FEDERAL RESERVE statistical release



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Percent change

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production increased 0.3 percent in December after rising 0.4 percent in November. For the fourth quarter as a whole, total industrial production moved up at an annual rate of 3.8 percent. In December, manufacturing output increased 1.1 percent, its largest gain since February 2018. The output of mines rose

(over)

Industrial Production and Capacity Utilization: Summary

Seasonally adjusted

	2018						2018						Dec. '17 to
Industrial production	July	Aug.r	Sept.r	Oct.r	Nov.r	Dec.p	July	Aug. ^r	Sept.r	Oct.r	Nov.r	Dec.p	Dec. '18
Total index	107.9	108.8	108.9	109.1	109.6	109.9	.4	.8	.1	.2	.4	.3	4.0
Previous estimates	107.9	108.8	108.9	108.7	109.4		.4	.8	.1	2	.6		
Major market groups													
Final Products	102.4	103.2	103.7	104.3	103.9	104.1	.2	.7	.5	.6	3	.2	2.6
Consumer goods	105.5	106.0	106.2	107.0	106.3	106.3	.3	.4	.3	.7	6	.0	1.0
Business equipment	99.7	101.2	102.3	102.6	102.9	103.4	.2	1.6	1.1	.3	.2	.5	5.0
Nonindustrial supplies	107.0	107.0	106.7	107.0	107.0	107.3	2	.0	3	.3	.0	.3	.7
Construction	114.1	114.4	113.7	113.3	113.5	115.3	1	.3	7	4	.2	1.6	2.1
Materials	112.6	113.9	113.9	113.7	115.0	115.5	.8	1.1	.0	1	1.1	.5	6.1
Major industry groups													
Manufacturing (see note below)	104.4	104.9	105.1	105.0	105.0	106.2	.4	.5	.2	2	.1	1.1	3.2
Previous estimates	104.3	104.8	105.0	104.9	104.9	100.2	.3	.5	.2	1	.0	111	5. <u>2</u>
Mining	123.8	126.6	127.3	127.1	128.5	130.5	.8	2.3	.6	2	1.1	1.5	13.4
Utilities	104.2	105.4	104.1	107.5	108.9	102.0	.2	1.1	-1.3	3.3	1.3	-6.3	-4.3
Cimeos	101.2	105.1	101.1	107.5	100.7	102.0			1.5	5.5	1.0	0.5	1.5
													Capacity
					Perce	ent of cap	acity						growth
	Average	1988-	1990-	1994-		1							
	1972-	89	91	95	2009	2017	2018						Dec. '17 to
Capacity utilization	2017	high	low	high	low	Dec.	July	Aug. ^r	Sept. ^r	Oct.r	Nov.r	Dec.p	Dec. '18
1 0													
Total industry	79.8	85.2	78.8	85.0	66.7	77.3	78.0	78.5	78.4	78.4	78.6	78.7	2.1
Previous estimates							78.0	78.5	78.4	78.1	78.5		
Manufacturing (see note below)	78.3	85.6	77.3	84.6	63.7	75.2	75.7	76.0	76.1	75.9	75.8	76.5	1.4
Previous estimates							75.7	76.0	76.0	75.8	75.7		
Mining	87.0	86.3	84.3	88.6	78.2	88.6	92.3	93.9	93.9	93.3	93.9	94.8	6.0
Utilities	85.3	92.9	84.4	92.9	78.3	79.9	77.3	78.0	76.9	79.3	80.2	75.0	2.0
Stage-of-process groups													
Stage-of-process groups Crude	86.0	87.8	84.7	90.0	76.4	86.9	90.6	91.9	91.9	91.4	92.1	92.8	4.3
	86.0 80.4	87.8 86.5	84.7 78.1	90.0 87.7	76.4 63.8	86.9 76.4	90.6 75.9	91.9 76.3	91.9 75.9	91.4 76.3	92.1 76.6	92.8 76.0	4.3 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.

1.5 percent, but the index for utilities fell 6.3 percent, as warmer-than-usual temperatures lowered the demand for heating. At 109.9 percent of its 2012 average, total industrial production was 4.0 percent higher in December than it was a year earlier. Capacity utilization for the industrial sector rose 0.1 percentage point in December to 78.7 percent, a rate that is 1.1 percentage points below its long-run (1972–2017) average.

Market Groups

The major market groups posted broad-based gains in December, though consumer energy products, business supplies, and energy materials all recorded decreases because of the drop in the output of utilities.

Durable consumer goods posted the largest gain among the major non-energy market groups, nearly $2\sqrt{3}$ 4 percent, followed by a gain of about $2\sqrt{4}$ 4 percent for defense and space equipment and an increase of almost $1\sqrt{4}$ 2 percent for construction supplies. The indexes for non-energy materials and for non-energy nondurable consumer goods rose nearly 1 percent, while the index for business equipment moved up $1\sqrt{2}$ percent.

Industry Groups

Manufacturing output advanced 1.1 percent in December and increased at an annual rate of 2.3 percent in the fourth quarter; the index rose 2.5 percent between the fourth quarter of 2017 and the fourth quarter of 2018. Within durable manufacturing, motor vehicles and parts posted a gain of 4.7 percent in December, and nonmetallic mineral products recorded an increase of nearly 3 percent; the indexes for several other durable goods industries advanced more than 1 percent. Among nondurables, the index for petroleum and coal products jumped 3½ percent. Most other major categories of nondurables posted gains of less than 1 percent. The output of other manufacturing (publishing and logging) increased 0.2 percent.

Mining output rose 1.5 percent in December, with gains in oil and gas extraction, coal mining, and support activities for mining (mainly oil and gas well drilling); the index for mining was 13.4 percent above its level from a year earlier. The output of utilities fell 6.3 percent in December, with both electric and gas utilities posting sharp declines.

Capacity utilization for manufacturing jumped 0.7 percentage point in December to 76.5 percent, about 2 percentage points below its long-run average. The utilization rate for mining increased to 94.8 percent and remained well above its long-run average of 87.0 percent. The operating rate for utilities fell to 75.0 percent, a rate that is about 10 percentage points below its long-run average.

100 Years of the Industrial Production Index

With this release, the index of industrial production comprises a full 100 years of monthly data, from January 1919 to December 2018. A brief history of the index is available on the Board's website at https://www.federalreserve.gov/releases/g17/100_years_of_ip_data.htm.

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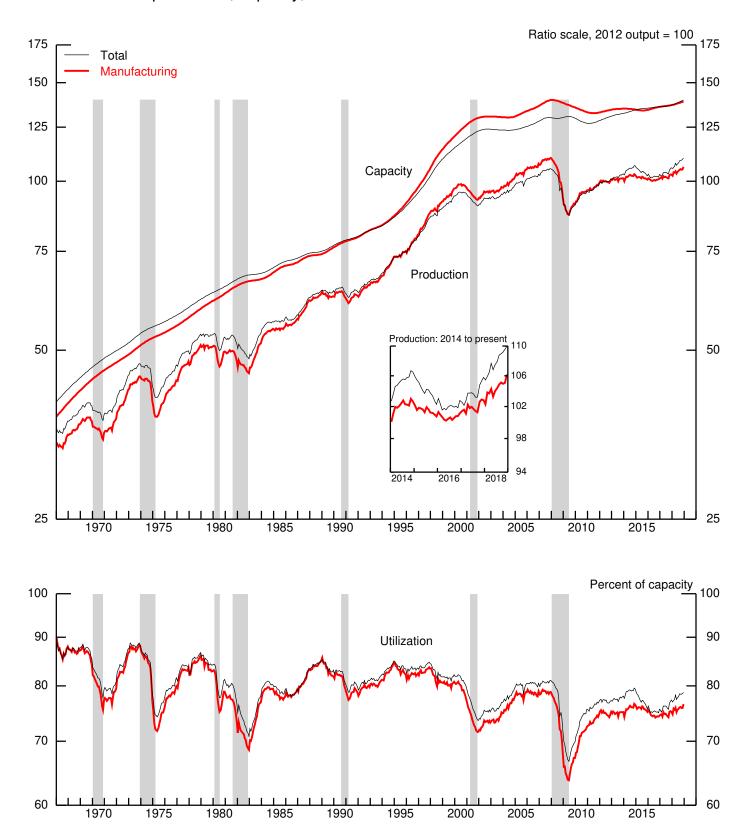
Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

Revision of Industrial Production and Capacity Utilization

The Federal Reserve Board plans to issue 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 2019. The Economic Census for 2017 will not be available from the U.S. Census Bureau by early 2019, so no new annual benchmark data will be included for manufacturing. Other annual data, including information on the mining of metallic and nonmetallic minerals (except fuels), will be incorporated. 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.

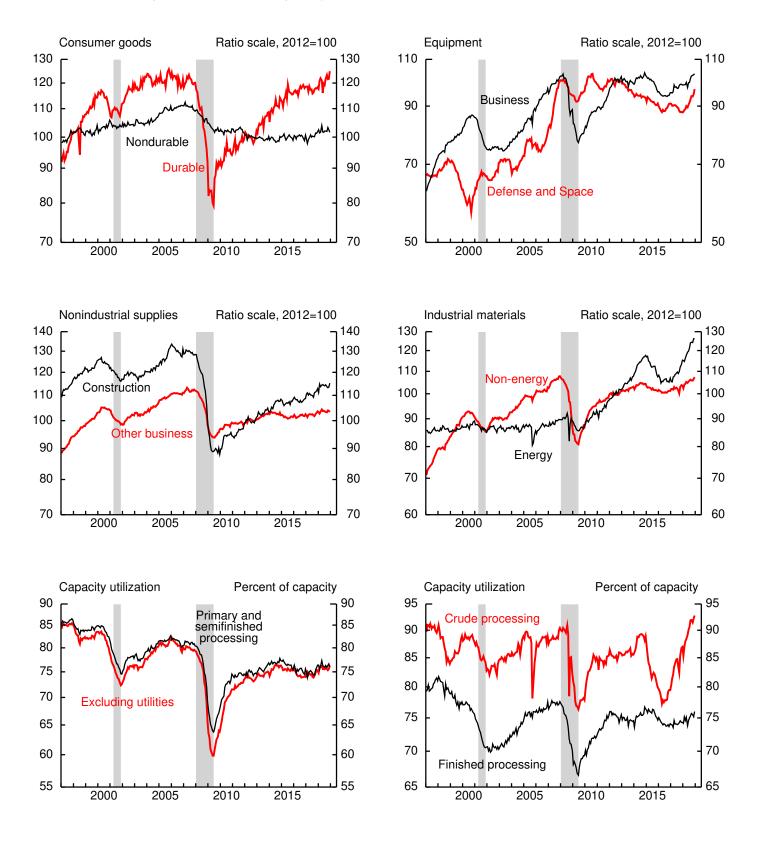
Capacity and capacity utilization will be revised to incorporate data through the fourth quarter of 2018 from the U.S. Census Bureau's Quarterly Survey of Plant Capacity Utilization along with new data on capacity from the U.S. Geological Survey, the U.S. Department of Energy, and other organizations.

1. Industrial production, capacity, and utilization



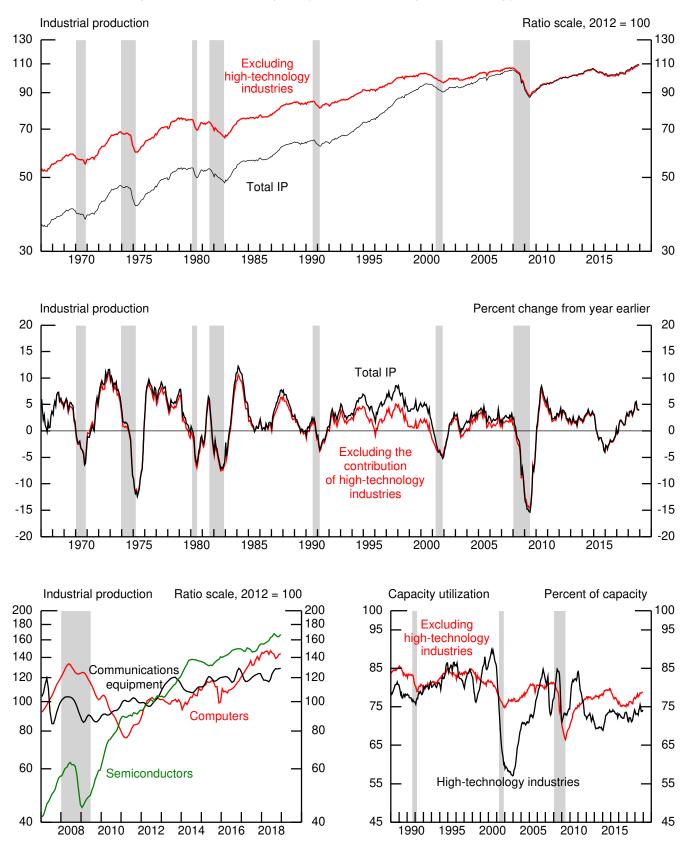
Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

