.81	74.5 96.8	76.0 96.6	76.2 96.6	78.3 96.8	76.8 96.7	76.9 97.7	77.7 98.8	76.7 97.3	76.6 98.5
Chemicals	324	11.59	87.2	87.3	87.3	88.5	96.7 87.5	88.7	89.2	89.1	89.7
Plastics and rubber products	326	2.95	91.6	91.9	92.2	92.5	92.2	93.3	95.1	94.4	96.1
Other manufacturing (non-NAICS)	1133,5111	2.53	70.6	68.9	67.8	67.7	67.5	67.7	67.5	67.7	67.2
Other manufacturing (non-twites)		1	I								
	21	15.88	122.6	120.2	121.3	121.6	122.8	123.1	125.4	127.4	120.1
Mining Utilities	21 2211,2	15.88 9.81	122.6 100.3	120.2 101.8	121.3 103.7	121.6 103.8	122.8 107.3	123.1 107.0	125.4 106.5	127.4 101.6	129.1 100.8
Mining											

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

 Table 5

 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

 2007 = 100, seasonally adjusted

100, seasonarry adjusted											
Item		2013 proportion	2013 Sept.	Oct.	Nov.	Dec. <sup>r</sup>	2014 Jan. <sup>r</sup>	Feb. <sup>r</sup>	Mar. <sup>r</sup>	Apr.r	May <sup>p</sup>
Total industry		100.00	100.7	100.8	101.4	101.6	101.4	102.5	103.3	103.0	103.7
Energy		27.74	112.6	112.2	113.7	113.8	115.8	115.8	116.9	115.9	116.7
Consumer products		5.27	104.1	106.4	107.0	108.2	110.7	113.5	112.9	107.7	107.6
Commercial products		2.92	104.1	104.3	105.9	106.0	108.4	107.1	105.3	104.2	103.7
Oil and gas well drilling	213111	.73	98.4	97.2	97.5	98.1	97.9	97.7	99.6	100.9	101.9
Converted fuel		3.88	97.2	97.2	99.0	99.6	102.7	101.3	102.8	99.2	99.8
Primary energy		14.92	124.3	122.6	124.5	123.8	125.3	124.9	127.2	128.5	130.0
Non-energy		72.26	96.8	97.0	97.3	97.5	96.6	98.0	98.8	98.8	99.3
Selected high-technology industries		3.27	183.1	184.2	184.5	183.2	183.0	185.7	186.9	187.5	190.5
Computers and peripheral equipment	3341	.35	74.0	73.0	73.5	72.2	68.0	69.3	70.2	67.3	69.1
Communications equipment	3342	.49	90.8	91.5	92.2	93.2	90.5	89.0	88.6	89.6	90.3
Semiconductors and related											
electronic components	334412–9	2.42	285.3	287.8	287.6	285.0	288.6	294.6	296.8	299.2	304.0
Excluding selected high-technology											
industries		68.99	93.3	93.5	93.7	94.0	93.1	94.5	95.2	95.2	95.7
Motor vehicles and parts	3361-3	4.52	107.5	106.6	109.6	109.7	103.2	110.2	110.5	110.4	112.1
Motor vehicles	3361	2.22	114.6	113.0	117.0	117.7	106.5	117.3	117.1	116.8	119.4
Motor vehicle parts	3363	2.00	103.2	102.6	104.8	104.5	101.9	105.2	105.9	106.0	107.4
Excluding motor vehicles and parts		64.47	92.4	92.7	92.7	93.0	92.4	93.5	94.2	94.2	94.6
Consumer goods		18.91	90.3	90.5	90.5	91.3	90.7	91.4	92.2	92.1	92.0
Business equipment		8.20	105.3	105.5	105.1	104.4	105.1	107.4	108.7	108.7	109.6
Construction supplies		4.13	81.9	82.6	82.9	82.5	82.2	83.0	83.7	83.2	83.8
Business supplies		6.05	84.8	84.9	84.7	85.3	84.3	85.7	86.3	86.4	86.7
Materials		24.90	92.6	93.1	93.4	93.6	92.7	93.6	94.3	94.4	95.1
Measures excluding selected high-technology											
industries											
Total industry		96.73	98.2	98.3	98.9	99.1	98.9	99.9	100.8	100.5	101.1
Manufacturing <sup>1</sup>		71.04	93.5	93.8	94.1	94.3	93.4	94.8	95.5	95.4	96.0
Durable		34.84	98.7	99.3	100.0	99.5	98.5	100.5	101.3	101.3	102.1
Measures excluding motor vehicles and parts											
Total industry		95.48	100.4	100.5	101.0	101.1	101.2	102.1	102.9	102.7	103.2
Manufacturing <sup>1</sup>		69.79	96.3	96.7	96.8	97.0	96.4	97.5	98.3	98.2	98.7
Durable		33.59	105.1	105.9	106.3	105.6	105.4	106.8	107.8	107.7	108.6
Measures excluding selected high-technology											
industries and motor vehicles and parts											
Total industry		92.21	97.8	97.9	98.3	98.5	98.6	99.4	100.3	100.0	100.5
Manufacturing <sup>1</sup>		66.52	92.6	93.0	93.1	93.4	92.8	93.8	94.6	94.5	94.9
Stage-of-process components of non-energy											
materials, measures of the input to											
Finished processors		11.17	114.8	115.4	116.0	115.4	114.8	116.4	117.2	117.0	118.0
Primary and semifinished processors		17.32	92.9	93.2	93.6	94.0	92.9	94.0	94.7	95.1	95.9
1 milary and seminimistica processors		17.32	12.7	73.2	75.0	74.0	14.)	74.0	74.7	75.1	75.7
		1	1								

Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

ercent Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Αμα	Sept.	Oct.	Nov.	Dec.
Rem	Jan.	1.60.	iviai.	Apı.	iviay	Julie	July	Aug.	зері.	Oct.	NOV.	Dec.
One month earlier												
2012	62.8	62.8	46.5	67.3	51.3	57.1	52.2	43.6	53.5	53.2	67.3	62.2
2013	55.1	62.2	50.6	51.6	54.5	62.2	50.6	63.5	57.4	53.8	58.7	53.5
2014	37.2	64.7	66.7	49.0								
Three months earlier												
2012	63.8	71.9	63.0	59.9	53.8	62.8	56.7	51.9	48.1	41.7	60.9	66.3
2013	67.6	63.5	55.4	53.8	51.6	56.1	55.1	64.1	58.7	61.2	61.9	56.4
2014	51.0	56.7	62.2	67.0								
Six months earlier												
2012	67.0	72.9	64.7	65.3	66.3	61.4	62.5	55.8	59.6	53.2	56.7	62.2
2013	58.3	63.8	65.1	67.6	57.7	56.7	57.4	56.7	57.4	66.3	66.2	64.1
2014	58.0	61.5	68.3	65.1								

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

r Revised. p Preliminary.

