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INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production increased 0.6 percent in February after having declined 0.2 percent in January. In February, manufacturing output rose 0.8 percent and nearly reversed its decline of 0.9 percent in January, which resulted, in part, from extreme weather. The gain in factory production in February was the largest since last

(over)

Industrial Production and Capacity Utilization: Summary

Seasonally adjusted

			2007=	100					I	Percent o	change		
	2013				2014		2013				2014		Feb. '13 to
Industrial production	Sept. ^r	Oct. ^r	Nov. ^r	Dec. ^r	Jan. ^r	Feb. ^p	Sept. ^r	Oct. ^r	Nov."	Dec. ^r	Jan. ^r	Feb. ^p	Feb. '14
Total index	100.2	100.4	101.2	101.2	101.0	101.6	.6	.2	.8	.0	2	.6	2.8
Previous estimates	100.2	100.4	101.0	101.2	101.0	101.0	.6	.2	.0	.0	3	.0	2.0
Major market groups													
Final Products	97.7	98.0	98.3	98.6	98.3	99.2	1.0	.3	.4	.3	3	.9	2.6
Consumer goods	94.7	95.0	95.6	96.2	95.7	96.5	1.0	.4	.6	.6	5	.8	2.6
Business equipment	103.9	104.2	103.9	103.4	103.8	105.2	1.2	.2	3	4	.3	1.3	2.8
Nonindustrial supplies	89.3	89.6	90.1	90.1	89.7	90.1	.8	.4	.5	.0	5	.5	2.1
Construction	82.6	83.3	83.7	83.1	82.8	82.9	1.1	.9	.5	7	3	.2	.1
Materials	106.3	106.4	107.8	107.4	107.4	107.9	.2	.1	1.3	3	.0	.4	3.2
Major industry groups	0.6.0	047	07.1	07.0	064	07.0		-			0	0	
Manufacturing (see note below)	96.3	96.7	97.1	97.2	96.4	97.2	.2	.5	.4	.2	9	.8	1.5
Previous estimates	96.3	96.7	97.0	97.2	96.4	100.0	.2	.4	.3	.3	8	2	<i>c</i> 1
Mining	122.5	120.5	122.7	122.1	122.8	123.2	1.0	-1.6	1.9	5 9	.5	.3	6.1
Utilities	100.3	101.4	104.3	103.4	107.2	107.0	3.2	1.0	2.9	9	3.8	2	8.3
													Capacity
					Perce	nt of cap	acity						growth
	Average	1988-	1990-	1994-		r							8
	1972-	89	91	95	2009	2013	2013				2014		Feb. '13 to
Capacity utilization	2013	high	low	high	low	Feb.	Sept. ^r	Oct. ^r	Nov. ^r	Dec. ^r	Jan. ^r	Feb. ^p	Feb. '14
Total industry	80.1	85.2	78.8	85.0	66.9	78.1	78.4	78.4	78.9	78.8	78.5	78.8	1.9
Previous estimates							78.4	78.4	78.8	78.9	78.5		
Manufacturing (and note helow)	78.7	85.6	77.3	84.6	64.0	76.5	76.3	76.5	76.7	76.7	75.9	76.4	1.6
Manufacturing (see note below) Previous estimates	/0./	83.0	11.5	04.0	04.0	/0.3	76.3	76.5	76.7	76.7	76.0	/0.4	1.0
Mining	87.4	86.3	83.9	88.6	78.3	87.9	90.4	88.6	89.9	70.7 89.1	89.2	89.1	4.7
Utilities	86.0	92.9	84.3	93.3	78.5	77.5	78.3	79.1	81.3	80.5	83.5	83.3	-4.7
Oundes	00.0	72.9	04.3	75.5	/0.0	11.5	70.5	17.1	01.3	00.5	05.5	05.5	.0
Stage-of-process groups													
Crude	86.3	87.7	84.4	89.7	76.4	86.3	88.1	86.8	87.8	87.4	86.8	86.9	3.8
Primary and semifinished	80.9	86.5	78.0	87.9	64.4	76.4	76.6	77.2	78.0	77.6	77.7	77.8	.9
Finished	77.1	83.4	77.3	80.6	66.8	76.5	75.9	75.9	75.9	76.1	75.4	76.2	2.4
r Revised n Preliminary												=	· · · · · · · · · · · · · · · · · · ·

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.

August. The output of utilities edged down 0.2 percent following a jump of 3.8 percent in January, and the production at mines moved up 0.3 percent. At 101.6 percent of its 2007 average, total industrial production in February was 2.8 percent above its level of a year earlier. The capacity utilization rate for total industry increased in February to 78.8 percent, a rate that is 1.3 percentage points below its long-run (1972–2013) average.

Market Groups

In February, the production of consumer goods rose 0.8 percent and was 2.6 percent above its level of a year earlier. The indexes for consumer durables and consumer non-energy nondurables moved up 2.1 percent and 0.9 percent, respectively, in February, while the index for consumer energy products decreased 0.8 percent. Within consumer durables, the production of automotive products jumped 4.6 percent to reverse most of a similarly sized decrease in January, and the output of home electronics increased 0.7 percent. These gains in February were partly offset by a decrease of 1.7 percent in the production of appliances, furniture, and carpeting as well as a decline of 0.1 percent in the output of miscellaneous goods. Within consumer non-energy nondurables, the indexes for foods and tobacco, for chemical products, and for paper products each rose about 1 percent, while the output of clothing moved down 0.7 percent.

The production of business equipment rose 1.3 percent in February after having been little changed, on net, over the preceding four months. The indexes for transit equipment and for industrial and other equipment, which had been the principal contributors to the slower pace of business equipment growth in those months, increased 2.0 percent and 1.6 percent in February, respectively. Unlike the other major components of business equipment, information processing equipment posted a small decrease in February after having advanced somewhat from September to January. The output of business equipment in February was 2.8 percent above its year-earlier level.

The production of defense and space equipment increased 0.2 percent in February following a decline of 0.3 percent in January. The index for this market group was 2.6 percent above its level of 12 months earlier.

Among nonindustrial supplies, the output of construction supplies moved up 0.2 percent in February after having fallen in each of the previous two months. The index for construction supplies was 0.1 percent above its level of a year earlier; between February 2012 and February 2013, the index had increased 4.5 percent. The production of business supplies rose 0.7 percent in February, more than reversing its decline in January, and was 3.1 percent higher than its year-earlier level.

The production of materials to be processed further in the industrial sector rose 0.4 percent in February and stood 3.2 percent above its level of a year earlier. In February, gains were widespread among the components of materials. The output of durable materials moved up 0.4 percent; the production of consumer parts recorded a large increase, while the index for equipment parts also rose. The production of nondurable materials advanced 1.0 percent in February, retracing about half of its loss in January. Sizable increases in the indexes for paper materials and chemical materials in February more than offset a large decline in the index for textile materials. The output of energy materials edged up 0.1 percent and was 6.2 percent above its level of a year earlier.

Industry Groups

Manufacturing production recorded an increase of 0.8 percent in February after having decreased 0.9 percent in January. Much of the swing in the rates of change for production in January and February reflected the depressing effects on output of the severe weather in January and the subsequent return to more normal levels of production in February. The level of factory output in February was 1.5 percent above its year-earlier level. Capacity utilization for manufacturing moved up 0.5 percentage point in February to 76.4 percent, a rate

2.3 percentage points below its long-run average.

The production of durable goods rose 0.9 percent in February and was 2.7 percent above its year-earlier level. Large increases in February for several categories of durables more than offset large decreases in other categories. The biggest gain was in the output of motor vehicles and parts, which advanced 4.8 percent; the indexes for machinery and fabricated metal products each moved up around 1.5 percent. Smaller increases were recorded in the indexes for computer and electronic products, for aerospace and miscellaneous transportation equipment, and for miscellaneous goods. Production losses of about 1 percent or more were registered for wood products; nonmetallic mineral products; primary metals; electrical equipment, appliances, and components; and furniture and related products. Capacity utilization for durable goods manufacturing rose 0.5 percentage point to 76.6 percent, a rate 0.4 percentage point below its long-run average.

Nondurable manufacturing output rose 0.7 percent in February after having dropped 1.1 percent in January; production in February was 0.5 percent above its level of a year earlier. Increases of about 1 percent were recorded in the indexes for food, beverage, and tobacco products; paper; chemicals; and plastics and rubber products. Decreases of between 0.3 and 1.0 percent were recorded in the indexes for textile and product mills, for apparel and leather, for printing and support, and for petroleum and coal products. Capacity utilization for nondurable manufacturing moved up to 77.6 percent, a rate 3.1 percentage points below its long-run average.

The output of non-NAICS manufacturing industries (publishing and logging) increased 1.0 percent in February after having recorded declines of 1.0 percent or more in each of the previous four months.

Mining output moved up 0.3 percent in February to a level 6.1 percent higher than a year earlier. Capacity utilization at mines decreased 0.1 percentage point to 89.1 percent in February, but it remained 1.7 percentage points above its long-run average. Output at utilities edged down 0.2 percent but remained elevated because of the strong demand for heating due to the unusually cold weather. The operating rate for utilities declined 0.2 percentage point to 83.3 percent, a rate 2.7 percentage points below its long-run average.

Capacity utilization rates in February at industries grouped by stage of process were as follows: At the crude stage, utilization increased 0.1 percentage point to 86.9 percent, a rate 0.6 percentage point above its long-run average; at the primary and semifinished stages, utilization moved up 0.1 percentage point to 77.8 percent, a rate 3.1 percentage points below its long-run average; and at the finished stage, utilization rose 0.8 percentage point to 76.2 percent, a rate 0.9 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
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- 11. Historical Statistics: Total Industry
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- 13. Historical Statistics: Total Industry Excluding Selected High-Technology Industries
- 14. Historical Statistics: Manufacturing Excluding Selected High-Technology Industries

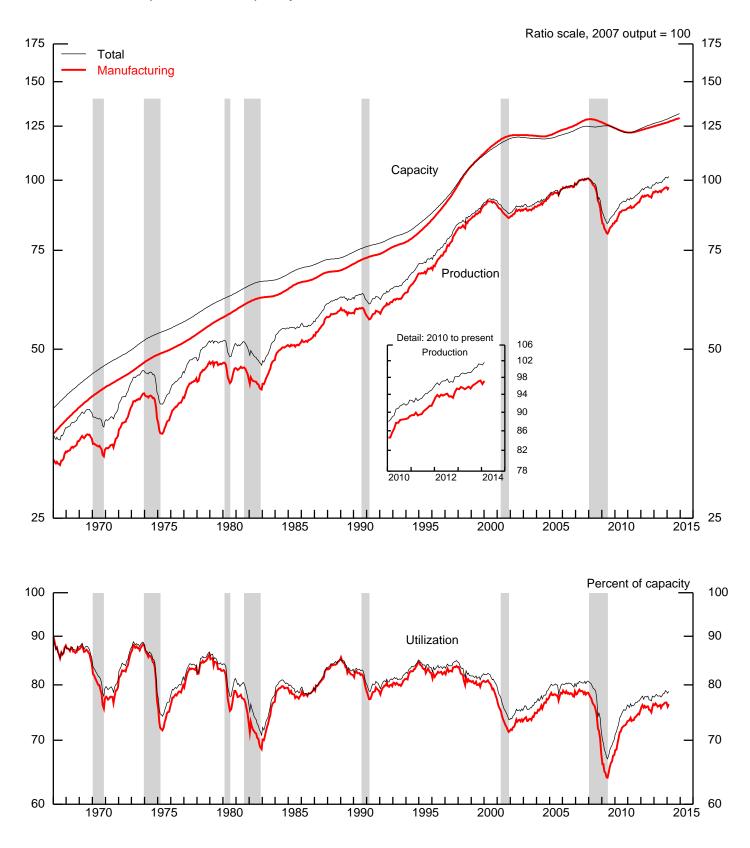
Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

Revision of Industrial Production and Capacity Utilization

The Federal Reserve Board plans to issue its annual revision to the index of industrial production (IP) and the related measures of capacity utilization at noon on March 28, 2014. The revised indexes for IP will incorporate data from the U.S. Geological Survey regarding metallic and nonmetallic minerals (except fuels) for 2012. The update will also include 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 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 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.