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

Percent change, seasonally adjusted

				rth quart ırth quai			nual rat	e			Month	ly rate			Dec. '1'
Item		2017 proportion ¹	2016	2017	2018	2018 Q2	Q3 ^r	O4 ^p	2018 July ^r	Aug.r	Sept.r	Oct.r	Nov.r	Dec.p	to Dec. '18
Total IP		100.00	5	3.0	4.1	5.2	4.7	3.8	.4	.8	.1	.2	.4	.3	4.0
MARKET GROUPS															
Final products and nonindustrial supplie	es	54.37	1	2.1	2.3	2.3	1.7	3.2	.1	.6	.3	.5	2	.2	2.1
Consumer goods		28.03	.8	1.3	1.6	1.0	.6	2.3	.3	.4	.3	.7	6	.0	1.0
Durable		6.35	2.5	4	3.9	-4.1	8.5	4.3	5	2.1	1.3	-1.4	.0	2.7	5.5
Automotive products		3.31	4.2	6	4.4	-8.6	11.0	6.3	-2.1	4.4	1.6	-2.6	.2	4.8	7.0
Home electronics		.14	2.1	5.0	3.6	-6.3	17.1	16.8	3.5	4	.5	2.7	1.3	.5	6.1
Appliances, furniture, carpeting		.88	.3	-2.1	.9	-1.4	3.2	3.7	1.8	-1.7	.8	.3	.9	.4	1.6
Miscellaneous goods		2.02	.8	.2	4.5	2.8	6.3	.8	.9	.4	.9	3	6	.3	4.6
Nondurable		21.68	.2	1.8	.9	2.6	-1.6	1.8	.5	1	.0	1.3	8	8	2
Non-energy		16.70	8	1.6	.4	7	1.9	-2.0	1.2	5	.2	1	9	.8	.7
Foods and tobacco		9.65	.2	3.2	.7	.7	1.7	-4.3	1.4	-1.1	.2	5	-1.1	.9	.9
Clothing		.20	-2.7	-9.9	-4.2	9	-5.4	-17.4	4.1	-3.1	-1.8	-1.6	-1.5	.4	-5.4
Chemical products		5.29	-1.9	.8	.7	9	4.4	.1	1.2	1	1	.1	3	.6	.7
Paper products		1.12	-3.9	-4.3	-2.4	-12.8	-5.6	12.2	2	2.3	2.0	1.5	-1.1	.4	.4
Energy		4.98	4.4	2.5	2.5	13.3	-11.8	14.1	-1.8	1.4	7	5.8	6	-5.6	-3.3
Business equipment		9.51	-2.2	4.4	4.3	.9	9.4	7.7	.2	1.6	1.1	.3	.2	.5	5.0
Transit		2.46	-6.0	.7	4.1	-3.9	12.9	6.8	9	1.1	2.8	-1.9	.6	2.9	7.3
Information processing		2.13	3.3	3.1	4.8	4.3	6.1	1.9	1.6	5	.2	2	.4	1.3	6.1
Industrial and other		4.92	-2.4	7.0	4.2	2.0	9.1	10.9	.1	2.7	.7	1.6	.0	-1.0	3.4
Defense and space equipment		2.12	.0	-3.3	8.5	7.8	12.0	11.2	1.0	1.3	1.5	1	.9	2.3	10.6
Construction supplies		5.12 8.98	.5 .5	3.4 1.1	1.7	4.3 3.1	-1.2 -2.1	2 1.3	1 3	.3	7 1	4 .7	.2 1	1.6 5	2.1
Business supplies		0.98			.6				3	2	1	./	1	3	2
Materials		45.63	-1.1	4.1	6.1	8.7	8.2	4.5	.8	1.1	.0	1	1.1	.5	6.1
Non-energy		27.58	2	2.2	3.0	6.0	3.2	2.1	.3	.4	2	2	.7	.9	3.7
Durable		16.31	8	2.2	3.5	2.8	2.7	4.3	.0	.6	.3	3	.9	1.1	4.4
Consumer parts		2.99	2	.6	3.7	-3.5	.5	8.2	-1.4	2.0	.3	6	1.8	1.7	4.7
Equipment parts		4.79	.3	.8	5.4	5.4	9.1	3.2	.7	1.5	1	2	.5	.8	5.6
Other		8.53	-1.6	3.6	2.3	3.6	.1	3.7	.2	5	.5	2	.9	1.0	3.6
Nondurable		11.27	.7	2.2	2.2	10.8	3.9	-1.0	.7	.2	-1.0	1	.3	.7	2.7
Textile		.35	.5	-3.1	5.7	7	2.7	13.6	-1.2	3.6	-2.6	4.3	.3	-1.7	4.1
Paper		1.88	.1	-3.5	7	9	1.5	-3.6	2.2	-2.1	.4	.1	3	9	-2.2
Chemical Energy		5.78 18.05	-2.7	4.1 7.3	4.3 10.7	21.3 12.6	6.0	.3 7.8	.1 1.5	1.1 2.1	-1.5 .2	3	1.0	1.2	6.0 9.5
		10.03	-2.7	7.5	10.7	12.0	13.3	7.0	1.5	2.1	.2	.0	1.0	1	9.5
INDUSTRY GROUPS Manufacturing		75.52	1	1.9	2.5	2.3	3.7	2.3	.4	.5	.2	2	.1	1.1	3.2
Manufacturing (NAICS)	31–33	73.44	.1	2.1	2.8	2.6	4.2	2.3	.4	.5	.2	2	.1	1.1	3.4
Durable manufacturing	01 00	37.57	3	1.9	4.4	2.0	5.8	5.7	1	1.4	.5	2	.5	1.3	5.3
Wood products	321	1.42	4.2	3.8	.0	-2.5	.7	-4.8	9	1.7	.2	-2.3	3	1.8	1.0
Nonmetallic mineral products	327	2.20	4	5.2	1.9	5.3	-4.8	.2	.2	2	-1.5	.8	9	2.8	2.3
Primary metals	331	2.63	-4.0	4.5	6.3	1.2	1.2	19.8	7	1.8	.9	.9	3.4	.6	8.4
Fabricated metal products	332	5.45	-1.8	3.1	4.9	4.2	3.8	2.8	3	.7	.1	.2	.2	.1	4.8
Machinery	333	5.30	-2.3	9.1	6.0	5.1	11.7	10.6	.4	3.0	.5	.7	1.0	6	4.9
Computer and electronic products	334	4.88	4.5	2.5	5.7	6.2	9.3	1.9	1.5	.2	.0	3	.4	1.3	6.5
Electrical equip., appliances,	331		5	2.5	٥.,	U.2	7.0	,	1.0		.0	.5		1.0	0.5
and components	335	1.82	1	.5	3.4	5.7	5.7	-1.6	.9	2	.1	6	.3	.1	4.4
Motor vehicles and parts	3361–3	5.62	2.2	-1.3	4.8	-9.6	9.5	6.1	-2.5	3.7	2.2	-2.8	.2	4.7	7.8
Aerospace and miscellaneous	0001 0	5.02		2.0		7.0	7.0	0,1		0.7		0			,.0
		4.22	2.1	-2.4	4.3	3.7	8.3	9.9	.5	1.1	.9	.1	1.2	1.7	6.1
	3364_9	4 1/	- > 1			J.1		1.1				1.0	2	.2	2.4
transportation equipment	3364–9 337	4.32 1.19	-3.1			23		6.9	6	_ '/	1.6				2.7
	3364–9 337 339	4.32 1.19 2.74	-3.1 7 -1.8	-3.4 -3.4	2.4	2.3 5.3	2.5	6.9 3.1	.6 .0	7 .4	1.6	1.6	-1.1	1	1.7
transportation equipment Furniture and related products Miscellaneous	337	1.19 2.74	7 -1.8	-3.4 -3.4	2.4	5.3	2.5 5	3.1	.0	.4	3	1.6	-1.1	1	
transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing	337 339	1.19 2.74 35.87	7 -1.8	-3.4 -3.4 2.4	2.4 1.1	5.3 3.3	2.5 5	3.1	.0	.4	3 1	1.6 2	-1.1	1 .9	1.6
transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products	337 339 311,2	1.19 2.74 35.87 11.70	7 -1.8 .6 .7	-3.4 -3.4 2.4 3.5	2.4 1.1 1.1 .9	5.3 3.3 1.4	2.5 5 2.6 2.1	3.1 -1.2 -4.5	.0 .9 1.4	.4 4 -1.0	3 1 .2	1.6 2 5	-1.1 3 -1.1	1 .9 .9	1.6 1.1
transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills	337 339 311,2 313,4	1.19 2.74 35.87 11.70 .65	7 -1.8 .6 .7	-3.4 -3.4 2.4 3.5 -1.7	2.4 1.1 1.1 .9 2.7	5.3 3.3 1.4 -1.5	2.5 5 2.6 2.1 1.8	3.1 -1.2 -4.5 4.0	.0 .9 1.4 3	4 -1.0 1.8	3 1 .2 -1.9	1.6 2 5 2.3	-1.1 3 -1.1 6	1 .9 .9 6	1.6 1.1 1.7
transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather	337 339 311,2 313,4 315,6	1.19 2.74 35.87 11.70 .65 .21	7 -1.8 .6 .7 .2 -2.5	-3.4 -3.4 2.4 3.5 -1.7 -9.4	2.4 1.1 1.1 .9 2.7 -4.4	5.3 3.3 1.4 -1.5 -1.5	2.5 5 2.6 2.1 1.8 -5.9	3.1 -1.2 -4.5 4.0 -16.6	.0 .9 1.4 3 3.9	4 -1.0 1.8 -3.1	3 1 .2 -1.9 -1.7	1.6 2 5 2.3 -1.5	-1.1 3 -1.1 6 -1.5	1 .9 .9 6 .5	1.6 1.1 1.7 -5.5
transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper	337 339 311,2 313,4 315,6 322	1.19 2.74 35.87 11.70 .65 .21 2.50	7 -1.8 .6 .7 .2 -2.5 1.0	-3.4 -3.4 2.4 3.5 -1.7 -9.4 -2.3	2.4 1.1 1.1 .9 2.7 -4.4 2	5.3 3.3 1.4 -1.5 -1.5 .5	2.5 5 2.6 2.1 1.8 -5.9 .4	3.1 -1.2 -4.5 4.0 -16.6 -1.2	.0 .9 1.4 3 3.9 1.8	.4 4 -1.0 1.8 -3.1 -1.2	3 1 .2 -1.9 -1.7 2	1.6 2 5 2.3 -1.5 .7	-1.1 3 -1.1 6 -1.5 5	1 .9 .9 6 .5 2	1.6 1.1 1.7 -5.5 -1.4
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	337 339 311,2 313,4 315,6 322 323	1.19 2.74 35.87 11.70 .65 .21 2.50	7 -1.8 .6 .7 .2 -2.5 1.0	-3.4 -3.4 2.4 3.5 -1.7 -9.4 -2.3 -2.0	2.4 1.1 1.1 .9 2.7 -4.4 2 -1.8	5.3 3.3 1.4 -1.5 -1.5 .5	2.5 5 2.6 2.1 1.8 -5.9 .4 -1.7	3.1 -1.2 -4.5 4.0 -16.6 -1.2 -5.4	.0 .9 1.4 3 3.9 1.8	.4 4 -1.0 1.8 -3.1 -1.2 -2.4	3 1 .2 -1.9 -1.7 2 1.6	1.6 2 5 2.3 -1.5 .7 -1.0	-1.1 3 -1.1 6 -1.5 5 -1.0	1 .9 .9 6 .5 2	1.6 1.1 1.7 -5.5 -1.4 -2.8
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	337 339 311,2 313,4 315,6 322 323 324	1.19 2.74 35.87 11.70 .65 .21 2.50 1.41 3.41	7 -1.8 .6 .7 .2 -2.5 1.0 1.1 3.8	-3.4 -3.4 2.4 3.5 -1.7 -9.4 -2.3 -2.0 2.6	2.4 1.1 1.1 .9 2.7 -4.4 2 -1.8 6	5.3 3.3 1.4 -1.5 -1.5 .5 3.2	2.5 5 2.6 2.1 1.8 -5.9 .4 -1.7	3.1 -1.2 -4.5 4.0 -16.6 -1.2 -5.4 -2.9	.0 .9 1.4 3 3.9 1.8 .3 -1.0	4 -1.0 1.8 -3.1 -1.2 -2.4	31 .2 -1.9 -1.72 1.65	1.625 2.3 -1.5 .7 -1.02	-1.1 3 -1.1 6 -1.5 5 -1.0 -2.4	1 .9 .9 6 .5 2 .1 3.5	1.6 1.1 1.7 -5.5 -1.4 -2.8
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	337 339 311,2 313,4 315,6 322 323 324 325	1.19 2.74 35.87 11.70 .65 .21 2.50 1.41 3.41 12.38	7 -1.8 .6 .7 .2 -2.5 1.0 1.1 3.8 6	-3.4 -3.4 2.4 3.5 -1.7 -9.4 -2.3 -2.0 2.6 3.3	2.4 1.1 1.1 .9 2.7 -4.4 2 -1.8 6 2.7	5.3 3.3 1.4 -1.5 -1.5 .5 3.2 9.3	2.5 5 2.6 2.1 1.8 -5.9 .4 -1.7 .3 4.6	3.1 -1.2 -4.5 4.0 -16.6 -1.2 -5.4 -2.9 1.5	.0 .9 1.4 3 3.9 1.8 .3 -1.0	.44 -1.0 1.8 -3.1 -1.2 -2.4 .8 .1	3 1 .2 -1.9 -1.7 2 1.6 5 6	1.6 2 5 2.3 -1.5 .7 -1.0 2 .0	-1.1 3 -1.1 6 -1.5 5 -1.0 -2.4 .8	1 .9 .9 6 .5 2 .1 3.5 .5	1.6 1.1 1.7 -5.5 -1.4 -2.8 .7 3.6
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	337 339 311,2 313,4 315,6 322 323 324 325 326	1.19 2.74 35.87 11.70 .65 .21 2.50 1.41 3.41 12.38 3.60	7 -1.8 .6 .7 .2 -2.5 1.0 1.1 3.8 6	-3.4 -3.4 2.4 3.5 -1.7 -9.4 -2.3 -2.0 2.6 3.3 2.0	2.4 1.1 1.1 .9 2.7 -4.4 2 -1.8 6 2.7	5.3 3.3 1.4 -1.5 -1.5 .5 .5 3.2 9.3 -6.7	2.5 5 2.6 2.1 1.8 -5.9 .4 -1.7 .3 4.6 3.3	3.1 -1.2 -4.5 4.0 -16.6 -1.2 -5.4 -2.9 1.5 3.7	.0 .9 1.4 3 3.9 1.8 .3 -1.0 .9	.44 -1.0 1.8 -3.1 -1.2 -2.4 .8 .18	31 .2 -1.9 -1.72 1.656	1.625 2.3 -1.5 .7 -1.02 .01	-1.13 -1.16 -1.55 -1.0 -2.4 .8 1.0	1 .9 .9 6 .5 2 .1 3.5 .5	1.6 1.1 1.7 -5.5 -1.4 -2.8 .7 3.6
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)	337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111	1.19 2.74 35.87 11.70 .65 .21 2.50 1.41 3.41 12.38 3.60	7 -1.8 .6 .7 -2 -2.5 1.0 1.1 3.8 6 1.6	-3.4 -3.4 2.4 3.5 -1.7 -9.4 -2.3 -2.0 2.6 3.3 2.0	2.4 1.1 1.1 .9 2.7 -4.4 2 -1.8 6 2.7 .0	5.3 3.3 1.4 -1.5 -1.5 -5 3.2 9.3 -6.7	2.5 5 2.6 2.1 1.8 -5.9 .4 -1.7 .3 4.6 3.3	3.1 -1.2 -4.5 4.0 -16.6 -1.2 -5.4 -2.9 1.5 3.7	.0 .9 1.43 3.9 1.8 .3 -1.0 .9 1.6	.44 -1.0 1.8 -3.1 -1.2 -2.4 .8 .18	31 .2 -1.9 -1.72 1.656 .6	1.6 2 5 2.3 -1.5 .7 -1.0 2 .0 1	-1.1 3 -1.1 6 -1.5 5 -1.0 -2.4 .8 1.0	1 .9 .9 6 .5 2 .1 3.5 .5 .5	1.6 1.1 1.7 -5.5 -1.4 -2.8 .7 3.6 .7
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) Mining	337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111	1.19 2.74 35.87 11.70 .65 .21 2.50 1.41 3.41 12.38 3.60 2.07	7 -1.8 .6 .7 -2 -2.5 1.0 1.1 3.8 6 1.6	-3.4 -3.4 2.4 3.5 -1.7 -9.4 -2.3 -2.0 2.6 3.3 2.0 -7.0	2.4 1.1 1.1 .9 2.7 -4.4 2 -1.8 6 2.7 .0	5.3 3.3 1.4 -1.5 -1.5 .5 3.2 9.3 -6.7 -10.5	2.5 5 2.6 2.1 1.8 -5.9 .4 -1.7 .3 4.6 3.3 -15.3	3.1 -1.2 -4.5 4.0 -16.6 -1.2 -5.4 -2.9 1.5 3.7 3.4 9.2	.0 .9 1.4 3 3.9 1.8 .3 -1.0 .9 1.6	.44 -1.0 1.8 -3.1 -1.2 -2.4 .8 .18	3 1 .2 -1.9 -1.7 2 1.6 5 6 .6 1.3	1.625 2.3 -1.5 .7 -1.02 .01 .7	-1.1 3 -1.1 6 -1.55 -1.0 -2.4 .8 1.0 -1.1	1 .9 .9 6 .5 2 .1 3.5 .5 .5	1.6 1.1 1.7 -5.5 -1.4 -2.8 .7 3.6 .7
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)	337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111	1.19 2.74 35.87 11.70 .65 .21 2.50 1.41 3.41 12.38 3.60	7 -1.8 .6 .7 -2 -2.5 1.0 1.1 3.8 6 1.6	-3.4 -3.4 2.4 3.5 -1.7 -9.4 -2.3 -2.0 2.6 3.3 2.0	2.4 1.1 1.1 .9 2.7 -4.4 2 -1.8 6 2.7 .0	5.3 3.3 1.4 -1.5 -1.5 -5 3.2 9.3 -6.7	2.5 5 2.6 2.1 1.8 -5.9 .4 -1.7 .3 4.6 3.3	3.1 -1.2 -4.5 4.0 -16.6 -1.2 -5.4 -2.9 1.5 3.7	.0 .9 1.43 3.9 1.8 .3 -1.0 .9 1.6	.44 -1.0 1.8 -3.1 -1.2 -2.4 .8 .18	31 .2 -1.9 -1.72 1.656 .6	1.6 2 5 2.3 -1.5 .7 -1.0 2 .0 1	-1.1 3 -1.1 6 -1.5 5 -1.0 -2.4 .8 1.0	1 .9 .9 6 .5 2 .1 3.5 .5 .5	1.6 1.1 1.7 -5.5 -1.4 -2.8 .7 3.6 .7