1. Refer to note on cover page.

Table 7
CAPACITY UTILIZATION
Percent of capacity, seasonally adjusted

Item		2013	1972- 2013	1994- 95	2009	2013		2014	2013	2014				
		proportion	ave.	high	low	Q3	Q4 <sup>r</sup>	Q1 <sup>r</sup>	Dec. <sup>r</sup>	Jan. <sup>r</sup>	Feb. <sup>r</sup>	Mar. <sup>r</sup>	Apr. <sup>r</sup>	May
Total industry		100.00	80.1	85.0	66.9	77.9	78.4	78.7	78.5	78.1	78.8	79.3	78.9	79.1
Manufacturing <sup>1</sup>		76.91	78.7	84.6	63.9	76.0	76.4	76.3	76.4	75.5	76.5	76.9	76.7	77.0
Manufacturing (NAICS)	31–33	73.68	78.5	84.7	63.7	76.5	77.0	77.0	77.1	76.2	77.2	77.6	77.4	77.
Durable manufacturing		39.65	77.0	83.6	58.5	75.6	76.3	76.0	75.9	75.0	76.3	76.6	76.4	76.
Wood products	321	1.03	76.7	86.5	50.1	70.7	72.7	70.0	72.0	69.8	69.7	70.4	70.9	71.
Nonmetallic mineral products	327	2.03	74.5	82.6	44.1	59.3	59.9	61.1	59.6	61.0	60.7	61.6	62.3	62
Primary metals	331	3.18	79.0	94.1	48.7	75.9	77.4	76.3	76.9	75.2	77.0	76.8	77.4	77
Fabricated metal products	332	5.48	77.5	84.8	61.9	80.0	80.8	80.4	80.7	80.0	80.6	80.5	80.4	80
Machinery	333	5.61	78.1	87.6	59.3	78.5	78.8	80.2	77.3	78.8	80.9	80.8	80.1	80
Computer and electronic products	334	6.67	78.0	84.3	70.6	73.8	73.2	72.5	72.5	72.5	72.4	72.7	72.0	72
Electrical equip., appliances,														
and components	335	1.72	82.6	92.5	66.0	82.8	83.4	83.5	83.5	82.9	83.6	84.1	83.6	84
Motor vehicles and parts	3361–3	4.76	75.0	87.8	35.1	75.8	78.1	77.4	78.8	74.1	79.0	79.1	78.9	80.
Aerospace and miscellaneous														
transportation equipment	3364–9	4.77	73.4	70.3	72.0	75.3	75.5	75.6	75.3	74.6	75.4	76.7	76.2	76
Furniture and related products	337	1.09	76.5	82.6	57.2	72.5	73.9	74.3	74.8	73.8	73.1	76.0	76.1	76
Miscellaneous	339	3.30	76.0	80.5	68.1	75.8	75.8	74.2	75.7	73.7	74.2	74.7	74.5	75
Nondurable manufacturing		34.03	80.7	86.0	69.1	77.6	77.9	78.1	78.4	77.5	78.2	78.7	78.4	78
Food, beverage, and tobacco products	311,2	10.68	81.0	85.4	75.1	79.6	80.1	80.3	80.7	79.5	80.5	80.9	80.8	80
Textile and product mills	313,4	.75	79.6	91.8	53.4	69.3	70.4	69.5	70.5	69.0	68.6	71.1	71.2	70
Apparel and leather	315,6	.27	77.5	87.2	56.9	73.6	75.0	75.3	75.7	75.0	74.3	76.5	76.7	76
Paper	322	2.19	86.7	92.6	72.4	83.4	82.4	81.2	82.1	82.1	80.6	80.8	82.3	82
Printing and support	323	1.50	80.7	85.0	59.8	68.8	70.8	71.3	72.2	70.9	71.1	71.8	71.0	71
Petroleum and coal products	324	3.62	85.5	91.1	75.8	82.7	83.1	84.0	83.2	83.2	84.0	84.9	83.5	84
Chemicals	325	11.97	77.6	82.0	65.2	75.3	75.2	75.6	75.8	74.9	75.8	76.1	75.9	76
Plastics and rubber products	326	3.04	82.0	93.2	58.5	76.2	76.5	76.8	76.5	76.0	76.6	77.8	76.9	77
Other manufacturing (non-NAICS)	1133,5111	3.24	81.7	83.2	68.6	62.6	61.2	60.8	60.9	60.7	61.0	60.8	61.0	60.
Mining	21	13.48	87.3	88.5	78.8	88.7	87.6	88.4	87.6	88.1	87.9	89.2	90.2	91.
Utilities	2211,2	9.61	86.1	93.3	78.5	77.9	81.3	84.1	81.8	84.5	84.2	83.7	79.9	79
Selected high-technology industries		3.77	77.9	86.3	72.2	72.0	71.5	70.6	70.8	70.3	70.8	70.7	70.4	70
Computers and peripheral equipment	3341	.42	78.2	87.7	83.5	70.7	69.0	64.4	67.8	63.5	64.5	65.2	62.4	64
Communications equipment	3342	.53	76.7	84.1	77.3	77.0	78.2	75.2	78.8	76.3	74.9	74.4	75.1	75
Semiconductors and related														
electronic components	334412-9	2.82	79.7	90.8	63.3	71.3	70.6	70.7	69.8	70.2	71.0	70.9	70.7	71
Measures excluding selected high-technology industries														
Total industry		96.23	80.3	84.9	66.7	78.1	78.6	79.1	78.8	78.4	79.1	79.6	79.2	79
Manufacturing <sup>1</sup>		73.15	78.7	84.5	63.5	76.2	76.6	76.6	76.7	75.8	76.8	77.3	77.0	77.
STAGE OF PROCESS CROWNS														
STAGE-OF-PROCESS GROUPS Crude		17.66	86.3	89.6	76.8	87.0	86.1	86.5	86.1	86.2	86.3	87.1	88.0	88
Primary and semifinished		44.85	80.8	87.7	64.2	75.9	77.2	77.7	77.2	77.4	77.7	77.9	77.0	77
Finished		37.49	77.1	80.6	66.8	75.9	76.1	76.3	76.2	75.2	76.5	77.9	76.7	76
1 IIIIolieu		31.4)	/ / / . 1	00.0	00.0	,5.7	70.1	10.5	70.2	13.2	10.5	77.0	70.7	, 0

r Revised. p Preliminary.

1. Refer to note on cover page.

Table 8
INDUSTRIAL CAPACITY
Percent change

		A	1		Econth		- fth			A	al rate		Monthly
Item	1972-	1980-	nnual rate	1995-	Fourth	quarter to	o fourth o	luarter	2013	Annu	2014		2014
пеш	1972- 79	1980-	1989-	2014	2011	2012	2013	2014	Q3	Q4	Q1	Q2	May
	19	- 00	74	2014	2011	2012	2013	2014	Q3	Q4	ŲI	Q2	Iviay
Total industry	3.1	1.9	2.3	2.4	1.4	2.6	1.9	3.0	1.9	2.3	2.7	3.0	.3
Manufacturing <sup>1</sup>	3.3	2.2	2.6	2.5	.5	2.2	1.8	2.6	1.8	2.0	2.4	2.6	.2
Mining	.7	.1	6	1.0	5.9	4.8	4.0	5.8	4.1	4.8	5.4	5.8	.5
Utilities	4.2	2.1	1.8	1.9	1.8	1.3	.4	1.0	.4	.6	.9	1.1	.1
Selected high-technology industries	19.6	17.3	15.7	20.3	25.9	19.0	4.7	10.7	3.4	5.2	7.9	10.5	.9
Manufacturing <sup>1</sup> ex. selected	19.0	17.3	13.7	20.5	23.9	19.0	4.7	10.7	3.4	3.2	1.9	10.5	.9
high-technology industries	2.6	1.3	1.6	1.1	6	1.4	1.7	2.2	1.7	1.8	2.0	2.2	.2
- Ingil-technology industries	2.0	1.5	1.0	1.1	0	1	1.7	2.2	1.7	1.0	2.0		
STAGE-OF-PROCESS GROUPS													
Crude	1.6	.4	5	.9	4.6	3.5	3.1	4.8	3.2	3.9	4.4	4.8	.4
Primary and semifinished	3.0	1.3	2.6	2.7	1.0	2.0	.7	2.2	.6	1.1	1.7	2.2	.2
Finished	3.9	3.3	2.7	2.3	.5	2.6	2.9	2.9	3.0	3.0	3.0	2.9	.2

<sup>1.</sup> Refer to note on cover page.

Table 9
GROSS VALUE OF FINAL PRODUCTS AND NONINDUSTRIAL SUPPLIES
Billions of 2009 dollars at annual rate, seasonally adjusted

Billions of 2009 dollars at annual rate, seaso	narry adjusted										
			2013		2014	2013	2014				
Item	2009	2013	Q3	Q4 <sup>r</sup>	Q1 <sup>r</sup>	Dec. <sup>r</sup>	Jan. <sup>r</sup>	Feb.r	Mar. <sup>r</sup>	Apr. <sup>r</sup>	May <sup>p</sup>
Final products and nonindustrial											
supplies	3,212.1	3,626.4	3,622.4	3,683.0	3,721.1	3,694.1	3,668.2	3,739.0	3,756.2	3,730.2	3,748.9
Final products	2,410.8	2,746.7	2,741.7	2,789.5	2,825.2	2,798.4	2,775.8	2,839.2	2,860.6	2,836.7	2,852.5
Consumer goods	1,811.4	1,984.3	1,976.8	2,018.6	2,046.2	2,030.1	2,011.8	2,056.0	2,070.9	2,045.7	2,056.7
Durable	381.7	523.5	524.5	541.9	538.7	546.5	522.6	544.8	548.5	547.0	553.6
Automotive products	225.1	346.9	347.1	361.7	359.2	366.2	342.8	366.5	368.2	365.0	371.1
Other durable goods	156.5	176.6	177.4	180.3	179.6	180.6	179.6	178.6	180.6	182.1	182.8
Nondurable	1,429.8	1,474.1	1,466.2	1,492.2	1,521.1	1,499.4	1,501.0	1,525.5	1,536.7	1,514.0	1,519.2
Equipment, total	599.4	769.0	772.1	777.1	784.9	773.7	769.6	789.2	795.9	798.4	803.2
Business and defense	583.2	745.1	748.0	753.0	760.6	749.5	745.5	765.0	771.4	773.4	778.0
Business	477.2	627.3	630.1	634.3	641.9	630.6	627.6	646.5	651.5	653.6	658.6
Defense and space	106.0	118.2	118.3	119.1	119.2	119.2	118.3	119.0	120.4	120.3	120.0
Nonindustrial supplies	801.3	879.4	880.5	893.2	895.6	895.4	892.1	899.4	895.2	893.1	896.0
Construction supplies	221.8	260.6	260.5	264.2	264.9	262.8	262.3	265.4	267.1	264.5	266.3
Business supplies	579.5	619.4	620.6	629.6	631.3	633.2	630.4	634.7	628.8	629.2	630.4
Commercial energy products	233.3	241.7	241.6	247.4	246.5	249.5	250.4	248.6	240.4	240.7	240.2

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

Percent change, seasonally adjusted

		Fou	rth quarte	er to										
		fo	urth quar	ter		Annual	ate			Montl	nly rate			May '13
Item	2013				2013		2014	2013	2014					to
	gross value <sup>1</sup>	2011	2012	2013	Q3	Q4 <sup>r</sup>	Q1 <sup>r</sup>	Dec.r	Jan. <sup>r</sup>	Feb.r	Mar.r	Apr.r	May <sup>p</sup>	May '14
Finished	2,191.3	4.6	4.3	3.6	1.1	5.0	1.9	.4	-1.6	2.4	.6	.2	.4	4.0
Semifinished	1,907.4	2.7	3.7	3.3	.3	7.1	5.7	.1	.3	1.2	.2	9	.6	3.5
Primary	1,418.8	1.3	.4	3.7	2.3	8.5	2.4	.0	3	.2	1.2	-1.6	1.0	3.4
Crude	674.7	2.9	2.1	2.6	6.9	3	4.1	.6	3	.8	1.1	1.3	1.1	5.7

r Revised. p Preliminary.
1. Billions of 2009 dollars.