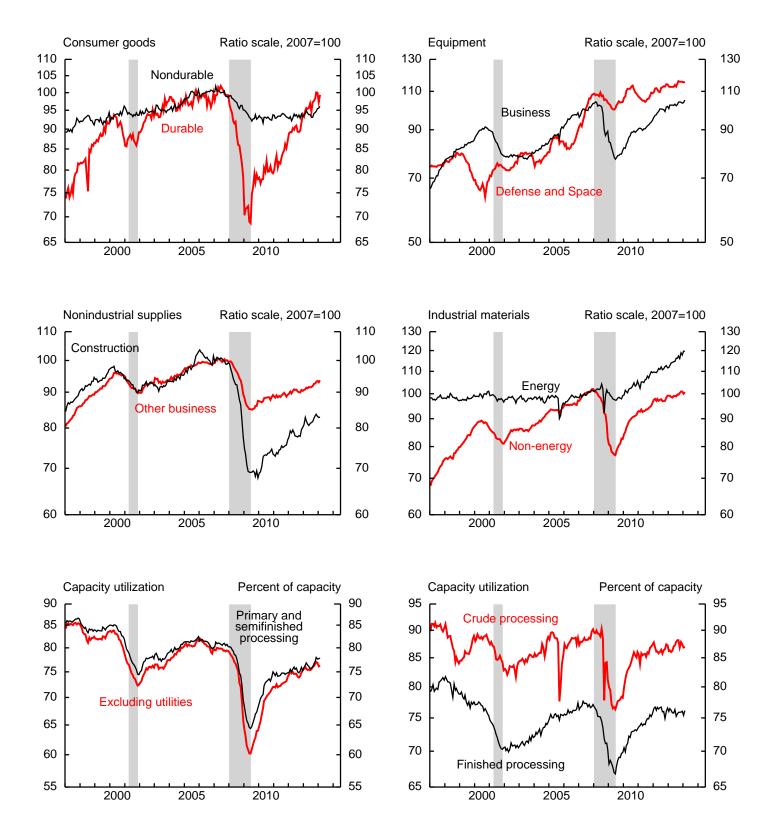
Once the revision is published, it will be available on the Board's website at www.federalreserve.gov/releases/G17.



1. Industrial production, capacity, and utilization

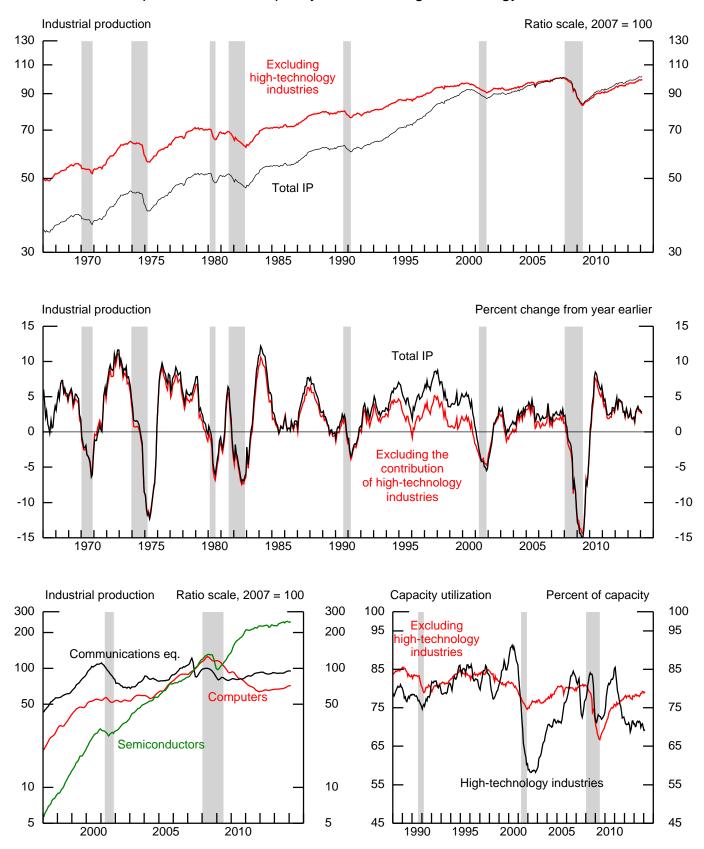
Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

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

ercent change, seasonally adjusted			1	rth quart		A	nuol	0			Month	ly rot-			Feb. '13
Item		2013	fot	irth quai	ter	2013	inual rat	e	2013		Month	ly rate	2014		to
item		proportion ¹	2011	2012	2013	Q2	Q3 ^r	Q4 ^r	Sept. ^r	Oct.r	Nov. ^r	Dec. ^r	Jan. ^r	Feb. ^p	Feb. '14
Total IP		100.00	3.3	2.8	3.3	1.2	2.5	5.5	.6	.2	.8	.0	2	.6	2.8
MARKET GROUPS Final products and nonindustrial supplie	20	53.22	2.4	2.6	3.2	.7	.9	6.1	1.0	.3	.4	.2	3	.8	2.5
Consumer goods	65	27.01	2.4	1.4	3.1	.7	-1.2	7.6	1.0	.3	.4	.6	5	.8	2.5
Durable		5.95	7.9	6.4	8.4	5.9	2.2	12.8	.4	.4	1.7	1	-2.7	2.1	4.6
Automotive products		3.05	14.7	7.1	10.6	11.5	3	17.8	1.0	.3	2.4	.1	-5.1	4.6	6.9
Home electronics		.13	5.7	-1.8	.6	4.6	-18.1	16.9	-1.6	3.5	1.8	1.3	1.2	0	2.5
Appliances, furniture, carpeting		.78	1.1	3.3	7.0	3.0	6.0	13.8	-1.5	2.8	.7	1.1	4	-1.7	4.9
Miscellaneous goods		1.99	1.1	7.3	6.2	-1.2	6.4	4.9	.3	.5	1.1	9	1	1	1.1
Nondurable		21.06	.4	.1	1.6	-1.1	-2.1	6.2	1.2	.3	.3	.8	.1	.5	2.0
Non-energy		15.76	1.0	1	.3	-2.6	-1.2	1.2	.3	3	1	.9	6	.9	1
Foods and tobacco		9.03	.7	2.3	.6	-5.2	-1.7	2.9	.5	1	2	1.2	7	1.0	-1.0
Clothing		.19	-8.0	-2.4	5.9	-7.3	10.6	7.6	1.9	.3	-1.3	1.9	6	7	1.2
Chemical products		4.76	3.1	-3.0	3	3.4	-3.0	-1.5	1	3	.2	.7	.1	.9	2.1
Paper products		1.27	-1.4	-8.1	-2.6	-6.1	5.8	-5.2	.4	-1.5	-1.0	3	-1.2	1.1	-2.7
Energy		5.30	-1.1	.7	5.7	3.5	-4.9	22.1	3.7	1.8	1.7	.2	2.3	8	8.4
<i></i>								-							
Business equipment		9.61	5.0	7.2	3.2	3.0	1.9	3.4	1.2	.2	3	4	.3	1.3	2.8
Transit		2.23	6.5	13.6	2.5	11.0	-2.8	4.7	1.5	6	.5	.0	-1.6	2.0	3.8
Information processing		2.03	1.4	7.8	3.8	1	3.7	7.5	1.4	.6	4	.4	1.0	1	3.5
Industrial and other		5.34	6.0	4.5	3.2	1.0	3.2	1.4	.9	.4	6	9	.8	1.6	2.1
Defense and space equipment		2.30	2	4.8	1.8	1.1	5.6	4.1	1.1	3	2	.1	3	.2	2.6
Construction supplies Business supplies		4.24 9.33	2.7	4.2 1.4	5.3 3.0	-4.6 1.9	4.8 2.6	7.4 4.9	1.1 .7	.9 .2	.5 .5	7 .3	3 5	.2 .7	.1 3.1
Materials		46.78	4.3	2.9	3.5	1.7	4.3	4.8	.2	.1	1.3	3	.0	.4	3.2
Non-energy		28.59	4.0	3.0	2.6	9	2.2	5.6	2	.8	.7	.0	-1.0	.7	1.4
Durable		17.32	7.5	3.9	4.2	7	4.1	9.1	.3	1.1	1.1	8	4	.4	2.5
Consumer parts		2.60	6.5	13.2	4.0	-6.3	.2	13.8	.7	.3	2.1	1	-1.4	1.1	1.6
Equipment parts		6.12	12.1	1.8	4.6	6.2	5.1	5.3	3	.8	.8	-1.0	.0	.7	4.1
Other		8.60	4.3	2.8	4.0	-3.8	4.6	10.6	.6	1.6	1.1	9	4	.0	1.7
Nondurable		11.27	9	1.7	.1	-1.1	6	.3	-1.0	.3	.0	1.4	-2.0	1.0	4
Textile		.41	-1.3	-1.1	4	-11.3	2.2	7.5	.2	.9	1.1	-1.0	-1.8	-1.8	-3.6
Paper		1.90	-1.3	-2.2	4	1	-3.1	-2.1	-1.6	1.0	-1.4	1.4	6	.9	9
Chemical		5.70	-1.6	3.7	.1	.8	1	.0	8	5	.2	1.9	-3.1	1.3	4
Energy		18.19	4.8	2.7	4.9	6.0	7.7	3.6	1.0	-1.0	2.4	9	1.6	.1	6.2
INDUSTRY GROUPS				•	•					_			0	0	
Manufacturing	21.22	74.77	3.3	2.8	2.8	.1	1.6	4.7	.2	.5	.4	.2	9	.8	1.5
Manufacturing (NAICS)	31–33	72.25	3.4	3.3	3.0	.2	1.4	5.2	.2	.6	.4	.2	8	.8	1.6
Durable manufacturing	221	38.11	6.3	5.3	4.7	1.5	3.2	7.8	.5	.8	.7	6	6	.9	2.7
Wood products	321	.92	1.2	7.1	8.0	-7.6	9.9	16.0	1.3	1.2	2.4	-2.1	-2.2	-1.2	-1.2
Nonmetallic mineral products	327	1.51	2	1.4	3.7	-1.4	5.2	1.1	.3	1	.7	-1.3	1.9	-1.3	.4
Primary metals	331	3.10	8.8	-2.6	3.3	-7.3	7.0	10.8	2	4.1	-1.1	-1.2	7	9	9
Fabricated metal products	332	5.72	6.3	5.8	5.2	-1.4	3.6	9.1	.4	.8	1.6	5	6	1.3	2.6
Machinery	333	5.71	8.4	2.9	4.0	.2	2.4	3.6	1.0	.3	.3	-2.2	2.4	1.5	3.0
Computer and electronic products Electrical equip., appliances,	334	5.74	7.2	5.6	4.8	6.6	4.6	6.2	0.	1.2	.1	3	.6	.3	5.2
and components	335	1.81	2.4	3.6	2.0	-3.2	4.2	6.8	4	.7	.8	.8	-1.6	-1.2	-1.4
Motor vehicles and parts	3361–3	4.65	11.7	13.8	7.1	-3.2	-1.9	16.5	4	6	2.9	.0 .0	-1.0	-1.2	-1.4
Aerospace and miscellaneous	5501-5	4.05	11./	15.0	/.1	1.1	1.)	10.5	1.5	0	2.)	.0	5.2	4.0	5.1
transportation equipment	3364–9	4.64	6.4	4.8	2.1	4.5	.0	3.3	.5	.4	2	1	.1	.6	2.2
Furniture and related products	337	1.05	1.8	4.8 3.3	2.1 8.4	4.3	.0 8.6	5.5 9.1	-1.5	2.6	2 .4	1 4	3	.0 -1.7	3.0
Miscellaneous	339	3.26	1	8.4	6.0	4.8	5.1	8.3	-1.5	2.0	.4	4	-2.4	-1.7	1.7
misemaneous	559	5.20	1	0.4	0.0	.0	5.1	0.5	1.0	.0	.0	.5	-2.4	.5	1./
Nondurable manufacturing		34.14	.5	1.0	1.2	-1.1	6	2.4	1	.3	.1	1.1	-1.1	.7	.5
Food, beverage, and tobacco products	311,2	10.98	.5	2.5	.8	-4.8	-1.3	3.2	.0	.3	.1	1.1	-1.1	1.0	.3 4
Textile and product mills	313,4	.67		5	.0 8	-4.8	2.9	4.7	.0	.5	1.1	5	-1.9	-1.0	4
Apparel and leather	315,4	.07	-5.3	-2.6	o 5.5	-6.2	10.8	4.7	1.7	.1 1	-1.4	5	-1.9	-1.0	-2.7
Apparei and leather Paper	313,6	2.34	-5.5	-2.0	-1.3	-0.2	-3.2	4.0 -4.6	-1.8	1	-1.4 -1.4	1.8 .4	9 1	7	-2.0
Printing and support	322	1.33	-3.3	-2.5	-1.5	1.3	-3.4	10.5	-1.0	2.1	-1.4	2.8	-1.6	3	-2.0
Petroleum and coal products	323	3.90	3.3	-1.7	2.2	-7.1	-3.4	2.0	-1.1	4	.0	.6	-1.0	6	-1.3
Chemicals	325	11.69	.3	-1.5	.7	3.2	-1.9	1.8	6	4	.0	1.5	-1.8	0	1.5
Plastics and rubber products	325	2.98		4.6	4.4	5.2	-1.9	4.1	0	.2	.3	.4	-1.8	1.0	4.3
Other manufacturing (non-NAICS)	1133,5111	2.53	3	-7.7	-3.1	-4.5	8.6	-8.5	1.5	-2.2	-1.6	-1.0	-1.3	1.0	-2.8
	,														
Mining Utilities	21 2211,2	15.37 9.87	-2.3	4.3	5.1 4.1	7.6	13.3 -6.4	.9 19.3	1.0 3.2	-1.6 1.0	1.9 2.9	5 9	.5 3.8	.3 2	6.1 8.3
Electric	2211,2	9.87 8.67	-2.5	3	4.1 3.6	.1	-6.4 -6.9	19.5	3.6	1.0	1.5	9	3.8 3.9	2	8.3 7.6
Natural gas	2211	1.20	-1.8	5 3.7	5.0 7.7	-2.6	-0.9	38.2	.9	3	13.4	0 -1.7	2.8	-2.9	13.0
matalal gas	2212	1.20	-5.7	5.7	1.1	-2.0	-2.9	30.2	.9	5	13.4	-1./	2.0	-2.9	15.0
			1			1			1						

