FEDERAL RESERVE statistical release



G.17 (419)

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Percent change

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production declined 0.6 percent in November after decreasing 0.4 percent in October. In November, manufacturing production was unchanged from October. The index for utilities dropped 4.3 percent, as unusually warm weather held down the demand for heating. The index for mining fell 1.1 percent in

(over)

Industrial Production and Capacity Utilization: Summary

Seasonal	lly	ad	justed	

	2015						2015						Nov. '14 to
Industrial production	June	July ^r	Aug. ^r	Sept.r	Oct.r	Nov. ^p	June	July ^r	Aug.r	Sept.r	Oct.r	Nov. ^p	Nov. '15
-													
Total index	106.7	107.5	107.7	107.5	107.1	106.5	.0	.8	.2	1	4	6	-1.2
Previous estimates	106.7	107.5	107.6	107.4	107.2		.0	.8	.1	2	2		
Major market groups													
Final Products	103.6	104.8	105.3	105.0	104.5	104.2	1	1.2	.4	3	4	3	9
Consumer goods	105.0	106.9	107.2	107.1	106.6	106.1	.0	1.8	.3	1	5	5	.8
Business equipment	106.7	106.8	107.5	106.9	106.5	106.6	1	.1	.6	5	4	.2	7
Nonindustrial supplies	105.6	105.4	106.1	106.0	106.7	106.1	.2	1	.6	1	.7	5	.3
Construction	109.4	109.7	110.3	108.9	111.5	111.2	.5	.3	.6	-1.3	2.3	2	2.1
Materials	109.7	110.4	110.1	110.2	109.4	108.5	1	.7	3	.0	7	8	-2.0
Major industry groups													
Manufacturing (see note below)	105.1	106.1	106.1	105.9	106.2	106.2	1	1.0	1	2	.3	.0	.9
Previous estimates	105.0	106.1	106.0	105.9	106.3		1	1.0	2	1	.4		
Mining	115.1	116.5	116.8	115.3	112.5	111.3	1	1.2	.3	-1.3	-2.4	-1.1	-8.2
Utilities	103.1	101.7	103.3	104.9	102.0	97.6	.9	-1.4	1.6	1.6	-2.8	-4.3	-7.6
													Capacity
					Perce	nt of cap	acity						growth
	Average	1988-	1990-	1994-									
	1972-	89	91	95	2009	2014	2015						Nov. '14 to
Capacity utilization	2014	high	low	high	low	Nov.	June	July ^r	Aug.r	Sept.r	Oct.r	Nov. ^p	Nov. '15
Total industry	80.1	85.2	78.8	85.0	66.9	79.0	77.5	78.0	78.1	77.9	77.5	77.0	1.5
Previous estimates							77.5	78.0	78.0	77.7	77.5		
Manufacturing (see note below)	78.5	85.6	77.3	84.6	63.9	76.4	75.8	76.5	76.4	76.1	76.3	76.2	1.2
Previous estimates							75.8	76.5	76.3	76.2	76.4		
Mining	87.5	86.2	83.8	88.7	79.0	90.1	83.2	84.0	84.0	82.7	80.5	79.4	4.2
Utilities	85.9	92.9	84.3	93.3	78.5	81.2	78.9	77.8	79.0	80.2	77.9	74.5	.8
Stage-of-process groups													
Crude	86.3	87.6	84.3	89.8	76.9	87.7	82.6	83.2	83.2	82.3	80.9	80.1	3.2
Primary and semifinished	80.7	86.5	78.1	87.8	64.2	77.1	76.1	76.4	76.3	76.4	76.4	75.3	1.0
Finished	77.0	83.4	77.4	80.7	66.7	76.6	75.9	76.7	76.9	76.5	76.2	76.4	1.5

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.

November, with much of this decrease attributable to sizable declines for coal mining and for oil and gas well drilling and servicing. At 106.5 percent of its 2012 average, total industrial production in November was 1.2 percent below its year-earlier level. Capacity utilization for the industrial sector declined 0.5 percentage point in November to 77.0 percent, a rate that is 3.1 percentage points below its long-run (1972–2014) average.

Market Groups

Among the major market groups, only business equipment posted a gain in November. The production of consumer goods decreased 0.5 percent, as consumer durables and nondurables registered reductions of 0.2 percent and 0.6 percent, respectively. Within consumer nondurables, a gain of 0.7 percent for its non-energy component was outweighed by a drop of 4.8 percent for consumer energy products. The indexes for defense and space equipment and for construction supplies each declined 0.2 percent, while the output of business supplies moved down 0.7 percent. The index for materials fell 0.8 percent, as decreases for durable materials and energy materials were partly offset by a gain for nondurable materials.

Industry Groups

Manufacturing output was unchanged in November, as the output of nondurable goods gained 0.5 percent, but the production of durable goods declined 0.2 percent and the index for other manufacturing industries (publishing and logging) moved down 1.7 percent. Most nondurable goods industries recorded increases, with the largest gain posted by the food, beverage, and tobacco products category. Among durable goods industries, losses of 1.0 percent or more were recorded by primary metals; electrical equipment, appliances, and components; and motor vehicles and parts. The production of nonmetallic mineral products increased 1.2 percent for the largest gain among durables. Mining output declined 1.1 percent in November and was 8.2 percent below its year-earlier level, with the index for oil and gas well drilling and servicing at less than half of its year-earlier level.

The capacity utilization rate for manufacturing edged down to 76.2 percent, a rate 2.3 percentage points below its long-run average. The operating rate for durable goods manufacturing moved down 0.3 percentage point, while the operating rate for nondurable goods manufacturing moved up 0.4 percentage point. Utilization for other manufacturing (publishing and logging) decreased 0.9 percentage point. The operating rate for mines dropped 1.1 percentage points to 79.4 percent, while capacity utilization for utilities fell 3.4 percentage points to 74.5 percent.

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

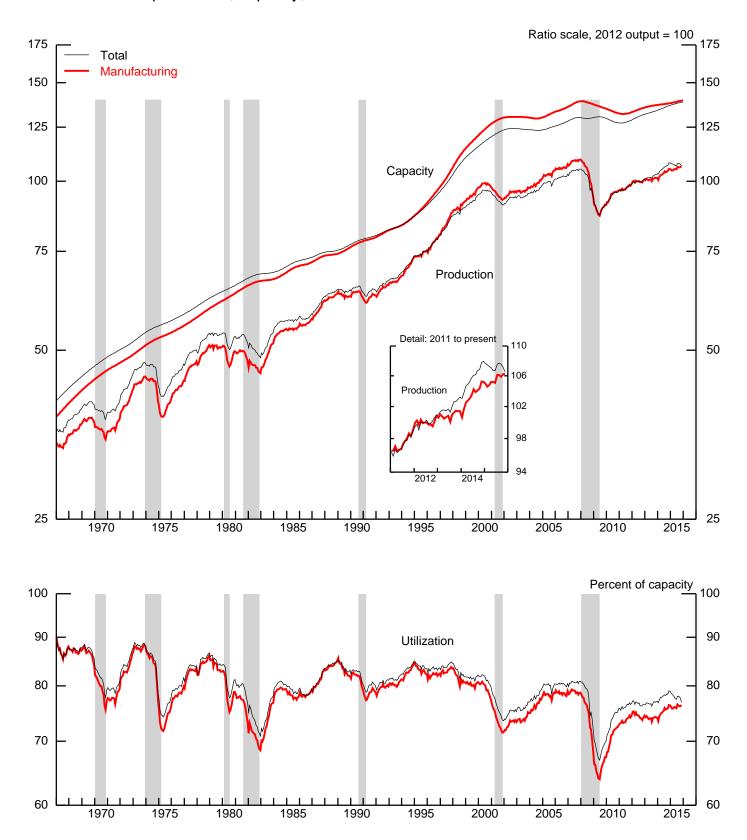
Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

Annual Revision of Industrial Production and Capacity Utilization

The Federal Reserve Board plans to issue its annual revision to the index of industrial production (IP) and the related measures of capacity utilization around the end of the first quarter of 2016. New annual benchmark data for 2014 for manufacturing will be incorporated, as will other annual data, including information on the mining of metallic and nonmetallic minerals (except fuels). The updated IP indexes will include revisions to the monthly indicator (either product data or input data) and to seasonal factors for each industry. In addition, the estimation methods for some series may be changed. Any modifications to the methods for estimating the output of an industry will affect the index from 1972 to the present.

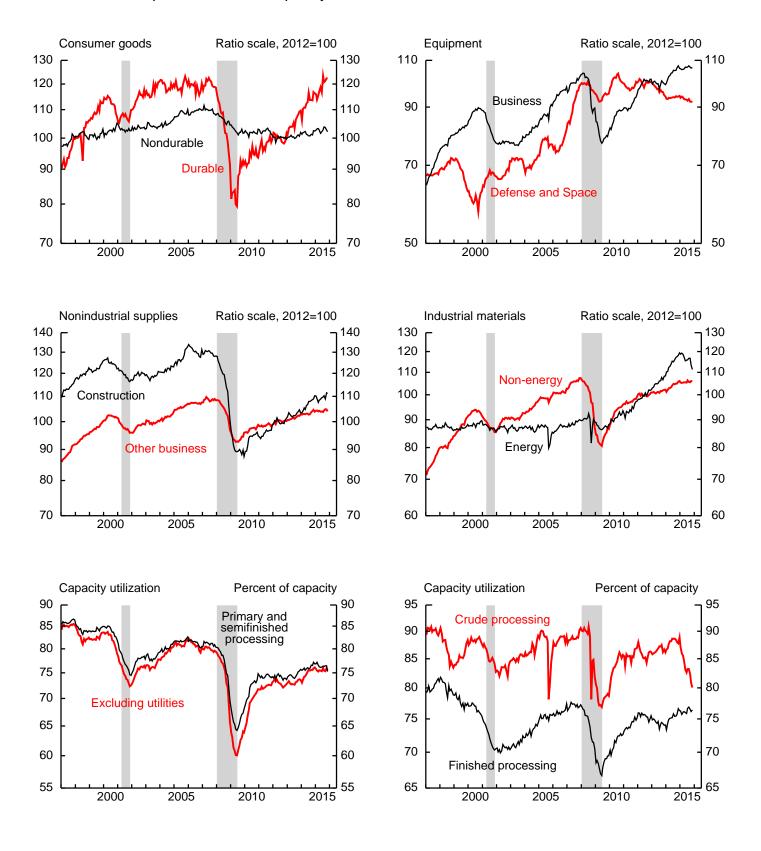
Capacity and capacity utilization will be revised to incorporate data through the fourth quarter of 2015 from the U.S. Census Bureau's Quarterly Survey of Plant Capacity along with new data on capacity from the U.S. Geological Survey, the U.S. Department of Energy, and other organizations.

1. Industrial production, capacity, and utilization



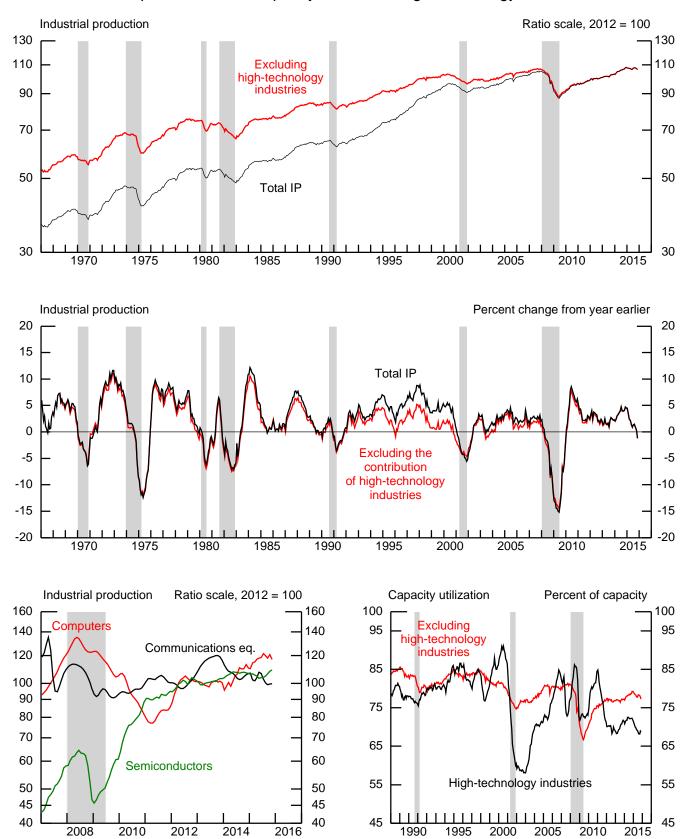
Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

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 3344), computers (NAICS 3341), and communications equipment (NAICS 3342).