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

Energy	ercent change, seasonany adjusted		20:-		rth quart urth quar			nnual rat	e	2012		Month	ly rate			Dec. '17
Energy	Item			2016	2017	2018		Q3 ^r	Q4 ^p		Aug.r	Sept.r	Oct.r	Nov. ^r	Dec.p	
Consenter products 498	Total industry		100.00	5	3.0	4.1	5.2	4.7	3.8	.4	.8	.1	.2	.4	.3	4.0
Commercial prochacts 2.37	Energy		25.92	-1.5	6.3	8.5	12.8	7.7	8.6	.5	1.9	2	1.3	1.0	-1.4	6.2
Odl and gas well drilling Odl and gas well drilling Converted fine 4.63 7. 10 4.3 8.9 10.8 7. 4.2 6.0 3. 1.0 8.2 2.1 Primary energy 7408 -3. 1.9 2.4 2.5 3.6 1.9 4. 4. 4. 2. 2. 1. 1.0 3.1 Non-energy 7408 -3. 1.9 2.4 2.5 3.6 1.9 4. 4. 4. 2. 2. 1. 1.0 3.1 Selected high-technology industries Computers and perpheral equipment 3341 3.5 13.2 19.4 1.6 1.0 9.0 -2. 1.6 1.0 3.1 Selected high-technology industries Computers and related 3.2 3.1 3.3 3.2 3.3	Consumer products		4.98	4.4	2.5	2.5	13.3	-11.8	14.1	-1.8	1.4	7	5.8	6	-5.6	-3.3
Converted fuel																
Primary energy 13.42		213111														
Non-energy				1			1			1						
Selected high-technology industries 2.07 8.5 3.2 6.1 6.1 14.8 5.5 1.1 1.8 -7 -6 5 1.0 5.6	rimary energy		13.42	-4.2	9.8	12.8	13.9	1/.1	10.1	.0	2.6	.2	1	1.9	.0.	12.8
Computes and peripheral equipment 3341 3.5 13.2 19.4 1.6 1.0 9.902 1.6 1.0 -3.1 7 2.2 8 1.5 Communications equipment 3342 5.1 7.1 -3.0 3.9 -3.9 3.6 7.3 4.1 2.6 1.31 1. 2. 4.0 Semiconductors and related electronic components 3344 1.21 7.9 1.9 8.3 12.0 15.6 2.0 7. 2.2 9.9 -1.2 1. 1.5 7.5 Excluding selected high-technology industries 72.016 1.9 2.3 2.4 3.3 2.0 4.4 4. 3 32 1.1 1.0 3.0 Motor vehicles and parts 361-3 5.62 2.2 1.3 4.8 9.6 9.5 6.1 2.5 3.7 2.2 2.8 2.2 4.7 7.8 Motor vehicles 3361 2.72 1.5 -5.2 8.6 14.0 18.3 10.4 -3.9 5.5 4.3 -4.9 7.7 5.1 3.6 Motor vehicles and parts 3363 2.44 3.7 1.4 3.5 -3.3 1.8 1.0 1.2 8 1.0 1.1 1.0 1.1 7.7 1.4 Business equipment 8.00 -2.5 5.0 3.4 2.2 2.1 3.5 2.8 1.6 6 1.1 1.1 0.1 1.7 7.7 1.4 Business equipment 8.00 -2.5 5.0 3.4 2.2 5.7 0.8 1.1 2.1 7.7 7.8 3.3 -1 3.7 Construction supplies 5.30 -9 65 1.8 2.43 1.0 1.2 4.4 3.3 -1 1.7 7.7 1.4 Business supplies 6.309 65 1.8 2.43 1.0 1.2 1.7 7.7 8.8 3.3 -1 3.7 Construction supplies 97.9 38 3.0 4.0 5.2 4.8 6.8 3.0 1.9 5.5 1.1 3.3 -1 1.7 7.8 3.3 5.5 Manufacturing 77.4 5.5 3.5 1.7 4.3 -1.3 2.2 2.2 2.2 2.3 3.3 3.4 3.3 -1 1.1 1.1 3.2 2.4 1.0 1.3 3.5 1.3 3.5 Manufacturing 77.4 5.5 3.5 1.7 4.3 1.8 2.4 2.2 3.4 2.3 3.3 1.1 3.1 1.1 1.1 3.2 3.5 Manufacturing 77.4 5.5 3.5 1.8 2.4 2.2 3.4 2.3 3.3 3.4 3.3 1.1 3.3 3.5 3.5 Manufacturing 97.9 38 3.0 4.0 6.2 4.5 3.7 6.0 7.0 4.4 4.1 1.1 1.1 3.2 3.5 3.5 Manufacturing 99.4 387 3.3 4.0 6.2 4.5 3.7 6.5 7.0 6.7 0.4 4.4 1.1 3.7 Manufacturing 99.4 387 3.3 4.0 6.2 4.5 3.7 6.5 6.6 0.0 4.4 4.1 1.3 7.7 3.8 3.5 Manufacturing 99.4 3.57 3.3 4.0 6.2 4.5 3.7 6.5 6.6 0.0 4.4 4.1 1.3 7.7 3.8 3.5 Manufacturing 99.4 3.57 3.3 4.0 6.2 4.5 3.7 6.5 6.6 0.0 4.4 4.1 1.3 7.7 3.8 3.5 Manufacturing 99.4 3.55 3.3 4.0 6.2 4.5 3.7 6.5 6.5 0.0 4.4 4.1 1.3 7.7 3.8 3.5 Manufacturing 99.4 3.55 3.3 4.0 6.2 4.5 3.7 6.5 6.5 0.0 4.4 4.1 1.3 7.7 3.8 3.5 Manufacturing 99.4 3.55 3.3 4.0 6.2 4.5 3.7 6.5 6.5 0.0 4.4 4.1 1.3 7.7 3.8 3.5 Manufacturing 99.4 3.5 6.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9	Non-energy		74.08	3	1.9	2.4	2.5	3.6	1.9	.4	.4	.2	2	.1	1.0	3.1
Communications equipment 3342 51 7.1 3.0 3.9 3.9 3.9 3.6 7.3 4.1 2.6 1.3 -1 1 2 4.0	Selected high-technology industries		2.07	8.5	3.2	6.1	6.1	14.8	.5	1.1	1.8	7	6	.5	1.0	5.6
Semiconductors and related electronic components 3344 1.21 7.9 1.9 8.3 12.0 15.6 -2.0 7.7 2.2 -9 -1.2 1.1 1.5 7.5		3341	.35	13.2	19.4	1.6	1.0	-9.0				-3.1	.7			1.5
Excluding selected high-technology industries 72.01 6 1.9 2.3 2.4 3.3 2.0 4 4 3 2 1.1 1.0 3.0		3342	.51	7.1	-3.0	3.9	-3.9	33.6	7.3	4.1	2.6	1.3	1	.1	.2	4.0
Excluding selected high-technology industries 72.01 -6 1.9 2.3 2.4 3.3 2.0 4 4 3 2.5 3.0 4 4 3 -2.0 1.0 3.0 3.0 Motor vehicles and parts 3361-3 5.62 2.2 1.5 5.62 3.6 1.5 5.62 3.6 1.5 5.62 3.6 1.6 3.6 1.7 1.5 5.62 3.6 1.7 1.5 5.7 3.6 3.6 1.7 3.7 3.7 3.7 3.7 3.7 3.8 4.0 4.0 4.0 4.0 3.0 4.0 4.0 4.0		2244	1.21	7.0	1.0	0.2	12.0	15.6	2.0	7	2.2	0	1.0		1.5	1 75
industries 72.01 -6 1.9 2.3 2.4 3.3 2.0 4 4 3 -2 1 1.0 3.0 Motor vehicles and parts 3361-37 5.62 2.2 1.3 4.8 -9.6 9.5 6.1 -2.5 3.7 2.2 2.8 2.4 7.7 7.8 Motor vehicles 3361 2.72 1.5 -5.2 8.6 -14.0 18.3 10.4 -3.9 5.5 4.3 -4.9 7.7 7.5 13.6 Motor vehicles and parts 66.39 8 2.2 2.1 3.5 2.8 1.6 6 1.1 1.0 1.7 7.7 1.4 Excluding motor vehicles and parts 66.39 8 2.2 2.1 3.5 2.8 1.6 6 1.1 1.0 1.7 7.7 1.4 Excluding motor vehicles and parts 6.30 3.5 1.7 4.3 1.2 2.1 2.2 1.7 7.4 2.1	electronic components	3344	1.21	7.9	1.9	8.3	12.0	15.6	-2.0	./	2.2	9	-1.2	.1	1.5	7.5
Motor vehicles 3361 2.72 1.5 -5.2 8.6 -14.0 18.3 10.4 -3.9 5.5 4.3 4.9 7, 7.5 13.6 Motor vehicles and parts 3363 2.44 3.7 1.4 3.5 -3.3 7, 6.3 -2.2 2.9 6 -9 5 2.3 4.6 Excluding motor vehicles and parts 66.39 -8 2.2 2.1 3.5 2.8 1.0 1.2 -4 3. -1 -7 7, 7, 7, 7, 7, 7, 7,			72.01	6	1.9	2.3	2.4	3.3	2.0	.4	.4	.3	2	.1	1.0	3.0
Motor vehicles 3361 2.72 1.5 -5.2 8.6 -14.0 18.3 10.4 -3.9 5.5 4.3 4.9 7, 7.5 13.6 Motor vehicle parts 3363 2.44 3.7 1.4 3.5 -3.3 7, 6.3 -2.2 2.9 6 -9 5.5 2.3 4.6 Motor vehicles and parts 66.39 -8 2.2 2.1 3.5 2.8 1.6 6 1.1 1.0 1.1 7, 7, 7, 7, 7, 7, 7, 7	Motor vehicles and parts	3361-3	5.62	2.2	-1.3	4.8	-9.6	9.5	6.1	-2.5	3.7	2.2	-2.8	.2	4.7	7.8
Excluding motor vehicles and parts 66.39	Motor vehicles	3361	2.72	1.5	-5.2	8.6	-14.0	18.3	10.4	-3.9	5.5	4.3	-4.9		7.5	13.6
Consumer goods	Motor vehicle parts	3363	2.44	3.7	1.4	3.5	-3.3	.7	6.3	-2.2	2.9	.6	9	.5	2.3	4.6
Business equipment 8.00 -2.5 5.0 3.4 2.5 7.0 8.1 2.2 1.7 7.8 3.31 3.7 Construction supplies 5.10 5. 3.5 1.7 4.3 -1.322 374 2.2 1.6 2.1 Business supplies 6.309 65 1.8 -2.43 09 731 7. 8 3.5 1.7 4.3 -1.3 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Excluding motor vehicles and parts		66.39	8	2.2	2.1	3.5	2.8	1.6	.6	.1	.1	.0	.1	.7	2.6
Construction supplies				1		1.1	1			1					.7	
Business supplies Materials 6.30 -9 6 -5 1.8 -2.4 -3 0.0 -9 7 -3 -1 4 -1 A -1 -3 -7 -8 -3 -5 -7 -8 -8 -8 -8 -8 -8 -8 -8 -8																
Measures excluding selected high-technology industries Total industry 94.38 94.38 94.0 95.0																
high-technology industries Total industry 97.938 3.0 4.0 5.2 4.5 3.9 4. 8 2. 2. 4 3.3 3.9 Manufacturing¹ 73.453 1.8 2.4 2.2 3.4 2.3 .3 4. 31 1.1 1.1 3.2 Durable 35.669 1.8 4.2 1.8 5.2 5.92 1.4 62 5. 1.3 5.2 Measures excluding motor vehicles and parts Total industry 94.387 3.3 4.0 6.2 4.5 3.7 6. 7 0. 4 4. 1. 3.7 Manufacturing¹ 69.893 2.1 2.3 3.3 3.2 2.0 6. 2 1. 1. 1. 1. 8 2.9 Durable 32.118 2.4 4.3 4.2 5.1 5.5 3 1.0 2 3. 3. 5. 7 4.8 Measures excluding selected high-technology industries and motor vehicles and parts Total industry 92.31 -1.0 3.3 4.0 6.2 4.2 3.7 6. 6 0.0 4 4 1. 3.7 Manufacturing¹ 67.836 2.1 2.2 3.2 2.9 2.0 6 2.2 1.1 1.1 1.1 7.7 2.8 Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.01 1.12 3.8 1.2 4.8 3.7 3 1.0 0.01 7 7. 7 3.8							1									
Total industry 97,938 3.0 4.0 5.2 4.5 3.9 .4 8.8 .2 .2 .4 .3 3.9 Manufacturing 73,453 1.8 2.4 2.2 3.4 2.3 .3 4 31 1.1 1.1 3.2 Durable 35.669 1.8 4.2 1.8 5.2 5.92 1.4 .62 5.5 1.3 5.2 Measures excluding motor vehicles and parts Total industry 94,387 3.3 4.0 6.2 4.5 3.7 6 .7 0 4 4 .4 1. 3.7 Manufacturing 69.893 2.1 2.3 3.3 3.2 2.0 6 2 1. 1. 1 1.1 8.8 2.9 Durable 32.118 2.4 4.3 4.2 5.1 5.5 3.1.0 2 3. 5.5 .7 4.8 Measures excluding selected high-technology industries and motor vehicles and parts Total industry 92,31 -1.0 3.3 4.0 6.2 4.2 3.7 6 6 .6 0 4.2 1. 1.1 1.7 2.8 Manufacturing 67.836 2.1 2.2 3.2 2.9 2.0 6 2 1.1 1.1 1.1 3.7 Manufacturing 67.836 2.1 2.2 3.2 2.9 2.0 6 2 1.1 1.1 1.1 7.7 2.8 Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.01 1.12 3.8 1.2 4.8 3.7 3. 1.0 01 7.7 7. 3.8	Measures excluding selected															
Manufacturing¹ 73.453 1.8 2.4 2.2 3.4 2.3 .3 .4 .31 1.1 1.1 3.2 Durable 35.669 1.8 4.2 1.8 5.2 5.92 1.4 .62 5.5 1.3 5.2 Measures excluding motor vehicles and parts Total industry 94.387 3.3 4.0 6.2 4.5 3.7 .6 .7 .0 .4 .4 .1 3.7 Manufacturing¹ 69.893 2.1 2.3 3.3 3.2 2.0 .6 .2 .1 1.1 1.1 8.8 2.9 Durable 32.118 2.4 4.3 4.2 5.1 5.5 3 1.0 .2 3 5.5 .7 4.8 Measures excluding selected high-technology industries and motor vehicles and parts Total industry 92.31 -1.0 3.3 4.0 6.2 4.2 3.7 .6 6 .6 .0 .4 .4 .1 3.7 Manufacturing¹ 67.836 2.1 2.2 3.2 2.9 2.0 .6 .2 .1 1.1 .1 .1 .7 2.8 Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.01 .12 3.8 1.2 4.8 3.7 .3 1.0 .01 .7 .7 3.8			97.93	8	3.0	4.0	5.2	4.5	3.9	.4	.8	.2	.2	.4	.3	3.9
Measures excluding motor vehicles and parts Fotal industry 94.387 3.3 4.0 6.2 4.5 3.7 6.6 .7 0.0 .4 .4 .1 3.7 Manufacturing¹ 69.893 2.1 2.3 3.3 3.2 2.0 6.6 .2 .1 1.1 1.1 .8 2.9 Durable Measures excluding selected high-technology industries and motor vehicles and parts Fotal industry 92.31 -1.0 3.3 4.0 6.2 4.2 3.7 6.6 6.0 .4 .4 .1 3.7 Manufacturing¹ 67.836 2.1 2.2 3.2 2.9 2.0 6.6 .2 .1 1.1 .1 .1 .8 2.9 Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.01 1.12 3.8 1.2 4.8 3.7 3. 1.0 0.01 .7 .7 3.8			73.45	3	1.8	2.4	2.2	3.4		.3			1			3.2
and parts Total industry 94.387 3.3 4.0 6.2 4.5 3.7 .6 .7 .0 .4 .4 .1 3.7 Manufacturing 1 69.893 2.1 2.3 3.3 3.2 2.0 .6 .2 .1 .1 .1 .1 .8 2.9 Durable Measures excluding selected high-technology industries and motor vehicles and parts Total industry 92.31 -1.0 3.3 4.0 6.2 4.2 3.7 .6 .6 .6 .0 .4 .4 .1 3.7 Manufacturing 1 67.836 2.1 2.2 3.2 2.9 2.0 .6 .2 .1 .1 .1 .1 .7 2.8 Mage-of-process components of non-energy materials, measures of the input to Ginished processors 10.01 .12 3.8 1.2 4.8 3.7 .3 1.0 .01 .7 .7 3.8	Durable		35.66	9	1.8	4.2	1.8	5.2	5.9	2	1.4	.6	2	.5	1.3	5.2
Manufacturing 1 69.893 2.1 2.3 3.3 3.2 2.0 .6 .2 .1 .1 .1 .1 .8 2.9 Durable 32.118 2.4 4.3 4.2 5.1 5.5 .3 1.0 2 .3 .5 .7 4.8 Measures excluding selected high-technology industries and motor vehicles and parts Total industry 92.31 -1.0 3.3 4.0 6.2 4.2 3.7 .6 .6 .0 .4 .4 .1 3.7 Manufacturing 1 67.836 2.1 2.2 3.2 2.9 2.0 .6 .2 .1 .1 .1 .1 .7 2.8 Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.01 .12 3.8 1.2 4.8 3.7 .3 1.0 .01 .7 .7 3.8																
Durable 32.118 2.4 4.3 4.2 5.1 5.5 .3 1.0 .2 .3 .5 .7 4.8 Measures excluding selected high-technology industries and motor vehicles and parts Total industry 92.31 -1.0 3.3 4.0 6.2 4.2 3.7 .6 .6 .0 .4 .4 .1 3.7 Manufacturing 67.836 2.1 2.2 3.2 2.9 2.0 .6 .2 .1 .1 .1 .1 .7 2.8 Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.01 .12 3.8 1.2 4.8 3.7 .3 1.0 .01 .7 .7 3.8																
Measures excluding selected high-technology industries and motor vehicles and parts Fotal industry 92.31 -1.0 3.3 4.0 6.2 4.2 3.7 6. 6. 6. 0 .4 .4 .1 3.7 Manufacturing 67.836 2.1 2.2 3.2 2.9 2.0 .6 .2 .1 .1 .1 .7 2.8 Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.01 .12 3.8 1.2 4.8 3.7 .3 1.0 .01 .7 .7 3.8																
high-technology industries and motor vehicles and parts Total industry Manufacturing 67.83			32.11	0	∠.+	+.3	7.2	J.1	5.5	ر.	1.0	.4		ر.	. /	7.0
and motor vehicles and parts Total industry 92.31 -1.0 3.3 4.0 6.2 4.2 3.7 .6 .6 .0 .4 .4 .1 3.7 Manufacturing¹ 67.836 2.1 2.2 3.2 2.9 2.0 .6 .2 .1 .1 .1 .1 .7 2.8 Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.01 .12 3.8 1.2 4.8 3.7 .3 1.0 .01 .7 .7 3.8																
Total industry 92.31 -1.0 3.3 4.0 6.2 4.2 3.7 .6 .6 .0 .4 .4 .1 3.7 Manufacturing 67.836 2.1 2.2 3.2 2.9 2.0 .6 .2 .1 .1 .1 .7 2.8 Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.01 .12 3.8 1.2 4.8 3.7 .3 1.0 .01 .7 .7 3.8																
Manufacturing 1 67.836 2.1 2.2 3.2 2.9 2.0 .6 .2 .1 .1 .1 .7 2.8 Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.01 .12 3.8 1.2 4.8 3.7 .3 1.0 .01 .7 .7 3.8			92.31	-1.0	3.3	4.0	6.2	4.2	3.7	.6	.6	.0	.4	.4	.1	3.7
of non-energy materials, measures of the input to Finished processors 10.01 .12 3.8 1.2 4.8 3.7 .3 1.0 .01 .7 .7 3.8												.1	.1	.1		
	of non-energy materials, measures of the input to		10.01	.1	2	3.8	1.2	4.8	3.7	.3	1.0	.0	1	.7	.7	3.8
	Primary and semifinished processors		17.57		3.6	2.5		2.3	1.2		.1				1.1	