r Revised. p Preliminary.

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

1. The proportion data are 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. $\frac{8}{8}$

Table 2 Industrial Production: Special Aggregates and Selected Detail Percent change, seasonally adjusted Fourth quarter to

ercent change, seasonally adjusted									_						
			1	rth quarte urth quar			nnual ra	te			Month	ly rate			Feb. '13
Item		2013 proportion	2011	2012	2013	2013 Q2	Q3 ^r	Q4 ^r	2013 Sept. ^r	Oct.r	Nov. ^r	Dec.r	2014 Jan. ^r	Feb. ^p	to Feb. '14
Total industry		100.00	3.3	2.8	3.3	1.2	2.5	5.5	.6	.2	.8	.0	2	.6	2.8
Energy		27.13	3.3	1.9	4.7	4.7	4.6	7.4	1.5	4	2.1	5	1.6	.0	6.5
Consumer products		5.30	-1.1	.7	5.7	3.5	-4.9	22.1	3.7	1.8	1.7	.2	2.3	8	8.4
Commercial products Oil and gas well drilling	213111	2.95	2	1.4 -7.6	3.8 -1.1	.7	3.3 7.7	8.6 -3.1	1.7	.0 -1.8	1.4 .3	.0 .7	1.2 5	.8 .0	5.9 .7
Converted fuel	213111	3.88	-1.3	-7.0	1.5	-7.0	-4.7	-5.1	3.9	-1.0	2.7	.2	2.0	.0 9	3.3
Primary energy		14.31	6.6	3.5	5.8	9.9	11.3	.9	.2	-1.1	2.3	-1.2	1.4	.3	7.1
Non-energy		72.87	3.3	3.1	2.8	1	1.7	4.8	.3	.4	.4	.1	9	.9	1.5
Selected high-technology industries	22.11	2.84	9.7	2.3	6.4	13.2	7.4	7.2	-1.0	1.9	1.0	8	2	.9	7.8
Computers and peripheral equipment Communications equipment	3341	.30	-18.4	3.6	5.8	2.2	3.8	14.3	1.1	1.1	1.5	1.5	.2	.1	6.7
Semiconductors and related	3342	.51	11.6	4	3.2	1	1.6	12.7	1.0	1.5	1.1	.6	.0	4	3.5
electronic components	334412–9	2.04	14.7	2.8	7.2	18.1	9.2	5.0	-1.7	2.1	.9	-1.4	4	1.4	8.9
Excluding selected high-technology industries		70.02	3.0	3.1	2.6	7	1.4	4.7	.4	.3	.4	.2	9	.9	1.2
Motor vehicles and parts	3361-3	4.65	11.7	13.8	7.1	7.7	-1.9	16.5	1.3	6	2.9	.0	-5.2	4.8	5.7
Motor vehicles	3361	2.25	17.2	13.3	10.9	16.1	-1.8	22.8	2.0	-1.1	3.5	.6	-8.5	7.4	8.5
Motor vehicle parts	3363	2.09	6.5	14.3	3.3	.2	-1.6	7.6	.2	6	2.2	3	-2.1	2.5	2.5
Excluding motor vehicles and parts Consumer goods		65.37 19.08	2.4 1.3	2.4 .8	2.3 1.2	-1.2	1.7 4	3.9 2.2	.3	.4 .1	.2 .0	.2 .7	6 5	.6 .7	.9 .3
Business equipment		8.37	5.9	.0 6.6	3.7	2.9	2.8	2.2	1.0	.1	.0 6	5	5	1.1	.3 2.7
Construction supplies		4.22	2.7	4.2	5.3	-4.6	4.8	7.4	1.1	.2	0	7	4	.2	.1
Business supplies		6.12	.4	1.3	2.4	1.8	2.0	3.1	.4	.1	.1	.6	-1.3	.6	1.4
Materials		25.27	2.9	2.1	2.1	-2.3	2.0	5.3	1	.8	.5	.2	-1.0	.4	.7
Measures excluding selected high-technology industries		07.16	2.1	2.0	2.2		2.2	5.4			0	0	2	í.	2.7
Total industry		97.16	3.1	2.8	3.2	.8	2.3	5.4	.7	.1	.8	.0	2	.6	2.7
Manufacturing ¹ Durable		71.92 35.41	3.0 5.9	2.9 5.6	2.7 4.6	5 .5	1.4 2.9	4.6 7.9	.3 .6	.4 .7	.3 .8	.2 6	9 7	.8 .9	1.2 2.3
Measures excluding motor vehicles and parts															
Total industry		95.35	3.0	2.3	3.1	.9	2.7	5.0	.6	.2	.7	.0	.1	.4	2.7
Manufacturing ¹ Durable		70.12 33.61	2.8 5.6	2.2 4.2	2.5 4.4	4 .7	1.9 4.0	4.0 6.6	.2 .4	.5 1.0	.2 .5	.2 7	6 .0	.5 .3	1.2 2.3
Measures excluding selected high-technology industries															
and motor vehicles and parts															
Total industry		92.51	2.7	2.2	3.0	.5	2.6	4.9	.7	.2	.7	.0	.1	.4	2.5
Manufacturing ¹		67.27	2.4	2.2	2.4	-1.0	1.6	3.9	.2	.5	.1	.2	6	.5	.9
Stage-of-process components of non-energy materials, measures of the input to															
Finished processors		11.04	7.8	3.4	3.5	1.4	2.4	6.0	3	.7	.7	4	5	.8	2.3
Primary and semifinished processors		17.55	1.6	2.8	2.1	-2.3	2.1	5.4	2	.8	.6	.3	-1.4	.6	.8

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

	2013	2013				2013				2014	
Item	average	Q1	Q2	Q3	Q4	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
Total	11.05	10.71	11.09	10.86	11.41	11.37	11.15	11.50	11.58	10.62	11.41
Autos	4.35	4.37	4.43	4.15	4.41	4.43	4.29	4.45	4.50	4.19	4.28
Trucks	6.70	6.34	6.66	6.71	7.00	6.94	6.87	7.05	7.08	6.42	7.13
Light	6.44	6.11	6.40	6.44	6.75	6.68	6.61	6.81	6.83	6.17	6.86
Medium and heavy	.25	.23	.26	.27	.25	.26	.25	.25	.25	.26	.27
Memo											
Autos and light trucks	10.79	10.48	10.83	10.59	11.16	11.11	10.90	11.25	11.33	10.36	11.14

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

Table 4 INDUSTRIAL PRODUCTION INDEXES: MARKET AND INDUSTRY GROUP SUMMARY 2007 = 100, seasonally adjusted