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

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) <sup>1</sup>																	
1992	6	.7	.9	.7	.3	.0	.9	5	.2	.8	.4	.1	5	7.2	3.0	4.3	2.8
1993	.5	.4	.0	.3	4	.2	.3	1	.5	.8	.4	.5	3.6	.8	1.6	6.2	3.3
1994	.4	.0	1.0	.5	.6	.7	.2	.6	.4	.8	.6	1.0	5.1	7.5	5.3	8.4	5.3
1995 1996	.2 7	1 1.6	.1 1	.0	.3 .7	.4	4 2	1.3	.6	1 1	.2	.6	4.4 2.7	1.5 8.5	3.9 5.0	3.4 5.5	4.7 4.4
.997	.2	1.2	.7	.1	.6	.5	.9	1.0	.9	.9	.9	.3	7.9	6.3	9.8	10.5	7.2
.998	.5	.1	.1	.3	.6	7	4	2.1	3	.8	.0	.3	4.5	2.5	2.8	5.6	5.8
1999	.5	.5	.2	.2	.8	2	.6	.4	4	1.3	.5	.8	4.3	3.8	3.8	7.5	4.3
2000 2001	.0 7	.3 6	.4 3	.7 3	.2 7	.1 7	1 5	3 2	.4 4	3 5	.0 5	3	4.3 -5.6	5.3 -5.5	4 -5.7	-1.2 -4.5	4.0 -3.4
2002 2003	.6 .7	.0 .3	.8 2	.5 8	.4 .0	1.0	2 .6	.0 3	.1 .6	3 .1	.5 .8	5 1	2.9 2.6	6.5 -3.1	2.4 2.7	2 3.4	1.2
004	.3	.5	5	.4	.8	8	.8	.0	.1	1.0	.2	.7	2.5	1.8	2.1	5.7	2.3
005	.5	.6	1	.1	.2	.4	2	.2	-2.0	1.3	1.0	.6	5.7	2.2	-1.7	3.4	3.2
2006	.1	.0	.3	.4	1	.4	.0	.3	2	.0	1	1.0	3.8	2.4	1.6	.8	2.2
.007	5	1.1	.1	.7	.0	.0	.0	.1	.4	5	.6	.0	3.7	4.9	1.1	.7	2.5
2008	2	3	3 1.5	7	5 1 1	2	5 1.0	-1.5	-4.2	.8	-1.3	-2.8	-1.4	-5.3	-12.1	-16.0	-3.4
009 010	-2.2 1.2	7 .3	-1.5 .8	8 .4	-1.1 1.6	4 .2	1.0	1.0	.7	.4 3	.4	.3	-20.0 8.3	-10.8 8.7	5.2 6.5	6.3	-11.3 5.7
011	.0	6	1.0	5	.3	.2	.6	.5	.1	.5	.1	.4	2.5	1.2	5.2	3.9	3.3
012	.9	.4	4	.8	.3	.1	.6	6	.3	1	1.0	.1	5.2	3.8	1.6	2.4	3.8
013	.1	.6	.4	2	.1	.2	2	.6	.7	.1	.6	.2	4.2	1.9	2.5	4.9	2.9
014	2	1.1	.8	3	.6								4.5				
<b>P</b> (2007=100)																	
012	96.0	96.4	96.0	96.8	97.1	97.2	97.7	97.1	97.4	97.3	98.3	98.4	96.1	97.0	97.4	98.0	97.1
013 014	98.4 101.4	99.0 102.5	99.5 103.3	99.3 103.0	99.4 103.7	99.6	99.4	100.0	100.7	100.8	101.4	101.6	99.0 102.4	99.4	100.1	101.3	99.9
Capacity percent of 1007 output) 012 013 014	124.2 127.2 129.7	124.5 127.3 130.0	124.8 127.5 130.3	125.1 127.7 130.7	125.4 127.9 131.0	125.7 128.0	125.9 128.2	126.2 128.5	126.4 128.7	126.6 128.9	126.8 129.2	127.0 129.4	124.5 127.3 130.0	125.4 127.9	126.2 128.5	126.8 129.2	125.7 128.2
(tilization percent)																	
1992	79.3	79.8	80.3	80.7	80.8	80.6	81.1	80.6	80.6	81.0	81.2	81.1	79.8	80.7	80.7	81.1	80.6
.993 .994	81.3 82.5	81.5 82.3	81.3 83.0	81.4 83.2	81.0 83.4	81.1 83.7	81.2 83.6	81.1 83.8	81.3 83.8	81.8 84.2	82.0 84.4	82.3 85.0	81.3 82.6	81.2 83.4	81.2 83.7	82.1 84.5	81.4 83.6
.995	84.8	84.4	84.3	83.9	83.9	83.9	83.2	84.0	84.0	83.6	83.4	83.4	84.5	83.9	83.8	83.5	83.9
996	82.5	83.4	83.0	83.3	83.6	83.9	83.3	83.5	83.6	83.2	83.5	83.6	83.0	83.6	83.5	83.4	83.4
1997	83.3	83.9	84.0	83.6	83.7	83.6	83.9	84.2	84.4	84.6	84.8	84.5	83.7	83.7	84.2	84.7	84.1
.998	84.4	83.9	83.4	83.2	83.2	82.2	81.4	82.6	82.0	82.3	81.8	81.8	83.9	82.8	82.0	81.9	82.7
1999	81.8	81.8	81.6	81.5	81.8	81.4	81.6	81.6	81.0	81.8	81.9	82.2	81.7	81.5	81.4	81.9	81.7
000	81.9 79.1	81.9 78.3	81.9 77.9	82.2 77.5	82.1 76.7	81.9 76.0	81.6 75.4	81.0 75.1	81.1 74.7	80.6 74.2	80.3 73.6	79.9 73.5	81.9 78.4	82.1 76.7	81.2 75.1	80.3 73.8	81.4 76.0
.002	73.9	73.8	74.3	74.6	74.8	75.5	75.3	75.3	75.4	75.2	75.6	75.2	74.0	75.0	75.3	75.3	74.9
2003	75.8	76.0	75.9	75.3	75.4	75.3 75.4	75.9	75.3 75.7	76.2	76.2	76.8	76.8	75.9	75.4	75.9	75.5 76.6	75.9
004	77.0	77.4	77.1	77.4	78.0	77.4	78.0	78.1	78.1	78.9	79.0	79.5	77.2	77.6	78.1	79.1	78.0
005	79.8	80.3	80.1	80.1	80.2	80.4	80.1	80.1	78.4	79.3	79.9	80.3	80.1	80.2	79.5	79.8	79.9
.006	80.2	80.2	80.3	80.4	80.2	80.4	80.3	80.4	80.1	79.9	79.7	80.3	80.2	80.4	80.3	80.0	80.2
007	79.7	80.4	80.4	80.8	80.7	80.6	80.5	80.5	80.8	80.4	80.8	80.8	80.2	80.7	80.6	80.7	80.5
008	80.7	80.5	80.3	79.8	79.4	79.3	78.9	77.7	74.3	74.9	73.9	71.7	80.5	79.5	77.0	73.5	77.6
2009	70.1 71.0	69.5 71.4	68.5 72.1	67.9 72.5	67.2 73.8	66.9 74.1	67.6 74.7	68.3 75.0	68.9 75.3	69.3 75.1	69.7 75.3	70.0 76.0	69.4 71.5	67.3 73.5	68.3 75.0	69.7 75.5	68.7 73.8
	76.0	75.6	76.3	75.8	76.0	76.1	76.4	76.6	76.6	76.8	76.7	76.8	75.9	76.0	76.5	76.8	76.3
2010	70.0												I				I
2010 2011		77 4	76.9	77 4	77 4	77 3	77.6	77.0	77.0	76.9	77.5	77 5	77.2	77 4	77.2	77 3	77 3
2010 2011 2012 2013	77.3 77.4	77.4 77.8	76.9 78.0	77.4 77.8	77.4 77.8	77.3 77.8	77.6 77.5	77.0 77.8	77.0 78.3	76.9 78.2	77.5 78.5	77.5 78.5	77.2 77.7	77.4 77.8	77.2 77.9	77.3 78.4	77.3 77.9