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

willions of units, seasonally adjusted aimual rate											
	2018	2018				2018					
Item	average	Q1	Q2	Q3	Q4	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total	11.29	11.45	11.00	11.14	11.60	10.42	11.34	11.67	11.26	11.33	12.22
Autos	2.78	2.88	2.77	2.55	2.86	2.40	2.48	2.77	2.84	2.75	3.00
Trucks	8.52	8.57	8.22	8.59	8.74	8.02	8.86	8.89	8.42	8.58	9.22
Light	8.19	8.26	7.92	8.24	8.40	7.66	8.53	8.54	8.08	8.24	8.87
Medium and heavy	.33	.31	.30	.35	.35	.36	.33	.35	.35	.35	.35
Memo Autos and light trucks	10.97	11.14	10.69	10.80	11.26	10.06	11.01	11.31	10.92	10.99	11.87

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

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1. Refer to note on cover page.

012 = 100, seasonally adjusted		- co:-	1 2011								
Item		2017 proportion	2018 Apr.	May	June	July ^r	Aug.r	Sept.r	Oct.r	Nov.r	Dec.p
Total IP		100.00	107.7	106.8	107.4	107.9	108.8	108.9	109.1	109.6	109.9
Market Groups											
Final products and nonindustrial supplies		54.37	104.6	102.8	103.5	103.6	104.2	104.5	105.0	104.7	105.0
Consumer goods		28.03	107.4	104.6	105.3	105.5	106.0	106.2	107.0	106.3	106.3
Durable		6.35	121.0	116.0	119.8	119.2	121.7	123.3	121.6	121.6	124.9
Automotive products		3.31	135.5	125.2	133.0	130.2	135.8	138.1	134.5	134.7	141.2
Home electronics		.14	112.0	110.8	112.3	116.2	115.8	116.4	119.6	121.1	121.7
Appliances, furniture, carpeting		.88	107.8	106.9	107.1	109.0	107.2	108.0	108.3	109.2	109.6
Miscellaneous goods Nondurable		2.02 21.68	108.2 103.9	108.3 101.7	108.3 101.6	109.3 102.1	109.7 102.0	110.7 102.0	110.5 103.3	109.8 102.4	110.1 101.6
Non-energy		16.70	100.7	99.8	99.6	102.1	102.0	102.0	100.3	99.5	100.2
Foods and tobacco		9.65	100.7	108.2	108.3	109.8	108.6	108.9	108.4	107.2	108.1
Clothing		.20	74.5	73.7	71.2	74.1	71.8	70.5	69.4	68.3	68.6
Chemical products		5.29	91.5	91.4	91.4	92.5	92.4	92.4	92.4	92.2	92.8
Paper products		1.12	84.7	82.5	79.5	79.3	81.1	82.7	83.9	83.0	83.3
Energy		4.98	114.4	107.7	107.7	105.8	107.2	106.5	112.7	111.9	105.7
Business equipment		9.51	99.6	97.5	99.5	99.7	101.2	102.3	102.6	102.9	103.4
Transit		2.46	111.6	105.1	112.1	111.1	112.3	115.5	113.3	114.0	117.2
Information processing		2.13	106.9	106.0	106.8	108.5	108.0	108.1	107.9	108.4	109.8 95.2
Industrial and other Defense and space equipment		4.92 2.12	91.9	91.0 89.5	91.4 90.4	91.5 91.3	94.1 92.5	94.7 93.9	96.2 93.8	96.2 94.6	95.2
Detense and space equipment									93.8		
Construction supplies Business supplies		5.12 8.98	114.3 104.3	114.7 103.6	114.2 103.8	114.1 103.5	114.4 103.3	113.7 103.2	113.3 103.9	113.5 103.8	115.3 103.3
Materials		45.63	110.9	111.2	111.7	112.6	113.9	113.9	113.7	115.0	115.5
Non-energy		27.58	105.2	104.7	105.4	105.7	106.1	105.9	105.7	106.4	107.4
Durable		16.31	106.7	105.8	106.5	106.6	107.1	107.4	107.1	108.1	109.3
Consumer parts		2.99	113.4	109.0	111.4	109.8	112.0	112.3	111.7	113.6	115.6
Equipment parts		4.79	105.5	105.4	106.2	107.0	108.6	108.5	108.2	108.8	109.6
Other Nondurable		8.53 11.27	105.2 102.9	104.8 103.0	105.0 103.5	105.2 104.3	104.7 104.5	105.2 103.5	105.0 103.4	105.9 103.7	107.0 104.4
Textile		.35	94.0	93.4	94.1	93.0	96.4	93.9	97.9	98.2	96.5
Paper		1.88	93.0	93.0	92.3	94.4	92.3	92.7	92.8	92.5	91.6
Chemical		5.78	103.0	103.8	105.2	105.3	106.4	104.8	104.5	105.5	106.7
Energy		18.05	117.7	119.2	119.7	121.4	124.0	124.3	124.2	126.3	126.1
INDUSTRY GROUPS											
Manufacturing		75.52	104.3	103.3	104.0	104.4	104.9	105.1	105.0	105.0	106.2
Manufacturing (NAICS)	31–33	73.44	105.2	104.2	105.0	105.5	106.0	106.2	106.0	106.1	107.3
Durable manufacturing	221	37.57	106.3	104.7	106.1	106.0	107.5	108.1	107.9	108.4	109.8
Wood products Nonmetallic mineral products	321 327	1.42 2.20	125.9 121.4	125.4 121.1	125.4 119.8	124.3 120.1	126.4 119.8	126.7 118.0	123.7 119.0	123.4 117.9	125.6 121.2
Primary metals	331	2.63	96.8	96.5	95.9	95.3	97.0	97.8	98.7	102.1	102.7
Fabricated metal products	332	5.45	102.0	101.7	103.0	102.7	103.4	103.5	103.7	104.0	104.1
Machinery	333	5.30	91.0	90.1	90.8	91.2	94.0	94.4	95.1	96.1	95.5
Computer and electronic products	334	4.88	118.8	118.4	119.7	121.5	121.7	121.7	121.3	121.8	123.4
Electrical equip., appliances,					4		4				
and components	335	1.82	103.7	103.6	104.6	105.5	105.3	105.4	104.7	105.0	105.2
Motor vehicles and parts Aerospace and miscellaneous	3361–3	5.62	130.0	118.9	127.4	124.3	128.9	131.7	128.0	128.2	134.3
Aerospace and miscellaneous transportation equipment	3364–9	4.32	97.5	97.2	98.0	98.5	99.6	100.5	100.6	101.7	103.5
Furniture and related products	3304–9	1.19	103.5	104.2	103.9	104.5	103.7	100.3	106.4	101.7	105.3
Miscellaneous	339	2.74	95.7	96.9	95.8	95.8	96.3	96.0	97.5	96.5	96.4
Nondurable manufacturing		35.87	103.9	103.6	103.9	104.8	104.4	104.2	104.1	103.8	104.7
Food, beverage, and tobacco products	311,2	11.70	111.2	110.1	110.2	111.7	110.7	110.8	110.2	109.1	110.1
Textile and product mills	313,4	.65	99.2	98.1	98.9	98.6	100.4	98.5	100.7	100.2	99.6
Apparel and leather	315,6	.21	75.7	74.8	72.3	75.1	72.8	71.5	70.5	69.4	69.8
Paper	322	2.50	96.9	96.1	95.3	97.0	95.8	95.7	96.3	95.8	95.6
Printing and support	323	1.41	97.5	98.0	98.2	98.6	96.2	97.7	96.8	95.8	95.9
Petroleum and coal products	324 325	3.41 12.38	106.7	107.5 98.9	108.3 99.3	107.1	108.0	107.5 99.6	107.3 99.7	104.7	108.4
Chemicals Plastics and rubber products	325	3.60	98.5 109.2	107.5	107.7	100.2 109.3	100.2 108.5	109.1	109.1	100.5 110.2	101.0 110.7
Other manufacturing (non-NAICS)	1133,5111	2.07	79.5	77.6	74.4	73.7	73.7	74.7	75.2	74.3	74.5
Mining	21	14.12	119.5	120.7	122.8	123.8	126.6	127.3	127.1	128.5	130.5
Utilities	2211,2	10.36	108.5	105.7	104.1	104.2	105.4	104.1	107.5	108.9	102.0
Electric	2211	9.00	103.6	106.3	103.9	103.8	105.3	103.4	104.2	105.5	101.1 109.3
Natural gas	2212	1.37	143.2	102.5	106.4	108.2	107.3	109.6	130.7	132.4	