007 = 100, seasonally adjusted											
Item		2013 proportion	2013 June	July	Aug.	Sept. ^r	Oct.r	Nov. ^r	Dec. ^r	2014 Jan. ^r	Feb. ^p
Total IP		100.00	99.2	99.0	99.6	100.2	100.4	101.2	101.2	101.0	101.6
MARKET GROUPS											
Final products and nonindustrial supplies		53.22	94.6	93.9	94.5	95.4	95.7	96.1	96.3	95.9	96.7
Consumer goods		27.01	94.3	93.2	93.7	94.7	95.0	95.6	96.2	95.7	96.5
Durable		5.95	96.9	94.7	97.2	97.6	98.4	100.1	100.0	97.3	99.3
Automotive products		3.05	110.5	105.3	110.4	111.5	111.8	114.5	114.5	108.7	113.7
Home electronics		.13	62.0	58.8	58.8	57.8	59.8	60.9	61.7	62.4	62.9
Appliances, furniture, carpeting		.78	69.9	70.0	71.3	70.2	72.2	72.7	73.6	73.3	72.1
Miscellaneous goods		1.99	93.5	94.2	94.1	94.4	95.0	96.0	95.2	95.1	95.0
Nondurable Non-energy		21.06 15.76	93.9 91.9	93.2 90.7	93.1 91.0	94.2 91.3	94.5 91.1	94.8 91.0	95.5 91.8	95.6 91.3	96.1 92.1
Foods and tobacco		9.03	91.9	90.7	91.0	91.5	91.1	91.0	100.0	91.3	100.2
Clothing		.19	58.7	58.4	59.4	60.6	60.7	59.9	61.0	60.7	60.3
Chemical products		4.76	85.2	84.8	84.0	83.9	83.6	83.8	84.3	84.4	85.2
Paper products		1.27	72.3	72.9	74.5	74.8	73.7	72.9	72.7	71.8	72.6
Energy		5.30	100.8	101.5	100.2	104.0	105.9	107.6	107.9	110.3	109.4
Business equipment		9.61	102.9	102.1	102.8	103.9	104.2	103.9	103.4	103.8	105.2
Transit		2.23	105.9	103.2	104.5	106.1	105.5	106.0	106.0	104.3	106.4
Information processing		2.03	100.2	100.2	101.4	102.9	103.5	103.1	103.5	104.5	104.4
Industrial and other		5.34	101.9	101.7	101.8	102.7	103.1	102.5	101.6	102.4	104.1
Defense and space equipment		2.30	113.7	112.7	114.8	116.1	115.8	115.6	115.7	115.3	115.6
Construction supplies		4.24	81.1	81.5	81.7	82.6	83.3	83.7	83.1	82.8	82.9
Business supplies		9.33	91.5	91.6	91.9	92.5	92.7	93.2	93.5	93.0	93.7
Materials		46.78	105.0	105.5	106.1	106.3	106.4	107.8	107.4	107.4	107.9
Non-energy		28.59	99.1	98.9	99.8	99.6	100.3	101.0	101.0	100.0	100.7
Durable		17.32	105.9	105.8	107.1	107.4	108.6	109.8	108.9	108.4	108.9
Consumer parts		2.60	95.7	93.6	97.0	97.7	97.9	100.0	99.9	98.5	99.6
Equipment parts		6.12 8.60	133.3	132.9	134.8 92.3	134.4 92.8	135.6	136.6	135.2	135.2	136.2 94.1
Other Nondurable		11.27	91.4 89.7	91.9 89.6	92.5 89.8	92.8 88.9	94.3 89.1	95.3 89.1	94.4 90.3	94.0 88.5	94.1 89.4
Textile		.41	76.7	75.7	76.6	76.7	77.4	78.3	77.4	76.0	74.7
Paper		1.90	83.5	83.1	83.2	81.8	82.7	81.5	82.6	82.1	82.8
Chemical		5.70	89.9	89.6	90.2	89.4	89.0	89.2	90.9	88.1	89.3
Energy		18.19	114.7	116.1	116.2	117.3	116.1	118.9	117.8	119.7	119.7
INDUSTRY GROUPS											
Manufacturing		74.77	95.8	95.3	96.0	96.3	96.7	97.1	97.2	96.4	97.2
Manufacturing (NAICS)	31–33	72.25	97.3	96.7	97.4	97.6	98.2	98.6	98.8	97.9	98.7
Durable manufacturing	221	38.11	103.2	102.6	103.9	104.4	105.3	106.1	105.4	104.8	105.7
Wood products Nonmetallic mineral products	321 327	.92 1.51	75.9 73.4	75.3 73.3	77.2 73.6	78.2 73.8	79.1 73.8	81.0 74.3	79.3 73.3	77.5 74.7	76.6 73.7
Primary metals	331	3.10	95.6	99.1	98.7	98.5	102.5	101.3	100.1	99.4	98.5
Fabricated metal products	332	5.72	94.5	94.5	95.2	95.6	96.4	97.9	97.4	96.8	98.0
Machinery	333	5.71	104.1	102.7	104.0	105.0	105.4	105.7	103.4	105.8	107.4
Computer and electronic products	334	5.74	135.4	135.9	137.3	137.3	138.9	139.1	138.6	139.5	140.0
Electrical equip., appliances,											
and components	335	1.81	87.1	87.0	87.9	87.6	88.2	89.0	89.7	88.2	87.1
Motor vehicles and parts	3361–3	4.65	107.0	101.4	106.7	108.1	107.4	110.6	110.6	104.8	109.9
Aerospace and miscellaneous transportation equipment	3364–9	4.64	105.2	104.1	105.1	105.5	105.9	105.7	105.6	105.7	106.3
Furniture and related products	3364-9	4.64	71.8	73.0	74.1	73.0	74.9	75.2	74.9	74.6	73.3
Miscellaneous	339	3.26	110.7	110.3	110.6	111.7	112.3	113.2	113.8	111.1	111.4
Nondurable manufacturing		34.14	01.1	90.7	90.8	90.7	90.9	90.9	02.0	01.0	01 4
Nondurable manufacturing Food, beverage, and tobacco products	311,2	10.98	91.1 101.1	90.7 99.7	90.8	100.0	100.3	100.3	92.0 101.5	91.0 100.7	91.6 101.7
Textile and product mills	311,2	.67	73.0	72.4	73.1	73.2	73.3	74.2	73.8	72.4	71.6
Apparel and leather	315,6	.25	58.1	57.9	58.6	59.6	59.6	58.8	59.8	59.3	58.9
Paper	322	2.34	85.2	85.3	85.3	83.7	84.4	83.3	83.7	83.6	84.3
Printing and support	323	1.33	76.6	76.0	76.2	75.3	76.9	77.1	79.2	78.0	77.7
Petroleum and coal products	324	3.90	95.8	96.9	96.8	97.8	97.4	97.5	98.1	97.6	97.0
Chemicals Plastics and rubber products	325 326	11.69 2.98	87.7 90.9	87.4 91.1	87.4 90.5	86.9 91.4	87.0 91.6	87.2 91.9	88.5 92.3	87.0 91.6	87.9 92.5
*	320				90.5			91.9	92.3	91.0	
Other manufacturing (non-NAICS)	1133,5111	2.52	67.0	67.9	68.7	69.8	68.2	67.1	66.5	65.6	66.3
Mining	21	15.37	118.9	120.7	121.3	122.5	120.5	122.7	122.1	122.8	123.2
Utilities	2211,2	9.87	98.3	98.2	97.2	100.3	101.4	104.3	103.4	107.2	107.0
	2211	8.67	98.1	97.6	96.5	99.9	101.1	102.7	101.8	105.8	106.0
Electric Natural gas	2211 2212	1.20	98.6	101.9	101.4	102.3	101.1	115.7	113.7	116.8	113.4

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

Table 5 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES 2007 = 100, seasonally adjusted

007 = 100, seasonally adjusted		2013	2013							2014	
Item		proportion	June	July	Aug.	Sept. ^r	Oct.r	Nov. ^r	Dec. ^r	Jan. ^r	Feb. ^p
Total industry		100.00	99.2	99.0	99.6	100.2	100.4	101.2	101.2	101.0	101.6
Energy		27.13	109.6	110.9	110.7	112.4	112.0	114.3	113.7	115.5	115.5
Consumer products		5.30	100.8	101.5	100.2	104.0	105.9	107.6	107.9	110.3	109.4
Commercial products		2.95	100.3	101.5	100.2	104.0	103.7	107.0	107.5	106.9	107.4
Oil and gas well drilling	213111	.70	96.8	97.4	98.5	99.0	97.1	97.4	98.0	97.5	97.6
Converted fuel	215111	3.88	95.4	94.7	94.1	97.8	97.0	99.6	99.8	101.8	100.9
Primary energy		14.31	121.1	123.3	123.6	123.8	122.5	125.3	123.8	125.6	126.0
Non-energy		72.87	95.7	95.1	95.8	96.1	96.5	96.9	97.0	96.2	97.0
		2.94	150.0	161.0	162.4	160.0	162.0	165.5	164.2	162.0	165.2
Selected high-technology industries	3341	2.84 .30	159.8 67.5	161.8	162.4 67.7	160.9	163.9 69.2	165.5 70.2	164.2 71.2	163.8 71.4	165.3 71.5
Computers and peripheral equipment			1	67.6		68.4					
Communications equipment Semiconductors and related	3342	.51	91.3	91.3	91.2	92.1	93.4	94.5	95.0	95.0	94.6
electronic components	334412–9	2.04	240.3	244.4	245.7	241.5	246.6	248.7	245.2	244.3	247.6
Excluding selected high-technology											
industries		70.02	92.8	92.2	92.9	93.2	93.6	93.9	94.1	93.2	94.1
Motor vehicles and parts	3361-3	4.65	107.0	101.4	106.7	108.1	107.4	110.6	110.6	104.8	109.9
Motor vehicles	3361	2.25	112.0	103.3	111.5	113.8	112.5	116.4	117.1	107.1	115.1
Motor vehicle parts	3363	2.09	105.3	102.9	105.9	106.1	105.4	107.8	107.4	105.1	107.7
Excluding motor vehicles and parts		65.37	91.9	91.5	92.0	92.3	92.6	92.8	93.0	92.5	93.0
Consumer goods		19.08	90.5	89.7	89.9	90.1	90.2	90.2	90.8	90.4	91.0
Business equipment		8.37	105.0	104.7	105.2	106.3	106.5	105.9	105.4	106.3	107.4
Construction supplies		4.22	81.0	81.3	81.6	82.5	83.2	83.6	83.0	82.7	82.8
Business supplies Materials		6.12 25.27	84.6 91.8	84.2 91.7	84.5 92.3	84.8 92.2	84.9 92.9	85.0 93.4	85.5 93.5	84.4 92.6	84.9 93.0
Measures excluding selected high-technology											
industries		97.16	97.2	97.0	97.5	98.2	98.3	99.1	99.1	98.9	99.5
Fotal industry Manufacturing ¹		97.16	97.2	97.0	97.5	98.2	98.3	99.1 94.1	99.1 94.3	98.9	99.5 94.2
Durable		35.41	93.0	92.5 96.9	93.2 98.3	93.5 98.9	93.8 99.6	94.1 100.4	94.3 99.8	93.5 99.1	94.2 100.0
Measures excluding motor vehicles and parts		35.41	97.7	90.9	98.5	98.9	99.0	100.4	99.8	99.1	100.0
Fotal industry		95.35	98.8	98.9	99.2	99.8	100.0	100.8	100.7	100.8	101.2
Manufacturing ¹		70.12	95.1	94.9	95.4	95.5	96.0	96.2	96.4	95.8	96.3
Durable		33.61	102.5	102.5	103.4	103.8	104.8	105.3	104.6	104.6	104.9
Measures excluding selected high-technology		55.01	102.5	102.5	105.4	105.0	104.0	105.5	104.0	104.0	104.)
industries and motor vehicles and parts Total industry		92.51	96.7	96.7	97.0	97.7	97.8	98.6	98.5	98.6	99.0
Manufacturing ¹		67.27	90.7	90.7	97.0	97.7	97.8	93.1	93.3	98.0	99.0
Stage-of-process components of non-energy materials, measures of the input to											
Finished processors		11.04	111.0	110.1	112.0	111.7	112.6	113.4	112.9	112.4	113.
Primary and semifinished processors		17.55	91.7	92.0	92.3	92.1	92.9	93.4	93.7	92.4	93.0

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

Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION Percent

Percent												
Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2012	62.2	64.4	46.8	63.8	54.2	58.3	52.2	43.6	53.2	48.4	71.2	61.9
2013	52.9	60.4	45.5	47.8	53.5	61.9	47.3	59.0	56.1	54.8	60.3	55.4
2014	42.0											
Three months earlier												
2012	66.7	74.0	61.9	58.7	51.0	61.9	54.5	51.3	47.4	42.3	62.5	63.8
2013	66.3	64.4	53.5	50.3	47.8	57.1	52.6	57.1	54.5	59.9	62.2	62.8
2014	52.6											
Six months earlier												
2012	71.5	71.5	65.7	65.4	64.4	60.3	58.7	53.8	59.0	51.9	55.1	59.9
2013	57.1	67.0	62.5	63.1	54.2	57.1	55.8	51.9	55.8	65.4	65.1	59.6
2014	66.0											

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.