<sup>1.</sup> Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

Table 12
HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing<sup>1</sup>

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) <sup>2</sup>																	
1992	6	.9	1.0	.5	.6	.2	.9	4	.1	.7	.4	1	.5	8.2	4.1	3.2	3.6
1993	1.0	.2	2	.5	1	2	.2	2	.6	.9	.4	.5	4.5	1.3	.7	7.0	3.5
1994	.2	.1	1.3	.8	.7	.3	.4	.8	.5	1.0	.8	1.1	4.9	9.6	6.2	10.1	5.9
1995	.2	2	.2	1	.1	.5	6	1.2	.9	1	.1	.4	4.6	1.0	3.3	4.3	5.2
1996	8	1.6	2	1.1	.7	1.0	.2	.6	.8	2	.8	.8	1.8	9.7	7.4	5.7	4.8
1997	.1	1.4	1.1	2	.8	.7	.8	1.2	.9	.9	1.1	.4	9.4	7.4	11.0	11.4	8.4
1998	.8	.1	1	.5	.5	8	4	2.5	3	1.0	.2	.5	6.1	1.9	3.1	7.8	6.6
1999	.3	.8	1	.3	1.0	3	.4	.6	4	1.5	.6	.7	4.9	4.3	3.4	8.9	5.0
2000	.1	.2	.7	.7	1	.2	.1	7	.4	3	3	6	4.7	5.1	5	-2.8	4.2
2001	7	6	3	3	8	7	5	5	2	6	3	.3	-6.5	-5.7	-6.2	-4.2	-4.1
2002	.5	.0	.8	.2	.6	1.1	3	.2	.1	4	.4	5	3.5	5.9	3.1	4	.3
2003	.5	.1	.2	9	.1	.4	.4	5	.8	.1	1.0	3	1.8	-2.1	2.4	3.8	1.3
2004	.0	.6	2	.4	.8	7	.9	.4	.0	1.0	1	.6	2.1	3.0	3.7	5.4	2.8
2005	.8	.8	4	.3	.4	.2	2	.3	-1.1	1.5	.8	.1	6.4	2.4	4	5.9	4.0
2006	.8	2	1	.5	5	.3	2	.6	.0	4	.0	1.5	3.9	.9	.9	1.5	2.5
2007	_	4	0	7	1	2	2	4	-	4	-		1.0	<b>5</b> 0	0	7	2.7
2007 2008	5 4	.4 6	.8 3	.7 -1.1	1 5	.3 6	.2 -1.1	4 -1.2	.5 -3.4	4 6	.5 -2.4	.1 -3.4	4.0 -2.6	5.8 -7.5	.9 -13.4	.7 -21.6	2.7
2008	-2.9	3	-1.8	-1.1 7	-1.1	3	1.4	1.0	-3.4	.2	1.0	-3.4	-23.9	-10.9	7.0	6.9	-13.6
2010	1.1	1	1.3	.9	1.5	.0	.8	.1	.1	.1	.2	.4	7.0	11.4	5.7	1.6	6.1
2011	.2	.0	.7	6	.2	.1	.8	.3	.4	.5	1	.7	2.9	.0	5.4	4.3	3.4
2012	1.0	_	2	0	2	4		~	2	4	1.0	-	7.0	2.0	1.2	2.5	
2012 2013	1.0	.6 .6	3 .1	.8	2 .3	.4	.4	5 .7	.2	4 .4	1.3	.7	7.3	3.0	1.2	2.5	4.1
2014	2 9	1.4	.8	2 1	.6	.3	4	./	.3	.4	.3	.2	4.4 2.1	1.3	1.9	4.2	2.6
<b>IP</b> (2007=100)																	
2012	92.9	93.5	93.2	93.9	93.7	94.0	94.4	94.0	94.1	93.7	94.9	95.6	93.2	93.9	94.2	94.7	94.0
2013	95.4	95.9	96.0	95.8	96.1	96.4	96.0	96.7	96.9	97.3	97.6	97.7	95.8	96.1	96.5	97.5	96.5
2014	96.9	98.3	99.0	98.9	99.5								98.0				
Capacity																	
(percent of																	
																	1
*																	
2007 output)	123.2	123.4	123.6	123.9	124.1	124.4	124.6	124.8	125.0	125.2	125.4	125.6	123.4	124.1	124.8	125.4	124.5
2007 output) 2012	123.2 125.8	123.4 126.0	123.6 126.2	123.9 126.3	124.1 126.5	124.4 126.7	124.6 126.9	124.8 127.1	125.0 127.3	125.2 127.5	125.4 127.7	125.6 127.9	123.4 126.0	124.1 126.5	124.8 127.1	125.4 127.7	124.5 126.8
2007 output) 2012 2013																	124.5 126.8
2007 output) 2012 2013 2014	125.8	126.0	126.2	126.3	126.5								126.0				
2007 output) 2012 2013 2014 Utilization	125.8	126.0	126.2	126.3	126.5								126.0				
2007 output) 2012 2013 2014  Utilization (percent)	125.8 128.2	126.0	126.2	126.3 129.0	126.5			127.1	127.3	127.5	127.7	127.9	126.0		127.1		126.8
2007 output) 2012 2013 2014  Utilization (percent) 1992	125.8	126.0 128.5	126.2 128.7	126.3	126.5 129.3	126.7	126.9						126.0 128.5	126.5		127.7	126.8 79.6
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993	78.2 80.4 81.3	78.7 80.4 81.2	126.2 128.7 79.4 80.1 82.0	126.3 129.0 79.6 80.4 82.5	126.5 129.3 79.9 80.2 82.8	79.9 80.0 82.7	80.4 80.1 82.8	79.8 79.8 83.1	79.7 80.2 83.2	80.0 80.8 83.7	80.1 81.0 84.0	79.8 81.3 84.6	78.8 80.3 81.5	79.8 80.2 82.7	80.0 80.0 83.0	80.0 81.0 84.1	79.6 80.4 82.8
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994	78.2 80.4 81.3 84.4	78.7 80.4 81.2 83.9	79.4 80.1 82.0 83.7	79.6 80.4 82.5 83.3	79.9 80.2 82.8 83.1	79.9 80.0 82.7 83.1	80.4 80.1 82.8 82.3	79.8 79.8 83.1 82.8	79.7 80.2 83.2 83.2	80.0 80.8 83.7 82.7	80.1 81.0 84.0 82.4	79.8 81.3 84.6 82.3	78.8 80.3 81.5 84.0	79.8 80.2 82.7 83.2	80.0 80.0 83.0 82.8	80.0 81.0 84.1 82.5	79.6 80.4 82.8 83.1
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994	78.2 80.4 81.3	78.7 80.4 81.2	126.2 128.7 79.4 80.1 82.0	126.3 129.0 79.6 80.4 82.5	126.5 129.3 79.9 80.2 82.8	79.9 80.0 82.7	80.4 80.1 82.8	79.8 79.8 83.1	79.7 80.2 83.2	80.0 80.8 83.7	80.1 81.0 84.0	79.8 81.3 84.6	78.8 80.3 81.5	79.8 80.2 82.7	80.0 80.0 83.0	80.0 81.0 84.1	79.6 80.4 82.8 83.1
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996	78.2 80.4 81.3 84.4 81.3	78.7 80.4 81.2 83.9 82.1	126.2 128.7 79.4 80.1 82.0 83.7 81.5	79.6 80.4 82.5 83.3 82.0	79.9 80.2 82.8 83.1 82.2	79.9 80.0 82.7 83.1 82.6	80.4 80.1 82.8 82.3 82.3	79.8 79.8 83.1 82.8 82.4	79.7 80.2 83.2 83.2 82.6	80.0 80.8 83.7 82.7 82.0	80.1 81.0 84.0 82.4 82.2	79.8 81.3 84.6 82.3 82.4	78.8 80.3 81.5 84.0 81.6	79.8 80.2 82.7 83.2 82.3	80.0 80.0 83.0 82.8 82.4	80.0 81.0 84.1 82.5 82.2	79.6 80.4 82.8 83.1 82.1
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996	78.2 80.4 81.3 84.4 81.3 82.1	78.7 80.4 81.2 83.9 82.1 82.7	79.4 80.1 82.0 83.7 81.5	79.6 80.4 82.5 83.3 82.0	79.9 80.2 82.8 83.1 82.2	79.9 80.0 82.7 83.1 82.6 82.7	80.4 80.1 82.8 82.3 82.3 82.8	79.8 79.8 83.1 82.8 82.4 83.2	79.7 80.2 83.2 83.2 82.6 83.3	80.0 80.8 83.7 82.7 82.0 83.4	80.1 81.0 84.0 82.4 82.2 83.8	79.8 81.3 84.6 82.3 82.4 83.5	78.8 80.3 81.5 84.0 81.6	79.8 80.2 82.7 83.2 82.3 82.6	80.0 80.0 83.0 82.8 82.4 83.1	80.0 81.0 84.1 82.5 82.2 83.6	79.6 80.4 82.8 83.1 82.1
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996	78.2 80.4 81.3 84.4 81.3 82.1 83.5	78.7 80.4 81.2 83.9 82.1 82.7 83.0	79.4 80.1 82.0 83.7 81.5 83.1 82.3	79.6 80.4 82.5 83.3 82.0 82.5 82.1	79.9 80.2 82.8 83.1 82.2 82.7 81.9	79.9 80.0 82.7 83.1 82.6 82.7 80.7	80.4 80.1 82.8 82.3 82.3 82.8 79.9	79.8 79.8 83.1 82.8 82.4 83.2 81.3	79.7 80.2 83.2 83.2 82.6 83.3 80.6	80.0 80.8 83.7 82.7 82.0 83.4 81.0	80.1 81.0 84.0 82.4 82.2 83.8 80.7	79.8 81.3 84.6 82.3 82.4 83.5 80.7	78.8 80.3 81.5 84.0 81.6	79.8 80.2 82.7 83.2 82.3 82.6 81.5	80.0 80.0 83.0 82.8 82.4 83.1 80.6	80.0 81.0 84.1 82.5 82.2 83.6 80.8	79.6 80.4 82.8 83.1 82.1 83.0 81.5
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996 1997 1998 1999	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8	79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4	79.6 80.4 82.5 83.3 82.0	79.9 80.2 82.8 83.1 82.2	79.9 80.0 82.7 83.1 82.6 82.7	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1	79.8 79.8 83.1 82.8 82.4 83.2	79.7 80.2 83.2 83.2 82.6 83.3	80.0 80.8 83.7 82.7 82.0 83.4	80.1 81.0 84.0 82.4 82.2 83.8 80.7 80.6	79.8 81.3 84.6 82.3 82.4 83.5	78.8 80.3 81.5 84.0 81.6 82.6 82.9	79.8 80.2 82.7 83.2 82.3 82.6	80.0 80.0 83.0 82.8 82.4 83.1	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996	78.2 80.4 81.3 84.4 81.3 82.1 83.5	78.7 80.4 81.2 83.9 82.1 82.7 83.0	79.4 80.1 82.0 83.7 81.5 83.1 82.3	79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3	79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.7	79.9 80.0 82.7 83.1 82.6 82.7 80.7 80.1	80.4 80.1 82.8 82.3 82.3 82.8 79.9	79.8 79.8 83.1 82.8 82.4 83.2 81.3 80.2	79.7 80.2 83.2 83.2 82.6 83.3 80.6 79.6	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5	80.1 81.0 84.0 82.4 82.2 83.8 80.7	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.8	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.3	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0	80.0 81.0 84.1 82.5 82.2 83.6 80.8	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 79.6
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 76.6	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 75.9	79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 80.6 75.5	79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3 80.8 75.1	79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.7 80.4 74.3	79.9 80.0 82.7 83.1 82.6 82.7 80.7 80.1 80.2 73.6	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1 80.0 73.1	79.8 79.8 83.1 82.8 82.4 83.2 81.3 80.2 79.2 72.6	79.7 80.2 83.2 83.2 82.6 83.3 80.6 79.6 79.2 72.3	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7	80.1 81.0 84.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.8 77.4 71.6	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.5 76.0	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.3 74.3	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 78.0 71.6	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 79.6