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

 Table 5

 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

 2012 = 100, seasonally adjusted

012 = 100, scasonarry adjusted											
Item		2017 proportion	2018 Apr.	May	June	July ^r	Aug.r	Sept.r	Oct.r	Nov.r	Dec.p
Total industry		100.00	107.7	106.8	107.4	107.9	108.8	108.9	109.1	109.6	109.9
Energy		25.92	115.6	115.2	115.6	116.2	118.4	118.2	119.8	121.0	119.4
Consumer products		4.98	114.4	107.7	107.7	105.8	107.2	106.5	112.7	111.9	105.7
Commercial products	212111	2.37	112.7	110.1	111.4	110.2	111.8	109.4	113.0	113.1	109.9
Oil and gas well drilling	213111	.52	75.3	78.2	80.5	77.0	76.6	75.6	76.8	76.8	76.6
Converted fuel		4.63	101.8	103.1	99.4	103.6	104.1	104.5	104.5	105.3	102.9
Primary energy		13.42	122.1	123.8	125.8	126.6	129.9	130.2	130.1	132.6	133.3
Non-energy		74.08	104.4	103.3	104.0	104.4	104.9	105.1	104.9	105.0	106.1
Selected high-technology industries		2.07	145.4	145.4	148.6	150.2	152.9	151.8	150.8	151.5	153.1
Computers and peripheral equipment	3341	.35	146.9	143.5	147.3	144.9	143.5	139.1	140.0	143.1	144.2
Communications equipment	3342	.51	117.2	116.5	118.8	123.6	126.9	128.5	128.4	128.5	128.8
Semiconductors and related											
electronic components	3344	1.21	157.9	159.2	162.7	163.9	167.5	166.1	164.0	164.2	166.7
Excluding selected high-technology											
industries		72.01	103.0	102.0	102.7	103.0	103.4	103.7	103.5	103.6	104.6
Motor vehicles and parts	3361-3	5.62	130.0	118.9	127.4	124.3	128.9	131.7	128.0	128.2	134.3
Motor vehicles	3361	2.72	129.6	112.3	126.9	121.9	128.7	134.1	127.6	128.5	138.2
Motor vehicle parts	3363	2.44	130.3	125.2	128.2	125.4	129.1	129.9	128.6	129.3	132.3
Excluding motor vehicles and parts		66.39	101.2	100.8	100.9	101.5	101.7	101.8	101.8	101.9	102.6
Consumer goods		20.11	101.9	101.1	101.0	102.2	101.8	102.1	102.0	101.3	102.0
Business equipment		8.00	95.9	95.1	95.7	96.0	97.6	98.2	99.0	99.3	99.1
Construction supplies		5.10	114.3	114.7	114.2	114.0	114.4	113.6	113.2	113.4	115.2
Business supplies		6.30	97.8	97.7	97.5	97.4	96.5	97.2	96.9	96.8	97.2
Materials		24.73	101.9	101.8	102.2	102.7	102.8	102.6	102.5	103.2	104.0
Measures excluding selected high-technology											
industries											
Total industry		97.93	106.8	105.9	106.5	107.0	107.8	108.0	108.2	108.6	109.0
Manufacturing ¹		73.45	103.0	102.0	102.6	103.0	103.4	103.7	103.6	103.7	104.7
Durable		35.66	103.8	102.1	103.5	103.3	104.7	105.4	105.2	105.7	107.1
Measures excluding motor vehicles and parts											
Total industry		94.38	106.6	106.2	106.5	107.1	107.8	107.9	108.3	108.7	108.8
Manufacturing ¹		69.89	102.6	102.2	102.5	103.1	103.3	103.4	103.4	103.5	104.3
Durable		32.11	103.0	102.7	103.2	103.5	104.5	104.8	105.0	105.6	106.3
Measures excluding selected high-technology											
industries and motor vehicles and parts											
Total industry		92.31	105.7	105.3	105.5	106.1	106.8	106.8	107.3	107.7	107.8
Manufacturing ¹		67.83	101.1	100.8	101.0	101.5	101.7	101.8	101.9	102.0	102.7
Stage-of-process components of non-energy											
materials, measures of the input to											
Finished processors		10.01	104.7	103.4	104.4	104.7	105.8	105.8	105.6	106.4	107.1
Primary and semifinished processors		17.57	105.4	105.4	105.8	106.2	106.3	105.9	105.6	106.3	107.1
and committee processors		17.07	103.1	100.0	100.0	100.2	100.5	100.9	100.0	100.5	237.1

Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2016	53.7	45.3	45.0	42.3	50.0	47.7	52.0	45.3	54.3	60.3	52.0	58.7
2017	60.0	51.3	47.0	65.3	43.7	57.7	51.0	52.3	55.7	63.0	54.0	59.0
2018	50.3	63.0	48.7	62.3	44.0	58.3	55.8	51.7	58.0	51.0	51.3	
Three months earlier												
2016	50.7	48.3	48.7	37.3	43.3	48.7	56.3	46.7	56.0	58.3	57.0	59.3
2017	55.7	61.0	52.3	57.7	45.3	56.0	48.0	50.3	56.3	63.0	69.0	64.0
2018	55.7	67.3	54.7	69.0	45.7	55.7	53.0	65.0	57.3	53.3	48.3	
Six months earlier												
2016	47.7	41.0	39.7	38.3	43.0	48.7	44.7	45.7	52.0	58.3	54.7	58.3
2017	57.0	64.3	55.7	60.0	56.0	56.3	49.3	50.0	58.7	53.0	61.0	63.3
2018	61.3	69.3	63.3	67.3	56.7	58.0	65.0	55.7	57.3	52.3	60.7	

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

r Revised. p Preliminary.

1. Refer to note on cover page.

Table 7
CAPACITY UTILIZATION
Percent of capacity, seasonally adjusted

Item		2017	1972- 2017	1994- 95	2009	2018			2018					
		proportion	ave.	high	low	Q2	Q3 ^r	Q4 ^p	July ^r	Aug.r	Sept.r	Oct.r	Nov. ^r	Dec.
Total industry		100.00	79.8	85.0	66.7	77.8	78.3	78.6	78.0	78.5	78.4	78.4	78.6	78.
Manufacturing ¹		77.37	78.3	84.6	63.7	75.5	75.9	76.1	75.7	76.0	76.1	75.9	75.8	76.
Manufacturing (NAICS)	31-33	74.76	78.2	84.7	63.5	76.1	76.5	76.7	76.3	76.6	76.7	76.4	76.4	77.
Durable manufacturing		39.10	76.9	83.8	58.3	75.2	76.0	76.8	75.2	76.2	76.5	76.3	76.6	77.
Wood products	321	1.39	76.5	86.6	47.7	78.2	77.6	75.8	76.9	78.0	77.8	75.8	75.3	76.
Nonmetallic mineral products	327	2.60	73.8	82.4	45.6	66.5	65.2	64.7	65.8	65.5	64.3	64.7	63.9	65
Primary metals	331	2.93	78.3	94.1	49.7	69.7	70.1	73.5	69.0	70.3	71.0	71.6	74.2	74
Fabricated metal products	332	5.42	77.5	84.9	61.9	80.9	81.4	81.7	81.0	81.5	81.5	81.6	81.7	81
Machinery	333	5.64	77.5	87.2	59.0	76.1	78.4	80.6	76.7	79.1	79.6	80.2	81.1	80
Computer and electronic products	334	5.47	77.5	84.4	70.3	71.5	72.3	72.0	72.5	72.4	72.1	71.7	71.7	72
Electrical equip., appliances,														
and components	335	1.82	82.2	92.7	66.8	76.8	77.4	76.6	77.7	77.3	77.2	76.6	76.7	76.
Motor vehicles and parts	3361-3	5.59	75.2	87.7	33.7	77.1	78.7	79.6	76.3	79.0	80.7	78.4	78.4	82
Aerospace and miscellaneous														
transportation equipment	3364-9	4.36	74.2	70.4	73.0	75.3	76.8	78.6	76.0	76.8	77.5	77.6	78.5	79
Furniture and related products	337	1.20	76.7	82.7	55.8	75.3	75.4	76.4	75.5	74.9	75.9	76.6	76.3	76
Miscellaneous	339	2.67	76.6	81.3	68.4	77.4	76.9	77.1	76.9	77.1	76.8	77.8	76.8	76
Nondurable manufacturing		35.66	80.1	86.0	69.0	77.1	77.4	76.9	77.7	77.3	77.1	76.9	76.6	77
Food, beverage, and tobacco products	311,2	11.80	80.6	85.4	75.2	77.1	77.1	75.8	77.7	76.8	76.8	76.2	75.3	75
Textile and product mills	313,4	.73	78.8	91.8	54.0	69.8	70.2	70.9	69.7	71.0	69.7	71.3	71.0	70
Apparel and leather	315,6	.25	76.3	86.9	56.4	67.2	66.7	64.3	68.3	66.4	65.4	64.7	63.8	64
Paper	322	2.21	86.7	92.7	72.9	86.5	86.9	86.9	87.5	86.6	86.5	87.1	86.8	86
Printing and support	323	1.48	79.6	84.9	58.8	73.9	73.5	72.4	74.3	72.5	73.7	72.9	72.2	72
Petroleum and coal products	324	3.05	85.1	91.0	76.3	79.0	78.6	77.8	78.4	79.0	78.5	78.2	76.3	79
Chemicals	325	12.79	76.8	82.0	65.4	75.4	76.2	76.5	76.4	76.4	75.9	75.9	76.5	76
Plastics and rubber products	326	3.35	82.1	93.2	57.5	79.3	79.1	78.9	79.6	78.7	78.9	78.5	79.0	79
Other manufacturing (non-NAICS)	1133,5111	2.61	80.0	83.2	68.3	59.3	57.3	58.2	56.9	57.1	57.9	58.4	57.9	58
Mining	21	12.26	87.0	88.6	78.2	91.2	93.4	94.0	92.3	93.9	93.9	93.3	93.9	94
Utilities	2211,2	10.37	85.3	92.9	78.3	78.9	77.4	78.2	77.3	78.0	76.9	79.3	80.2	75
Selected high-technology industries		2.32	77.4	86.6	71.1	73.4	74.9	73.9	74.5	75.5	74.6	73.7	73.7	74
Computers and peripheral equipment	3341	.30	78.0	88.0	83.0	92.4	87.0	83.7	89.5	87.6	83.8	83.3	84.1	83
Communications equipment	3342	.63	76.4	86.0	77.2	60.3	64.1	64.5	62.9	64.4	64.9	64.7	64.5	64
Semiconductors and related														
electronic components	3344	1.39	78.6	91.8	62.9	75.2	77.2	76.1	76.6	78.0	77.1	75.9	75.7	76
Measures excluding selected high-technology industries														
Total industry		97.68	80.0	84.9	66.5	77.9	78.4	78.7	78.1	78.6	78.5	78.6	78.7	78
Manufacturing ¹		75.05	78.4	84.5	63.3	75.6	76.0	76.2	75.8	76.0	76.2	76.0	75.9	76
STAGE-OF-PROCESS GROUPS		16.40	06.0	00.0	76.4	00.2	01.7	02.1	00.6	01.0	01.0	01.4	02.1	
Crude		16.40	86.0	90.0	76.4 63.8	89.2	91.5 76.0	92.1	90.6 75.9	91.9 76.3	91.9 75.9	91.4	92.1	92
					620	165	16 ()	16- 2	/5 ()	163	75 ()		166	76
Primary and semifinished Finished		44.89 38.71	80.4 76.9	87.7 80.7	66.6	76.5 74.5	75.4	76.3 75.6	75.0	75.3	75.7	76.3 75.5	76.6 75.2	76 76

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1. Refer to note on cover page.

Table 8 INDUSTRIAL CAPACITY

Percent change

													Monthly
	1	Average ar	nnual rate		Fourth	quarter to	o fourth o	quarter		Annual	rate		rate
Item	1972-	1980-	1989-	1995-					2018				2018
	79	88	94	2018	2015	2016	2017	2018	Q1	Q2	Q3	Q4	Dec.
Total industry	3.0	1.9	2.3	2.0	.8	.6	.6	2.0	1.6	2.0	2.2	2.2	.2
Manufacturing ¹	3.2	2.2	2.6	2.0	3	1.3	.7	1.3	1.1	1.3	1.5	1.4	.1
Mining Utilities	.7 4.4	.1 2.2	7 1.8	1.2 1.7	.9 .4	-3.1 1.6	-1.0 1.8	5.7 2.0	4.1 1.8	5.7 1.9	6.5 2.1	6.5 2.2	.5 .2
Selected high-technology industries	18.6	16.7	16.0	17.8	3.3	7.4	3.2	5.5	4.5	5.5	6.0	5.9	.5
Manufacturing ¹ ex. selected high-technology industries	2.6	1.3	1.6	.8	4	1.1	.7	1.2	1.0	1.2	1.3	1.3	.1
STAGE-OF-PROCESS GROUPS Crude	1.5	.4	5	1.1	.4	-2.4	5	4.1	3.0	4.1	4.6	4.7	.4
Primary and semifinished	3.0	1.3	2.5	2.2	2	1.7	.7	1.4	1.1	1.4	1.6	1.6	.1
Finished	3.9	3.3	2.8	1.9	.1	1.0	1.1	1.3	1.2	1.3	1.3	1.3	.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

			2018			2018					
Item	2009	2018	Q2	Q3 ^r	Q4 ^p	July ^r	Aug.r	Sept.r	Oct.r	Nov.r	Dec.
Final products and nonindustrial											
supplies	3,235.9	3,729.2	3,713.9	3,732.7	3,763.5	3,707.5	3,738.8	3,751.7	3,764.8	3,750.2	3,775.6
Final products	2,409.2	2,769.9	2,754.0	2,774.6	2,802.5	2,749.8	2,779.0	2,794.8	2,805.0	2,790.7	2,811.8
Consumer goods	1,780.9	1,998.7	1,994.8	1,997.4	2,009.4	1,984.4	2,001.3	2,006.3	2,016.1	1,999.8	2,012.2
Durable	342.0	511.8	504.2	513.7	521.8	500.9	515.3	525.0	515.3	515.5	534.0
Automotive products	188.1	338.0	332.1	339.4	346.4	326.7	341.6	349.9	340.2	340.4	358.
Other durable goods	153.9	173.5	171.9	174.0	175.0	174.0	173.4	174.8	174.8	174.8	175.
Nondurable	1,438.9	1,502.7	1,505.6	1,499.6	1,504.2	1,498.4	1,502.1	1,498.3	1,516.6	1,500.4	1,495.
Equipment, total	628.4	778.2	765.0	784.8	801.9	772.3	785.3	797.0	797.0	799.9	809.
Business and defense	609.7	755.8	741.9	762.4	779.5	749.9	762.4	774.8	774.6	777.4	786.
Business	492.9	643.2	631.6	648.7	662.3	637.8	648.8	659.4	659.2	660.8	667.
Defense and space	116.8	113.3	111.0	114.4	117.9	112.8	114.4	116.1	116.2	117.3	120.
Nonindustrial supplies	826.6	960.5	961.6	959.1	961.6	959.3	960.8	957.3	960.2	960.2	964.
Construction supplies	232.1	295.9	295.9	295.8	296.5	295.4	296.8	295.3	294.2	295.5	299.
Business supplies	594.5	664.2	665.3	662.8	664.5	663.4	663.4	661.5	665.7	664.3	663.
Commercial energy products	218.3	243.4	243.8	242.1	243.9	241.8	244.4	240.2	245.4	244.7	241.

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

Percent change, seasonally adjusted														
		Fou	rth quarte	er to										
		fo	urth quar	ter	1	Annual r	ate			Month	ly rate			Dec. '17
Item	2017				2018			2018						to
	gross value ¹	2016	2017	2018	Q2	Q3 ^r	Q4 ^p	July ^r	Aug.r	Sept.r	Oct.r	Nov.r	Dec.p	Dec. '18
Finished	2,130.9	2	2.0	3.4	.1	6.4	3.2	.2	1.0	.8	4	3	1.6	4.3
Semifinished	1,906.1	.7	1.4	2.0	2.9	.4	1.4	.0	.7	6	.1	.6	.0	1.9
Primary	1,452.4	1.9	2.3	2.4	6.2	-1.0	4.8	3	.7	1	1.0	.2	3	1.4
Crude	734.4	-2.0	5.8	8.1	14.8	13.1	4.8	1.0	1.4	.2	4	.9	1.1	8.7

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^{1.} Billions of 2009 dollars.