	2012			2000	2012			2012				2014	
						O3r	$O4^{r}$		Oct r	Nov ^r	Dec ^r		Feb. ¹
			0										
	100.00	80.1	85.0	66.9	77.9	78.0	/8.7	78.4	78.4	78.9	/8.8	78.5	78.
	76.89	78.7	84.6	64.0	76.1	76.1	76.6	76.3	76.5	76.7	76.7	75.9	76.4
31–33	73.65	78.5	84.7	63.7	76.8	76.7	77.3	76.9	77.2	77.4	77.4	76.6	77.
	39.27	77.0	83.7	58.4	76.1	76.2	77.1	76.6	77.0	77.5	76.8	76.1	76.
													68.
													60.
													75.
													87.
					1								82.
334	6.35	/8.0	84.2	70.2	/3.9	/3.1	12.1	72.9	13.2	72.8	/2.1	/2.1	71.
225	1.74	92.5	02.6	(())	00.0	01.1	00.1	01.1	01.6	02.1	00.7	01.0	80.
													80.
3301-3	4.87	75.0	87.8	35.0	/5.4	/4.8	//.4	/0.0	/0.0	/8.1	/8.0	13.8	//.
2264 0	4.02	72.0	60.1	71.0	72.4	72.0	72.0	72.0	72.2	72.0	72.0	707	72
													73. 75.
339	3.28	76.0	80.5	08.2	//.8	//.9	/8.0	/8.2	/8.3	/8./	/8./	/0.5	76.
	34.37	80.7	86.0	69.3	77.5	77.2	77.5	77.1	77.3	77.2	78.0	77.1	77.
311,2	10.65	81.0	85.5	75.2	80.2	79.7	80.1	79.7	79.9	79.8	80.7	80.0	80.
313,4	.74	79.7	91.7	53.7	69.8	71.0	72.5	71.5	71.8	72.9	72.8	71.5	71.
315,6	.27	77.5	87.5	57.5	70.0	72.7	74.5	74.2	74.4	73.7	75.4	74.9	74.
322	2.24	86.7	92.6	72.6	82.5	82.1	81.3	81.1	81.9	80.8	81.2	81.2	82.
323	1.55	80.7	85.1	60.5	67.8	67.7	69.9	67.4	69.0	69.3	71.4	70.3	70.
324	3.66	85.6	91.0	76.3	83.3	83.6	83.5	84.0	83.5	83.4	83.7	83.2	82.
325	12.16	77.6	81.9	65.1	75.0	74.4	74.5	74.0	74.1	74.2	75.2	73.8	74.
326	3.11	82.0	93.2	59.1	74.7	74.6	74.8	74.8	74.7	74.8	74.9	74.2	74.
1133,5111	3.24	81.7	83.2	69.5	60.2	61.8	60.8	62.8	61.5	60.6	60.1	59.3	60.0
21	13.31	87.4	88.6	78.3	88.2	90.0	89.2	90.4	88.6	89.9	89.1	89.2	89.
2211,2	9.80	86.0	93.3	78.6	78.4	77.0	80.3	78.3	79.1	81.3	80.5	83.5	83.
	3 40	77 9	86.2	71.2	71.3	70.9	70.4	70.0	70.7	70.9	69.8	69.1	69.
3341		78.0	87.7		69.2		74.2	71.6		74.2			76.
3342				77.3	77.9	77.8		78.0	79.0		79.9	79.8	79.
334412–9	2.53	79.7	92.1	62.8	70.2	69.5	68.1	68.1	68.8	68.7	67.0	66.2	66.
	96.60	80.3	84.9	66.7	78.2	78.3	79.0	78.7	78.7	79.3	79.1	78.8	79.
	73.49	78.7	84.5	63.5	76.3	76.4	77.0	76.7	76.9	77.1	77.1	76.3	76.9
		06.2	89.7	76.4	86.8	88.0	87.3	88.1	86.8	87.8	87.4	86.8	86.
	17.43	80.5	89.7	/0.4	00.0	00.0	07.5			0/.0	0/.4	00.0	
	17.43	86.3 80.9	89.7	64.4	76.0	76.1	77.6	76.6	77.2	78.0	77.6	77.7	77.8
	321 327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111 21 2211,2 3341 3342	31–33 73.65 39.27 .002 331 3.19 332 5.24 333 5.52 334 6.35 335 1.74 3361–3 4.87 3364–9 4.93 337 1.10 339 3.28 34.37 310.65 313,4 .74 315,6 .27 322 2.24 323 1.55 324 3.66 325 12.16 326 3.11 1133,5111 3.24 21 13.31 2211,2 9.80 3341 .34 3342 .53 334412–9 2.53	2013 proportion 2013 ave. 100.00 80.1 31-33 76.89 78.7 31-33 73.65 78.5 31-33 73.65 78.5 321 1.04 76.7 327 2.02 74.4 331 3.19 79.0 322 5.24 77.6 333 5.52 78.2 334 6.35 78.0 335 1.74 82.5 3361-3 4.87 75.0 3364-9 4.93 73.0 337 1.10 76.8 339 3.28 76.0 3314 .74 79.7 315.6 .27 77.5 322 2.24 86.7 313.4 .74 79.7 315.6 .27 77.5 322 2.24 86.7 325 12.16 77.6 325 12.16 77.6 326	proportion ave. high 100.00 80.1 85.0 76.89 78.7 84.6 31-33 73.65 78.5 84.7 39.27 77.0 83.7 321 1.04 76.7 86.5 327 2.02 74.4 82.7 331 3.19 79.0 94.1 332 5.24 77.6 85.4 333 5.52 78.2 87.6 334 6.35 78.0 84.2 335 1.74 82.5 92.6 3361-3 4.87 75.0 87.8 3364-9 4.93 73.0 69.1 337 1.10 76.8 82.5 339 3.28 76.0 80.5 31.3,4 .74 79.7 91.7 315.6 .27 77.5 87.5 322 2.24 86.7 92.6 313,4 .74 79.7 91.7<	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	2013 proportion 2013 ave. 95 high 2009 low 2013 Q2 Q3' Q4' 2013 Sept.' 100.00 80.1 85.0 66.9 77.9 78.0 78.7 78.4 31-33 73.65 78.5 84.7 63.7 76.8 76.7 77.3 76.9 39.27 77.0 83.7 58.4 76.1 76.2 77.1 76.6 321 1.04 76.7 86.5 49.4 68.1 69.6 72.2 70.8 331 3.19 79.0 94.1 48.8 73.6 75.1 77.7 74.9 332 5.24 77.6 85.4 61.5 84.5 85.2 87.0 85.6 333 5.52 78.0 87.6 59.4 81.0 81.1 81.8 81.8 81.8 81.8 81.8 81.8 81.8 81.8 83.4 6.35 75.4 74.8 77.4 76.6 3334 6.35 78.0	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	2013 2013 vec. high low Q2 Q3' Q4' Sept.' Oct.' Nov.' Dec.' Jan.' 100.00 80.1 85.0 66.9 77.9 78.0 78.7 78.4 78.4 78.4 78.9 78.8 78.5 31-33 73.65 78.7 84.6 64.0 76.1 76.6 76.3 76.5 76.7 77.9 77.4 77.6 88.3 59.4 59.7 59.8 60.3 59.7 60.9 67.7 77.9 78.3 76.0 77.1 76.4 75.7 77.4 76.4 75.7 77.1 77.5 77.6 78.1 78.3

Table 7 CAPACITY UTILIZATION Percent of capacity, seasonally adjusted

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

Table 8 INDUSTRIAL CAPACITY Percent change

	1	Average a	nnual rate		Fourth	quarter to	o fourth c	uarter		Annua	al rate		Monthly rate
Item	1972-	1980-	1989-	1995-		-		-	2013			2014	2014
	79	88	94	2014	2011	2012	2013	2014	Q2	Q3	Q4	Q1	Feb.
Total industry	3.1	1.9	2.3	2.3	1.3	2.2	1.8	2.3	1.7	1.8	1.9	2.2	.2
Manufacturing ¹	3.3	2.2	2.5	2.4	.6	1.6	1.6	1.9	1.5	1.6	1.6	1.8	.2
Mining	.7	.1	7	.9	4.6	4.7	4.4	5.5	4.2	4.4	4.8	5.3	.4
Utilities	4.2	2.1	1.8	1.9	2.0	1.9	.9	.7	.9	.7	.8	.7	.1
Selected high-technology industries	19.6	17.3	15.8	19.5	26.4	4.1	7.7	7.5	7.4	9.8	9.9	9.1	.8
Manufacturing ¹ ex. selected high-technology industries	2.6	1.3	1.6	1.0	5	1.5	1.2	1.6	1.2	1.1	1.2	1.5	.1
STAGE-OF-PROCESS GROUPS Crude	1.6	.4	5	.9	3.4	3.2	3.5	4.5	3.3	3.7	4.0	4.3	.4
Primary and semifinished	3.0	1.3	2.5	2.6	1.4	.7	.7	1.3	.6	.8	.9	1.2	.1
Finished	3.9	3.3	2.7	2.3	.4	3.3	2.5	2.5	2.5	2.3	2.3	2.4	.2

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

			2013			2013				2014	
Item	2009	2013	Q2	Q3 ^r	Q4 ^r	Sept. ^r	Oct.r	Nov. ^r	Dec. ^r	Jan. ^r	Feb. ^p
Final products and nonindustrial supplies	3,212.1	3,624.0	3,604.1	3,615.9	3,678.7	3,646.6	3,666.6	3,681.2	3,688.2	3,662.1	3,695.3
Final products	2,410.8	2,746.0	2,734.3	2,736.5	2,786.7	2,760.1	2,779.3	2,787.0	2,793.8	2,773.0	2,801.6
Consumer goods	1,811.6	1,979.7	1,971.1	1,969.8	2,013.4	1,985.6	2,004.5	2,013.2	2,022.5	2,003.0	2,020.8
Durable	381.8	523.4	519.1	521.0	540.0	529.9	532.4	543.7	544.0	523.2	539.1
Automotive products	225.1	347.7	345.2	345.0	360.7	354.0	354.1	363.7	364.4	343.7	360.9
Other durable goods	156.7	175.8	173.9	176.1	179.5	176.1	178.4	180.2	179.8	179.3	178.5
Nondurable	1,429.8	1,469.9	1,465.0	1,462.3	1,488.6	1,470.2	1,486.3	1,485.5	1,494.1	1,492.1	1,496.4
Equipment, total	599.3	773.5	770.4	774.4	779.9	782.5	781.9	780.4	777.3	776.7	787.9
Business and defense	583.1	749.6	746.8	750.2	755.7	758.0	757.8	756.2	753.0	752.4	763.8
Business	477.1	632.4	630.7	632.8	637.1	639.0	639.1	637.8	634.3	634.2	645.5
Defense and space	106.0	117.7	116.7	117.9	119.1	119.4	119.2	119.0	119.1	118.7	118.9
Nonindustrial supplies	801.3	877.6	869.4	879.1	891.7	886.1	887.0	894.0	894.1	888.7	893.3
Construction supplies	221.8	262.1	258.7	261.6	265.5	263.2	265.9	267.2	263.5	263.4	263.7
Business supplies	579.5	616.3	611.4	618.2	626.8	623.6	621.8	627.5	631.2	625.9	630.3
Commercial energy products	233.3	241.6	238.0	242.4	247.2	246.9	244.3	247.7	249.5	249.2	250.8

r Revised. p Preliminary.