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

Table 1 INDUSTRIAL PRODUCTION: MARKET AND INDUSTRY GROUP SUMMARY

				th quart ırth quai		Aı	nnual rat	te			Month	nly rate			Nov. '14
Item		2014 proportion ¹	2012	2013	2014	2015 Q1	Q2 ^r	Q3 ^r	2015 June ^r	July	Aug.r	Sept.r	Oct.r	Nov. ^p	to Nov. '15
Total IP		100.00	2.1	2.3	4.5	3	-2.3	2.9	.0	.8	.2	1	4	6	-1.2
MARKET GROUPS															
Final products and nonindustrial supplie	es	54.46	1.2	1.6	3.0	7	-1.8	4.2	.0	.9	.5	2	1	4	6
Consumer goods		26.69	-1.2	2.9	1.8	3.0	-1.0	7.5	.0	1.8	.3	1	5	5	.8
Durable		5.68	.1	9.5	5.9	-1.6	8.8	15.6	-1.7	5.7	-2.2	.5	.9	2	4.6
Automotive products		2.79	-1.9	15.5	6.8	6	15.5	25.3	-4.3	11.1	-4.4	.4	1.5	8	6.9
Home electronics		.16 .82	7.0	2.4 5.6	3.4 7.6	2.0 -4.0	11.2 3.1	10.0 8.5	1.3 1.0	.9 1.5	-1.2 7	2.7 1.3	.3 .9	-1.4 9	5.5 3.1
Appliances, furniture, carpeting Miscellaneous goods		1.90	1.4	3.8	4.2	-2.4	1.5	5.1	1.0	.0	7	.0	1	1.1	1.8
Nondurable		21.01	-1.6	1.3	.8	4.3	-3.6	5.2	.5	.7	1.0	2	1	6	3
Non-energy		15.69	-2.5	9	1.8	1.5	.1	5.2	.5	.9	.8	6	5	0	1.4
Foods and tobacco		8.70	1.0	1.1	.4	.0	1.3	4.9	-1.0	1.4	1.7	7	7	.8	1.3
Clothing		.24	-6.7	-1.5	.1	1.0	-9.5	4.8	4	1.9	1	4	-3.5	-1.1	-5.5
Chemical products		4.96	-8.1	-4.9	6.3	7.9	-3.4	3.5	2.4	.1	3	3	2	1.0	2.3
Paper products		1.29	-4.8	5	-5.6	-9.2	7.6	15.8	2.2	2.4	-1.1	5	-1.1	8	.3
Energy		5.32	1.1	7.3	-1.8	12.9	-14.2	5.4	.5	2	1.9	.9	-1.9	-4.8	-6.1
- 67															
Business equipment		10.18	7.4	-1.5	7.3	-3.2	2.4	2.0	1	.1	.6	5	4	.2	7
Transit		2.51	19.5	1.4	11.8	1	6.4	4.7	-2.8	3.7	-1.2	7	6	6	3
Information processing		2.20	5.8	2	3.4	2.5	1.0	.6	1.3	9	.4	9	2	.7	1.4
Industrial and other		5.46	3.6	-3.3	6.9	-6.8	1.1	1.2	.6	-1.3	1.6	3	4	.3	-1.8
Defense and space equipment		2.15	.6	-5.2	8	-1.5	-3.6	-1.8	.0	5	.8	-1.1	.0	2	-2.3
G				<i>~ .</i>			•	2.0	_	_			2.2	_	
Construction supplies Business supplies		4.52 10.12	3.2	3.4 2.2	5.2 1.7	-1.3 .1	2 5	2.8	.5 .1	.3 3	.6 .7	-1.3 .4	2.3	2 7	2.1 6
Materials		45.54	3.2	3.2	6.1	.0	-3.0	1.3	1	.7	3	.0	7	8	-2.0
Non-energy		27.14	1.9	1.6	3.4	-1.2	.6	1.5	2	1.0	8	.0	.6	2	.2
Durable		16.61	3.0	2.4	4.8	-2.0	8	2.9	1	1.5	7	5	.9	7	4
Consumer parts		2.92	8.7	4.0	9.0	1.0	10.2	14.8	-2.5	6.2	-2.9	1.3	.7	-2.4	3.6
Equipment parts		5.51	2.4	.8	4.0	-2.5	-2.3	.4	1	.0	.5	3	.7	.2	8
Other		8.19	1.7	3.0	3.8	-2.9	-3.6	.3	.8	.7	8	-1.3	1.2	6	-1.7
Nondurable		10.52	.2	.4	1.1	.1	3.0	8	4	.3	8	.7	.0	.6	1.2
Textile		.40	-1.4	6.7	1.5	6.9	2.4	-11.0	2	-2.2	-1.0	.6	2.6	-1.0	.4
Paper		1.91	1.1	-1.4	-1.8	-2.2	.0	-4.2	-1.4	2	.0	.8	.4	.0	6
Chemical		5.10	2	.0	2.4	.2	5.1	4	.1	.2	-1.3	.9	.3	.7	2.2
Energy		18.40	5.2	5.6	9.9	1.8	-8.7	.9	.2	.1	.7	.1	-2.9	-1.9	-5.8
INDUSTRY GROUPS		72.01	1.5	1.2	2.4	_	1.5	2.4	,	1.0		2	2	0	
Manufacturing (NAICS)	21 22	73.91	1.5	1.3	3.4	7	1.5	3.4	1	1.0	1	2	.3	.0	.9
Manufacturing (NAICS)	31–33	71.35	3.6	1.4 2.0	3.9 5.1	5	1.3		1	1.0	.0	2 2	.3	.1	1.0
Durable manufacturing	321	38.10 1.14	7.8	5.3	4.2	-2.4 -7.7	1.4 -4.6	4.0 9.3	1 .0	2.2	3 .5	2 2	.6 1.8	2 .0	.5 1.4
Wood products Nonmetallic mineral products	327	1.14	3.9	3.6	5.2	2.5	-4.0	4.0	.3	.4	1.2	-1.0	2.9	1.2	5.8
Primary metals	331	2.55	-4.5	5.5	1.2	-17.5	-2.5	5	3.8	5	-2.5	-1.5	2.0	-2.8	-7.0
Fabricated metal products	332	5.48	1.4	2.9	2.4	.3	6	-3.5	1	.2	-1.6	.2	5	.0	-1.9
Machinery	333	5.91	2.3	-3.6	8.2	-9.8	4	1.8	9	7	2.4	1	4	.1	-2.9
Computer and electronic products	334	5.70	6.3	5	3.6	.1	-1.9	2.8	1.1	3	.4	.1	.3	.7	1.6
Electrical equip., appliances,	55 !	2.70	5.5	.5	2.0			2.0	1	.5				.,	
and components	335	1.78	2.2	7	2.6	4.0	8.0	4.5	1.3	.1	1.2	-1.6	3.6	-1.3	5.3
Motor vehicles and parts	3361–3	5.12	6.3	10.2	9.8	1.5	14.0	19.9	-4.4	10.6	-5.1	.6	1.2	-1.0	5.4
Aerospace and miscellaneous															
transportation equipment	3364-9	4.42	8.2	-1.1	3.0	2.1	1.3	.8	7	.1	1.0	7	5	7	3
Furniture and related products	337	1.15	6.3	3.2	9.3	.5	-5.3	6.5	.6	.2	.7	1.3	1.2	1	2.8
Miscellaneous	339	3.02	.0	5.6	5.8	-3.0	2	2.2	3.3	-2.3	1.7	9	.5	.7	.1
Nondurable manufacturing		33.25	.0	.7	2.6	1.7	1.2	2.6	1	.8	.3	1	.0	.5	1.6
Food, beverage, and tobacco products	311,2	10.45	1.0	1.4	.7	.6	1.4	5.3	-1.1	1.6	1.5	6	9	1.0	1.6
Textile and product mills	313,4	.67	-2.1	5.5	1.7	3	4.8	-6.2	6	-1.3	3	.4	2.1	6	.4
Apparel and leather	315,6	.26	-7.2	7	.4	1.0	-8.7	4.4	5	1.8	2	3	-3.7	-1.3	-5.5
Paper	322	2.59	2.6	-2.0	9	-3.0	4	-4.8	-1.3	3	6	1.0	.0	.2	-1.5
Printing and support	323	1.43	5	3.0	.2	1.2	.4	4.4	.4	.5	1.0	3	.2	.4	2.3
Petroleum and coal products	324	3.25	5	5.6	.1	4.6	3.5	1.5	-1.2	1.4	1 7	.5	.4	.4	3.4
Chemicals Plastics and rubber products	325 326	11.33 3.27	-2.2 4.8	-1.9 2.1	4.5 9.7	3.1	1.1	6.3	1.3	.2	7 1.3	.0 5	.5	.4	2.1
· ·															
Other manufacturing (non-NAICS)	1133,5111	2.56	-6.5	-1.6	-8.6	-5.9	8.0	5.0	.4	1.3	9	2	2	-1.7	9
Mining	21	15.46	6.2	5.8	12.3	-4.7	-14.0	.4	1	1.2	.3	-1.3	-2.4	-1.1	-8.2
Utilities	2211,2	10.63	.1	4.6	-1.0	8.2	-12.3	2.6	.9	-1.4	1.6	1.6	-2.8	-4.3	-7.6
Electric	2211	9.29	4	3.7	6	6.7	-9.9 28.7	2.7	.6	-1.5	1.7	2.3	-3.5	-3.7	-6.2
Natural gas	2212	1.34	4.0	11.0	-3.2	19.3	-28.7	1.8	3.2	1	.2	-3.8	3.2	-9.6	-17.4

r Revised. p Preliminary.

NOTE. Under the industry groups, the figures to the right of the series descriptions are 2012 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 website (www.federalreserve.gov/releases/G17). Under market groups, in the products category, miscellaneous consumer nondurables, oil and gas drilling, and manufactured homes are not shown separately; in the nondurable materials category, containers and miscellaneous nondurable materials are not shown

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

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

Item			I POII	rth quart	er to										
Item				urth quar		A	nnual rat	e			Month	nly rate			Nov. '14
		2014 proportion	2012	2013	2014	2015 Q1	Q2 ^r	Q3 ^r	2015 June ^r	July	Aug. ^r	Sept.r	Oct.r	Nov. ^p	to Nov. '15
Total industry		100.00	2.1	2.3	4.5	3	-2.3	2.9	.0	.8	.2	1	4	6	-1.2
Total muusti y		100.00	2.1	2.3	4.3	5	-2.3	2.9	.0	.0	.2	1	4	0	-1.2
Energy		27.52	3.6	5.6	6.6	1.3	-12.2	1.5	.2	.0	.9	.5	-2.6	-2.5	-7.2
Consumer products		5.32	1.1	7.3	-1.8	12.9	-14.2	5.4	.5	2	1.9	.9	-1.9	-4.8	-6.1
Commercial products	212111	3.04	1.4	4.7	1.3	3.7	-5.9	.6	.0	1	.1	2.0	-2.4	-1.8	-4.3
Oil and gas well drilling Converted fuel	213111	.76 3.90	-7.6 4.6	-1.3 .9	7.3	-67.5 7.8	-83.3 -4.0	-17.9 5.1	-4.0 2.5	1.3	1.7	-4.0 2.6	-5.0 -3.1	-4.0 -2.7	-59.0 -2.8
Primary energy		14.51	5.4	6.8	12.2	.2	-10.2	4	6	-1.9	.7	8	-2.8	-1.7	-2.8 -6.8
Non-energy		72.48	1.5	1.1	3.6	-1.0	1.3	3.4	1	1.0	1	3	.3	.0	.8
		2.05		2.6				_			_				_
Selected high-technology industries	22.41	2.87	9.8	2.6	1.6	-3.3	-1.2	.2	.2	1	2	.6	1.5	.2	.7
Computers and peripheral equipment	3341	.39	20.6	9	10.3	7.0	17.6	6.6	.4	2.6	-1.4	-1.5	2.3	-2.9	3.5
Communications equipment	3342	.56	3.0	13.6	-10.7	-7.6	9.2	-18.3	7	-3.7	-2.5	-1.0	.5	.1	-5.8
Semiconductors and related electronic components	3344	1.92	9.7	.2	4.1	-4.1	-7.5	4.5	.4	.3	.7	1.5	1.7	.9	1.9
Evaluding calcuted high tooby alexan															
Excluding selected high-technology industries		69.61	1.1	1.0	3.6	9	1.4	3.5	1	1.1	1	3	.3	.0	.8
Motor vehicles and parts	3361-3	5.12	6.3	10.2	9.8	1.5	14.0	19.9	-4.4	10.6	-5.1	.6	1.2	-1.0	5.4
Motor vehicles	3361	2.41	1.1	14.6	8.1	-3.8	20.6	28.1	-6.0	16.1	-7.9	8	1.4	5	4.7
Motor vehicle parts	3363	2.32	10.5	5.4	11.6	6.0	11.3	13.0	-2.7	6.5	-3.8	1.6	.8	-1.3	6.0
Excluding motor vehicles and part	S	64.49	.8	.4	3.2	-1.1	.5	2.2	.3	.3	.4	4	.2	.1	.4
Consumer goods		18.86	-2.1	1	2.4	1.0	.5	5.5	.5	.9	.8	4	5	.6	1.6
Business equipment		8.69	6.8	-2.4	7.3	-3.8	1.0	1.6	.7	9	1.3	4	5	.2	7
Construction supplies		4.50	3.2	3.4	5.3	-1.3	2	2.9	.5	.3	.6	-1.3	2.4	2	2.1
Business supplies		6.54	.9	1.1	1.5	-1.1	2.7	.8	.1	4	1.0	4	.9	3	1.0
Materials		23.76	.6	1.5	2.7	-1.7	.2	.3	.1	.5	5	3	.5	1	3
Measures excluding selected															
high-technology industries															
Total industry		97.13	1.8	2.3	4.5	3	-2.3	3.0	.0	.8	.2	1	4	6	-1.2
Manufacturing ¹		71.04	1.2	1.2	3.5	6	1.6	3.5	1	1.1	1	2	.2	.0	.9
Durable		35.38	3.0	2.0	5.3	-2.4	1.6	4.4	2	1.4	3	3	.5	3	.4
Measures excluding motor vehicles and parts															
Total industry		94.88	1.9	2.0	4.2	4	-3.2	1.9	.3	.2	.5	2	5	5	-1.6
Manufacturing ¹		68.78	1.9	.7	3.0	8	.6	2.2	.2	.3	.4	2	.2	.1	.6
Durable		33.13	3.2	.9	4.3	-3.0	5	1.6	.6	2	.5	4	.5	1	4
Measures excluding selected															
high-technology industries															
and motor vehicles and parts															
Total industry		92.01	1.6	2.0	4.3	4	-3.2	2.0	.3	.2	.5	2	5	6	-1.6
		65.91	.8	.6	3.0	8	.7	2.2	.2	.3	.4	3	.2	.1	.6
Manufacturing ¹															
Stage-of-process components of non-energy materials, measures of the input to		10.74	2.5	1 /	4.2	_1 1	1.6	2.0	_1.0	1.6	6	А	7	6	5
Stage-of-process components of non-energy materials,		10.74 16.40	3.5	1.4 1.8	4.2	-1.1 -1.4	1.6	3.0	-1.0	1.6	6 9	.4	.7 .5	6 .1	.5