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 76.6	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 80.4 75.9	79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 80.6 75.5	79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3 80.8 75.1 72.5	79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.7 80.4 74.3	79.9 80.0 82.7 83.1 82.6 82.7 80.1 80.2 73.6	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1 80.0 73.1	79.8 79.8 83.1 82.8 82.4 83.2 81.3 80.2 79.2 72.6	79.7 80.2 83.2 82.6 83.3 80.6 79.6 79.2 72.3	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7	80.1 81.0 84.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.8 77.4 71.6	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6 80.5 76.0	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.3 80.5 74.3	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 71.6	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 73.6
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 76.6	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 80.4 75.9	79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 80.6 75.5 72.3 73.9	79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3 80.8 75.1 72.5 73.2	79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.7 80.4 74.3 72.8 73.3	79.9 80.0 82.7 83.1 82.6 82.7 80.1 80.2 73.6	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1 80.0 73.1 73.4 73.9	79.8 79.8 83.1 82.8 82.4 83.2 81.3 80.2 79.2 72.6	79.7 80.2 83.2 83.2 82.6 83.3 80.6 79.6 79.2 72.3 73.6 74.1	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7	80.1 81.0 84.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.8 77.4 71.6	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6 80.5 76.0	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.3 80.5 74.3 73.0 73.4	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7 73.5 73.8	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 78.0 71.6	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 79.6 73.6
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 76.6 71.9 73.7	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 80.4 75.9 71.8 73.8 75.3	126.2 128.7 79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 80.6 75.5 72.3 73.9	79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3 80.8 75.1 72.5 73.2	126.5 129.3 79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.7 80.4 74.3 72.8 73.3 76.2	79.9 80.0 82.7 83.1 82.6 82.7 80.1 80.2 73.6 73.7 73.6	80.4 80.1 82.8 82.3 82.3 82.3 82.8 79.9 80.1 80.0 73.1 73.4 73.9 76.4	79.8 79.8 83.1 82.8 82.4 83.2 81.3 80.2 79.2 72.6 73.5 76.7	79.7 80.2 83.2 83.2 82.6 83.3 80.6 79.6 79.2 72.3 73.6 74.1 76.6	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7 73.3 74.2	80.1 81.0 84.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4 73.7 74.9	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.8 77.4 71.6	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6 80.5 76.0 72.0 73.8 75.1	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.3 80.5 74.3 73.0 73.4 75.8	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7 73.5 73.8 76.6	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 78.0 71.6 73.4 74.6 77.4	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 73.6 73.9 76.2
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996  1997 1998 1999 2000 2001 2002 2003 2004 2005	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 76.6	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 80.4 75.9	79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 80.6 75.5 72.3 73.9	79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3 80.8 75.1 72.5 73.2	79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.7 80.4 74.3 72.8 73.3	79.9 80.0 82.7 83.1 82.6 82.7 80.1 80.2 73.6	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1 80.0 73.1 73.4 73.9	79.8 79.8 83.1 82.8 82.4 83.2 81.3 80.2 79.2 72.6	79.7 80.2 83.2 83.2 82.6 83.3 80.6 79.6 79.2 72.3 73.6 74.1	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7	80.1 81.0 84.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.8 77.4 71.6	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6 80.5 76.0	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.3 80.5 74.3 73.0 73.4	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7 73.5 73.8	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 78.0 71.6	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 73.6 73.9 76.2 78.2
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 76.6 71.9 73.7 74.8 78.2 79.0	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 80.4 75.9 71.8 73.8 75.3 78.7	79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 80.6 75.5 72.3 73.9 75.3 78.2 78.5	79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3 80.8 75.1 72.5 73.2 75.6 78.3 78.8	79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.7 80.4 74.3 72.8 73.3 76.2 78.4 78.3	79.9 80.0 82.7 83.1 82.6 82.7 80.1 80.2 73.6 75.7 78.4 78.5	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1 80.0 73.1 73.4 73.9 76.4 78.0 78.2	79.8 79.8 83.1 82.8 82.4 83.2 81.3 80.2 72.6 73.5 73.5 76.7 78.1 78.5	79.7 80.2 83.2 82.6 83.3 80.6 79.6 79.2 72.3 73.6 74.1 76.6 77.1,	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7 73.3 74.2 77.4 78.1	80.1 81.0 84.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4 73.7 74.9 77.3 78.6 77.8	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.8 77.4 71.6 73.3 74.8 77.7 78.5	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6 80.5 76.0 72.0 73.8 75.1 78.3 78.7	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.3 80.5 74.3 73.0 73.4 75.8 78.3 78.5	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7 73.5 73.8 76.6 77.7 78.3	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 71.6 73.4 74.6 77.4 78.4 78.2	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 79.6 73.6 73.9 76.2 78.2 78.4
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 76.6 71.9 73.7 74.8 78.2 79.0	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 80.4 75.9 71.8 73.8 75.3 78.7 78.7	79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 80.6 75.5 72.3 73.9 75.3 78.2 78.5	79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3 80.8 75.1 72.5 73.2 75.6 78.3 78.8	79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.7 80.4 74.3 72.8 73.3 76.2 78.4 78.3	79.9 80.0 82.7 83.1 82.6 82.7 80.1 80.2 73.6 73.7 73.6 75.7 78.4 78.5	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1 80.0 73.1 73.4 73.9 76.4 78.0 78.2	79.8 79.8 83.1 82.8 82.4 83.2 81.3 80.2 79.2 72.6 73.5 73.5 76.7 78.1 78.5	79.7 80.2 83.2 82.6 83.3 80.6 79.6 79.2 72.3 73.6 74.1 76.6 77.1 78.4	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7 73.3 74.2 77.4 78.1 78.0	80.1 81.0 84.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4 73.7 74.9 77.3 78.6 77.8	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.8 77.4 71.6 73.3 74.8 77.7 78.5 78.8	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6 80.5 76.0 72.0 73.8 75.1 78.3 78.7	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.3 80.5 74.3 73.0 73.4 75.8 78.3 78.5	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7 73.5 73.8 76.6 77.7 78.3	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 71.6 73.4 74.6 77.4 78.2	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 73.6 73.9 76.2 78.2 78.4
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 76.6 71.9 73.7 74.8 78.2 79.0	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 80.4 75.9 71.8 73.8 75.3 78.7 78.7	79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 80.6 75.5 72.3 73.9 75.3 78.2 78.5	126.3 129.0 79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3 80.8 75.1 72.5 73.2 75.6 78.3 78.8	126.5 129.3 79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.7 80.4 74.3 72.8 73.3 76.2 78.4 78.3	79.9 80.0 82.7 83.1 82.6 82.7 80.1 80.2 73.6 75.7 78.4 78.5	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1 80.0 73.1 73.4 73.9 76.4 78.0 78.2	79.8 79.8 83.1 82.8 82.4 83.2 81.3 80.2 79.2 72.6 73.5 76.7 78.1 78.5 74.6	79.7 80.2 83.2 83.2 82.6 83.3 80.6 79.6 79.2 72.3 73.6 74.1 76.6 77.1 78.4	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7 73.3 74.2 77.4 78.1 78.0	80.1 81.0 84.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4 73.7 74.9 77.3 78.6 77.8	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.8 77.4 71.6 73.3 74.8 77.7 78.5 78.8	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6 80.5 76.0 72.0 73.8 75.1 78.3 78.7	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.3 80.5 74.3 73.0 73.4 75.8 78.3 78.5	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7 73.5 73.8 76.6 77.7 78.3	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 78.0 71.6 73.4 74.6 77.4 78.4 78.2 78.5	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 79.6 73.6 73.9 76.2 78.2 78.4