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

Percent change, seasonally adjusted

		Fou	rth quarte	er to										
		fo	urth quar	ter	A	nnual r	ate			Month	ly rate			Feb. '13
Item	2013				2013			2013				2014		to
	gross value1	2011	2012	2013	Q2	Q3 ^r	Q4 ^r	Sept. ^r	Oct.r	Nov. ^r	Dec. ^r	Jan. ^r	Feb. ^p	Feb. '14
Finished	2,192.6	4.7	4.4	3.3	2.3	.3	5.1	.5	.3	.2	.4	-1.1	1.5	2.3
Semifinished	1,897.2	2.9	3.2	3.0	-1.2	6	7.3	.9	.5	.8	1	.1	.7	2.3
Primary	1,416.7	1.4	.0	3.9	-1.0	3.4	9.1	.9	.9	1.3	.0	1	7	2.5
Crude	674.0	3.0	1.8	3.1	5.5	7.3	1.6	1	5	.8	.2	-1.4	.6	3.0

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

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr	May	June	Inte	Ang	Sont	Oct	Nov.	Dec.	01	02	03	Q4	Appual
rear	Jan.	Feb.	war.	Apr.	May	June	July	Aug.	Sept.	Oct.	NOV.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ¹		0	0	-		0	0	-	2	0		0			2.0	1.2	2.0
1992	6	.8	.8	.7	.4	.0	.9 .3	5	.2	.8 .7	.4	.0	5	7.2	2.9	4.3	2.8
1993 1994	.5 .4	.4 .1	.0 1.0	.3 .5	4 .5	.2 .7	.3	.0 .6	.5 .3	.7 .9	.4 .6	.5 1.0	3.6 5.1	.9 7.5	1.9 5.2	6.1 8.5	3.3 5.3
1995	.4	1	.2	.0	.3	.4	4	1.3	.3	2	.0	.4	4.5	1.4	3.8	3.3	4.7
1996	7	1.6	2	.8	.7	.9	1	.7	.5	.0	.8	.6	2.8	8.4	5.3	5.5	4.4
1005			0	0	_	_				_						10.1	
1997 1998	.1 .5	1.2 .1	.8	.0 .4	.7 .7	.5 6	.6 4	1.3 2.1	.9 3	.7	.9 1	.4 .4	7.8 4.5	6.5 2.9	9.7 2.9	10.1 5.5	7.2 5.8
1998	.5	.1	.1	.4	.7	0	4	.4	3	1.3	1	.4	4.1	3.9	4.0	7.6	4.3
2000	.1	.4	.4	.6	.2	.1	2	3	.5	4	.0	3	4.7	4.6	6	-1.3	4.0
2001	7	6	3	3	7	7	4	3	3	5	5	.0	-5.6	-5.3	-5.5	-4.5	-3.4
2002	.6	.0	.7	.4	.5	1.0	3	.1	.1	3	.5	5	2.7	6.5	2.4	2	.2
2003	.7	.4	2	8	.0	.0	.4	1	.6	.0	.8	1	3.1	-3.3	1.9	3.3	1.2
2004	.3	.6	5	.4	.7	8	.8	.2	.0	1.0	.2	.7	2.8	1.8	2.5	5.7	2.3
2005	.4	.6	1	.1	.2	.4	1	.1	-2.0	1.2	1.0	.6	5.4	2.1	-1.5	3.2	3.2
2006	.1	.1	.3	.4	1	.4	.0	.2	1	1	1	1.0	3.8	2.6	1.5	.6	2.2
2007	5	1.1	.1	.7	.1	.0	.0	.1	.4	5	.6	.0	3.8	4.8	1.1	1.0	2.5
2008	3	2	3	8	5	2	5	-1.6	-4.2	.8	-1.2	-2.8	-1.4	-5.5	-12.1	-15.9	-3.4
2009 2010	-2.2 1.1	6 .4	-1.5 .8	8 .3	-1.0 1.6	4 .2	.9 .6	1.1	.7 .3	.3 3	.5 .3	.5 1.0	-19.8 8.5	-10.9 8.7	4.9 6.2	6.6 1.7	-11.3 5.7
2010	1	5	1.0	6	.4	.2	.6	.5	.1	.6	.2	.6	2.6	1.0	5.0	4.7	3.4
	_	_	_	_													
2012 2013	.7	.5 .7	5 .3	.7 3	.3 .2	.0	.4 2	8	.2	1 .2	1.3 .8	0. 0.	5.4 4.1	2.9 1.2	.3 2.5	2.5 5.5	3.6 2.6
2013	2	.7	.5	5	.∠	.2	2	.0	.0	.2	.0	.0	4.1	1.2	2.3	5.5	2.0
IP (2007=100) 2012	06.2	067	061	06.0	97.1	97.1	076	06.9	07.0	06.9	98.1	08.2	96.3	07.0	07.1	077	07.0
2012 2013	96.2 98.2	96.7 98.8	96.1 99.1	96.9 98.8	97.1 99.0	97.1	97.6 99.0	96.8 99.6	97.0 100.2	96.8 100.4	98.1	98.2 101.2	96.3	97.0 99.0	97.1 99.6	97.7 100.9	97.0 99.6
2013	101.0	101.6	<i>))</i> .1	70.0	<i>))</i> .0	<i>)).</i> 2	<i>))</i> .0	<i>))</i> .0	100.2	100.4	101.2	101.2	20.7	<i>))</i> .0	<i>))</i> .0	100.9	· · · · ·
Capacity (percent of 2007 output)																	
2012 2013	123.9 126.4	124.1 126.5	124.3 126.7	124.6 126.9	124.8 127.1	125.0 127.3	125.2 127.4	125.4 127.6	125.6 127.8	125.8 128.0	126.0 128.3	126.2 128.5	124.1 126.5	124.8 127.1	125.4 127.6	126.0 128.3	125.1 127.4
2013	120.4	120.5	120.7	120.9	127.1	127.5	127.4	127.0	127.0	128.0	120.5	120.3	120.5	127.1	127.0	120.5	127.4
Utilization																	
(percent) 1992	79.3	79.8	80.3	80.7	80.8	80.6	81.2	80.6	80.6	81.0	81.2	81.0	79.8	80.7	80.8	81.1	80.6
1993	81.3	81.5	81.3	81.4	81.0	81.1	81.2	81.1	81.4	81.8	82.0	82.3	81.3	81.2	81.2	82.0	81.4
1994	82.4	82.3	82.9	83.2	83.4	83.7	83.6	83.8	83.7	84.2	84.4	85.0	82.6	83.4	83.7	84.5	83.6
1995	84.9	84.5	84.4	84.0	83.9	83.9	83.3	84.1	84.1	83.6	83.5	83.4	84.6	84.0	83.8	83.5	84.0
1996	82.5	83.5	83.0	83.3	83.5	83.9	83.4	83.6	83.6	83.2	83.5	83.6	83.0	83.6	83.5	83.5	83.4
1997	83.3	83.9	84.1	83.7	83.9	83.8	83.8	84.4	84.6	84.6	84.8	84.6	83.8	83.8	84.3	84.7	84.1
1998	84.4	84.0	83.5	83.3	83.3	82.3	81.5	82.8	82.1	82.3	81.9	81.8	84.0	82.9	82.1	82.0	82.8
1999	81.8	81.8	81.6	81.5	81.8	81.3	81.5	81.6	81.0	81.8	81.9	82.2	81.7	81.5	81.4	82.0	81.6
2000 2001	82.0 79.0	82.0 78.3	82.1 77.9	82.3 77.5	82.2 76.7	81.9 76.0	81.5 75.5	81.0 75.1	81.2 74.7	80.6 74.2	80.3 73.6	79.8 73.5	82.0 78.4	82.1 76.7	81.2 75.1	80.2 73.8	81.4 76.0
2001	79.0		11.9	11.5	/0./	70.0	15.5	75.1	,,	/ 1.2	75.0	15.5	70.1	/0./	75.1	75.0	70.0
2002	73.9	73.7	74.2	74.4	74.8	75.5	75.2	75.3	75.3	75.1	75.5	75.2	73.9	74.9	75.3	75.3	74.8
2003 2004	75.8 77.0	76.1 77.4	76.0 77.0	75.4 77.4	75.4 77.9	75.5 77.3	75.8 77.9	75.7 78.1	76.2 78.1	76.2 78.8	76.8 78.9	76.7 79.4	76.0 77.1	75.4 77.5	75.9 78.0	76.5 79.1	76.0 77.9
2004 2005	79.7	80.1	80.0	80.0	80.0	80.2	80.0	/8.1 80.0	78.1	78.8	78.9	80.2	79.9	80.1	78.0	79.1	77.9
2005	80.2	80.1	80.2	80.4	80.2	80.4	80.3	80.3	80.1	79.9	79.6	80.2	80.2	80.3	80.3	79.9	80.2
2007	70.7	00-4	00.0	00.7	00.0	00 5	00.4	00.4	00.7	00.0	00.7	00.0	00.1	00-6	00 5	00-6	00.5
2007 2008	79.7 80.5	80.4 80.4	80.3 80.2	80.7 79.6	80.6 79.3	80.5 79.2	80.4 78.8	80.4 77.5	80.7 74.2	80.3 74.8	80.7 73.9	80.8 71.7	80.1 80.4	80.6 79.4	80.5 76.8	80.6 73.5	80.5 77.5
2008	70.0	69.6	68.5	67.9	67.2	66.9	67.6	68.3	68.9	69.2	69.7	70.1	69.4	67.3	68.3	69.7	68.7
2010	71.0	71.5	72.2	72.6	73.9	74.2	74.8	75.1	75.4	75.2	75.5	76.2	71.6	73.6	75.1	75.6	74.0
2011	76.1	75.7	76.5	76.0	76.1	76.2	76.5	76.8	76.7	77.0	77.0	77.3	76.1	76.1	76.7	77.1	76.5
2012	77.7	77.9	77.3	77.7	77.8	77.7	77.9	77.2	77.2	77.0	77.9	77.8	77.6	77.7	77.4	77.5	77.6
2012	77.7	78.1	78.2	77.9	77.9	77.9	77.7	78.0	78.4	78.4	78.9	78.8	78.0	77.9	78.0	78.7	78.1
2014	78.5	78.8															
1 Quarterly changes						c											