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

innons of units, seasonarry adjusted annual rate											
	2014	2014	2015			2015					
Item	average	Q4	Q1	Q2	Q3	June	July	Aug.	Sept.	Oct.	Nov.
Total	11.66	11.76	11.56	12.16	12.68	11.81	13.34	12.38	12.33	12.36	12.14
Autos	4.25	4.28	4.09	4.34	4.28	4.05	4.64	4.13	4.08	4.00	3.94
Trucks	7.41	7.48	7.47	7.83	8.40	7.76	8.70	8.25	8.25	8.36	8.20
Light	7.12	7.18	7.15	7.50	8.07	7.45	8.39	7.91	7.92	8.04	7.86
Medium and heavy	.29	.30	.32	.32	.33	.31	.32	.34	.33	.32	.34
Memo Autos and light trucks	11.37	11.47	11.24	11.84	12.35	11.50	13.02	12.04	11.99	12.04	11.80
Autos and fight trucks	11.57	11.47	11.24	11.04	12.33	11.30	13.02	12.04	11.99	12.04	11.00

NOTE. Seasonal factors and underlying data for auto, light truck, and medium and heavy truck production are available on the Board's website, 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

 2012 = 100, seasonally adjusted

12 = 100, seasonally adjusted											
Item		2014 proportion	2015 Mar.	Apr.	May	June ^r	July ^r	Aug. ^r	Sept. ^r	Oct.r	Nov.
Total IP		100.00	107.2	107.1	106.7	106.7	107.5	107.7	107.5	107.1	106.5
MARKET GROUPS											
MARKET GROUPS Final products and nonindustrial supplies		54.46	104.3	104.3	104.1	104.1	105.0	105.5	105.2	105.1	104.7
Consumer goods		26.69	104.5	104.5	104.1	104.1	105.0	103.3	103.2	105.1	104.
Durable		5.68	115.4	117.1	118.7	116.7	123.4	120.8	121.3	122.4	122.2
Automotive products		2.79	123.0	126.1	129.3	123.8	137.5	131.5	132.1	134.1	133.
Home electronics		.16	108.8	109.8	111.4	112.9	114.0	112.6	115.6	116.0	114.4
Appliances, furniture, carpeting		.82	110.9	112.4	112.4	113.5	115.2	114.4	115.8	116.9	115.9
Miscellaneous goods		1.90	107.6	107.5	107.8	109.0	108.9	109.8	109.7	109.7	110.9
Nondurable		21.01	103.2	102.6	101.6	102.1	102.8	103.8	103.6	102.7	102.
Non-energy		15.69	100.5	100.9	99.9	100.4	101.3	102.1	101.5	101.0	101.
Foods and tobacco		8.70	102.3	103.2	102.1	101.0	102.4	104.1	103.4	102.7	103.
Clothing		.24	93.3	92.9	92.3	92.0	93.7	93.6	93.2	89.9	88.
Chemical products		4.96	99.6	99.2	97.6	100.0	100.1	99.8	99.5	99.4	100.
Paper products		1.29	90.1	90.4	92.3	94.4	96.6	95.6	95.2	94.1	93.
Energy		5.32	111.2	107.5	106.1	106.7	106.5	108.6	109.5	107.5	102.
Business equipment		10.18	105.8	106.0	106.9	106.7	106.8	107.5	106.9	106.5	106.
Transit		2.51	119.9	120.5	122.1	118.7	123.1	121.6	120.8	120.0	119.
Information processing		2.20	103.9	103.8	104.3	105.7	104.8	105.2	104.3	104.1	104.
Industrial and other		5.46	101.0	101.1	101.8	102.3	101.0	102.7	102.4	102.0	102.
Defense and space equipment		2.15	93.8	93.1	93.0	92.9	92.4	93.1	92.1	92.1	91.
			, , , ,								
Construction supplies		4.52	107.5	108.4	108.8	109.4	109.7	110.3	108.9	111.5	111.
Business supplies		10.12	103.9	104.2	103.8	103.9	103.6	104.3	104.8	104.7	104.
Materials		45.54	110.7	110.3	109.7	109.7	110.4	110.1	110.2	109.4	108.
Non-energy		27.14	105.2	105.4	105.5	105.2	106.3	105.5	105.5	106.1	105.
Durable		16.61	107.1	107.1	107.0	106.9	108.5	107.7	107.2	108.2	107.
Consumer parts		2.92	115.6	117.5	119.8	116.8	124.1	120.5	122.1	123.0	120.
Equipment parts		5.51	103.8	103.2	103.0	102.9	102.9	103.4	103.1	103.8	104.
Other		8.19	106.4	106.2	105.5	106.3	107.1	106.3	104.9	106.2	105.
Nondurable		10.52	102.5	102.9	103.1	102.7	103.0	102.2	102.9	102.9	103.
Textile		.40	109.6	109.3	109.1	108.8	106.4	105.4	106.0	108.7	107.
Paper		1.91	96.9	97.3	96.9	95.5	95.3	95.3	96.0	96.4	96.
Chemical		5.10	103.6	104.1	105.0	105.1	105.3	103.9	104.8	105.1	105.
Energy		18.40	118.6	117.3	115.5	115.7	115.9	116.6	116.8	113.4	111.
INDUSTRY GROUPS											
Manufacturing		73.91	104.8	105.2	105.2	105.1	106.1	106.1	105.9	106.2	106.
Manufacturing (NAICS)	31–33	71.35	105.5	105.9	105.9	105.7	106.8	106.8	106.6	106.9	107.
Durable manufacturing		38.10	106.8	107.1	107.6	107.4	108.7	108.4	108.1	108.8	108.
Wood products	321	1.14	109.7	109.6	108.8	108.9	111.2	111.8	111.6	113.6	113.
Nonmetallic mineral products	327	1.83	110.2	111.2	110.9	111.2	111.7	113.0	111.9		
Primary metals	331									115.1	
		2.55	99.1	98.7	98.9	102.6	102.1	99.6	98.1	100.1	97.
Fabricated metal products	332	5.48	104.8	104.9	104.9	104.8	104.9	103.3	98.1 103.5	100.1 103.0	97. 102.
Machinery	332 333	5.48 5.91	104.8 99.0	104.9 99.8	104.9 100.5	104.8 99.6	104.9 98.9	103.3 101.2	98.1 103.5 101.1	100.1 103.0 100.6	97. 102. 100.
Machinery Computer and electronic products	332	5.48	104.8	104.9	104.9	104.8	104.9	103.3	98.1 103.5	100.1 103.0	97. 102. 100.
Machinery Computer and electronic products Electrical equip., appliances,	332 333 334	5.48 5.91 5.70	104.8 99.0 103.7	104.9 99.8 103.4	104.9 100.5 103.3	104.8 99.6 104.4	104.9 98.9 104.1	103.3 101.2 104.6	98.1 103.5 101.1 104.6	100.1 103.0 100.6 105.0	97. 102. 100. 105.
Machinery Computer and electronic products Electrical equip., appliances, and components	332 333 334 335	5.48 5.91 5.70	104.8 99.0 103.7	104.9 99.8 103.4	104.9 100.5 103.3	104.8 99.6 104.4 106.3	104.9 98.9 104.1 106.4	103.3 101.2 104.6	98.1 103.5 101.1 104.6	100.1 103.0 100.6 105.0	97. 102. 100. 105.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts	332 333 334	5.48 5.91 5.70	104.8 99.0 103.7	104.9 99.8 103.4	104.9 100.5 103.3	104.8 99.6 104.4	104.9 98.9 104.1	103.3 101.2 104.6	98.1 103.5 101.1 104.6	100.1 103.0 100.6 105.0	97. 102. 100. 105.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous	332 333 334 335 3361–3	5.48 5.91 5.70 1.78 5.12	104.8 99.0 103.7 104.4 124.1	104.9 99.8 103.4 105.3 126.2	104.9 100.5 103.3 105.0 129.3	104.8 99.6 104.4 106.3 123.5	104.9 98.9 104.1 106.4 136.6	103.3 101.2 104.6 107.7 129.6	98.1 103.5 101.1 104.6 106.0 130.4	100.1 103.0 100.6 105.0 109.8 132.0	97. 102. 100. 105. 108.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment	332 333 334 335 3361–3 3364–9	5.48 5.91 5.70 1.78 5.12 4.42	104.8 99.0 103.7 104.4 124.1 105.8	104.9 99.8 103.4 105.3 126.2	104.9 100.5 103.3 105.0 129.3	104.8 99.6 104.4 106.3 123.5	104.9 98.9 104.1 106.4 136.6	103.3 101.2 104.6 107.7 129.6	98.1 103.5 101.1 104.6 106.0 130.4 105.6	100.1 103.0 100.6 105.0 109.8 132.0 105.0	97. 102. 100. 105. 108. 130.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products	332 333 334 335 3361–3 3364–9 337	5.48 5.91 5.70 1.78 5.12 4.42 1.15	104.8 99.0 103.7 104.4 124.1 105.8 113.3	104.9 99.8 103.4 105.3 126.2 105.5 111.7	104.9 100.5 103.3 105.0 129.3 105.9 112.0	104.8 99.6 104.4 106.3 123.5 105.2 112.6	104.9 98.9 104.1 106.4 136.6 105.3 112.9	103.3 101.2 104.6 107.7 129.6 106.3 113.6	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5	97. 102. 100. 105. 108. 130. 104. 116.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous	332 333 334 335 3361–3 3364–9	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9	97. 102. 100. 105. 108. 130. 104. 116.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing	332 333 334 335 3361–3 3364–9 337 339	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02 33.25	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4 104.1	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5 104.7	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9	97. 102. 100. 105. 108. 130. 104. 116. 112.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products	332 333 334 335 3361–3 3364–9 337 339	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02 33.25 10.45	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4 104.1 103.3	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7 104.6 104.1	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6 104.0 103.0	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2 103.8 101.9	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5 104.7 103.5	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4 105.0	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3 104.9	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9 104.8 103.5	97. 102. 100. 105. 108. 130. 104. 116. 112.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills	332 333 334 335 3361–3 3364–9 337 339	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02 33.25 10.45 .67	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4 104.1 103.3 106.9	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7 104.6 104.1 107.2	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6 104.0 103.0 107.8	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2 103.8 101.9 107.2	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5 104.7 103.5 105.8	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4 105.0 105.0	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3 104.9 104.4 105.9	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9 104.8 103.5 108.1	97. 102. 100. 105. 108. 130. 104. 116. 112. 105.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather	332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02 33.25 10.45 .67	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4 104.1 103.3 106.9 94.5	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7 104.6 104.1 107.2 94.2	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6 104.0 103.0 107.8 93.7	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2 103.8 101.9 107.2 93.3	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5 104.7 103.5 105.8 95.0	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4 105.0 105.0 105.4 94.8	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3 104.9 104.4 105.9 94.4	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9 104.8 103.5 108.1 91.0	97. 102. 100. 105. 108. 130. 104. 116. 112. 105. 104. 107.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper	332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02 33.25 10.45 .67 .26 2.59	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4 104.1 103.3 106.9 94.5 97.5	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7 104.6 104.1 107.2 94.2 97.5	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6 104.0 103.0 107.8 93.7 97.5	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2 103.8 101.9 107.2 93.3 96.3	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5 104.7 103.5 105.8 95.0 96.0	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4 105.0 105.0 105.4 94.8 95.4	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3 104.9 104.4 105.9 94.4 96.3	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9 104.8 103.5 108.1 91.0	97. 102. 100. 105. 108. 130. 104. 116. 112. 105. 104. 107. 89.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support	332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02 33.25 10.45 .67 .26 2.59 1.43	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4 104.1 103.3 106.9 94.5 97.5 103.1	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7 104.6 104.1 107.2 94.2 97.5 103.1	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6 104.0 103.0 107.8 93.7 97.5 102.2	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2 103.8 101.9 107.2 93.3 96.3 102.6	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5 104.7 103.5 105.8 95.0 96.0 103.1	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4 105.0 105.0 105.0 105.4 94.8 95.4 104.2	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3 104.9 104.4 105.9 94.4 96.3 103.9	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9 104.8 103.5 108.1 91.0 96.4 104.1	97. 102. 100. 105. 108. 130. 104. 116. 112. 105. 104. 107. 89. 96.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products	332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02 33.25 10.45 .67 .26 2.59 1.43 3.25	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4 104.1 103.3 106.9 94.5 97.5 103.1 108.1	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7 104.6 104.1 107.2 94.2 97.5 103.1 110.1	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6 104.0 103.0 107.8 93.7 97.5 102.2 109.0	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2 103.8 101.9 107.2 93.3 96.3 102.6 107.6	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5 104.7 103.5 105.8 95.0 96.0 103.1 109.1	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4 105.0 105.0 105.4 94.8 95.4 104.2 109.1	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3 104.9 104.4 105.9 94.4 96.3 103.9 109.7	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9 104.8 103.5 108.1 91.0 96.4 104.1 110.1	97. 102. 100. 105. 108. 130. 104. 116. 112. 105. 104. 107. 89. 96. 104. 110.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals	332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02 33.25 10.45 .67 .26 2.59 1.43 3.25 11.33	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4 104.1 103.3 106.9 94.5 97.5 103.1 108.1 102.8	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7 104.6 104.1 107.2 94.2 97.5 103.1 110.1 103.0	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6 104.0 103.0 107.8 93.7 97.5 102.2 109.0	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2 103.8 101.9 107.2 93.3 96.3 102.6 107.6 103.8	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5 104.7 103.5 105.8 95.0 96.0 103.1 109.1 103.9	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4 105.0 105.4 94.8 95.4 104.2 109.1	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3 104.9 104.4 105.9 94.4 96.3 103.9 109.7	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9 104.8 103.5 108.1 91.0 96.4 104.1 110.1	97. 102. 100. 105. 108. 130. 104. 116. 112. 105. 104. 107. 89. 96. 104. 110.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products	332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02 33.25 10.45 .67 .26 2.59 1.43 3.25 11.33 3.27	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4 104.1 103.3 106.9 94.5 97.5 103.1 108.1 102.8 113.2	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7 104.6 104.1 107.2 94.2 97.5 103.1 110.1 103.0 113.6	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6 104.0 103.0 107.8 93.7 97.5 102.2 109.0 102.4 114.0	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2 103.8 101.9 107.2 93.3 96.3 102.6 107.6 103.8 113.4	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5 104.7 103.5 105.8 95.0 96.0 103.1 109.1 103.9 114.7	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4 105.0 105.4 94.8 95.4 104.2 109.1 103.2	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3 104.9 104.4 105.9 94.4 96.3 103.9 109.7 103.2 115.6	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9 104.8 103.5 108.1 91.0 96.4 104.1 110.1 103.8 115.7	116. 97. 102. 100. 105. 108. 130. 104. 116. 112. 105. 104. 107. 89. 104. 110. 104. 115.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products Other manufacturing (non-NAICS)	332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02 33.25 10.45 .67 .26 2.59 1.43 3.25 11.33 3.27 2.56	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4 104.1 103.3 106.9 94.5 97.5 103.1 108.1 102.8 113.2 86.5	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7 104.6 104.1 107.2 94.2 97.5 103.1 110.1 103.0 113.6 87.1	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6 104.0 103.0 107.8 93.7 97.5 102.2 109.0 102.4 114.0 88.0	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2 103.8 101.9 107.2 93.3 96.3 102.6 107.6 103.8 113.4 88.4	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5 104.7 103.5 105.8 95.0 96.0 103.1 109.1 103.9 114.7 89.5	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4 105.0 105.0 105.0 105.4 94.8 95.4 104.2 109.1 103.2 116.2	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3 104.9 104.4 105.9 94.4 96.3 103.9 109.7 103.2 115.6 88.5	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9 104.8 103.5 108.1 91.0 96.4 104.1 110.1 103.8 115.7 88.4	97. 102. 100. 105. 108. 130. 104. 116. 112. 105. 104. 107. 89. 96. 104. 110. 104. 115.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products Other manufacturing (non-NAICS)	332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02 33.25 10.45 .67 .26 2.59 1.43 3.25 11.33 3.27 2.56 15.46	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4 104.1 103.3 106.9 94.5 97.5 103.1 108.1 102.8 113.2 86.5 119.5	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7 104.6 104.1 107.2 94.2 97.5 103.1 110.1 103.0 113.6 87.1	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6 104.0 103.0 107.8 93.7 97.5 102.2 109.0 102.4 114.0 88.0	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2 103.8 101.9 107.2 93.3 96.3 102.6 107.6 103.8 113.4 88.4	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5 104.7 103.5 105.8 95.0 96.0 103.1 109.1 103.9 114.7 89.5	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4 105.0 105.4 94.8 95.4 104.2 109.1 103.2 116.2 88.7	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3 104.9 104.4 105.9 94.4 96.3 103.9 109.7 103.2 115.6 88.5	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9 104.8 103.5 108.1 91.0 96.4 104.1 110.1 103.8 115.7 88.4	97. 102. 100. 105. 108. 130. 104. 116. 112. 105. 104. 107. 89. 96. 104. 110. 104. 115.
Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products Other manufacturing (non-NAICS)	332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111	5.48 5.91 5.70 1.78 5.12 4.42 1.15 3.02 33.25 10.45 .67 .26 2.59 1.43 3.25 11.33 3.27 2.56	104.8 99.0 103.7 104.4 124.1 105.8 113.3 110.4 104.1 103.3 106.9 94.5 97.5 103.1 108.1 102.8 113.2 86.5	104.9 99.8 103.4 105.3 126.2 105.5 111.7 109.7 104.6 104.1 107.2 94.2 97.5 103.1 110.1 103.0 113.6 87.1	104.9 100.5 103.3 105.0 129.3 105.9 112.0 109.6 104.0 103.0 107.8 93.7 97.5 102.2 109.0 102.4 114.0 88.0	104.8 99.6 104.4 106.3 123.5 105.2 112.6 113.2 103.8 101.9 107.2 93.3 96.3 102.6 107.6 103.8 113.4 88.4	104.9 98.9 104.1 106.4 136.6 105.3 112.9 110.5 104.7 103.5 105.8 95.0 96.0 103.1 109.1 103.9 114.7 89.5	103.3 101.2 104.6 107.7 129.6 106.3 113.6 112.4 105.0 105.0 105.0 105.4 94.8 95.4 104.2 109.1 103.2 116.2	98.1 103.5 101.1 104.6 106.0 130.4 105.6 115.2 111.3 104.9 104.4 105.9 94.4 96.3 103.9 109.7 103.2 115.6 88.5	100.1 103.0 100.6 105.0 109.8 132.0 105.0 116.5 111.9 104.8 103.5 108.1 91.0 96.4 104.1 110.1 103.8 115.7 88.4	97. 102. 100. 105. 108. 130. 104. 116. 112. 105. 104. 107. 89. 96. 104. 110.