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 80.6 76.6 71.9 73.7 74.8 78.2 79.0 78.2	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 80.4 75.9 71.8 73.8 75.3 78.7 78.7	126.2 128.7 79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 80.6 75.5 72.3 73.9 75.3 78.2 78.5	126.3 129.0 79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3 80.8 75.1 72.5 73.2 75.6 78.3 78.8	126.5 129.3 79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.7 80.4 74.3 72.8 73.3 76.2 78.4 78.3	79.9 80.0 82.7 83.1 82.6 82.7 80.1 80.2 73.6 75.7 78.4 78.5 79.0 76.2 63.9	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1 80.0 73.1 73.4 73.9 76.4 78.0 78.2	79.8 79.8 83.1 82.8 82.4 83.2 81.3 80.2 79.2 72.6 73.5 76.7 78.1 78.5 74.6 65.7	79.7 80.2 83.2 83.2 82.6 83.3 80.6 79.6 79.2 72.3 73.6 74.1 76.6 77.1 78.4 78.7 72.1 66.3	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7 73.3 74.2 77.4 78.1 78.0 78.3 71.8 66.5	80.1 81.0 84.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4 73.7 74.9 77.3 78.6 77.8	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.8 77.4 71.6 73.3 74.8 77.7 78.5 78.8	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6 80.5 76.0 72.0 73.8 75.1 78.3 78.7	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.3 80.5 74.3 73.0 73.4 75.8 78.3 78.5	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7 73.5 73.8 76.6 77.7 78.3	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 78.0 71.6 77.4 78.4 78.2 78.5 70.0 67.1	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 73.6 73.6 73.9 76.2 78.2 78.4
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996  1997 1998 1999 2000 2001  2002 2003 2004 2005 2006  2007 2008 2009 2010	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 76.6 71.9 73.7 74.8 78.2 79.0 78.2 78.3 66.1 68.2	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 75.9 71.8 75.3 78.7 78.7 78.4 77.8 66.0 68.3	79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 75.5 72.3 73.9 75.3 78.2 78.5	79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.8 75.1 72.5 73.2 75.6 78.3 78.8	126.5 129.3 79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.4 74.3 72.8 73.3 76.2 78.4 78.3 76.5 64.0 71.2	79.9 80.0 82.7 83.1 82.6 82.7 80.7 80.1 80.2 73.6 75.7 78.4 78.5 79.0 76.2 63.9 71.3	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1 73.1 73.4 73.9 76.4 78.0 78.2 75.4 64.9	79.8 79.8 83.1 82.8 82.4 83.2 79.2 72.6 73.5 76.7 78.1 78.5 74.6 65.7 72.2	79.7 80.2 83.2 83.2 82.6 83.3 80.6 79.2 72.3 73.6 74.1 76.6 77.1 78.4 78.7 72.1 66.3 72.4	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7 73.3 74.2 77.4 78.1 78.0 78.3 71.8 66.5 72.5	80.1 81.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4 73.7 74.9 77.3 78.6 77.8 78.6 70.2 67.3 72.7	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.7 71.6 73.3 74.8 77.7 78.5 78.8 78.6 67.9 67.4 73.0	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6 76.0 72.0 73.8 75.1 78.3 78.7 78.5 77.9 65.7 68.6	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.5 74.3 73.0 73.4 75.8 78.3 78.5 79.0 76.5 64.2 70.8	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7 73.5 73.8 76.6 77.7 78.3	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 71.6 73.4 74.6 77.4 78.4 78.2 78.5 70.0 67.1	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 79.6 73.6 73.9 76.2 78.2 78.4 79.6 65.6
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996  1997 1998 1999 2000 2001  2002 2003 2004 2005 2006  2007 2008 2009 2010	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 80.6 76.6 71.9 73.7 74.8 78.2 79.0 78.2	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 80.4 75.9 71.8 73.8 75.3 78.7 78.7	126.2 128.7 79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 80.6 75.5 72.3 73.9 75.3 78.2 78.5	126.3 129.0 79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3 80.8 75.1 72.5 73.2 75.6 78.3 78.8	126.5 129.3 79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.7 80.4 74.3 72.8 73.3 76.2 78.4 78.3	79.9 80.0 82.7 83.1 82.6 82.7 80.1 80.2 73.6 75.7 78.4 78.5 79.0 76.2 63.9	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1 80.0 73.1 73.4 73.9 76.4 78.0 78.2	79.8 79.8 83.1 82.8 82.4 83.2 81.3 80.2 79.2 72.6 73.5 76.7 78.1 78.5 74.6 65.7	79.7 80.2 83.2 83.2 82.6 83.3 80.6 79.6 79.2 72.3 73.6 74.1 76.6 77.1 78.4 78.7 72.1 66.3	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7 73.3 74.2 77.4 78.1 78.0 78.3 71.8 66.5	80.1 81.0 84.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4 73.7 74.9 77.3 78.6 77.8	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.8 77.4 71.6 73.3 74.8 77.7 78.5 78.8	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6 80.5 76.0 72.0 73.8 75.1 78.3 78.7	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.3 80.5 74.3 73.0 73.4 75.8 78.3 78.5	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7 73.5 73.8 76.6 77.7 78.3	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 78.0 71.6 77.4 78.4 78.2 78.5 70.0 67.1	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 79.6 73.6 73.9 76.2 78.2 78.4 79.6 65.6
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996  1997 1998 1999 2000 2001  2002 2003 2004 2005 2006  2007 2008 2009 2010 2011	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 76.6 71.9 73.7 74.8 78.2 79.0 78.2 78.3 66.1 68.2	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 75.9 71.8 75.3 78.7 78.7 78.4 77.8 66.0 68.3	79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 75.5 72.3 73.9 75.3 78.2 78.5	79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3 80.8 75.1 72.5 73.2 75.6 78.3 78.8 79.2 76.8 64.6 70.0 73.3	126.5 129.3 79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.7 80.4 74.3 72.8 73.3 76.2 78.4 78.3 76.5 64.0 71.2 73.4	79.9 80.0 82.7 83.1 82.6 82.7 80.7 80.1 80.2 73.6 75.7 78.4 78.5 79.0 76.2 63.9 71.3	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1 73.1 73.4 73.9 76.4 78.0 78.2 75.4 64.9	79.8 79.8 83.1 82.8 82.4 83.2 79.2 72.6 73.5 76.7 78.1 78.5 74.6 65.7 72.2	79.7 80.2 83.2 83.2 82.6 83.3 80.6 79.2 72.3 73.6 74.1 76.6 77.1 78.4 78.7 72.1 66.3 72.4	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7 73.3 74.2 77.4 78.1 78.0 78.3 71.8 66.5 72.5	80.1 81.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4 73.7 74.9 77.3 78.6 77.8 78.6 70.2 67.3 72.7	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.7 71.6 73.3 74.8 77.7 78.5 78.8 78.6 67.9 67.4 73.0	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6 76.0 72.0 73.8 75.1 78.3 78.7 78.5 77.9 65.7 68.6	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.5 74.3 73.0 73.4 75.8 78.3 78.5 79.0 76.5 64.2 70.8	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7 73.5 73.8 76.6 77.7 78.3	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 71.6 73.4 74.6 77.4 78.4 78.2 78.5 70.0 67.1	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 79.6 73.6 73.9 76.2 78.2 78.4 74.6 65.6
2007 output) 2012 2013 2014  Utilization (percent) 1992 1993 1994 1995 1996  1997 1998 1999 2000 2001  2002 2003 2004 2005 2006  2007 2008 2009 2010 2011	78.2 80.4 81.3 84.4 81.3 82.1 83.5 80.6 76.6 71.9 73.7 74.8 78.2 79.0 78.2 78.3 66.1 68.2	78.7 80.4 81.2 83.9 82.1 82.7 83.0 80.8 80.4 75.9 71.8 73.8 75.3 78.7 78.7	79.4 80.1 82.0 83.7 81.5 83.1 82.3 80.4 80.6 75.5 72.3 73.9 75.3 78.2 78.5 78.8 77.6 65.0 69.3 73.8	79.6 80.4 82.5 83.3 82.0 82.5 82.1 80.3 80.8 75.1 72.5 73.2 75.6 78.3 79.2 76.8 64.6 70.0	126.5 129.3 79.9 80.2 82.8 83.1 82.2 82.7 81.9 80.4 74.3 72.8 73.3 76.2 78.4 78.3 76.5 64.0 71.2 73.4	79.9 80.0 82.7 83.1 82.6 82.7 80.1 80.2 73.6 75.7 78.4 78.5 79.0 76.2 63.9 71.3 73.5	80.4 80.1 82.8 82.3 82.3 82.8 79.9 80.1 80.0 73.1 73.4 78.9 76.4 78.2 78.9 75.4 64.9 72.0 74.0	79.8 79.8 83.1 82.8 82.4 83.2 81.3 80.2 79.2 72.6 73.5 76.7 78.5 74.6 65.7 72.2 74.2	79.7 80.2 83.2 82.6 83.3 80.6 79.6 72.3 73.6 74.1 76.6 77.1 66.3 78.4 78.7 72.1 66.3 72.4 74.3	80.0 80.8 83.7 82.7 82.0 83.4 81.0 80.5 78.6 71.7 73.3 74.2 77.4 78.1 78.0 78.3 71.8 66.5 72.5 74.6	80.1 81.0 84.0 82.4 82.2 83.8 80.7 80.6 78.1 71.4 73.7 74.9 77.3 78.6 77.8	79.8 81.3 84.6 82.3 82.4 83.5 80.7 80.8 77.4 71.6 73.3 74.8 77.7 78.5 78.8	78.8 80.3 81.5 84.0 81.6 82.6 82.9 80.6 80.5 76.0 72.0 73.8 75.1 78.3 78.7 78.5 77.9 65.7 68.6 73.4	79.8 80.2 82.7 83.2 82.3 82.6 81.5 80.5 74.3 73.0 73.4 75.8 78.5 79.0 76.5 64.2 70.8	80.0 80.0 83.0 82.8 82.4 83.1 80.6 80.0 79.5 72.7 73.5 73.8 76.6 77.7 78.3	80.0 81.0 84.1 82.5 82.2 83.6 80.8 80.6 71.6 73.4 74.6 77.4 78.2 78.5 70.0 67.1 72.7	79.6 80.4 82.8 83.1 82.1 83.0 81.5 80.4 73.6 73.9 76.2 78.2 78.4 74.6 65.6 71.1 73.9