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

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

Seasonally adjusted	Ion	Eab	Mor	4.00	Mou	Iuno	Inter	4.11.0	Cont	Oat	Nou	Daa	01	- 02	02	04	Annual
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
$change)^2$	6	.9	1.0	5	6	2	.9	4	0	.7	4	2	5	8.2	4.0	2.1	26
1992 1993	6 1.0	.9	2	.5 .5	.6 1	.3	.9	4 1	.0 .6	.7	.4	2 .5	.5 4.5	8.2 1.4	4.0	3.1 6.9	3.6 3.5
1994	.2	.1	1.3	.8	.7	.2	.4	.8	.4	1.0	.8	1.1	4.9	9.6	6.1	10.3	5.9
1995	.2	2	.2	1	.1	.5	6	1.1	.8	1	.1	.4	4.7	.9	3.2	4.1	5.2
1996	8	1.6	2	1.1	.7	1.1	.3	.6	.7	1	.8	.9	2.0	9.5	7.8	5.7	4.8
1997	.1	1.4	1.2	2	.9	.6	.5	1.6	.8	.6	1.1	.4	9.3	7.6	10.8	10.9	8.4
1998	.8	.1	1	.5	.6	7	5	2.5	4	1.0	.1	.5	6.1	2.3	3.2	7.6	6.6
1999	.3	.7	.0	.4	.9	4	.5	.6	3	1.5	.7	.7	4.7	4.4	3.7	9.0	5.0
2000	.2	.3	.7	.6	2	.2	.0	6	.5	4	3	6	5.3	4.4	8	-2.9	4.2
2001	6	6	3	3	8	7	3	6	2	6	3	.3	-6.4	-5.5	-6.0	-4.2	-4.1
2002	.5	1	.7	.2	.6	1.2	5	.4	.1	4	.5	4	3.3	5.9	3.1	3	.3
2003	.5	.2	.2	9	.0	.4	.1	4	.8	1	1.0	2	2.4	-2.4	1.5	3.7	1.3
2004 2005	.0 .7	.7 .8	2 4	.4	.7 .4	7 .2	.9 1	.6 .3	.0 -1.0	1.0 1.5	1 .8	.6 .1	2.5 6.0	3.0 2.3	4.2 1	5.5 5.7	2.8 4.0
2005	.7	2	4 1	.5	4	.2	1	.3	-1.0	4	.0	1.5	3.9	1.1	1	1.2	2.5
2007	5	.4	.7 3	.7 -1.1	1 5	.3 5	.1 -1.1	4 -1.3	.5 -3.4	4 6	.5 -2.2	.2 -3.4	4.2	5.7 -7.8	1.0 -13.4	1.0 -21.5	2.7 -4.7
2008 2009	4 -2.9	6 2	5 -1.9	-1.1	5	3	-1.1	-1.5	-3.4	0	-2.2	-3.4	-2.6	-7.8	-13.4 6.6	-21.5	-4.7
2010	1.0	.0	1.3	.9	1.4	.0	.7	.1	.1	.1	.2	.6	7.3	11.3	5.2	1.8	6.1
2011	.2	.0	.7	7	.3	.1	.7	.4	.4	.6	.0	1.0	3.4	4	5.0	5.2	3.4
2012	1.0	.6	5	.6	3	.3	.2	7	.1	4	1.4	.9	8.1	1.6	5	2.4	3.9
2013	1	.6	2	3	.3	.3	5	.8	.2	.5	.4	.2	4.9	.1	1.6	4.7	2.3
2014	9	.8															
IP (2007=100)																	
2012	93.3	93.9	93.4	93.9	93.7	94.0	94.2	93.5	93.6	93.2	94.5	95.3	93.5	93.9	93.8	94.3	93.9
2013	95.2	95.7	95.5	95.2	95.5	95.8	95.3	96.0	96.3	96.7	97.1	97.2	95.5	95.5	95.9	97.0	96.0
2014	96.4	97.2															
Capacity																	
(percent of																	
2007 output)																	
2012 2013	123.0 124.9	123.1 125.1	123.3 125.2	123.5 125.4	123.6 125.6	123.8 125.7	124.0 125.9	124.1 126.0	124.3 126.2	124.4 126.4	124.6 126.6	124.8 126.7	123.1 125.1	123.6 125.6	124.1 126.0	124.6 126.6	123.9 125.8
2013	124.9	125.1	123.2	123.4	125.0	123.7	123.9	120.0	120.2	120.4	120.0	120.7	123.1	125.0	120.0	120.0	123.0
Utilization																	
(percent) 1992	78.2	78.8	79.4	79.6	79.9	79.9	80.4	79.8	79.7	80.0	80.1	79.8	78.8	79.8	80.0	80.0	79.6
1992	80.4	80.4	80.1	80.4	80.2	80.0	80.1	79.8	80.2	80.8	81.0	81.2	80.3	80.2	80.0	81.0	80.4
1994	81.2	81.1	82.0	82.4	82.7	82.7	82.7	83.1	83.2	83.7	84.0	84.6	81.4	82.6	83.0	84.1	82.8
1995	84.5	84.0	83.8	83.4	83.1	83.2	82.3	82.9	83.2	82.8	82.4	82.3	84.1	83.2	82.8	82.5	83.2
1996	81.3	82.2	81.6	82.0	82.2	82.6	82.4	82.5	82.6	82.1	82.3	82.5	81.7	82.3	82.5	82.3	82.2
1997	82.1	82.8	83.3	82.6	82.8	82.8	82.7	83.4	83.6	83.5	83.8	83.5	82.7	82.7	83.2	83.6	83.1
1998	83.6	83.0	82.3	82.1	82.0	80.8	80.0	81.5	80.7	81.1	80.7	80.7	83.0	81.7	80.7	80.8	81.5
1999 2000	80.6 80.7	80.8 80.6	80.3 80.8	80.3 80.9	80.6 80.4	80.0 80.3	80.1 79.9	80.2 79.1	79.6 79.3	80.5 78.6	80.6 78.1	80.9 77.4	80.6 80.7	80.3 80.5	80.0 79.5	80.7 78.0	80.4 79.7
2000	76.6	75.9	75.5	75.1	74.3	73.6	73.2	79.1	79.3	71.8	78.1	71.6	76.0	74.3	79.3	71.6	73.6
2002 2003	71.9 73.7	71.8 73.9	72.2 74.0	72.3 73.3	72.8 73.4	73.6 73.7	73.2 73.8	73.5 73.5	73.6 74.1	73.3 74.1	73.6 74.8	73.3 74.7	72.0 73.9	72.9 73.5	73.4 73.8	73.4 74.6	72.9 73.9
2003	74.8	75.3	74.0	75.6	76.1	75.6	76.3	76.7	76.6	74.1	74.8	74.7	75.1	75.8	75.8	74.6	73.9
2005	78.0	78.5	78.0	78.1	78.2	78.2	78.0	78.0	77.0	78.0	78.5	78.4	78.2	78.2	77.7	78.3	78.1
2006	78.9	78.6	78.5	78.8	78.4	78.5	78.2	78.4	78.4	77.9	77.8	78.8	78.7	78.6	78.3	78.1	78.4
2007	78.2	78.3	78.7	79.1	78.8	78.9	78.8	78.3	78.6	78.2	78.5	78.5	78.4	78.9	78.6	78.4	78.6
2007	78.1	77.7	77.5	76.6	76.3	76.0	75.3	74.4	72.0	71.6	70.2	67.9	77.8	76.3	73.9	69.9	74.5
2009	66.1	66.1	65.0	64.6	64.0	64.0	64.8	65.7	66.3	66.5	67.4	67.6	65.7	64.2	65.6	67.2	65.7
2010	68.4	68.5	69.5	70.2	71.4	71.5	72.1	72.3	72.5	72.6	72.8	73.3	68.8	71.0	72.3	72.9	71.3
2011	73.4	73.4	73.9	73.4	73.5	73.5	74.0	74.2	74.3	74.7	74.5	75.2	73.6	73.5	74.2	74.8	74.0
2012	75.8	76.2	75.7	76.1	75.8	75.9	76.0	75.4	75.3	74.9	75.8	76.4	75.9	75.9	75.5	75.7	75.8
2013	76.2	76.5	76.3	75.9	76.1	76.2	75.7	76.2	76.3	76.5	76.7	76.7	76.3	76.1	76.1	76.6	76.3
2014	75.9	76.4															
													1				

Table 12 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing¹ Seasonally adjusted New June July Aug Sept. Oct. Nov. Dec. Q1 Q2

 I. Refer to note on cover page.

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

Seasonally adjusted													0.1				
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP $(percent change)^2$																	
1992	8	.8	.7	.6	.3	1	.8	6	.1	.6	.3	.0	-1.9	6.1	1.8	3.0	1.9
1993 1994	.5 .4	.3 .0	1 .9	.3 .3	4 .4	.2 .6	.3 .0	1 .4	.4 .1	.7 .6	.3 .4	.5 .9	3.2 4.5	.2 5.4	1.4 3.2	5.1 5.7	2.5 4.0
1994	.4	2	1	3	.4	.0	5	1.1	.1	4	.4	.9	2.9	-1.2	1.5	.2	2.5
1996	-1.0	1.4	3	.8	.5	.7	5	.4	.3	3	.8	.5	4	6.5	2.1	3.0	1.7
1997	1	.9	.5	3	.3	.2	.4	1.0	.7	.6	.6	.1	5.1	2.3	6.3	7.7	4.2
1998	.2	.0	1	.2	.6	9	8	2.0	7	.6	4	.1	1.9	.8	3	2.3	3.0
1999	.2	.2 .0	1	1	.6 1	5	.3 5	.3	4	1.2 6	.2 2	.5 5	.7	.3 1.5	1.1 -3.0	5.5 -2.7	1.1
2000 2001	3	5	.1 3	.4 2	1 6	1 5	3	4 2	.4 4	0	2	5	-5.9	-4.4	-3.0	-2.7	-4.0
2002 2003	.7 .6	1 .2	.8 3	.4 9	.5 1	.9 1	4 .2	.1 2	.0 .6	4 1	.5 .7	6 1	2.8 1.7	6.2 -4.7	1.7 .8	8 2.5	.3
2004	.2	.6	6	.5	.8	8	.8	.1	1	1.0	.2	.7	2.2	2.0	2.0	5.3	1.7
2005	.3	.6	1	.0	.1	.4	3	.0	-2.2	1.2	1.0	.5	4.8	1.3	-2.9	2.1	2.5
2006	.1	.0	.2	.3	2	.3	.0	.1	2	1	2	1.0	3.4	1.8	.8	.0	1.4
2007 2008	5 4	1.1 3	1 4	.6 9	.1 5	.1	.0 4	.1 -1.6	.3 -4.3	7 1.0	.4 -1.0	1 -2.7	3.1 -2.6	3.9 -6.5	1.1 -12.3	8 -14.9	1.8 -4.2
2009	-2.3	7	-1.7	-1.0	-1.1	4	.9	1.1	.6	.3	.4	.4	-19.6	-11.8	4.8	6.1	-11.3
2010	1.0	.2	.7	.3	1.6	.2	.6	.2	.2	4	.2	.9	7.2	7.9	5.9	.9	5.0
2011	2	5	1.1	6	.3	.1	.6	.5	.1	.6	.2	.6	1.9	1.0	4.8	4.7	2.9
2012	.7	.5	6	.8	.3	.0	.5	7	.1	2	1.4	.1	5.4	2.9	.5	2.2	3.6
2013	.0	.7	.3	4	.1	.2	2	.6	.7	.1	.8	.0	4.3	.8	2.3	5.4	2.5
2014	2	.6															
IP (2007=100)																	
2012	94.3 96.3	94.8 96.9	94.2 97.2	95.0 96.8	95.2 97.0	95.2 97.2	95.7 97.0	95.0 97.5	95.1	94.9 98.3	96.2 99.1	96.3 99.1	94.4 96.8	95.1 97.0	95.2 97.5	95.8	95.1 97.6
2013 2014	96.5 98.9	96.9 99.5	97.2	90.8	97.0	91.2	97.0	97.5	98.2	98.5	99.1	99.1	90.8	97.0	97.5	98.8	97.0
Capacity (percent of 2007 output)																	
2012	121.0	121.2	121.5	121.7	121.9	122.1	122.4	122.6	122.8	123.0	123.2	123.3	121.2	121.9	122.6	123.2	122.2
2013	123.5	123.6	123.8	123.9	124.1	124.2	124.4	124.6	124.7	124.9	125.1	125.2	123.6	124.1	124.6	125.1	124.3
2014	125.5	125.7															
Utilization (percent)																	
1992	79.2	79.7	80.2	80.6	80.8	80.6	81.1	80.6	80.6	81.0	81.2	81.1	79.7	80.6	80.8	81.1	80.6
1993	81.5	81.6	81.5	81.6	81.2	81.2	81.4	81.2	81.4	81.9	82.1	82.3	81.5	81.3	81.3	82.1	81.6
1994 1995	82.6 84.9	82.5 84.6	83.1 84.3	83.2 83.9	83.4 83.8	83.8 83.8	83.6 83.2	83.8 84.0	83.7 83.9	84.1 83.4	84.3 83.3	84.9 83.3	82.7 84.6	83.5 83.9	83.7 83.7	84.5 83.3	83.6 83.9
1995	82.3	83.3	82.9	83.4	83.7	84.1	83.5	83.7	83.8	83.3	83.8	83.5 84.0	82.8	83.7	83.6	83.7	83.5
1997	83.7	84.2	84.3	83.8	83.8	83.7	83.7	84.2	84.5	84.7	84.9	84.7	84.1	83.8	84.1	84.7	84.2
1998	84.5	84.2	83.8	83.6	83.8	82.8	81.9	83.2	82.4	82.6	82.1	81.9	84.2	83.4	82.5	82.2	83.1
1999	81.8	81.8	81.5	81.2	81.5	80.9	81.0	81.1	80.7	81.5	81.5	81.9	81.7	81.2	80.9	81.6	81.4
2000 2001	81.5 78.7	81.4 78.2	81.4 77.9	81.6 77.7	81.4 77.1	81.2 76.6	80.7 76.3	80.3 76.0	80.6 75.6	80.0 75.2	79.8 74.7	79.3 74.6	81.4 78.2	81.4 77.1	80.5 76.0	79.7 74.8	80.8 76.5
2002	75.1	74.9	75.5	75.7	76.1	76.8	76.5	76.6	76.6 76.8	76.4	76.8	76.4	75.2	76.2	76.5	76.5	76.1
2003 2004	76.9 77.4	77.1 77.8	76.9 77.4	76.3 77.8	76.2 78.4	76.2 77.8	76.4 78.4	76.3 78.5	76.8 78.5	76.7 79.2	77.3 79.4	77.2 79.9	77.0	76.2 78.0	76.5 78.5	77.1 79.5	76.7 78.4
2004	80.2	80.6	80.5	80.5	80.5	80.8	80.5	80.4	78.5	79.3	80.0	80.4	80.4	80.6	79.8	79.9	80.2
2006	80.3	80.2	80.2	80.4	80.1	80.3	80.2	80.2	79.9	79.7	79.4	80.1	80.2	80.3	80.1	79.7	80.1
2007	79.6	80.4	80.2	80.6	80.6	80.7	80.7	80.8	81.1	80.6	81.0	81.0	80.1	80.7	80.9	80.8	80.6
2008	80.7	80.5	80.2	79.5	79.1	78.9	78.6	77.2	73.8	74.5	73.7	71.7	80.5	79.2	76.6	73.3	77.4
2009 2010	70.0	69.5 71.2	68.3 71.9	67.6 72.3	66.9 73.6	66.7 74.0	67.4 74.5	68.2 74.8	68.8 75.1	69.1 74.9	69.6 75.2	70.0 75.9	69.3 71.3	67.1 73.3	68.1 74.8	69.6 75.3	68.5 73.7
2010	75.8	75.5	76.3	72.5	76.1	76.1	74.5	76.8	76.8	74.9	75.2	77.5	75.9	75.5	76.7	75.5	76.5
2012	77.9	78.2	77.6	78.0	78.1	77.9	78.2	77.5	77.5	77.2	78.1	78.0	77.9	78.0	77.7	77.8	77.8
2013	77.9	78.4	78.5	78.1	78.1	78.2	78.0	78.3	78.7	78.7	79.3	79.1	78.3	78.2	78.3	79.0	78.4
2014	78.8	79.2															
	1												1				1