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

 Table 5

 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

 2012 = 100, seasonally adjusted

		1	A no.	Mov	Innar	I.,1.,. [[]	Aug r	Cant I	Oat I	Nov. ^p
	proportion	Mai.	Apı.	Iviay	June	July	Aug.	зері.	Oct.	INOV.
	100.00	107.2	107.1	106.7	106.7	107.5	107.7	107.5	107.1	106.5
	27.52	114.2	112.3	110.5	110.7	110.8	111.7	112.2	109.3	106.5
	5.32	111.2	107.5	106.1	106.7	106.5	108.6	109.5	107.5	102.3
	3.04	107.1	107.0	105.5	105.5	105.4	105.5	107.6	105.0	103.1
213111	.76	61.8	52.1	47.5	45.6	46.2	46.9	45.1	42.8	41.1
	3.90	102.9	101.6	102.6	105.1	103.1	103.7	106.4	103.1	100.2
	14.51	122.9	121.6	118.9	118.2	119.2	120.0	119.1	115.8	113.9
	72.48	104.5	104.9	105.0	104.9	106.0	105.9	105.6	105.9	106.0
	2.87	105.8	106.0	105.9	106.1	105 9	105.7	106.4	108.0	108.2
3341										117.1
										99.8
33 12	.50	101.0	103.5	107.5	100.7	102.7	100.1	//.1	//.0	//.0
3344	1.92	105.5	104.8	103.3	103.8	104.1	104.8	106.4	108.2	109.1
	69.61	104.4	104.8	104.9	104.8	105.9	105.8	105.5	105.8	105.8
3361-3	5.12	124.1	126.2	129 3	123.5	136.6	129 6	130.4	132.0	130.8
										133.0
3363	2.32	123.6	124.4	126.7	123.3	131.3	126.3	128.4	129.4	127.7
	64.49	103.1	103.3	103.2	103.5	103.8	104.2	103.8	104.0	104.1
	18.86	101.8	102.2	101.5	101.9	102.8	103.6	103.3	102.8	103.4
	8.69	104.4	104.4	104.9	105.6	104.6	106.0	105.6	105.1	105.3
	4.50	107.6	108.4	108.8	109.4	109.7	110.4	109.0	111.5	111.3
	6.54	102.1	102.7	102.8	103.0	102.5	103.5	103.1	104.0	103.7
	23.76	103.9	104.1	104.0	104.0	104.5	104.0	103.7	104.2	104.2
	97.13	107.3	107.1	106.7	106.7	107.5	107.7	107.5	107.1	106.5
										106.3
										108.1
	33.30	100.8	107.1	107.0	107.4	100.9	100.3	100.2	100.7	100.4
	04.88	106.4	106.1	105.6	105.0	106.1	106.6	106.4	105.0	105.4
										103.4
										104.6
	33.13	104.4	104.4	104.0	103.2	104.7	103.3	103.1	105.0	105.4
	92.01	106.4	106.1	105.6	105.8	106.1	106.6	106.4	105.8	105.2
	65.91	103.4	103.7	103.5	103.7	104.0	104.4	104.2	104.3	104.4
	10.74	105.8	106.0	106.4	105.3	107.0	106.3	106.7	107.5	106.8
	16.40	104.9	105.0	104.8	105.2	105.9	104.9	104.6	105.1	105.2
	3341 3342 3344 3361–3 3361	27.52 5.32 3.04 213111 .76 3.90 14.51 72.48 2.87 3341 .39 3342 .56 3344 1.92 69.61 3361-3 5.12 3361 2.41 3363 2.32 64.49 18.86 8.69 4.50 6.54 23.76 97.13 71.04 35.38 94.88 68.78 33.13 92.01 65.91	proportion Mar. 100.00 107.2 27.52 114.2 5.32 111.2 3.04 107.1 76 61.8 3.90 102.9 14.51 122.9 72.48 104.5 2.87 105.8 3341 .39 115.1 3342 .56 101.6 3344 1.92 105.5 69.61 104.4 3361-3 5.12 124.1 3361 2.41 124.3 3363 2.32 123.6 64.49 103.1 18.86 101.8 8.69 104.4 4.50 107.6 6.54 102.1 23.76 103.9 97.13 107.3 71.04 104.7 35.38 106.8 94.88 106.4 68.78 103.5 33.13 104.4 65.91 103.4 10.74 105.8	proportion Mar. Apr.	proportion Mar. Apr. May 100.00 107.2 107.1 106.7	proportion Mar. Apr. May June [†]	Proportion Mar. Apr. May June* July*	proportion Mar. Apr. May June* July* Aug.*	Proportion Mar. Apr. May June* July* Aug.* Sept.*	Proportion Mar. Apr. May June' July' Aug.' Sept.' Oct.'

r Revised. p Preliminary.

Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2013	55.2	60.5	45.5	46.2	52.5	58.2	48.5	60.2	57.2	52.5	52.2	52.2
2014	40.8	63.5	66.6	49.5	60.9	57.2	63.9	46.5	61.2	56.2	63.2	54.5
2015	49.2	46.5	52.8	53.5	54.2	48.2	60.2	51.2	45.2	53.2		
Three months earlier												
2013	59.2	63.5	57.9	50.8	45.2	51.8	51.2	59.9	55.9	62.5	58.2	55.2
2014	47.8	57.9	64.2	69.6	68.9	58.9	64.2	62.5	62.9	57.5	64.9	65.9
2015	59.5	43.8	47.5	50.8	55.2	51.2	57.5	61.5	53.8	52.8		
Six months earlier												
2013	56.2	59.2	60.2	57.5	57.9	55.5	53.2	55.5	57.2	61.9	61.2	58.9
2014	53.5	56.2	64.9	63.2	62.2	67.2	69.6	68.9	64.2	63.9	69.2	68.6
2015	60.9	57.9	59.2	58.9	50.8	47.5	53.8	60.5	55.9	56.2		

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

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

Table 7
CAPACITY UTILIZATION
Percent of capacity, seasonally adjusted

Item		2014	1972- 2014	1994- 95	2009	2015			2015					
		proportion	ave.	high	low	Q1	Q2 ^r	Q3 ^r	June ^r	July ^r	Aug.r	Sept. ^r	Oct. ^r	Nov.
Total industry		100.00	80.1	85.0	66.9	78.4	77.7	78.0	77.5	78.0	78.1	77.9	77.5	77.
Manufacturing ¹		74.74	78.5	84.6	63.9	75.9	75.9	76.3	75.8	76.5	76.4	76.1	76.3	76.
Manufacturing (NAICS)	31–33	71.57	78.4	84.7	63.6	76.6	76.6	77.0	76.5	77.2	77.0	76.8	77.0	76.
Durable manufacturing		37.90	76.9	83.8	58.3	76.1	76.0	76.4	75.9	76.7	76.4	76.1	76.4	76.
Wood products	321	1.23	76.4	86.6	49.0	70.1	68.8	69.9	68.5	69.9	70.1	69.9	70.9	70.
Nonmetallic mineral products	327	2.22	74.2	82.7	44.4	62.9	62.8	63.4	62.9	63.2	63.9	63.3	65.1	65
Primary metals	331	2.59	79.0	94.4	49.1	74.3	73.6	73.1	75.4	74.9	72.9	71.6	72.9	70
Fabricated metal products	332	5.12	77.6	84.9	62.3	81.6	81.6	80.9	81.5	81.7	80.4	80.6	80.3	80
Machinery	333	5.80	77.8	87.6	58.6	75.8	75.5	75.6	75.1	74.5	76.2	76.0	75.6	75
Computer and electronic products	334	5.80	77.9	84.5	70.3	73.3	72.0	71.6	72.2	71.7	71.7	71.4	71.3	71
Electrical equip., appliances,														
and components	335	1.63	82.2	92.3	66.3	83.8	85.6	86.7	86.3	86.4	87.5	86.1	89.2	88
Motor vehicles and parts	3361-3	5.14	74.8	87.8	33.8	76.1	78.0	81.0	76.0	83.9	79.4	79.7	80.4	79
Aerospace and miscellaneous														
transportation equipment	3364-9	4.31	73.8	70.6	72.5	78.6	78.8	78.8	78.5	78.5	79.3	78.7	78.2	77
Furniture and related products	337	1.13	76.5	82.5	57.2	79.0	77.9	79.1	78.3	78.4	79.0	80.0	81.0	80
Miscellaneous	339	2.92	76.3	80.7	69.2	77.7	77.0	76.8	78.4	76.4	77.5	76.6	76.7	77
Nondurable manufacturing		33.67	80.4	86.0	69.3	77.2	77.3	77.7	77.0	77.6	77.8	77.6	77.5	77
Food, beverage, and tobacco products	311,2	10.11	80.4	85.3	74.8	79.0	79.1	80.0	78.2	79.4	80.5	80.0	79.2	79
Textile and product mills	311,2	.71	79.5	91.8	53.8	73.2	74.2	73.0	74.0	73.0	72.8	73.1	74.6	74
		.30	76.9	91.8 87.4	55.8 57.8	66.3	65.1		65.0		66.3	66.2	63.9	63
Apparel and leather	315,6 322				72.9			66.2	82.4	66.3		82.4	82.5	
Paper		2.35	86.6	92.7		83.1	83.1	82.1		82.1	81.6			82
Printing and support	323 324	1.71 3.44	80.0 85.4	85.0	58.7 75.9	63.3	63.1	63.4	63.0	63.2	63.7	63.4	63.4 85.2	63 85
Petroleum and coal products	324		77.2	91.0		84.4 74.2	84.9	84.8	83.8	84.8	84.6	85.0 74.1		
Chemicals Plastics and rubber products	323	11.92 3.13	82.0	81.8 93.3	66.1 58.8	80.7	74.2 80.6	74.3 81.8	74.7 80.4	74.7 81.2	74.1 82.3	81.8	74.4 81.9	74 81
Other manufacturing (non-NAICS)	1133,5111	3.17	81.4	83.4	69.4	58.0	59.4	60.4	59.9	60.8	60.3	60.3	60.3	59
	ŕ													
Mining	21	15.24	87.5	88.7	79.0	88.3	84.1	83.6	83.2	84.0	84.0	82.7	80.5	79
Utilities	2211,2	10.02	85.9	93.3	78.5	81.4	78.6	79.0	78.9	77.8	79.0	80.2	77.9	74
Calcated bigh to abundance industries		3.02	77.7	86.6	71.8	70.6	69.4	68.3	69.1	68.6	68.2	68.2	68.9	68
Selected high-technology industries	3341	3.02	77.8	87.8	71.8 82.2	66.4	68.1	68.3	68.1	69.5	68.2	67.0	68.9	65
Computers and peripheral equipment Communications equipment	3341	.57	76.8	84.3	82.2 77.0	71.8	72.4	68.3	72.6	69.5	68.3	66.5	66.6	66
	3342	.37	/0.8	84.3	77.0	/1.8	12.4	07.9	72.0	09.0	07.3	00.3	0.00	00
Semiconductors and related electronic components	3344	1.96	79.1	91.8	63.0	71.4	69.0	68.6	68.5	68.4	68.4	69.1	69.9	70
Measures excluding selected														
high-technology industries														
Total industry		96.98	80.2	84.9	66.7	78.7	77.9	78.3	77.8	78.3	78.4	78.2	77.8	77
Manufacturing ¹		71.72	78.6	84.5	63.4	76.1	76.2	76.7	76.1	76.9	76.7	76.5	76.6	76
STACE OF PROCESS CROWNS														
STAGE-OF-PROCESS GROUPS Crude		19.34	86.3	89.8	76.9	86.2	83.5	82.9	82.6	83.2	83.2	82.3	80.9	80
s more						76.8	76.1	76.4	76.1	76.4	76.3	82.3 76.4		75
Primary and semifinished Finished		44.36 36.30	80.7 77.0	87.8 80.7	64.2 66.7	76.0	76.1	76.7	75.9	76.4	76.9	76.4	76.4 76.2	76

r Revised. p Preliminary.

1. Refer to note on cover page.

Table 8
INDUSTRIAL CAPACITY
Percent change

	,	Average a	nual rate		Fourth	anarter ta	o fourth o	marter		Annual	rate		Monthly rate
Item	1972-	1980-	1989-	1995-	1 ourth	quarter	o iourui c	quarter	2015	, xiiiiuu	Tate		2015
	79	88	94	2015	2012	2013	2014	2015	Q1	Q2	Q3	Q4	Nov.
Total industry	3.0	1.9	2.3	2.3	2.4	1.6	2.1	1.5	1.7	1.5	1.4	1.4	.1
Manufacturing ¹	3.2	2.2	2.6	2.3	1.9	1.1	.7	1.2	1.0	1.2	1.3	1.3	.1
Mining Utilities	.7 4.2	.1 2.1	6 1.8	1.4 1.8	5.8 1.2	6.4	9.3 1.2	4.2	6.3 1.0	4.3	3.1	3.1	.3 .1
Selected high-technology industries	18.6	16.8	16.0	18.5	13.7	5	.9	5.9	4.9	5.9	6.4	6.4	.5
Manufacturing ¹ ex. selected high-technology industries	2.6	1.3	1.6	1.0	1.4	1.3	.7	.9	.8	.9	1.0	1.1	.1
STAGE-OF-PROCESS GROUPS Crude	1.5	.5	5	1.3	6.3	4.4	7.0	3.3	4.8	3.4	2.4	2.4	.2
Primary and semifinished	3.0	1.3	2.5	2.5	1.8	.7	.5	1.0	.8	.9	1.0	1.1	.1
Finished	3.9	3.3	2.7	2.1	1.2	1.6	1.3	1.5	1.3	1.4	1.5	1.6	.1

^{1.} 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

illions of 2009 dollars at annual rate, seaso	many adjusted		2015			2015					
			2015			2015					
Item	2009	2014	Q1	Q2 ^r	Q3 ^r	June ^r	July ^r	Aug. ^r	Sept. ^r	Oct. ^r	Nov.
Final products and nonindustrial											
supplies	3,259.8	3,712.2	3,762.3	3,761.5	3,806.5	3,745.7	3,804.3	3,806.8	3,808.4	3,798.2	3,784.
Final products	2,413.4	2,757.9	2,793.3	2,791.3	2,832.7	2,776.2	2,834.7	2,831.5	2,832.0	2,815.2	2,805.2
Consumer goods	1,796.1	1,965.5	1,996.0	1,997.2	2,036.0	1,985.5	2,036.9	2,032.5	2,038.5	2,025.9	2,016.
Durable	354.5	491.6	500.7	514.8	537.5	508.3	549.9	530.5	532.1	538.6	536.
Automotive products	200.5	320.5	326.6	339.8	359.9	332.0	373.0	352.9	353.8	359.8	357.
Other durable goods	154.0	171.1	174.0	175.1	177.9	176.3	177.4	177.7	178.5	179.1	179.
Nondurable	1,441.6	1,487.2	1,509.8	1,498.5	1,516.2	1,493.0	1,505.7	1,519.2	1,523.6	1,505.3	1,497.
Equipment, total	617.3	800.3	805.2	801.7	804.3	798.4	805.3	806.5	800.9	796.6	796.
Business and defense	600.0	773.0	784.8	789.8	792.6	787.4	793.4	794.9	789.7	785.8	786.
Business	483.2	657.6	669.3	675.5	679.2	673.4	680.0	680.6	676.8	673.0	673.
Defense and space	116.8	115.9	116.0	114.9	114.1	114.7	114.0	114.9	113.6	113.4	112.
Nonindustrial supplies	846.4	954.1	969.0	970.3	973.4	969.8	969.0	975.0	976.1	983.3	979.
Construction supplies	232.2	276.6	280.0	280.8	282.2	282.1	281.9	283.5	281.3	288.0	287.
Business supplies	614.2	677.9	689.5	689.9	691.6	688.1	687.5	691.9	695.3	695.6	692.
Commercial energy products	232.5	247.5	253.8	251.0	250.5	248.8	249.2	248.9	253.4	249.9	247.

r Revised. p Preliminary.