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

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ¹																	
996	7	1.6	1	.9	.7	.8	1	.6	.7	1	.9	.7	2.7	8.9	5.3	5.7	4.5
1997	.1	1.2	.7	.0	.6	.5	.8	1.0	.9	.9	.9	.3	7.9	5.9	9.5	10.5	7.2
1998	.5	.1	.1	.4	.6	6	3	2.1	2	.8	1	.4	4.6	2.7	3.0	5.9	5.8
1999 2000	.5	.5	.2	.3	.7 .2	2 .1	.6 1	.4 3	4 .4	1.3	.5	.8 3	4.5 4.1	3.9 5.0	3.6	7.3 9	4.4 3.9
2001 2002	6 .6	6	3 .8	3 .4	6 .4	6 1.0	6 2	1 .0	4 .1	4 3	5 .5	.0 5	-5.1 3.0	-5.0 6.3	-5.4 2.3	-4.1 1	-3.1
2003	.6	.3	2	7	.0	.2	.4	2	.6	.1	.8	1	2.3	-2.7	2.6	4.0	1.3
2004	.3	.6	5	.4	.8	8	.8	.1	.1	.9	.2	.7	2.8	2.3	2.3	5.8	2.7
2005	.5	.7	1	.2	.1	.4	3	.3	-1.9	1.3	1.0	.6	5.9	2.0	-1.8	3.9	3.3
2006	.1	.0	.2	.4	1	.4	.0	.4	2	1	1	1.1	3.8	2.4	1.5	.9	2.3
2007	5	1.0	.2	.7	.0	.0	.0	.2	.4	4	.6	.0	3.6	5.0	1.0	1.2	2.5
2008	3	3	2	8	6	2	5	-1.5	-4.3	1.0	-1.3	-2.9	-1.4	-5.8	-12.6	-16.0	-3.5
2009	-2.4	7	-1.6	8	-1.0	4	1.1	1.1	.8	.3	.4	.3	-20.7	-10.9	6.2	6.5	-11.5
2010	1.2	.4	.7	.4	1.4	.1	.4	.3	.2	3	.0	.9	8.1	8.0	5.3	1.3	5.5
2011 2012	1 .6	4	1.0 5	3 .8	.2	.3	.5	.6 4	1 .0	.7	1 .5	.5	2.3 4.0	1.6 2.6	4.7	4.1 2.1	3.1
2012	.0	.3 .5	5 .4	.8 1	.2	.0	.3 5	4 .7	.0 .5	.2 1	.3	.3	3.3	2.6 1.7	1.2	3.0	2.0
2014	5	.9	1.0	.1	.3	.3	.1	1	.3	.0	.8	1	3.0	5.7	2.1	2.7	3.1
2015	6	4	3	5	5	4	.5	1	4	4	6	5	-3.2	-5.0	3	-4.7	-1.0
2016	.7	7	8	.2	1	.3	.2	1	1	.1	2	.9	-1.9	-2.1	1.1	.7	-1.9
2017	2	4	.6	1.0	.0	.1	1	4	.0	1.5	.5	.5	1.0	5.0	-1.5	7.7	1.6
2018	3	.5	.5	1.1	8	.6	.4	.8	.1	.2	.4	.3	2.5	5.2	4.7	3.8	4.1
IP (2012=100)																	
2016	103.0	102.3	101.5	101.7	101.6	101.9	102.1	102.1	101.9	102.1	101.8	102.8	102.3	101.8	102.0	102.2	102.1
2017	102.5	102.2	102.7	103.7	103.7	103.8	103.6	103.2	103.2	104.8	105.3	105.8	102.5	103.7	103.3	105.3	103.7
2018	105.4	105.9	106.4	107.7	106.8	107.4	107.9	108.8	108.9	109.1	109.6	109.9	105.9	107.3	108.5	109.6	107.9
Capacity (percent of 2012 output)																	
2016	135.1	135.2	135.2	135.3	135.4	135.5	135.5	135.6	135.7	135.8	135.8	135.9	135.2	135.4	135.6	135.8	135.5
2017	135.9	136.0	136.0	136.0	136.1	136.1	136.2	136.3	136.4	136.5	136.6	136.8	136.0	136.1	136.3	136.6	136.2
2018	137.0	137.2	137.4	137.6	137.9	138.1	138.4	138.6	138.9	139.1	139.4	139.6	137.2	137.9	138.6	139.4	138.3
Utilization																	
(percent)	02.5	02.4	02.0	02.2	02.5	02.0	02.2	02.4	02.6	02.1	02.4	02.6	02.0	02.7	02.4	02.4	02.2
1996	82.5	83.4	82.9	83.3	83.5	83.8	83.3	83.4	83.6	83.1	83.4	83.6	82.9	83.5	83.4	83.4	83.3
1997 1998	83.3 84.3	83.9 83.9	84.0 83.4	83.6 83.2	83.6 83.2	83.6 82.2	83.7 81.4	84.1 82.6	84.4 82.1	84.6 82.3	84.7 81.9	84.5 81.8	83.7 83.9	83.6 82.8	84.1 82.0	84.6 82.0	84.0 82.7
1999	81.8	81.9	81.7	81.6	81.8	81.4	81.6	81.6	81.0	81.8	81.9	82.2	81.8	81.6	81.4	81.9	81.7
2000	81.9	81.9	81.9	82.2	82.1	81.9	81.5	81.0	81.1	80.6	80.3	79.9	81.9	82.1	81.2	80.2	81.4
2001	79.1	78.4	77.9	77.5	76.8	76.1	75.5	75.2	74.8	74.3	73.8	73.6	78.5	76.8	75.2	73.9	76.1
2002	74.0	73.8	74.3	74.6	74.8	75.5	75.3	75.2	75.3	75.1	75.5	75.2	74.1	74.9	75.3	75.3	74.9
2003	75.6	75.9	75.8	75.3	75.3	75.5	75.8	75.7	76.2	76.3	76.9	76.8	75.8	75.3	75.9	76.7	75.9
2004	77.1	77.5	77.2	77.5	78.1	77.5	78.1	78.2	78.2	78.9	79.1	79.6	77.3	77.7	78.2	79.2	78.1
2005	79.9	80.4	80.2	80.2	80.2	80.4	80.1	80.2	78.6	79.5	80.2	80.6	80.2	80.3	79.6	80.1	80.0
2006	80.5	80.4	80.5	80.7	80.5	80.7	80.5	80.7	80.3	80.1	79.9	80.5	80.5	80.6	80.5	80.2	80.4
2007	79.9	80.5	80.5	80.9	80.8	80.7	80.6	80.7	80.9	80.6	81.0	81.1	80.3	80.8	80.7	80.9	80.7
2008	80.9	80.7	80.6	80.0	79.6	79.4	79.0	77.8	74.3	75.0	74.0	71.7	80.7	79.7	77.0	73.6	77.8
2009	70.0	69.4	68.3	67.7	67.0	66.7	67.5	68.3	68.9	69.2	69.6	69.9	69.2	67.1	68.2	69.6	68.5
2010	70.9	71.3	71.9	72.3	73.5	73.8	74.2	74.6	74.9	74.8	74.9	75.6	71.3	73.2	74.6	75.1	73.6
2011	75.6	75.3	76.0	75.7	75.8	76.0	76.3	76.6	76.5	76.9	76.7	77.0	75.6	75.8	76.5	76.9	76.2
2012	77.4	77.4	76.9	77.4	77.4	77.2	77.3	76.9	76.8	76.8	77.1	77.2	77.2	77.3	77.0	77.1	77.2
2013	77.1	77.4	77.6	77.5	77.4	77.5	77.1	77.6	77.9	77.7	77.9	78.1	77.4	77.5	77.5	77.9	77.6
2014 2015	77.6 78.8	78.2 78.4	78.9 78.1	78.9 77.7	79.1 77.3	79.2 76.9	79.2 77.3	79.1 77.2	79.2 76.9	79.1 76.6	79.6 76.1	79.4 75.7	78.3 78.5	79.1 77.3	79.2 77.1	79.4 76.1	79.0 77.3
2016 2017	76.3	75.7	75.1 75.5	75.2	75.0	75.3	75.4	75.3	75.1	75.2	75.0	75.7	75.7	75.2	75.2	75.3	75.3
ZU1 /	75.4	75.1 77.2	75.5 77.5	76.2 78.2	76.2 77.5	76.2 77.8	76.1 78.0	75.7 78.5	75.7 78.4	76.8 78.4	77.1 78.6	77.3 78.7	75.4 77.2	76.2 77.8	75.8 78.3	77.0 78.6	76.1 78.0
2018	77.0																