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

 I. Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.

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

Seasonally adjusted	- 67																
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP $(percent change)^3$																	
1992	9	.9	.9	.4	.5	.1	.8	5	1	.5	.3	2	-1.2	7.0	2.7	1.5	2.6
1993	1.1	.1	3	.5	1	2	.3	2	.5	.7	.3	.5	4.0	.6	.3	5.7	2.5
1994 1995	.1	.1 3	1.1 1	.6 4	.5 1	.2 .3	.2 8	.6 .9	.1 .5	.7 4	.6 1	.9 .0	4.2	7.1 -2.3	3.7 .4	7.0 .6	4.4
1996	-1.2	1.3	1	1.0	1		0	.3	.5	4	.7	.0	-1.9	7.3	4.0	2.8	1.5
1997	2	1.1	.8	7	.5	.4	.2	1.3	.6	.5	.8	.1	6.2	2.8	6.9	8.1	4.9
1998 1999	.5	.0 .5	3 4	.3	.4 .8	-1.1 7	9 .0	2.4 .6	8 4	.7 1.4	1	.2 .4	3.2	2 .3	5 .2	4.0 6.7	3.4
2000	1	2	4	1	.0 6	.0	4	8	4	6	.4 6	8	.8	.5	-3.8	-4.8	.7
2001	6	5	3	1	7	6	1	6	2	7	2	.2	-7.0	-4.5	-4.6	-4.3	-4.8
2002		2	7	1				2	0	-	4		2.4		2.4		
2002 2003	.6 .4	2 .0	.7 .1	.1 -1.1	.6 1	1.1 .2	6 1	.3 5	.0 .8	5 2	.4 .9	6 3	3.4	5.5 -4.0	2.4 .0	-1.1 2.7	.4
2003	1	.7	2	.4	.8	8	.9	.5	2	1.0	1	.6	1.7	3.3	3.7	4.9	2.0
2005	.6	.7	5	.2	.3	.1	3	.1	-1.3	1.4	.8	.0	5.2	1.3	-1.9	4.3	3.1
2006	.8	3	1	.5	6	.2	2	.3	.0	5	.0	1.5	3.3	.0	1	.5	1.5
2007	6	.3	.6	.5	.0	.5	.1	5	.4	6	.3	.0	3.3	4.5	1.0	-1.4	1.8
2008	5	8	5	-1.3	6	6	-1.0	-1.4	-3.5	4	-2.0	-3.2	-4.3	-9.3	-13.8	-20.5	-5.8
2009	-2.9	2	-2.1 1.2	9	-1.2 1.4	3	1.2	1.1	.7	.1	1.1	.0	-23.5	-12.3	6.5	6.6	-13.8
2010 2011	.8	2 .0	.8	.8 8	.2	0. 0.	.7 .7	.0	.0	.0 .6	.0	.4 1.0	5.6 2.4	10.3 4	4.8 4.8	.8 5.1	5.1 2.8
				10				10		10							
2012	1.1	.7	5	.6	3	.3	.2	6	.0	6	1.5	.9	8.2	1.5	2	2.1	3.9
2013 2014	2	.6 .8	3	4	.3	.3	6	.8	.3	.4	.3	.2	5.2	5	1.4	4.6	2.2
2014	,	.0															
IP (2007=100)																	
2012 2013	90.6 92.5	91.3 93.1	90.8 92.9	91.3 92.5	91.0 92.7	91.3 93.0	91.5 92.5	91.0 93.2	91.0 93.5	90.5 93.8	91.8 94.1	92.7 94.3	90.9 92.8	91.2 92.7	91.2 93.0	91.7 94.1	91.2 93.2
2013	92.5	93.1 94.2	92.9	92.5	92.1	93.0	92.3	93.2	93.3	95.8	94.1	94.3	92.0	92.1	93.0	94.1	93.2
Capacity (percent of 2007 output)																	
2012	119.1	119.3	119.4	119.6	119.7	119.9	120.1	120.2	120.4	120.6	120.7	120.9	119.3	119.7	120.2	120.7	120.0
2013 2014	121.0 122.5	121.1 122.6	121.2	121.4	121.5	121.6	121.7	121.8	121.9	122.0	122.2	122.3	121.1	121.5	121.8	122.2	121.6
2014	122.5	122.0															
Utilization																	
(percent) 1992	78.0	78.6	79.2	79.5	79.8	79.8	80.3	79.8	79.6	79.9	80.1	79.8	78.6	79.7	79.9	79.9	79.5
1992	80.6	80.6	80.2	80.5	80.3	80.1	80.3	79.8	80.2	80.7	80.1	81.2	80.4	80.3	80.1	81.0	80.4
1994	81.2	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	84.4	84.0	83.7	83.2	82.9	83.0	82.2	82.7	83.0	82.4	82.2	82.0	84.0	83.1	82.6	82.2	83.0
1996	80.9	81.8	81.3	81.9	82.2	82.7	82.4	82.5	82.6	82.1	82.4	82.8	81.3	82.3	82.5	82.4	82.1
1997	82.4	83.0	83.4	82.5	82.6	82.6	82.5	83.2	83.3	83.4	83.7	83.5	82.9	82.6	83.0	83.5	83.0
1998	83.6	83.2	82.6	82.5	82.5	81.2	80.2	81.8	80.9	81.3	80.9	80.8	83.1	82.1	81.0	81.0	81.8
1999	80.5	80.6	80.1	79.8	80.2	79.4	79.3	79.6	79.1	80.0	80.1	80.3	80.4	79.8	79.3	80.1	79.9
2000 2001	79.9	79.6 75.5	79.8 75.2	79.9 75.1	79.4 74.5	79.3 74.0	78.9 73.9	78.1 73.4	78.3 73.2	77.8 72.7	77.3 72.5	76.5 72.7	79.8 75.6	79.5 74.5	78.4 73.5	77.2 72.6	78.7
2002	73.1	73.0	73.5	73.6	74.1	75.0	74.6	74.8	74.9	74.6	74.9	74.5	73.2	74.2	74.8	74.7	74.2
2003 2004	74.9	74.9 75.7	75.0 75.6	74.2 76.0	74.2 76.6	74.4 76.0	74.4 76.7	74.1 77.1	74.7 77.0	74.6 77.8	75.3 77.7	75.1 78.1	74.9 75.5	74.3 76.2	74.4 76.9	75.0 77.8	74.6
2004	78.5	79.0	78.5	78.6	78.7	78.7	78.4	78.3	77.2	78.1	78.6	78.5	78.7	78.7	78.0	78.4	78.4
2006	79.0	78.6	78.4	78.7	78.1	78.2	77.9	78.1	78.0	77.5	77.4	78.5	78.7	78.3	78.0	77.8	78.2
2007	78.0	78.2	78.5	78.9	78.8	79.1	79.1	78.7	79.0	78.4	78.6	78.6	78.2	78.9	78.9	78.6	78.7
2007	78.0	78.2	78.3	76.3	75.9	75.5	79.1	73.9	79.0	78.4	69.8	67.7	77.7	78.9	73.3	69.5	74.1
2009	65.8	65.8	64.6	64.2	63.6	63.5	64.5	65.4	66.0	66.3	67.1	67.3	65.4	63.8	65.3	66.9	65.3
2010	68.0	68.0	69.0	69.7	70.9	71.1	71.7	71.9	72.0	72.2	72.3	72.7	68.4	70.6	71.9	72.4	70.8
2011	72.9	73.0	73.6	73.1	73.3	73.3	73.9	74.1	74.4	74.8	74.6	75.3	73.1	73.2	74.1	74.9	73.8
2012	76.1	76.5	76.0	76.3	76.0	76.2	76.2	75.7	75.6	75.0	76.0	76.7	76.2	76.2	75.8	75.9	76.0
2013	76.5	76.9	76.6	76.2	76.3	76.5	76.0	76.5	76.7	76.9	77.1	77.1	76.6	76.3	76.4	77.0	76.6
2014	76.3	76.9															
	1												1				1

Table 14 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing' Excluding Selected High-Technology Industries² Seasonally adjusted

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

EXPLANATORY NOTE

The **Industrial Production and Capacity Utilization** statistical release, which is published around the middle of the month, reports measures of output, capacity, and capacity utilization in manufacturing, mining, and the electric and gas utilities industries. More detailed descriptions of industrial production and capacity utilization are available 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 industriesnewspaper, 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 x 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 67 percent of the source data increases to 81 percent for estimates in the second month that the estimate is published, 93 percent in the third month, 96 percent in the fourth month. Data availability by data type in early 2011 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	27	41	53	55	58	58						
Production-worker hours	41	41	41	41	41	41						
IP data received	67	81	93	96	99	99						
IP data estimated	33	19	7	4	1	1						

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

Seasonal adjustment. Individual series are seasonally adjusted using Census X-12 ARIMA. For series based on production-worker hours, the current seasonal factors were estimated with data through January 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 1987-2010 period. The average revision to the *percent change* in total IP, without regard to sign, from the first to the fourth estimates was 0.21 percentage point during the 1987-2010 period. In most cases (about 85 percent), the direction of the change in output indicated by the first estimate for a given month is the same as that shown by the fourth estimate.

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

CAPACITY UTILIZATION

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

Coverage. 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 1972–2012 period, the average total industry utilization rate is 80.2 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 22, 2013 is available on the Board's website (www.federal reserve.gov/releases/g17/revisions/Current/DefaultRev.htm). A summary of the annual revision that incorporated back to 1972 production and capacity indexes reclassified according to the North American Industry Classification System is available in an article in the Federal Reserve Bulletin, vol. 89 (April 2003), pp. 151-176. A description of the aggregation methods for industrial production and capacity utilization is included in an article in the Federal Reserve Bulletin, vol. 83 (February 1997), pp. 67-92. The Federal Reserve methodology for constructing industry-level measures of capital is detailed in "Capital Stock Estimates for Manufacturing Industries: Methods and Data" by Mike Mohr and Charles Gilbert (1996), which can be obtained at: www.federalreserve.gov/releases/g17/CapitalStockDocLatest.pdf.

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

Release Schedule

At 9:15 a.m. on

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.