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

2014 gross value ¹		urth quar	ter	2015	Annual r	ate			Month	nly rate			Nov. '14
. 1	2012			2015									
gross value1	2012			2013			2015						to
gross value	2012	2013	2014	Q1	Q2 ^r	Q3 ^r	June ^r	July ^r	Aug.r	Sept.r	Oct.r	Nov.p	Nov. '15
2,163.8	1.5	.9	4.5	-2.1	1.3	6.1	9	2.4	5	.0	4	.3	.4
1,914.8	2.1	2.5	4.3	1.2	2	3.7	5	.9	.2	.3	.3	-1.0	.2
1,455.4	.8	5.4	2	2.3	-2.6	1.3	.5	.4	5	.5	7	-1.3	-2.0
776.5	5.5	3.3	5.9	-3.1	-4.3	5	1	.5	.1	8	8	4	-3.2
	2,163.8 1,914.8 1,455.4	2,163.8 1.5 1,914.8 2.1 1,455.4 .8	2,163.8 1.5 .9 1,914.8 2.1 2.5 1,455.4 .8 5.4	2,163.8 1.5 .9 4.5 1,914.8 2.1 2.5 4.3 1,455.4 .8 5.42	2,163.8 1.5 .9 4.5 -2.1 1,914.8 2.1 2.5 4.3 1.2 1,455.4 .8 5.42 2.3	2,163.8 1.5 .9 4.5 -2.1 1.3 1,914.8 2.1 2.5 4.3 1.22 1,455.4 .8 5.42 2.3 -2.6	2,163.8 1.5 .9 4.5 -2.1 1.3 6.1 1,914.8 2.1 2.5 4.3 1.22 3.7 1,455.4 .8 5.42 2.3 -2.6 1.3	2,163.8 1.5 .9 4.5 -2.1 1.3 6.1 9 1,914.8 2.1 2.5 4.3 1.2 2 3.7 5 1,455.4 .8 5.4 2 2.3 -2.6 1.3 .5	2,163.8 1.5 .9 4.5 -2.1 1.3 6.1 9 2.4 1,914.8 2.1 2.5 4.3 1.2 2 3.7 5 .9 1,455.4 .8 5.4 2 2.3 -2.6 1.3 .5 .4	2,163.8 1.5 .9 4.5 -2.1 1.3 6.1 9 2.4 5 1,914.8 2.1 2.5 4.3 1.2 2 3.7 5 .9 .2 1,455.4 .8 5.4 2 2.3 -2.6 1.3 .5 .4 5	2,163.8 1.5 .9 4.5 -2.1 1.3 6.1 9 2.4 5 .0 1,914.8 2.1 2.5 4.3 1.2 2 3.7 5 .9 .2 .3 1,455.4 .8 5.4 2 2.3 -2.6 1.3 .5 .4 5 .5	2,163.8 1.5 .9 4.5 -2.1 1.3 6.1 9 2.4 5 .0 4 1,914.8 2.1 2.5 4.3 1.2 2 3.7 5 .9 .2 .3 .3 1,455.4 .8 5.4 2 2.3 -2.6 1.3 .5 .4 5 .5 7	2,163.8 1.5 .9 4.5 -2.1 1.3 6.1 9 2.4 5 .0 4 .3 1,914.8 2.1 2.5 4.3 1.2 2 3.7 5 .9 .2 .3 .3 -1.0 1,455.4 .8 5.4 2 2.3 -2.6 1.3 .5 .4 5 .5 7 -1.3

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	Annua
IP (percent																	
change) ¹																	
1993	.4	.4	1	.3	3	.2	.3	1	.5	.8	.4	.5	3.6	.9	1.7	6.2	3.3
1994	.4	.0	1.0	.5	.5	.7	.2	.6	.4	.9	.6	1.1	5.0	7.5	5.3	8.6	5.3
1995 1996	.2 7	1 1.6	.2 1	.0	.3	.4	4 2	1.3	.4	1 1	.3	.4	4.5	1.4 8.7	3.8 5.1	3.5 5.7	4.8
1997	.1	1.2	.7	.1	.6	.5	.8	1.1	.9	.9	.9	.3	7.9	6.3	9.7	10.8	7.3
1998	.5	.1	.1	.4	.6	6	4	2.0	2	.8	1	.4	4.7	2.7	2.8	5.7	5.9
1999 2000	.5 .0	.5	.2	.2	.7 .2	2 .1	.6 1	.4 4	4 .4	1.3	.5	.8 3	4.3	3.9 5.4	3.8	7.5 -1.1	4.3
2000	7	6	3	3	7	7	5	2	3	5	5	.0	-5.5	-5.4	-5.7	-4.4	-3.3
2002	.6	.0	.8	.4	.4	1.0	2	.0	.1	3	.5	5	2.9	6.4	2.4	2	
2003 2004	.7	.3 .6	2 5	8	.0	.1 8	.4	2 .1	.6	.1 .9	.8	1 .7	2.6 2.3	-2.9 1.8	2.4 2.2	3.8	1.3
005	.2 .5	.7	3 1	.4	.8	6	.8 3	.2	.1 -1.9	1.3	.2 1.0	.6	5.8	2.1	-1.9	5.7 3.8	3.
2006	.1	.0	.3	.4	1	.4	.0	.3	1	.0	1	1.0	3.7	2.4	1.5	1.0	2.
2007	5	1.1	.1	.7	.0	.0	.0	.2	.4	5	.6	.0	3.7	5.0	.9	.6	2.:
2008 2009	3	3	3 -1.5	7 8	5 -1.0	2 4	5 1.1	-1.5	-4.3 .8	.9 .4	-1.2 .3	-2.9	-1.4 -20.3	-5.4 -11.0	-12.1 5.9	-15.9	-3.4
2009 2010	-2.3 1.2	6 .3	-1.5 .7	8 .4	1.5	4	1.1 .5	1.1	.8	2	.0	.4 .9	8.0	8.3	6.0	6.6 1.5	-11. 5.
2011	.0	5	.9	4	.3	.2	.4	.6	.0	.7	1	.5	2.2	.9	4.4	3.9	3.
2012	.7	.2	7	.8	.1	1	.3	4	.1	.3	.5	.2	3.9	2.2	.1	2.2	2.
2013	.1	.4	.2	.0	1	.2	4	.8	.6	.0	.3	.3	2.9	1.1	1.7	3.7	1.9
014 015	2 3	.8 2	.8 2	.2 2	.4 4	.4	.3 .8	.0	.5 1	.2 4	.9 6	.1	3.6	5.7 -2.3	3.9 2.9	4.7	3.
P (2012=100)																	
013	100.9	101.3	101.6	101.5	101.5	101.7	101.3	102.0	102.6	102.7	102.9	103.2	101.3	101.6	102.0	102.9	101.
014	103.0	103.8	104.7	104.9	105.2	105.7	106.1	106.1	106.7	106.8	107.8	107.9	103.8	105.3	106.3	107.5	105.
2015	107.6	107.4	107.2	107.1	106.7	106.7	107.5	107.7	107.5	107.1	106.5		107.4	106.8	107.6		
Capacity percent of																	
2012 output)																	
2013	131.9	132.0	132.2	132.4	132.5	132.7	132.9	133.0	133.2	133.4	133.6	133.8	132.0	132.5	133.0	133.6	132.
2014	134.1	134.3	134.5	134.8	135.0	135.2	135.5	135.7	136.0	136.2	136.4	136.6	134.3	135.0	135.7	136.4	135.
2015	136.8	137.0	137.1	137.3	137.5	137.6	137.8	138.0	138.1	138.3	138.4		137.0	137.5	138.0		
U tilization percent)																	
1993	81.4	81.6	81.4	81.5	81.1	81.2	81.3	81.1	81.4	81.8	82.0	82.3	81.4	81.3	81.3	82.1	81.
994	82.4	82.3	82.9	83.1	83.3	83.6	83.5	83.7	83.7	84.2	84.4	85.0	82.5	83.4	83.7	84.5	83.
1995	84.9	84.5	84.3	84.0	84.0	83.9	83.3	84.0	84.0	83.6	83.5	83.4	84.6	84.0	83.8	83.5	84.
996 997	82.5 83.3	83.4 83.9	83.0 84.0	83.3 83.6	83.5 83.7	83.8 83.6	83.3 83.8	83.4 84.2	83.6 84.4	83.1 84.6	83.4 84.8	83.6 84.5	83.0 83.7	83.6 83.7	83.4 84.1	83.4 84.7	83. 84.
998	84.4	83.9	83.5	83.2	83.2	82.2	81.4	82.6	82.0	82.3	81.8	81.8	83.9	82.9	82.0	82.0	82.
999	81.8	81.8	81.6	81.5	81.8	81.3	81.5	81.6	81.0	81.7	81.8	82.2	81.7	81.5	81.3	81.9	81.
000	81.9	81.9	81.9	82.2	82.1	81.9	81.6	81.0	81.1	80.6	80.4	79.9	81.9	82.1	81.3	80.3	81.
001 002	79.1 73.9	78.4 73.8	78.0 74.3	77.5 74.6	76.8 74.8	76.1 75.5	75.5 75.3	75.1 75.3	74.7 75.4	74.2 75.2	73.7 75.6	73.6 75.2	78.5 74.0	76.8 75.0	75.1 75.3	73.8 75.3	76 74
003	75.8	76.0	75.9	75.4	75.4	75.5	75.9	75.8	76.3	76.4	77.0	76.9	75.9	75.5	76.0	76.8	76.
2004	77.1	77.6	77.2	77.5	78.1	77.5	78.1	78.2	78.2	79.0	79.1	79.6	77.3	77.7	78.2	79.2	78
005	79.9	80.4	80.2	80.2	80.2	80.4	80.1	80.1	78.5	79.4	80.0	80.4	80.2	80.3	79.6	79.9	80
006 007	80.4 79.9	80.3 80.6	80.4 80.5	80.6 81.0	80.4 80.9	80.6 80.7	80.4 80.6	80.5 80.7	80.3 80.9	80.1 80.4	79.8 80.9	80.5 80.9	80.4 80.4	80.5 80.8	80.4 80.7	80.1 80.8	80 80
008	80.7	80.6	80.4	79.9	79.6	79.4	79.0	77.8	74.5	75.1	74.1	71.9	80.6	79.6	77.1	73.7	77.
009	70.1	69.6	68.5	67.9	67.2	66.9	67.6	68.4	69.0	69.4	69.7	70.0	69.4	67.3	68.4	69.7	68
010	71.0	71.4	72.0	72.4	73.6	73.9	74.4	74.8	75.1	75.0	75.1	75.8	71.4	73.3	74.8	75.3	73
011 012	75.8 77.2	75.5 77.2	76.1 76.5	75.7 77.0	75.9 76.9	76.0 76.7	76.2 76.8	76.6 76.3	76.4 76.2	76.8 76.3	76.5 76.5	76.8 76.6	75.8 77.0	75.9 76.9	76.4 76.4	76.7 76.5	76 76
013	76.5	76.7	76.8	76.7	76.6	76.6	76.2	76.7	77.0	76.9	77.0	77.1	76.7	76.6	76.7	77.0	76
014	76.8	77.3	77.8	77.8	78.0	78.2	78.3	78.2	78.5	78.5	79.0	79.0	77.3	78.0	78.3	78.8	78.
2015	78.7	78.4	78.2	78.0	77.6	77.5	78.0	78.1	77.9	77.5	77.0		78.4	77.7	78.0		