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 Industries<sup>1</sup>
Seasonally adjusted

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent				r ·													
change) <sup>2</sup>																	
1992	8	.7	.8	.6	.3	2	.8	6	.1	.6	.3	.0	-2.0	6.1	1.9	3.0	1.9
1993	.5	.3	1	.3	4	.2	.3	1	.4	.7	.3	.5	3.1	.2	1.3	5.3	2.5
1994	.4	.0	.9	.3	.4	.6	.0	.4	.1	.6	.4	.9	4.4	5.4	3.2	5.7	4.0
1995 1996	-1.0	2 1.3	1 3	3 .8	.1	.6	6 5	1.1	.1	4 4	.1	.1	2.8	-1.2 6.6	1.5 2.0	2.9	2.5
1990	-1.0	1.5	5	.0	.0	.0	3	.4	.4	4	.7	.5	5	0.0	2.0	2.9	1.7
1997 1998	.0	.9	.4	2 .2	.6	.2 9	.6 7	.7 1.9	.6 6	.7 .5	.6 3	.1 .1	5.1	2.5	6.4 3	7.5 2.3	4.2 3.0
1999	.2	.1	1	1	.6	5	.3	.4	5	1.2	.2	.5	.7	.3	1.0	5.5	1.1
2000	3	.0	.1	.4	1	1	4	5	.3	4	2	5	.4	1.6	-3.1	-2.7	1.0
2001	7	5	3	2	6	5	3	1	4	5	5	1	-5.9	-4.5	-4.4	-4.5	-4.0
2002	.7	1	.8	.4	.5	.9	3	1	.1	3	.5	6	2.6	6.4	1.8	8	.3
2003	.6	.1	3	9	1	1	.4	4	.5	.0	.7	1	1.5	-4.7	.9	2.4	.2
2004	.2	.5	6	.4	.8	8	.8	.0	.0	1.0	.2	.6	2.1	2.0	2.1	5.2	1.7
2005	.4	.6 .0	2 .2	.0	.1 2	.4 .3	3 .0	.0	-2.2	1.2	1.0	.5	4.8	1.3	-3.0	2.1	2.5
2006	.1	.0	.2	.4	2	.3	.0	.2	3	1	2	1.0	3.4	1.9	.7	.1	1.4
2007	5	1.0	1	.6 8	.1 6	.1 2	.0	.1	.3 -4.3	7 1 1	.4	1	3.0 -2.5	4.0	1.1 -12.3	-1.0	1.8
2008 2009	3 -2.2	4 7	4 -1.6	8 9	6 -1.1	2 4	4 1.0	-1.6 1.0	-4.3 .7	1.1 .3	-1.1 .3	-2.7 .3	-2.5 -19.7	-6.4 -11.7	-12.3 5.0	-14.9 5.8	-4.2 -11.3
2010	1.1	.1	-1.0	.3	1.6	.2	.6	.2	.2	4	.1	.8	7.2	7.9	6.2	.7	5.0
2011	.0	6	1.1	5	.3	.2	.7	.4	.1	.6	.1	.4	1.8	1.1	5.0	3.8	2.9
2012	.9	.3	5	.8	.3	.0	.6	6	.2	2	1.0	.1	4.9	3.0	1.3	1.8	3.5
2013	.0	.7	.4	2	.1	.2	2	.5	.8	.1	.6	.2	4.3	1.6	2.3	5.0	2.6
2014	2	1.1	.8	3	.6								4.6				
<b>IP</b> (2007=100)																	
2012	94.1	94.4	94.0	94.7	95.0	95.0	95.5	94.9	95.1	95.0	95.9	96.0	94.2	94.9	95.2	95.6	95.0
2013 2014	96.1 98.9	96.7 99.9	97.1 100.8	96.9 100.5	97.0 101.1	97.2	97.0	97.5	98.2	98.3	98.9	99.1	96.6 99.9	97.0	97.6	98.8	97.5
Capacity (percent of 2007 output) 2012 2013	121.4 123.7	121.6 123.8	121.8 124.0	122.0 124.2	122.2 124.3	122.4 124.5	122.6 124.7	122.8 124.9	123.0 125.1	123.2 125.3	123.4 125.6	123.5 125.8	121.6 123.8	122.2 124.3	122.8 124.9	123.4 125.6	122.5 124.7
2014 Utilization	126.1	126.3	126.6	126.9	127.2								126.3				
(percent)	<b>50.2</b>	<b>5</b> 0. <b>5</b>	00.2	00.5	00.0	00.5	01.1	00.5	00.5	0.1.0	01.2	01.1	<b>50.5</b>	00.5	00.0	01.1	00.5
1992 1993	79.2 81.4	79.7 81.6	80.2 81.4	80.6 81.6	80.8 81.1	80.5 81.2	81.1 81.4	80.6 81.2	80.6 81.4	81.0 81.9	81.2 82.1	81.1 82.4	79.7 81.5	80.6 81.3	80.8 81.3	81.1 82.1	80.6 81.6
1993	82.6	82.5	83.1	83.2	83.4	83.8	83.6	83.8	83.7	84.1	84.3	84.9	82.7	83.5	83.7	84.4	83.6
1995	84.9	84.5	84.3	83.9	83.8	83.8	83.2	83.9	83.8	83.3	83.3	83.2	84.6	83.8	83.6	83.3	83.8
1996	82.3	83.2	82.8	83.3	83.6	84.0	83.4	83.6	83.8	83.3	83.7	83.9	82.8	83.7	83.6	83.6	83.4
1997	83.6	84.1	84.2	83.7	83.7	83.6	83.9	84.1	84.3	84.6	84.8	84.6	84.0	83.7	84.1	84.7	84.1
1998	84.5	84.1	83.8	83.6	83.8	82.7	81.8	83.1	82.4	82.6	82.1	81.9	84.1	83.4	82.5	82.2	83.0
1999	81.8	81.7	81.5	81.2	81.5	80.9	81.0	81.1	80.6	81.5	81.5	81.8	81.7	81.2	80.9	81.6	81.3
2000	81.4 78.7	81.3 78.2	81.3	81.6	81.4	81.2	80.8 76.2	80.3	80.4	80.0	79.8 74.8	79.3	81.4 78.2	81.4	80.5	79.7	80.7
2001	/8./	18.2	77.9	77.7	77.1	76.6	70.2	76.0	75.7	75.2	74.8	74.6	78.2	77.1	76.0	74.9	76.5
2002	75.1	74.9	75.5	75.8	76.1	76.8	76.6	76.5	76.6	76.4	76.8	76.4	75.2	76.2	76.6	76.5	76.1
2003 2004	77.0	77.1 77.9	76.9 77.5	76.3 77.8	76.3 78.5	76.2 77.8	76.6 78.5	76.3 78.5	76.8 78.6	76.7 79.3	77.3 79.5	77.2 80.0	77.0	76.3 78.0	76.6 78.5	77.1 79.6	76.7 78.4
2004	80.3	80.7	80.6	80.6	80.6	80.8	80.5	80.5	78.6	79.3	80.1	80.4	80.5	80.7	78.3	80.0	80.3
2006	80.4	80.3	80.3	80.5	80.2	80.3	80.2	80.3	79.9	79.7	79.5	80.2	80.3	80.3	80.1	79.8	80.1
2007	79.7	80.4	80.3	80.7	80.7	80.8	80.8	80.9	81.2	80.7	81.0	81.0	80.1	80.8	81.0	80.9	80.7
2008	80.8	80.5	80.3	79.6	79.2	79.0	78.6	77.3	73.9	74.6	73.7	71.7	80.5	79.3	76.6	73.3	77.4
2009	70.0	69.4	68.3	67.6	66.9	66.7	67.4	68.2	68.8	69.1	69.5	69.9	69.2	67.1	68.1	69.5	68.5
2010	70.9	71.1	71.8	72.2	73.5	73.8	74.4	74.8	75.0	74.9	75.0	75.7	71.3	73.2	74.7	75.2	73.6
2011	75.7	75.3	76.0	75.7	75.9	76.0	76.4	76.6	76.6	76.9	76.9	77.0	75.7	75.8	76.6	76.9	76.2
2012	77.6	77.7	77.2	77.6	77.7	77.6	77.9	77.3	77.3	77.1	77.8	77.7	77.5	77.6	77.5	77.5	77.5
2013	77.7	78.1	78.3	78.0	78.0	78.0	77.8	78.1	78.5	78.4	78.7	78.8	78.0	78.0	78.1	78.6	78.2
2014	78.4	79.1	79.6	79.2	79.5								79.1				
									and relate								<u> </u>

<sup>1.</sup> 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<sup>1</sup> Excluding Selected High-Technology Industries<sup>2</sup>

Seasonally adjusted Year Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Q1 Q2 Q3 Q4 Annual IP (percent change)3 1992 1.0 1.2 7.0 2.8 1.5 2.6 1.1 -.3 1.1 -.2 .2 .2 .8 .7 .5 7.1 2.5 1993 .1 .5 -.1 -.3 .5 .3 .5 4.0 6.0 4.4 .6 5 .6 3.8 1994 4.0 7.0 .1 -1 6 1995 -.1 .3 -.8 .5 2.7 -2.3.3 .7 2.5 -.1 .9 -.4 -.1 1996 -1.2 1.3 1.0 .3 -2.0 7.4 4.0 2.6 1.5 -.4 .6 .6 .9 .7 4.9 1997 5 5 5 8 2.9 7.0 79 - 1 1.1 8 - 6 4 -1 62 1.2 1998 .6 -.1 -.3 .2 .4 -.8 2.3 -.7 .7 -.1 .2 3.3 -.3 -.6 4.1 3.4 1999 .8 .0 -.5 1.4 .4 6.7 1.4 -.1 .4 -.4 .6 .3 .8 .3 -.1 2000 -.2 .3 0. -.2 -1.0 .3 -.8 -3.8 -4.7 -.3 -.6 -.4 -.6 -.2 -4.6 -4.2 2001 -.6 -.5 -.3 -.1 -.7 -.6 -.5 -.2 -.7 -.2 .2 7.0 4.5 -4.8 2002 .6 -.2 1.1 -.6 3.2 5.7 2.5 -1.1.4 2003 .4 -.1 .1 -1.0 .2 .2 -.7 .7 -.1 9 -.3 .5 -4.0 .2 2.6 .0 -.1 1.0 2004 -.1 -.2 .4 .8 -.8 -.1 1.0 -.1 .6 1.6 3.3 3.7 4.9 2.0 .7 .7 -.5 1.5 5.2 1.3 -2.0 4.4 3.1 2005 .2 .3 -.4 .2 -1.4 .7 .0 .6 .1 -.3 .8 .5 .5 .0 -.6 .2 -.4 3.3 2006 -.3 -.1 -.1 1.5 .1 -.2 .6 1.5 2007 -.6 .6 -.6 4.7 1.0 -1.6 1.8 2008 -.5 -1.2 -1.3 -3.5 -2.1 -4.3 -9.2 -20.5 -5.8 -.8 -.4 -.6 -.6 -1.1 -.4 -3.2 -13.7 -2.9 -2.0 -1.2 -.2 -.3 -.9 -.3 1.0 .8 1.0 -23.8 6.2 -13.8 2009 1.4 .1 -12.16.8 1.0 2010 -.3 1.2 .9 1.5 .0 .8 .0 .0 .0 .0 .2 5.4 10.4 5.3 .6 5.1 2011 .1 .0 .2 .1 .9 .2 .4 .6 -.1 .7 2.0 5.2 4.3 2.8 2012 1.1 5 -.4 7 -.3 .3 .4 -.5 .1 -.6 1.3 .7 7.0 1.9 .8 1.7 3.7 2013 -.3 .7 .1 -.3 .2 .3 .5 .3 .3 .2 4.6 .8 1.6 4.3 2.3 2014 -.9 1.4 .8 .6 2.1 **IP** (2007=100) 90.3 90.8 90.4 91.0 90.8 91.0 91.4 90.9 91.0 90.5 91.7 92.4 90.5 90.9 91.1 91.5 91.0 2012 92.1 92.7 92.8 92.5 92.7 93.0 92.6 93.2 93.8 94.3 92.5 92.7 93.1 94.1 2013 93.5 94.1 93.1 93.4 94.6 2014 94.8 95.5 95.4 96.0 Capacity (percent of 2007 output) 2012 119.3 119.4 119.5 119.7 119.8 120.0 120.1 120.3 120.5 120.6 120.8 120.9 119.4 119.8 120.3 120.8 120.1 2013 121.1 121.3 121.4 121.6 121.7 121.9 122.1 122.2 122.4 122.6 122.8 123.0 121.3 121.7 122.2 122.8 122.0 2014 123.2 123.4 123.6 123.9 124.1 Utilization (percent) 1992 78.0 79.3 79.8 80.3 79.9 80.0 79.9 78.6 79.8 79.8 79.6 78.6 79.7 79.5 1993 80.5 80.5 80.2 80.5 80.3 80.0 80.2 79.9 80.2 80.8 81.0 81.3 80.4 80.3 80.1 81.0 80.4 1994 81.2 82.1 82.4 82.7 82.7 82.8 83.1 83.5 81.5 83.0 83.9 82.8 81.3 83.1 83.8 84.5 82.6 82.9 1995 84.4 839 83.7 83.2 82.9 83.0 82.1 82.6 82.9 82.4 82.1 82.0 84.0 83.0 82.5 82.2 1996 80.9 81.7 81.2 81.9 82.2 82.6 82.4 82.4 82.7 82.0 82.4 82.7 81.3 82.2 82.5 82.3 82.1 82.3 82.9 82.5 82.5 82.9 1997 83.3 82.6 82.6 82.6 83.0 83.1 83.3 83.7 83.4 82.8 83 5 82.9 1998 83.5 83.1 82.6 82.4 82.4 81.2 80.2 81.8 80.9 81.2 80.9 80.8 83.1 82.0 81.0 80.9 81.7 79.8 79.6 1999 80.5 80.6 80.0 80.2 79 4 793 79.0 80.0 80.1 80.2 80.4 79 8 793 80.1 79 9 2000 79.9 79.6 79.7 79.9 79.4 79.2 79.0 78.1 78.2 77.8 77.3 76.5 79.7 79.5 78.4 77.2 78.7 2001 75.5 75.1 74.5 74.0 73.2 72.7 72.5 74.5 73.5 74.1 76.0 75.2 73.8 73.4 72.6 75.6 72.6 2002 73 1 73.0 73 5 73 7 74 1 75.0 74.8 74 9 74 9 73.2 74 8 74.2 747 746 74 6 743 747 74.1 74.6 74 9 749 75.0 74 2 74 2 74.4 74 7 75.4 75.2 74.9 75 1 747 2003 74.6 743 74.4 76.7 2004 75.2 75.7 75.6 76.0 76.6 76.1 76.8 77.1 77.8 77.7 78.2 75.5 76.2 77.0 77.9 77.1