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

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

	· ·	F 1				*	T 1		α .	0 :	N.T.		0.1			0.4	
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annu
(P (percent change) ²																	
996	8	1.6	2	1.1	.8	1.0	.3	.5	.8	1	.9	.9	2.0	10.0	7.7	6.0	4
.997	.1	1.4	1.0	2	.7	.7	.7	1.3	.9	.9	1.1	.4	9.4	7.1	10.4	11.5	8
998	.8	.1	1	.5	.5	8	4	2.4	2	1.0	.2	.5	6.1	2.1	3.3	8.0	6
999	.3	.8	1	.4	.9	3	.5	.6	4	1.5	.6	.7	5.1	4.5	3.2	8.6	5
2000	.1	.2	.6	.8	1	.2	.1	7	.4	3	3	5	4.4	4.9	4	-2.4	4
2001	6	6	2	3	6	7	4	5	2	6	3	.3	-5.9	-5.2	-5.8	-3.8	-3
2002	.6	.0	.8	.2	.5	1.1	3	.2	.1	4	.4	5	3.7	5.8	3.1	3	
003	.5	.1	.1	8	.1	.5	.2	4	.8	.1	1.0	2	1.8	-1.9	2.4	4.5	1
2004	.0	.7	2	.4	.8	7	.9	.5	.0	1.0	.0	.7	2.6	3.3	4.0	5.5	3
2005	.8	.8	5	.3	.3	.1	3	.5	-1.0	1.5	.8	.2	6.6	2.3	7	6.4	4
2006	.8	3	1	.5	4	.4	3	.6	.1	4	.0	1.5	3.8	.8	1.0	1.5	2
2007	5	.4	.8	.7	1	.3	.1	3	.5	3	.5	.2	4.1	5.9	1.0	1.2	2
2008	4	6	3	-1.1	6	7	-1.2	-1.2	-3.4	6	-2.4	-3.5	-2.5	-8.2	-14.1	-21.8	-4
2009	-3.1	2	-1.8	7	-1.0	3	1.5	1.1	.9	.2	1.0	2	-24.4	-10.6	8.1	7.2	-13
2010	1.1	1	1.2	.8	1.4	1	.6	.1	.0	.1	.0	.5	6.9	10.3	4.1	1.2	5
2011	.2	.1	.6	6	.1	.1	.6	.4	.3	.6	3	.7	3.2	1	4.4	3.9	2
2012	.8	.4	5	.6	4	.2	1	2	1	4	.7	.8	5.3	.5	-1.2	1.2	2
2013	3	.5	1	4	.3	.2	-1.0	1.0	.1	.1	.0	.0	3.0	2	3	1.9	
2014	-1.2	1.1	.8	1	.2	.3	.3	4	.0	1	.8	3	6	4.2	1.3	.6	
015	5	6	.3	1	1	4	.6	3	4	.0	2	2	-2.9	-1.0	.1	-2.4	
016	.5	4	2	3	1	.3	.2	3	.3	.2	.0	.3	.0	-2.5	.6	1.6	
2017	.3	.1	5	1.1	4	.1	3	2	1	1.3	.2	.0	1.9	2.4	-2.1	5.3	1
018	5	1.5	1	.6	-1.0	.7	.4	.5	.2	2	.1	1.1	1.9	2.3	3.7	2.3	2
P (2012=100)	101.2	100.0	100.7	100.2	100.2	100.5	100 (100.2	100 (100.0	100.0	101.1	101.0	100.2	100.5	100.0	100
016 017	101.3	100.9	100.7 101.1	100.3	100.2	100.5 101.9	100.6	100.3	100.6	100.8	100.8 102.9	101.1	101.0	100.3	100.5	100.9	100
2018	101.3	101.6 103.8	101.1	102.2 104.3	101.8 103.3	101.9	101.7 104.4	101.4 104.9	101.3 105.1	102.6 105.0	102.9	102.8 106.2	101.4 103.3	102.0 103.8	101.5 104.8	102.8 105.4	101 104
Capacity percent of 2012 output) 2016	134.2	134.3	134.4	134.6	134.8	135.0	135.1	135.3	135.4	135.6	135.7	135.8	134.3	134.8	135.3	135.7	135
2017	135.9	136.0	136.0	136.1	136.2	136.2	136.3	136.4	136.5	136.6	136.7	136.8	136.0	136.2	136.4	136.7	136
2018	136.9	137.0	137.2	137.3	137.5	137.7	137.8	138.0	138.2	138.3	138.5	138.7	137.1	137.5	138.0	138.5	137
															130.0	150.5	
Utilization															136.0	130.3	
percent)	81.2		81.5	82.0	82.1	82.5	82.3	82.3	82.5	82.0	82.2	82.5	81.6	82.2			
percent) 996	81.2 82.1	82.1	81.5 83.1	82.0 82.5	82.1 82.6	82.5 82.7	82.3 82.7	82.3 83.1	82.5 83.3	82.0 83.4	82.2 83.7	82.5 83.4	81.6 82.7	82.2 82.6	82.4	82.2	82
percent) 996 997	82.1	82.1 82.8	83.1	82.5	82.6	82.7	82.7	83.1	83.3	83.4	83.7	83.4	82.7	82.6	82.4 83.0	82.2 83.5	82
percent) 996 997 998	82.1 83.5	82.1 82.8 83.0	83.1 82.3	82.5 82.0	82.6 81.9	82.7 80.7	82.7 79.9	83.1 81.3	83.3 80.7	83.4 81.0	83.7 80.7	83.4 80.7	82.7 82.9	82.6 81.6	82.4 83.0 80.6	82.2 83.5 80.8	8: 8: 8
percent) 996 997 998 999	82.1	82.1 82.8	83.1	82.5	82.6	82.7	82.7	83.1	83.3	83.4	83.7	83.4	82.7	82.6	82.4 83.0	82.2 83.5	82 83 8 8
percent) 996 997 998 999	82.1 83.5 80.6	82.1 82.8 83.0 80.8	83.1 82.3 80.4	82.5 82.0 80.4	82.6 81.9 80.7	82.7 80.7 80.1	82.7 79.9 80.1	83.1 81.3 80.3	83.3 80.7 79.6	83.4 81.0 80.4	83.7 80.7 80.6	83.4 80.7 80.8	82.7 82.9 80.6	82.6 81.6 80.4	82.4 83.0 80.6 80.0	82.2 83.5 80.8 80.6	83 83 84 86 75
percent) 996 997 998 999 000	82.1 83.5 80.6 80.6	82.1 82.8 83.0 80.8 80.4	83.1 82.3 80.4 80.6	82.5 82.0 80.4 80.8	82.6 81.9 80.7 80.4	82.7 80.7 80.1 80.2	82.7 79.9 80.1 80.0	83.1 81.3 80.3 79.2	83.3 80.7 79.6 79.2	83.4 81.0 80.4 78.7	83.7 80.7 80.6 78.2	83.4 80.7 80.8 77.5	82.7 82.9 80.6 80.5	82.6 81.6 80.4 80.5	82.4 83.0 80.6 80.0 79.5	82.2 83.5 80.8 80.6 78.1	8. 8. 8. 8. 7.
percent) 996 997 998 999 000 001	82.1 83.5 80.6 80.6	82.1 82.8 83.0 80.8 80.4 76.0	83.1 82.3 80.4 80.6 75.6	82.5 82.0 80.4 80.8 75.1	82.6 81.9 80.7 80.4 74.4	82.7 80.7 80.1 80.2 73.7	82.7 79.9 80.1 80.0	83.1 81.3 80.3 79.2	83.3 80.7 79.6 79.2	83.4 81.0 80.4 78.7	83.7 80.7 80.6 78.2 71.6	83.4 80.7 80.8 77.5	82.7 82.9 80.6 80.5	82.6 81.6 80.4 80.5	82.4 83.0 80.6 80.0 79.5	82.2 83.5 80.8 80.6 78.1	82 83 83 86 79 73
percent) 996 997 998 999 900 001 002 003	82.1 83.5 80.6 80.6 76.7 72.0	82.1 82.8 83.0 80.8 80.4 76.0 71.9	83.1 82.3 80.4 80.6 75.6 72.4	82.5 82.0 80.4 80.8 75.1 72.5	82.6 81.9 80.7 80.4 74.4 72.8	82.7 80.7 80.1 80.2 73.7 73.6	82.7 79.9 80.1 80.0 73.2 73.3	83.1 81.3 80.3 79.2 72.7 73.5	83.3 80.7 79.6 79.2 72.4 73.5	83.4 81.0 80.4 78.7 71.9 73.3	83.7 80.7 80.6 78.2 71.6 73.6	83.4 80.7 80.8 77.5 71.7 73.2	82.7 82.9 80.6 80.5 76.1 72.1	82.6 81.6 80.4 80.5 74.4 73.0	82.4 83.0 80.6 80.0 79.5 72.8 73.4	82.2 83.5 80.8 80.6 78.1 71.7 73.4	8. 8. 8. 8. 7. 7. 7.
percent) 996 997 998 999 000 001 002 003 004	82.1 83.5 80.6 80.6 76.7 72.0 73.6	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7	83.1 82.3 80.4 80.6 75.6 72.4 73.8	82.5 82.0 80.4 80.8 75.1 72.5 73.2	82.6 81.9 80.7 80.4 74.4 72.8 73.3	82.7 80.7 80.1 80.2 73.7 73.6 73.7	82.7 79.9 80.1 80.0 73.2 73.3 73.9	83.1 81.3 80.3 79.2 72.7 73.5 73.6	83.3 80.7 79.6 79.2 72.4 73.5 74.2	83.4 81.0 80.4 78.7 71.9 73.3 74.3	83.7 80.7 80.6 78.2 71.6 73.6 75.0	83.4 80.7 80.8 77.5 71.7 73.2 74.9	82.7 82.9 80.6 80.5 76.1 72.1 73.7	82.6 81.6 80.4 80.5 74.4 73.0 73.4	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7	88 88 88 79 77 77 77
percent) 996 997 998 999 000 001 002 003 004 005	82.1 83.5 80.6 80.6 76.7 72.0 73.6 74.9 78.3	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7 75.5 78.8	83.1 82.3 80.4 80.6 75.6 72.4 73.8 75.4 78.3	82.5 82.0 80.4 80.8 75.1 72.5 73.2 75.7 78.4	82.6 81.9 80.7 80.4 74.4 72.8 73.3 76.4 78.5	82.7 80.7 80.1 80.2 73.7 73.6 73.7 75.8 78.5	82.7 79.9 80.1 80.0 73.2 73.3 73.9 76.5 78.0	83.1 81.3 80.3 79.2 72.7 73.5 73.6 76.8	83.3 80.7 79.6 79.2 72.4 73.5 74.2 76.8 77.3	83.4 81.0 80.4 78.7 71.9 73.3 74.3 77.5 78.3	83.7 80.7 80.6 78.2 71.6 73.6 75.0 77.4	83.4 80.7 80.8 77.5 71.7 73.2 74.9 77.8 78.8	82.7 82.9 80.6 80.5 76.1 72.1 73.7 75.3 78.5	82.6 81.6 80.4 80.5 74.4 73.0 73.4 76.0 78.5	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9 76.7	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7 77.5	82 83 84 79 73 73 74 75
percent) 996 997 998 999 000 001 002 003 004 005	82.1 83.5 80.6 80.6 76.7 72.0 73.6 74.9 78.3	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7 75.5 78.8 78.9 78.5	83.1 82.3 80.4 80.6 75.6 72.4 73.8 75.4 78.3	82.5 82.0 80.4 80.8 75.1 72.5 73.2 75.7 78.4 79.0 79.3	82.6 81.9 80.7 80.4 74.4 72.8 73.3 76.4 78.5	82.7 80.7 80.1 80.2 73.7 73.6 73.7 75.8 78.5	82.7 79.9 80.1 80.0 73.2 73.3 73.9 76.5 78.0	83.1 81.3 80.3 79.2 72.7 73.5 73.6 76.8 78.2 78.7 78.6	83.3 80.7 79.6 79.2 72.4 73.5 74.2 76.8 77.3	83.4 81.0 80.4 78.7 71.9 73.3 74.3 77.5 78.3	83.7 80.7 80.6 78.2 71.6 73.6 75.0 77.4 78.8	83.4 80.7 80.8 77.5 71.7 73.2 74.9 77.8 78.8	82.7 82.9 80.6 80.5 76.1 72.1 73.7 75.3 78.5	82.6 81.6 80.4 80.5 74.4 73.0 73.4 76.0 78.5	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9 76.7 77.9	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7 77.5 78.6	82 83 88 86 79 73 73 76 78
percent) 996 997 998 999 900 001 002 003 004 005	82.1 83.5 80.6 80.6 76.7 72.0 73.6 74.9 78.3 79.3 78.4 78.5	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7 75.5 78.8 78.9 78.5	83.1 82.3 80.4 80.6 75.6 72.4 73.8 75.4 78.3 78.7 79.0	82.5 82.0 80.4 80.8 75.1 72.5 73.2 75.7 78.4 79.0 79.3 77.0	82.6 81.9 80.7 80.4 74.4 72.8 73.3 76.4 78.5 78.6 79.0	82.7 80.7 80.1 80.2 73.7 73.6 73.7 75.8 78.5 78.7 79.1	82.7 79.9 80.1 80.0 73.2 73.3 73.9 76.5 78.0 78.4 79.0	83.1 81.3 80.3 79.2 72.7 73.5 73.6 76.8 78.2 78.7 78.6 74.6	83.3 80.7 79.6 79.2 72.4 73.5 74.2 76.8 77.3 78.6 78.8 72.1	83.4 81.0 80.4 78.7 71.9 73.3 74.3 77.5 78.3 78.2 78.5 71.7	83.7 80.7 80.6 78.2 71.6 73.6 75.0 77.4 78.8 78.0 78.8	83.4 80.7 80.8 77.5 71.7 73.2 74.9 77.8 78.8 79.0 78.9 67.8	82.7 82.9 80.6 80.5 76.1 72.1 73.7 75.3 78.5 79.0 78.6 78.1	82.6 81.6 80.4 80.5 74.4 73.0 73.4 76.0 78.5 78.8 79.2	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9 76.7 77.9	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7 77.5 78.6 78.4 78.7 69.9	82 83 88 88 79 72 72 73 73 74 75
percent) 996 997 998 999 9000 001 002 003 004 005	82.1 83.5 80.6 80.6 76.7 72.0 73.6 74.9 78.3 79.3 78.4 78.5 65.8	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7 75.5 78.8 78.9 78.5 78.0 65.8	83.1 82.3 80.4 80.6 75.6 72.4 73.8 75.4 78.3 78.7 79.0 77.8 64.7	82.5 82.0 80.4 80.8 75.1 72.5 73.2 75.7 78.4 79.0 79.3 77.0 64.4	82.6 81.9 80.7 80.4 74.4 72.8 73.3 76.4 78.5 78.6 79.0 76.6 63.8	82.7 80.7 80.1 80.2 73.7 73.6 73.7 75.8 78.5 78.7 79.1 76.2 63.7	82.7 79.9 80.1 80.0 73.2 73.3 73.9 76.5 78.0 78.4 79.0 75.4 64.8	83.1 81.3 80.3 79.2 72.7 73.5 73.6 76.8 78.2 78.7 78.6 74.6 65.6	83.3 80.7 79.6 79.2 72.4 73.5 74.2 76.8 77.3 78.6 78.8 72.1 66.3	83.4 81.0 80.4 78.7 71.9 73.3 74.3 77.5 78.3 78.2 78.5 71.7 66.5	83.7 80.7 80.6 78.2 71.6 73.6 75.0 77.4 78.8 78.0 78.8 70.1 67.3	83.4 80.7 80.8 77.5 71.7 73.2 74.9 77.8 78.8 79.0 78.9 67.8 67.2	82.7 82.9 80.6 80.5 76.1 72.1 73.7 75.3 78.5 79.0 78.6 78.1 65.5	82.6 81.6 80.4 80.5 74.4 73.0 73.4 76.0 78.5 78.8 79.2 76.6 64.0	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9 76.7 77.9 78.6 78.8 74.0 65.5	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7 77.5 78.6 78.4 78.7 69.9 67.0	8. 8. 8. 8. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.
percent) 996 997 998 999 000 001 002 003 004 005 006 007 008 009	82.1 83.5 80.6 80.6 76.7 72.0 73.6 74.9 78.3 79.3 78.4 78.5	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7 75.5 78.8 78.9 78.5	83.1 82.3 80.4 80.6 75.6 72.4 73.8 75.4 78.3 78.7 79.0	82.5 82.0 80.4 80.8 75.1 72.5 73.2 75.7 78.4 79.0 79.3 77.0	82.6 81.9 80.7 80.4 74.4 72.8 73.3 76.4 78.5 78.6 79.0	82.7 80.7 80.1 80.2 73.7 73.6 73.7 75.8 78.5 78.7 79.1	82.7 79.9 80.1 80.0 73.2 73.3 73.9 76.5 78.0 78.4 79.0	83.1 81.3 80.3 79.2 72.7 73.5 73.6 76.8 78.2 78.7 78.6 74.6	83.3 80.7 79.6 79.2 72.4 73.5 74.2 76.8 77.3 78.6 78.8 72.1	83.4 81.0 80.4 78.7 71.9 73.3 74.3 77.5 78.3 78.2 78.5 71.7	83.7 80.7 80.6 78.2 71.6 73.6 75.0 77.4 78.8 78.0 78.8	83.4 80.7 80.8 77.5 71.7 73.2 74.9 77.8 78.8 79.0 78.9 67.8	82.7 82.9 80.6 80.5 76.1 72.1 73.7 75.3 78.5 79.0 78.6 78.1	82.6 81.6 80.4 80.5 74.4 73.0 73.4 76.0 78.5 78.8 79.2	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9 76.7 77.9	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7 77.5 78.6 78.4 78.7 69.9	8. 8. 8. 8. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.
percent) 996 997 998 999 999 000 001 002 003 004 005 006 007 008 009 010	82.1 83.5 80.6 80.6 76.7 72.0 73.6 74.9 78.3 79.3 78.4 78.5 65.8 68.1	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7 75.5 78.8 78.9 78.5 78.0 65.8 68.2	83.1 82.3 80.4 80.6 75.6 72.4 73.8 75.4 78.3 78.7 79.0 77.8 64.7 69.1	82.5 82.0 80.4 80.8 75.1 72.5 73.2 75.7 78.4 79.0 79.3 77.0 64.4 69.8	82.6 81.9 80.7 80.4 74.4 72.8 73.3 76.4 78.5 78.6 79.0 76.6 63.8 70.9	82.7 80.7 80.1 80.2 73.7 73.6 73.7 75.8 78.5 78.7 79.1 76.2 63.7 70.9	82.7 79.9 80.1 80.0 73.2 73.3 73.9 76.5 78.0 75.4 64.8 71.4	83.1 81.3 80.3 79.2 72.7 73.5 73.6 76.8 78.2 78.7 78.6 74.6 65.6 71.6	83.3 80.7 79.6 79.2 72.4 73.5 74.2 76.8 77.3 78.6 78.8 72.1 66.3 71.7	83.4 81.0 80.4 78.7 71.9 73.3 74.3 77.5 78.3 78.2 78.5 71.7 66.5 71.9	83.7 80.7 80.6 78.2 71.6 73.6 75.0 77.4 78.8 78.0 78.8 70.1 67.3 72.0	83.4 80.7 80.8 77.5 71.7 73.2 74.9 77.8 78.8 79.0 78.9 67.8 67.2 72.5	82.7 82.9 80.6 80.5 76.1 72.1 73.7 75.3 78.5 79.0 78.6 78.1 65.5 68.5	82.6 81.6 80.4 80.5 74.4 73.0 73.4 76.0 78.5 78.8 79.2 76.6 64.0 70.5	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9 76.7 77.9 78.6 78.8 74.0 65.5 71.6	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7 77.5 78.6 78.4 78.7 69.9 67.0 72.1	8.8 8.8 8.8 7.7 7.7 7.7 7.7 7.7 7.7 6.0 7.7
percent) 996 997 998 999 900 001 002 003 004 005 006 007 008 009 010 011 012	82.1 83.5 80.6 80.6 76.7 72.0 73.6 74.9 78.3 79.3 78.4 78.5 65.8 68.1	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7 75.5 78.8 78.9 78.5 78.0 65.8 68.2	83.1 82.3 80.4 80.6 75.6 72.4 73.8 75.4 78.3 78.7 79.0 77.8 64.7 69.1	82.5 82.0 80.4 80.8 75.1 72.5 73.2 75.7 78.4 79.0 79.3 77.0 64.4 69.8	82.6 81.9 80.7 80.4 74.4 72.8 73.3 76.4 78.5 78.6 79.0 76.6 63.8 70.9	82.7 80.7 80.1 80.2 73.7 73.6 73.7 75.8 78.5 78.7 79.1 76.2 63.7 70.9	82.7 79.9 80.1 80.0 73.2 73.3 73.9 76.5 78.0 75.4 64.8 71.4 73.6 74.8	83.1 81.3 80.3 79.2 72.7 73.5 73.6 76.8 78.2 78.7 78.6 74.6 65.6 71.6	83.3 80.7 79.6 79.2 72.4 73.5 74.2 76.8 77.3 78.6 78.8 72.1 66.3 71.7 74.1 74.5	83.4 81.0 80.4 78.7 71.9 73.3 74.3 77.5 78.3 78.2 78.5 71.7 66.5 71.9	83.7 80.7 80.6 78.2 71.6 73.6 75.0 77.4 78.8 78.0 78.8 70.1 67.3 72.0	83.4 80.7 80.8 77.5 71.7 73.2 74.9 77.8 78.8 79.0 78.9 67.8 67.2 72.5	82.7 82.9 80.6 80.5 76.1 72.1 73.7 75.3 78.5 79.0 78.6 78.1 65.5 68.5	82.6 81.6 80.4 80.5 74.4 73.0 73.4 76.0 78.5 78.8 79.2 76.6 64.0 70.5	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9 76.7 77.9 78.6 78.8 74.0 65.5 71.6	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7 77.5 78.6 78.4 78.7 69.9 67.0 72.1 74.5 74.7	8.8 8.8 8.8 8.8 7.7 7.7 7.7 7.7 7.7 7.7
percent) 996 997 998 999 900 001 002 003 004 005 006 007 008 009 010 011 012 013	82.1 83.5 80.6 80.6 76.7 72.0 73.6 74.9 78.3 79.3 78.4 78.5 65.8 68.1	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7 75.5 78.8 78.9 78.5 78.0 65.8 68.2 72.8 75.5 75.2	83.1 82.3 80.4 80.6 75.6 72.4 73.8 75.4 78.3 78.7 79.0 77.8 64.7 69.1 73.3 75.0 75.1	82.5 82.0 80.4 80.8 75.1 72.5 73.2 75.7 78.4 79.0 79.3 77.0 64.4 69.8 75.3 74.7	82.6 81.9 80.7 80.4 74.4 72.8 73.3 76.4 78.5 78.6 79.0 76.6 63.8 70.9 73.1 74.9 74.9	82.7 80.7 80.1 80.2 73.7 73.6 73.7 75.8 78.5 78.7 79.1 76.2 63.7 70.9 73.2 75.0 75.1	82.7 79.9 80.1 80.0 73.2 73.3 73.9 76.5 78.0 75.4 64.8 71.4 73.6 74.8 74.3	83.1 81.3 80.3 79.2 72.7 73.5 73.6 76.8 78.2 78.7 78.6 74.6 65.6 71.6	83.3 80.7 79.6 79.2 72.4 73.5 74.2 76.8 77.3 78.6 78.8 72.1 66.3 71.7 74.1 74.5 75.1	83.4 81.0 80.4 78.7 71.9 73.3 74.3 77.5 78.3 78.2 78.5 71.7 66.5 71.9 74.5 74.2 75.1	83.7 80.7 80.6 78.2 71.6 73.6 75.0 77.4 78.8 78.0 78.8 70.1 67.3 72.0 74.2 74.6 75.1	83.4 80.7 80.8 77.5 71.7 73.2 74.9 77.8 78.8 79.0 78.9 67.8 67.2 72.5 74.7 75.2	82.7 82.9 80.6 80.5 76.1 72.1 73.7 75.3 78.5 79.0 78.6 78.1 65.5 68.5	82.6 81.6 80.4 80.5 74.4 73.0 73.4 76.0 78.5 78.8 79.2 76.6 64.0 70.5	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9 76.7 77.9 78.6 78.8 74.0 65.5 71.6	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7 77.5 78.6 78.4 78.7 69.9 67.0 72.1 74.5 74.7 75.1	88 88 88 77 77 77 77 77 77 77 77 77 77
percent) 996 997 998 999 000 001 002 003 004 005 006 007 008 009 010 011 012 013 014	82.1 83.5 80.6 80.6 76.7 72.0 73.6 74.9 78.3 79.3 78.4 78.5 65.8 68.1	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7 75.5 78.8 78.9 78.5 75.0 65.8 68.2	83.1 82.3 80.4 80.6 75.6 72.4 73.8 75.4 78.3 78.7 79.0 77.8 64.7 69.1 73.3 75.0 75.1	82.5 82.0 80.4 80.8 75.1 72.5 73.2 75.7 78.4 79.0 79.3 77.0 64.4 69.8 73.0 75.3 74.7	82.6 81.9 80.7 80.4 74.4 72.8 73.3 76.4 78.5 78.6 79.0 76.6 63.8 70.9 73.1 74.9 74.9	82.7 80.7 80.1 80.2 73.7 73.6 73.7 75.8 78.5 78.7 79.1 76.2 63.7 70.9 73.2 75.0 75.1 76.0	82.7 79.9 80.1 80.0 73.2 73.3 73.9 76.5 78.0 75.4 64.8 71.4 73.6 74.8 74.3	83.1 81.3 80.3 79.2 72.7 73.5 73.6 76.8 78.2 78.7 78.6 65.6 71.6	83.3 80.7 79.6 79.2 72.4 73.5 74.2 76.8 77.3 78.6 78.8 72.1 66.3 71.7 74.1 74.5 75.1	83.4 81.0 80.4 78.7 71.9 73.3 74.3 77.5 78.3 78.2 78.5 71.7 66.5 71.9 74.5 74.2 75.1 76.0	83.7 80.7 80.6 78.2 71.6 73.6 75.0 77.4 78.8 78.0 78.8 70.1 67.3 72.0 74.2 74.6 75.1	83.4 80.7 80.8 77.5 71.7 73.2 74.9 77.8 78.8 79.0 78.9 67.8 67.2 72.5 74.7 75.2 75.1	82.7 82.9 80.6 80.5 76.1 72.1 73.7 75.3 78.5 79.0 78.6 78.1 65.5 68.5 73.0 75.2 75.0	82.6 81.6 80.4 80.5 74.4 73.0 73.4 76.0 78.5 78.8 79.2 76.6 64.0 70.5	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9 76.7 77.9 78.6 78.8 74.0 65.5 71.6	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7 77.5 78.6 78.4 78.7 69.9 67.0 72.1 74.5 74.7 75.1 76.3	88 88 88 77 77 77 77 77 77 77 77 77 77
percent) 996 997 998 999 998 999 000 001 002 003 004 005 006 007 008 009 010 011 012 013 014 0015	82.1 83.5 80.6 80.6 76.7 72.0 73.6 74.9 78.3 79.3 78.4 78.5 65.8 68.1 72.7 75.3 74.9 74.2	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7 75.5 78.8 78.9 78.5 78.0 65.8 68.2 72.8 75.5 75.2 75.0	83.1 82.3 80.4 80.6 75.6 72.4 73.8 75.4 78.3 78.7 79.0 77.8 64.7 69.1 73.3 75.0 75.1 75.7	82.5 82.0 80.4 80.8 75.1 72.5 73.2 75.7 78.4 79.0 79.3 77.0 64.4 69.8 73.0 75.3 74.7 75.6 76.0	82.6 81.9 80.7 80.4 74.4 72.8 73.3 76.4 78.5 78.6 79.0 76.6 63.8 70.9 73.1 74.9 74.9 75.8 75.9	82.7 80.7 80.1 80.2 73.7 73.6 73.7 75.8 78.5 78.7 79.1 76.2 63.7 70.9 73.2 75.0 75.1 76.0 75.7	82.7 79.9 80.1 80.0 73.2 73.3 73.9 76.5 78.0 75.4 64.8 71.4 73.6 74.8 74.8 74.3 76.3	83.1 81.3 80.3 79.2 72.7 73.5 73.6 76.8 78.2 78.7 78.6 71.6 73.9 74.6 75.0 76.0	83.3 80.7 79.6 79.2 72.4 73.5 74.2 76.8 77.3 78.6 78.8 72.1 66.3 71.7 74.1 74.5 75.6	83.4 81.0 80.4 78.7 71.9 73.3 74.3 77.5 78.3 78.2 78.5 71.7 66.5 71.9 74.5 74.2 75.6	83.7 80.7 80.6 78.2 71.6 73.6 75.0 77.4 78.8 78.0 78.8 70.1 67.3 72.0 74.2 74.6 75.1 76.6 75.4	83.4 80.7 80.8 77.5 71.7 73.2 74.9 77.8 78.8 79.0 78.9 67.2 72.5 74.7 75.2 75.1 76.4 75.2	82.7 82.9 80.6 80.5 76.1 72.1 73.7 75.3 78.5 79.0 78.6 78.1 65.5 68.5 73.0 75.2 75.0	82.6 81.6 80.4 80.5 74.4 73.0 73.4 76.0 78.5 78.8 79.2 76.6 64.0 70.5 73.1 75.1 74.9 75.8 75.9	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9 76.7 77.9 78.6 78.8 74.0 65.5 71.6 73.9 74.6 74.8 75.9	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7 77.5 78.6 78.4 78.7 69.9 67.0 72.1 74.5 74.7 75.1 76.3 75.4	8.8 8.8 8.8 8.8 7.7 7.7 7.7 7.7 7.7 7.7
percent) 996 997 998 999 999 9000 0001 0002 0003 0004 0005 0006 0007 0008 0009 0010 0011 0012 0013 0014 0015	82.1 83.5 80.6 80.6 76.7 72.0 73.6 74.9 78.3 79.3 78.4 78.5 65.8 68.1 72.7 75.3 74.9 74.2 76.1	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7 75.5 78.8 78.9 78.5 78.0 65.8 68.2 72.8 75.5 75.2 75.7	83.1 82.3 80.4 80.6 75.6 72.4 73.8 75.4 78.3 78.7 79.0 77.8 64.7 69.1 73.3 75.0 75.1 75.7 76.0	82.5 82.0 80.4 80.8 75.1 72.5 73.2 75.7 78.4 79.0 79.3 77.0 64.4 69.8 73.0 75.3 74.7 75.6 76.0	82.6 81.9 80.7 80.4 74.4 72.8 73.3 76.4 78.5 78.6 79.0 76.6 63.8 70.9 73.1 74.9 74.9 75.8 75.9	82.7 80.7 80.1 80.2 73.7 73.6 73.7 75.8 78.5 78.7 79.1 76.2 63.7 70.9 75.0 75.1 76.0 75.7	82.7 79.9 80.1 80.0 73.2 73.3 73.9 76.5 78.0 75.4 64.8 71.4 73.6 74.8 74.3 76.3 76.2	83.1 81.3 80.3 79.2 72.7 73.5 73.6 76.8 78.2 78.7 78.6 74.6 65.6 71.6 73.9 74.6 75.0 76.0 76.0	83.3 80.7 79.6 79.2 72.4 73.5 74.2 76.8 77.3 78.6 78.8 72.1 66.3 71.7 74.1 74.5 75.1 76.0 75.6	83.4 81.0 80.4 78.7 71.9 73.3 74.3 77.5 78.3 78.2 78.5 71.7 66.5 71.9 74.5 74.2 75.1 76.0 75.6	83.7 80.7 80.6 78.2 71.6 73.6 75.0 77.4 78.8 70.1 67.3 72.0 74.2 74.6 75.1 76.6 75.4	83.4 80.7 80.8 77.5 71.7 73.2 74.9 77.8 78.8 79.0 78.9 67.8 67.2 72.5 74.7 75.2 75.1 76.4 75.2 74.5	82.7 82.9 80.6 80.5 76.1 72.1 73.7 75.3 78.5 79.0 78.6 78.1 65.5 68.5 73.0 75.2 75.0 75.9	82.6 81.6 80.4 80.5 74.4 73.0 73.4 76.0 78.5 78.8 79.2 76.6 64.0 70.5 73.1 75.1 74.9 75.8 75.9	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9 76.7 77.9 78.6 78.8 74.0 65.5 71.6 74.8 76.1 75.9	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7 77.5 78.6 78.4 78.7 69.9 67.0 72.1 74.5 74.7 75.1 76.3 75.4	82 88 81 80 75 76 77 78 78 78 74 75 77 75 77
Utilization percent) 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	82.1 83.5 80.6 80.6 76.7 72.0 73.6 74.9 78.3 79.3 78.4 78.5 65.8 68.1 72.7 75.3 74.9 74.2	82.1 82.8 83.0 80.8 80.4 76.0 71.9 73.7 75.5 78.8 78.9 78.5 78.0 65.8 68.2 72.8 75.5 75.2 75.0	83.1 82.3 80.4 80.6 75.6 72.4 73.8 75.4 78.3 78.7 79.0 77.8 64.7 69.1 73.3 75.0 75.1 75.7	82.5 82.0 80.4 80.8 75.1 72.5 73.2 75.7 78.4 79.0 79.3 77.0 64.4 69.8 73.0 75.3 74.7 75.6 76.0	82.6 81.9 80.7 80.4 74.4 72.8 73.3 76.4 78.5 78.6 79.0 76.6 63.8 70.9 73.1 74.9 74.9 75.8 75.9	82.7 80.7 80.1 80.2 73.7 73.6 73.7 75.8 78.5 78.7 79.1 76.2 63.7 70.9 73.2 75.0 75.1 76.0 75.7	82.7 79.9 80.1 80.0 73.2 73.3 73.9 76.5 78.0 75.4 64.8 71.4 73.6 74.8 74.8 74.3 76.3	83.1 81.3 80.3 79.2 72.7 73.5 73.6 76.8 78.2 78.7 78.6 71.6 73.9 74.6 75.0 76.0	83.3 80.7 79.6 79.2 72.4 73.5 74.2 76.8 77.3 78.6 78.8 72.1 66.3 71.7 74.1 74.5 75.6	83.4 81.0 80.4 78.7 71.9 73.3 74.3 77.5 78.3 78.2 78.5 71.7 66.5 71.9 74.5 74.2 75.6	83.7 80.7 80.6 78.2 71.6 73.6 75.0 77.4 78.8 78.0 78.8 70.1 67.3 72.0 74.2 74.6 75.1 76.6 75.4	83.4 80.7 80.8 77.5 71.7 73.2 74.9 77.8 78.8 79.0 78.9 67.2 72.5 74.7 75.2 75.1 76.4 75.2	82.7 82.9 80.6 80.5 76.1 72.1 73.7 75.3 78.5 79.0 78.6 78.1 65.5 68.5 73.0 75.2 75.0	82.6 81.6 80.4 80.5 74.4 73.0 73.4 76.0 78.5 78.8 79.2 76.6 64.0 70.5 73.1 75.1 74.9 75.8 75.9	82.4 83.0 80.6 80.0 79.5 72.8 73.4 73.9 76.7 77.9 78.6 78.8 74.0 65.5 71.6 73.9 74.6 74.8 75.9	82.2 83.5 80.8 80.6 78.1 71.7 73.4 74.7 77.5 78.6 78.4 78.7 69.9 67.0 72.1 74.5 74.7 75.1 76.3 75.4	822 833 811 800 792 733 734 744 655 700 737 744 745 744 755