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

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

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annua
IP (percent																	
change) ²																	
1993	1.0	.2	2	.5	1	2	.3	2	.6	.9	.4	.6	4.5	1.4	.8	6.9	3.:
1994	.2	.1	1.3	.8	.7	.3	.4	.8	.5	1.0	.8	1.1	4.8	9.5	6.2	10.4	5.
1995 1996	.2	2 1.6	.3 2	1 1.1	.1	.5 1.0	6 .2	1.1	.9	1 2	.1 .9	.4	4.7 1.9	.9 9.9	3.1 7.5	4.4 5.9	5.
1990	0	1.4	1.1	2	.8	.7	.7	1.3	.0	2 .9	1.1	.4	9.4	7.5	10.8	11.7	4.9 8.3
1998	.9	.1	1	.5	.5	8	4	2.4	2	1.0	.2	.5	6.3	2.2	3.1	7.9	6.8
1998	.3	.1	1 1	.3	.9	8	4	.6	2 4	1.5	.6	.7	4.9	4.4	3.4	9.0	5.0
2000	.1	.2	.7	.8	1	.2	.1	7	.4	3	3	6	4.8	5.2	4	-2.6	4.
2001	6	6	3	3	8	7	5	5	2	6	3	.3	-6.4	-5.6	-6.2	-4.1	-3.
2002	.5	.0	.8	.2	.5	1.1	3	.2	.1	4	.5	5	3.5	5.8	3.2	3	
2003	.5	.1	.1	9	.1	.5	.2	5	.8	.1	1.0	2	1.8	-1.9	2.0	4.3	1.
2004	1	.7	2	.4	.8	7	.9	.4	.0	1.0	1	.7	1.9	3.0	3.8	5.4	2.
2005 2006	.8	.8 3	5 1	.6	.4 4	.2	3 3	.6	-1.0 .1	1.5	.8	1.5	6.5	2.4	6 .8	6.4 1.7	4.
2007	5	3	.8	.7	1	.3	3	3	.1	3 4	.5	.1	4.2	5.8	.7	.5	2.
2008 2009	4 -3.0	6 2	3 -1.9	-1.1 8	5 -1.1	5 4	-1.1 1.4	-1.2 1.1	-3.4	6 .2	-2.4 .9	-3.4 2	-2.7 -24.2	-7.6 -11.3	-13.4 7.7	-21.4 7.2	-4. -13.
2010	1.1	1	1.2	.9	1.4	1	.7	.2	.1	.1	.0	.4	6.8	10.9	5.0	1.5	5.
2011	.3	.0	.5	6	.2	.0	.7	.3	.4	.6	3	.7	2.9	4	4.6	3.8	3.
2012	1.0	.3	6	.7	5	.1	.0	3	.0	2	.7	.7	5.5	.5	-1.0	1.3	2.
2013	2	.4	3	3	.2	.2	8	.9	.2	.2	1	.0	2.5	5	.5	2.7	
2014	8	1.1	.7	.3	.2	.4	.7	4	.2	.3	.9	.0	.7	5.9	3.8	3.4	2.
2015	3	4	.2	.4	.0	1	1.0	1	2	.3	.0		7	1.5	3.4		
IP (2012=100)																	
2013	100.6	101.0	100.7	100.5	100.7	100.8	100.1	101.0	101.2	101.5	101.4	101.4	100.8	100.6	100.8	101.4	100
2014 2015	100.6 104.9	101.7 104.5	102.5 104.8	102.8 105.2	103.0 105.2	103.5 105.1	104.2 106.1	103.9 106.1	104.1 105.9	104.3 106.2	105.2 106.2	105.2	101.6 104.7	103.1 105.1	104.1 106.0	104.9	103.
Capacity (percent of 2012 output) 2013	135.5	135.7	135.9	136.0	136.1	136.2	136.3	136.4	136.5	136.6	136.7	136.8	135.7	136.1	136.4	136.7	136.
2014	136.9	137.0	137.1	137.1	137.2	137.3	137.4	137.4	137.5	137.6	137.7	137.8	137.0	137.2	137.4	137.7	137.
2015	137.9	138.1	138.2	138.3	138.5	138.6	138.8	138.9	139.1	139.2	139.4		138.1	138.5	138.9		
Utilization																	
(percent)																	
1993	80.5	80.5	80.2	80.5	80.3	80.1	80.2	79.9	80.2	80.8	81.0	81.2	80.4	80.3	80.1	81.0	80
1994	81.2	81.1	81.9	82.4	82.7	82.6	82.7	83.0	83.2	83.7	84.0	84.6	81.4	82.6	83.0	84.1	82
1995 1996	84.5 81.3	83.9 82.1	83.8 81.5	83.4 82.0	83.2 82.2	83.2 82.5	82.3 82.3	82.9 82.3	83.2 82.5	82.8 81.9	82.4 82.2	82.3 82.4	84.1 81.6	83.2 82.2	82.8 82.4	82.5 82.2	83
1997	82.0	82.7	83.1	82.5	82.6	82.7	82.7	83.2	83.3	83.5	83.7	83.5	82.6	82.6	83.1	83.6	83
1998	83.5	83.0	82.3	82.1	81.9	80.7	79.9	81.3	80.7	81.0	80.7	80.7	82.9	81.6	80.6	80.8	81
1999	80.5	80.8	80.3	80.3	80.7	80.0	80.0	80.2	79.6	80.4	80.6	80.8	80.6	80.3	79.9	80.6	80
2000	80.5	80.4	80.6	80.8	80.4	80.3	80.1	79.2	79.2	78.7	78.2	77.4	80.5	80.5	79.5	78.1	79
2001	76.7	76.0	75.5	75.1	74.3	73.6	73.1	72.6	72.3	71.8	71.5	71.6	76.1	74.4	72.7	71.6	73
2002	71.9	71.9	72.4	72.5	72.8	73.6	73.4	73.5	73.6	73.3	73.7	73.3	72.0	73.0	73.5	73.5	73
2003	73.7	73.8	73.9	73.3	73.4	73.8	73.9	73.6	74.2	74.3	75.1	75.0	73.8	73.5	73.9	74.8	74
2004	74.9	75.5	75.4	75.7	76.3	75.8	76.5	76.8	76.8	77.5	77.4	77.8	75.3	76.0	76.7	77.6	76
2005	78.3	78.8	78.3	78.4	78.5	78.5	78.0	78.1	77.2	78.3	78.7	78.6	78.5	78.4	77.8	78.5	78
2006 2007	79.2 78.4	78.8 78.6	78.6 79.0	79.0 79.4	78.5 79.1	78.7 79.1	78.3 79.0	78.7 78.6	78.6 78.8	78.2 78.4	78.1 78.7	79.0 78.7	78.9 78.7	78.7 79.2	78.5 78.8	78.4 78.6	78 78
		77.9											78.0				
2008 2009	78.4 66.2	66.2	77.7 65.0	76.9 64.6	76.7 64.0	76.3 63.9	75.6 64.9	74.8 65.7	72.4 66.4	72.0 66.6	70.5 67.4	68.1 67.4	65.8	76.7 64.2	74.2 65.7	70.2 67.1	74 65
2010	68.2	68.3	69.2	69.9	71.1	71.1	71.7	72.0	72.1	72.4	72.4	72.8	68.6	70.7	72.0	72.5	70
2011	73.1	73.2	73.6	73.2	73.3	73.3	73.8	73.9	74.1	74.5	74.1	74.5	73.3	73.3	73.9	74.4	73
2012	75.1	75.2	74.7	75.0	74.6	74.5	74.4	74.1	74.0	73.7	74.1	74.5	75.0	74.7	74.2	74.1	74
2012	I	74.4	74.1	73.9	73.9	74.0	73.4	74.0	74.1	74.2	74.2	74.1	74.3	73.9	73.8	74.2	74
	74.2	74.4	/4.1	,													
2013 2014 2015	74.2 73.5 76.1	74.4 74.3 75.7	74.8 75.8	75.0 76.1	75.1 76.0	75.4 75.8	75.9 76.5	75.6 76.4	75.7 76.1	75.8 76.3	76.4 76.2	76.3	74.2 75.9	75.1 75.9	75.7 76.3	76.2	75

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

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

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent									•								
change) ²																	
1993	.4	.4	2	.3	4	.2	.3	2	.4	.7	.3	.5	3.2	.2	1.3	5.3	2.5
1994	.3	.0	.9	.3	.4	.6	.0	.3	.1	.6	.4	.9	4.2	5.4	3.1	5.7	4.0
1995 1996	.1 -1.0	2 1.3	1	3	.1	.6	5 5	1.1	.1	4	.1	.1	2.8	-1.2	1.3	.4	2.4
1996	-1.0	.9	3 .4	.8 2	.3	.0	5	.3	.5	4 .7	.8	.5 .1	5 5.2	6.6 2.5	2.0 6.3	3.0 7.7	1.7
1998	.3	.0	.0	.2	.6	-1.0	7	1.9	6	.6	3	.1	2.1	.7	4	2.4	3.1
1999 2000	3	.2	1 .1	1 .5	.5 1	5 1	.3 4	.4 5	5 .3	1.2 4	.2 1	.5 5	.6	.3 1.8	.9 -3.1	5.5 -2.6	1.1 1.0
2001	7	6	3	1	6	5	3	2	4	5	1 5	1	-5.8	-4.4	-4.4	-4.5	-3.9
2002	.7	1	.8	.4	.4	.9	3	1	.1	3	.5	6	2.7	6.3	1.9	7	.3
2003	.6	.1	3	9	1	1	.3	3	.5	.0	.8	1	1.5	-4.6	.7	2.8	.2
2003	.1	.6	6	9	.8	8	.8	.0	.0	.9	.2	1	1.9	2.0	2.1	5.2	1.7
2005	.4	.6	2	.0	.1	.4	4	.1	-2.1	1.2	1.0	.6	4.8	1.3	-3.1	2.5	2.5
2006	.1	1	.2	.4	2	.3	1	.3	3	1	2	1.0	3.2	1.8	.6	.3	1.4
2007	5	1.0	1	.6	.1	.1	.0	.1	.3	7	.4	1	3.0	4.0	1.0	-1.0	1.8
2008	3	4	4	8	5	2	5	-1.5	-4.4	1.2	-1.0	-2.7	-2.6	-6.4	-12.3	-14.7	-4.2
2009	-2.3	7	-1.7	9	-1.1	4	1.1	1.1	.7	.4	.2	.3	-20.0	-11.9	5.7	6.1	-11.3
2010	1.1	.2	.6	.3	1.5	.2	.5	.3	.2	3	.0	.8	7.0	7.7	5.8	.8	5.0
2011 2012	1 .8	5 .2	.9 7	4 .8	.2	.2 1	.4	.6 4	.0	.7	2 .5	.5 .2	1.5 3.6	.9 1.7	4.2	3.9 2.0	2.7
2012	.0	.∠	/	.0	.1	1	.5	4	.0	.∠	.3	.∠	3.0	1./	.0	2.0	2.0
2013	.1	.4	.2	.0	1	.2	4	.8	.6	.0	.3	.3	3.1	1.0	1.6	3.7	1.9
2014	2	.8	.8	.2	.3	.5	.4	.0	.5	.1	.9	.1	3.8	5.7	4.0	4.7	3.8
2015	3	1	2	2	4	.0	.8	.2	1	4	6		3	-2.3	3.0		
IP (2012=100)																	
2013	100.9	101.3	101.5	101.5	101.4	101.6	101.2	102.0	102.6	102.6	102.8	103.1	101.3	101.5	101.9	102.8	101.9
2014 2015	103.0 107.6	103.8 107.4	104.6 107.3	104.8 107.1	105.2 106.7	105.7 106.7	106.1 107.5	106.1 107.7	106.7 107.5	106.8 107.1	107.8 106.5	107.9	103.8 107.4	105.2 106.8	106.3 107.6	107.5	105.7
Capacity (percent of 2012 output) 2013	131.3	131.5	131.7	131.9	132.0	132.2	132.4	132.6	132.8	133.0	133.2	133.4	131.5	132.0	132.6	133.2	132.3
2014	133.7	133.9	134.2	134.4	134.7	134.9	135.2	135.4	135.6	135.8	136.0	136.2	133.9	134.7	135.4	136.0	135.0
2015	136.4	136.6	136.7	136.9	137.0	137.2	137.3	137.4	137.6	137.7	137.9		136.6	137.0	137.4		
Utilization (percent)																	
1993	81.4	81.7	81.4	81.6	81.2	81.2	81.4	81.2	81.4	81.9	82.1	82.4	81.5	81.3	81.3	82.1	81.6
1994	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	84.5	83.6
1995	84.9	84.5	84.3	83.9	83.8	83.8	83.2	83.9	83.9	83.4	83.3	83.2	84.6	83.8	83.7	83.3	83.8
1996 1997	82.3	83.2	82.8	83.3 83.7	83.6 83.7	84.0	83.4	83.5	83.7	83.2	83.7 84.8	83.9	82.8	83.6 83.7	83.6	83.6	83.4
1771	83.6	84.1	84.2	03.7	03.7	83.6	83.8	84.1	84.3	84.6	04.8	84.6	84.0	03.7	84.1	84.7	84.1
1998	84.5	84.2	83.8	83.6	83.8	82.7	81.8	83.1	82.4	82.6	82.1	81.9	84.1	83.4	82.4	82.2	83.0
1999	81.8	81.7	81.4	81.2	81.4	80.9	80.9	81.1	80.6	81.4	81.5	81.8	81.6	81.2	80.9	81.6	81.3
2000 2001	81.4 78.7	81.3 78.2	81.3 77.9	81.6 77.7	81.4 77.1	81.2 76.6	80.8 76.3	80.3 76.1	80.5 75.7	80.0 75.2	79.8 74.8	79.4 74.6	81.3 78.3	81.4 77.2	80.5 76.0	79.7 74.9	80.8 76.6
2002	75.1	75.0	75.5	75.8	76.1	76.8	76.6	76.1	76.7	76.5	76.9	76.5	75.2	76.3	76.6	76.6	76.0
2003	77.0	77.2	77.0	76.4	76.4	76.4	76.6	76.4	76.9	76.9	77.5 70.6	77.4	77.1	76.4 78.2	76.6	77.3	76.8
2004 2005	77.5 80.4	78.0 80.8	77.6 80.6	78.0 80.6	78.6 80.7	78.0 80.9	78.6 80.5	78.7 80.5	78.7 78.7	79.4 79.6	79.6 80.2	80.1 80.6	77.7 80.6	78.2 80.7	78.7 79.9	79.7 80.1	78.6 80.3
2006	80.5	80.4	80.4	80.6	80.3	80.5	80.3	80.4	80.1	79.9	79.7	80.4	80.4	80.5	80.3	80.0	80.3
2007	79.8	80.6	80.5	80.9	80.9	81.0	80.9	81.1	81.3	80.8	81.2	81.1	80.3	80.9	81.1	81.0	80.8
2008	80.9	80.7	80.4	79.8	79.3	79.1	78.7	77.5	74.0	74.8	73.9	71.8	80.7	79.4	76.7	73.5	77.6
2009	70.1	69.5	68.3	67.7	66.9	66.7	67.4	68.3	68.9	69.2	69.5	69.9	69.3	67.1	68.2	69.6	68.5
2010	70.9	71.1	71.7	72.1	73.4	73.7	74.2	74.6	74.9	74.8	74.8	75.5	71.2	73.1	74.6	75.0	73.5
2011	75.5	75.2	75.9	75.6	75.8	75.9	76.2	76.6	76.5	77.0	76.7	77.0	75.5	75.7	76.4	76.9	76.1
2012	77.5	77.5	76.8	77.3	77.2	77.0	77.1	76.6	76.5	76.6	76.8	76.9	77.2	77.1	76.7	76.7	77.0
2013	76.8	77.1	77.1	77.0	76.8	76.9	76.4	76.9	77.2	77.1	77.2	77.3	77.0	76.9	76.9	77.2	77.0
2014	77.0	77.5	78.0	78.0	78.1	78.3	78.5	78.4	78.7	78.7	79.2	79.2	77.5	78.2	78.5	79.0	78.3
2015	78.9	78.7	78.4	78.2	77.9	77.8	78.3	78.4	78.2	77.8	77.2		78.7	77.9	78.3		
1 Selected high-tecl	1 .	1															<u> </u>