78.6

79.1

78.0

78.3

65.8

67.9

72.7

75.7

76.1

75.8

79.1

78.7

78.2

77.7

65.7

67.8

72.7

76.1

76.5

76.8

2005

2006

2007

2008

2009

2010

2011

2012

2013

2014

78.8

78.2

78.9

76.0

63.5

70.7

73.1

75.7

76.1

77.3

78.8

78.3

79.2

75.6

63.5

70.9

73.2

75.9

76.3

78.4

77.9

79.3

74.8

64.5

71.6

73.9

76.1

75.8

78.4

78.2

78.8

74.0

65.3

71.8

74.0

75.6

76.3

77.2

78.0

79.1

71.4

66.0

71.9

74.3

75.5

76.4

78.2

77.6

78.5

71.2

66.2

72.1

74.7

75.0

76.5

78.7

77.5

78.7

69.8

67.0

72.2

74.6

75.9

76.6

78.6

78.6

78.7

67.7

67.1

72.5

75.0

76.4

76.7

78.8

78.7

78.3

77.8

65.3

68.2

72.9

75.8

76.3

76.6

78.8

78.4

79.0

76.0

63.7

70.4

73.1

75.9

76.2

78.0

78.0

79.1

73.4

65.3

71.7

74.1

75.7

76.2

78.5

77.9

78.7

69.6

66.8

72.3

74.7

75.8

76.6

78.5

78.3

78.7

74.2

65.3

73.7

75.8

76.3

70.6

78.6

78.5

78.6

77.4

64.5

68.8

73.4

75.6

76.4

77.3

78.7

78.7

78.9

76.4

64.1

69.5

72.9

76.1

76.1

77.0

<sup>1.</sup> Refer to note on cover page.

<sup>2.</sup> Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.

<sup>3.</sup> Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

#### EXPLANATORY NOTE

The Industrial Production and Capacity Utilization statistical release, which is published around the middle of the month, reports measures of output, capacity, and capacity utilization in manufacturing, mining, and the electric and gas utilities industries. More detailed descriptions of industrial production and capacity utilization are available on the Board's website at www.federalreserve.gov/releases/G17. In addition, files containing data shown in the release, more detailed series that were published in the G.17 prior to December 2000, and historical data are available from the Data Download Program on the Board's website. Instructions for searching for and downloading specific series are provided as well.

#### INDUSTRIAL PRODUCTION

Coverage. The industrial production (IP) index measures the real output of all manufacturing, mining, and electric and gas utility establishments located in the United States, regardless of their ownership, but not those located in U.S. territories; 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 2007 NAICS codes. These individual series are classified in two ways: (1) market groups, and (2) industry groups. Market groups consist of products and materials. Total products are the aggregate of final products, such as consumer goods and equipment, and nonindustrial supplies (which are inputs to nonindustrial sectors). Materials are inputs in the manufacture of products. Major industry groups include three-digit NAICS industries and aggregates of these industries—for example, durable and nondurable manufacturing, mining, and utilities. A complete description of the market and industry structures, including details regarding series classification, relative importance weights, and data sources, is available on the Board's web site (www.federalreserve.gov/releases/G17/About.htm).

Source data. On a monthly basis, the individual indexes of industrial production are constructed from two main types of source data: (1) output measured in physical units and (2) data on inputs to the production process, from which output is inferred. Data on physical products, such as tons of steel or barrels of oil, are obtained from private trade associations and from government agencies; data of this type are used to estimate monthly IP wherever possible and appropriate. Production indexes for a few industries are derived by dividing estimated nominal output (calculated using unit production and unit values or sales) by a corresponding Fisher price index; the most notable of these fall within the high-technology grouping and include computers, communications equipment, and semiconductors. When suitable direct measures of product are not available, estimates of output are based on production-worker hours by industry. Data on hours worked by production workers are collected in the monthly establishment survey conducted by the Bureau of Labor Statistics. The factors used to convert inputs into estimates of production are based on historical relationships between the inputs and the comprehensive annual data used to benchmark the IP indexes; these factors also may be influenced by technological or cyclical developments. The annual data used in benchmarking the individual IP indexes are constructed from a variety of source data, such as the quinquennial Censuses of Manufactures and Mineral Industries and the Annual Survey of Manufactures, prepared by the Bureau of the Census; the *Minerals Yearbook*, prepared by the United States Geological Survey of the Department of the Interior; and publications of the Department of Energy.

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

shown below. An output index for month m is denoted by  $I_m^A$  for aggregate A and  $I_m$  for each of its components. The monthly price measure in the formula  $(p_m)$  is interpolated from an annual series of value added divided by the average annual IP index.

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

The IP proportions (typically shown in the first column of the relevant tables in the G.17 release) are estimates of the industries' relative contributions to overall growth in the following year. For example, the relative importance weight of the motor vehicles and parts industry is about 6 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by 6/10 percentage point  $(0.06 \times 10\% = 0.6\%)$ . To assist users with calculations, the Federal Reserve's web site provides supplemental monthly statistics that represent the exact proportionate contribution of a monthly change in a component index to the monthly change in the total index (www.federalreserve.gov/releases/G17/ipdisk/ipweightssa.txt).

**Timing.** The first estimate of output for a month is published around the 15th of the following month. The estimate is preliminary (denoted by the superscript "p" in tables) and subject to revision in each of the subsequent five months as new source data become available. (Revised estimates are denoted by the superscript "r" in tables.) For the first estimate of output for a given month, about 72 percent of the source data (in value-added terms) are available; the fraction of available source data increases to 84 percent for estimates in the second month that the estimate is published, 94 percent in the third month, 95 percent in the fourth month, 97 percent in the fifth month, and 97 percent in the sixth month. Data availability by data type in early 2014 is summarized in the table below:

**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	32	44	54	55	57	58		
Production-worker hours	40	40	40	40	40	40		
IP data received	72	84	94	95	97	97		
IP data estimated	28	16	6	5	3	3		

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 (32 percent out of a total of 58 percent). Of the 32 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 2013; for other series, the factors were estimated with data through at least December 2012. 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 1987–2013 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 1987–2013 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. The capacity indexes cover all facilities located in the United States, regardless of their ownership, but not those located in U.S. territories. 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 1972–2013 period, the average total industry utilization rate is 80.1 percent; for manufacturing, the average factory operating rate has been 78.7 percent. Industrial plants usually operate at capacity utilization rates that are well below 100 percent: none of the broad aggregates has ever reached 100 percent. For total industry and total manufacturing, utilization rates have exceeded 90 percent only in wartime. The highs and lows in capacity utilization 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 28, 2014, 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 on-line staff studies

(www.federalreserve.gov/releases/g17/articles/rev2010/industrial10.pdf, www.federalreserve.gov/releases/g17/articles/rev2012/industrial12.pdf, www.federalreserve.gov/releases/g17/articles/rev2013/industrial13.pdf).

### Release Schedule

At 9:15 a.m. on

**2014**: January 17, February 14, March 17, April 16, May 15, June 16, July 16, August 15, September 15, October 16, November 17, and December 15.