^{1.} Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.
2. Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

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

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
$change)^3$																	
1993	1.0	.1	4	.5	1	2	.3	3	.6	.8	.3	.5	4.0	.6	.3	6.0	2.6
1994	.1	.1	1.1	.6	.5	.1	.2	.5	.2	.7	.6	.9	3.9	7.1	3.7	7.0	4.4
1995	.1	4	1	4	1	.3	8	.8	.6	4	1	.0	2.7	-2.3	.2	.8	2.5
1996	-1.2	1.3	5	1.0	.5	.8	1	.2	.6	5	.7	.7	-2.0	7.4	3.9	2.8	1.5
1997	2	1.1	.8	6	.4	.4	.4	1.0	.6	.7	.8	.1	6.2	3.0	6.9	8.2	4.9
1998	.6	.0	3	.3	.4	-1.2	8	2.3	6	.7	1	.2	3.4	2	6	4.2	3.5
1999	1	.5	4	.0	.7	7	.0	.6	5	1.4	.4	.4	.7	.3	.0	6.7	1.3
2000	3	2	.3	.4	6	.0	2 2	-1.0	.3	4	5	8	.3	.9	-3.8	-4.6	.7
2001 2002	6 .6	6 2	3 .8	1 .2	7 .6	6 1.1	4	5 .1	2 .1	7 4	2 .4	.1 6	-6.9 3.2	-4.4 5.6	-4.6 2.6	-4.2 -1.0	-4.7 .4
2002	.0	2	.0	.2	.0	1.1		.1	.1		.7	0	3.2	3.0	2.0	-1.0	
2003	.4	1	.1	-1.0	1	.3	.0	6	.7	1	1.0	3	.5	-3.9	1	3.1	.0
2004	2	.7	2	.4	.8	8	1.0	.4	1	1.0	1	.6	1.3	3.3	3.7	4.8	2.0
2005	.6	.7	6	.2	.3	.1	5	.2	-1.2	1.5	.7	.0	5.2	1.4	-2.2	4.9	3.1
2006	.8	4 .3	1	.5	6	.2 .5	3	.5	.0	4	.0 .3	1.5	3.1	.0 4.7	3 .8	.8	1.5
2007	6	.3	.6	.5	.0	.3	.1	4	.3	6	.3	.0	3.2	4.7	.8	-1.7	1.8
2008	5	8	4	-1.2	6	6	-1.1	-1.2	-3.5	4	-2.1	-3.3	-4.3	-9.1	-13.6	-20.2	-5.8
2009	-3.1	2	-2.1	9	-1.2	4	1.4	1.2	.8	.2	.9	2	-24.1	-12.4	7.5	6.6	-13.8
2010	1.0	3	1.1	.8	1.5	1	.6	.1	.0	.1	1	.3	5.4	10.2	4.7	.6	5.1
2011	.2	.0	.6	6	.1	.0	.7	.2	.4	.7	4	.7	2.1	4	4.3	3.9	2.5
2012	1.0	.2	7	.6	5	.1	.0	2	1	3	.7	.7	5.2	3	-1.2	1.0	2.4
2013	2	.4	3	3	.2	.2	8	1.0	.3	.2	1	.1	2.8	7	.3	2.7	.8
2014	8	1.1	.8	.3	.2	.4	.8	4	.2	.2	.9	.0	.9	6.0	3.9	3.4	2.5
2015	3	4	.2	.4	.0	1	1.1	1	2	.2	.0		6	1.6	3.5		
IP (2012=100)																	
2013	100.5	100.9	100.7	100.4	100.5	100.7	99.9	100.8	101.1	101.3	101.2	101.3	100.7	100.5	100.6	101.3	100.8
2014	100.5	101.6	102.4	102.7	102.9	103.3	104.1	103.7	104.0	104.2	105.1	105.1	101.5	103.0	103.9	104.8	103.3
2015	104.8	104.4	104.7	105.1	105.1	105.0	106.1	106.0	105.8	106.1	106.1		104.6	105.1	106.0		
Capacity (percent of																	
2012 output)																	
2013	135.0	135.1	135.3	135.4	135.6	135.7	135.8	135.9	136.1	136.2	136.3	136.4	135.1	135.6	135.9	136.3	135.7
2014	136.5	136.6	136.7	136.7	136.8	136.9	137.0	137.0	137.1	137.2	137.2	137.3	136.6	136.8	137.0	137.2	136.9
2015	137.4	137.5	137.6	137.7	137.8	137.9	138.1	138.2	138.3	138.4	138.5		137.5	137.8	138.2		
Utilization																	
(percent)	00.6	00.6	00.2	00.5	00.2	00.1	00.2	70.0	00.2	00.0	01.0	01.2	00.7	00.2	00.1	01.0	00.7
1993	80.6	80.6	80.2	80.5	80.3	80.1	80.2	79.9	80.2	80.8	81.0	81.3	80.5	80.3	80.1	81.0	80.5
1994	81.3	81.2	82.1	82.4	82.7	82.7	82.8	83.1	83.1	83.5	83.9	84.5	81.5	82.6	83.0	84.0	82.8
1995 1996	84.4 80.9	83.9 81.7	83.7 81.2	83.2 81.9	82.9 82.1	83.0 82.6	82.1 82.3	82.6 82.3	82.9 82.6	82.4 82.0	82.1 82.3	82.0 82.7	84.0 81.3	83.0 82.2	82.5 82.4	82.2 82.3	82.9 82.0
1997	82.3	82.9	83.2	82.5	82.5	82.5	82.5	83.0	83.1	83.3	83.7	83.4	82.8	82.5	82.9	83.5	82.9
1998	83.5	83.1	82.6	82.4	82.4	81.1	80.2	81.7	80.9	81.2	80.8	80.8	83.1	82.0	80.9	80.9	81.7
1999 2000	80.4 79.8	80.6 79.6	80.0 79.7	79.8 79.9	80.2 79.4	79.4 79.3	79.2 79.0	79.5 78.1	79.0 78.2	79.9 77.8	80.0 77.3	80.2 76.6	80.3 79.7	79.8 79.5	79.2 78.4	80.1 77.2	79.9 78.7
2000	79.8 76.0	79.6 75.5	79.7 75.2	79.9 75.1	79.4 74.5	79.3 74.1	79.0 73.9	73.5	78.2 73.3	77.8	72.6	76.6	75.6	79.5 74.6	78.4 73.6	72.7	74.1
2001	73.1	73.0	73.6	73.7	74.3	75.0	74.7	74.9	75.0	74.7	75.0	74.6	73.3	74.0	74.9	74.8	74.1
2003	75.0	75.0	75.1	74.3	74.3	74.6	74.6	74.2	74.8	74.8	75.6	75.4	75.0	74.4	74.5	75.3	74.8
2004	75.3	75.9	75.8	76.1	76.8	76.2	77.0	77.3	77.2	78.0	77.8	78.3	75.6	76.4	77.1	78.0	76.8
2005	78.7	79.2	78.7	78.8	78.9	78.9	78.4	78.5	77.4	78.4	78.9	78.7	78.9	78.9	78.1	78.7	78.6
2006 2007	79.3 78.3	78.8 78.4	78.6 78.8	78.9 79.2	78.4 79.1	78.4 79.4	78.1 79.4	78.3 79.0	78.2 79.2	77.8 78.7	77.7 78.9	78.8 78.8	78.9 78.5	78.6 79.2	78.2 79.2	78.1 78.8	78.4 78.9
2008	78.5	77.8	77.5	76.6	76.2	75.8	75.0	74.2	71.7	71.5	70.1	67.9	77.9	76.2	73.6	69.8	74.4
2009	65.9	65.9	64.6	64.2	63.5	63.4	64.5	65.4	66.1	66.3	67.1	67.1	65.5	63.7	65.3	66.8	65.3
2010	67.9	67.8	68.7	69.5	70.6	70.7	71.3	71.5	71.7	71.9	72.0	72.3	68.1	70.3	71.5	72.1	70.5
2011 2012	72.5 75.4	72.7 75.5	73.2 74.9	72.8 75.3	73.0 74.8	73.1 74.8	73.6 74.7	73.8 74.4	74.1 74.2	74.6 73.9	74.2 74.3	74.7 74.7	72.8 75.3	73.0 74.9	73.8 74.4	74.5 74.3	73.5 74.7
2013 2014	74.5 73.6	74.7 74.4	74.4 74.9	74.1 75.1	74.2 75.2	74.2 75.5	73.5 76.0	74.2 75.7	74.3 75.8	74.4 76.0	74.3 76.6	74.3 76.5	74.5 74.3	74.2 75.3	74.0 75.9	74.3 76.4	74.2 75.4
2015	76.3	75.9	76.1	76.3	76.3	76.1	76.9	76.7	76.5	76.6	76.6	70.5	76.1	76.2	76.7	70.7	, 5.4
* - *			. 0.1	. 0.0	. 0.0		. 0.,		. 5.0		. 0.0			. 5.2			

^{1.} Refer to note on cover page.
2. Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.
3. Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

EXPLANATORY NOTE

The Industrial Production and Capacity Utilization statistical release, which is published around the middle of the month, reports measures of output, capacity, and capacity utilization in manufacturing, mining, and the electric and gas utilities industries. More detailed descriptions of industrial production and capacity utilization are available on the Board's website at www.federalreserve.gov/releases/G17/About.htm. 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 2012. 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 2012, the total IP index has been constructed from 299 individual series based on the 2012 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 website (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 5 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by 5/10 percentage point $(0.05 \times 10\% = 0.5\%)$. To assist users with calculations, the Federal Reserve's website 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 73 percent of the source data (in value-added terms) are available; the fraction of available source data increases to 83 percent for estimates in the second month that the estimate is published, 94 percent in the third month, 96 percent in the fourth month, 97 percent in the fifth month, and 98 percent in the sixth month. Data availability by data type in early 2015 is summarized in the table below:

Availability of Monthly IP Data in Publication Window (Percent of value added in 2014)

	Mon	Month of estimate								
Type of data	1st	2nd	3rd	4th	5th	6th				
Physical product	34	44	55	57	58	59				
Production-worker hours	39	39	39	39	39	39				
IP data received	73	83	94	95	97	97				
IP data estimated	27	17	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 (34 percent out of a total of 59 percent). Of the 34 percent, about two-thirds (22 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 May 2015; for other series, the factors were estimated with data through at least March 2015. 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 1987–2014 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 1987–2014 period. In most cases (about 86 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 88 detailed industries (70 in manufacturing, 16 in mining, and 2 in utilities), which mostly correspond to industries at the three- and four-digit North American Industry Classification System (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 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 website (www.federalreserve.gov/releases/G17/Meth/MethCap.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 1972–2014 period, the average total industry utilization rate is 80.1 percent; for manufacturing, the average factory operating rate has been 78.5 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 July 21, 2015, 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 online 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

2015: January 16, February 18, March 16, April 15, May 15, June 15, July 15, August 14, September 15, October 16, November 17, and December 16.

2016: January 15, February 17, March 16, April 15, May 17, June 15, July 15, August 16, September 15, October 17, November 16, and December 14.