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

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
$change)^2$																	
1996	-1.0	1.3	3	.8	.5	.6	4	.3	.5	3	.8	.5	6	6.6	2.2	3.1	1.7
1997	1	.9	.4	3	.3	.2	.5	.8	.6	.7	.7	.1	5.2	2.2	6.3	7.6	4.2
1998	.3	.0	.0	.2	.6	9	7	1.9	5	.6	3	.1	2.2	.8	3	2.5	3.1
1999	.2	.2	1	1	.5	5	.3	.4	5	1.2	.2	.6	.6	.3	.9	5.6	1.1
2000	3	.0	.1	.5	2	1	5	5	.3	4	2	5	.5	1.5	-3.2	-2.6	1.0
2001	7	6	3	2	6	5	4	1	4	5	5	1	-5.8	-4.3	-4.3	-4.4	-3.9
2002	.7	2	.8	.4	.4	.9	3	1	.1	3	.5	5	2.6	6.0	1.8	6	.3
2003	.5	.2	3	8	1	.0	.2	3	.5	.0	.7	1	1.3	-4.4	.6	2.7	.2
2004	.2	.6	6	.5	.8	9	.8	.0	.0	.9	.2	.7	1.9	2.1	2.0	5.3	1.7
2005	.3	.6	2	.1	.1	.4	4	.2	-2.1	1.2	1.0	.6	4.8	1.2	-3.0	2.7	2.6
2006	.1	1	.2	.4	2	.3	1	.3	3	1	2	1.1	3.2	1.8	.6	.1	1.4
2007	6	1.0	.0	.6	.1	.1	1	.1	.3	6	.4	.0	2.9	4.0	1.0	5	1.8
2008	3	5	4	8	7	3	5	-1.6	-4.5	1.2	-1.0	-2.8	-2.6	-6.9	-12.8	-14.9	-4.3
2009	-2.4	7 .2	-1.7	9	-1.1	4 1	1.1	1.2	.7 .2	.3 3	.3 .0	.3 .9	-20.5	-11.7	6.1	6.0	-11.5
2010	1.1	.2	.6	.3	1.4	.1	.4	.3	.2	3	.0	.9	7.1	7.4	5.1	.8	4.9
2011	2	5	1.1	4 7	.2	.2 1	.5	.5 4	.0	.7	1	.5	1.8 3.7	1.6 2.1	4.5	4.1	2.8
2012 2013	.6 1	.2 .6	5 .4	.7 2	.2 .0	1 .2	.3 5	4 .7	1 .5	.2 2	.5 .3	.3 .3	3.7	2.1 1.4	1 .8	1.7 2.8	2.8
2013	1 5	.6	.4	2	.3	.2	5 .1	1	.3	2	.8	1	2.9	5.4	2.0	2.8	1.8
2015	6	4	3	5	5	4	.6	1	4	4	6	5	-3.3	-5.3	3	-4.9	-1.1
2017	7	7	0	2	2	2	2	1	2		2	1.0	2.1	2.2	1.0	4	2.1
2016 2017	.7 2	7 4	8 .6	.2 .9	2 .0	.3	.2 1	1 4	2 .0	.1 1.5	2 .5	1.0	-2.1 1.2	-2.2 5.0	1.0 -1.6	.4 7.6	-2.1 1.5
2018	2	4	.5	1.2	8	.6	1	4	.2	.2	.4	.3	2.5	5.2	4.5	3.9	4.0
IP (2012=100)																	
2016	102.4	101.7	100.8	101.0	100.9	101.2	101.4	101.3	101.1	101.2	101.0	102.0	101.6	101.0	101.3	101.4	101.3
2017	102.4	101.7	100.8	102.9	100.9	103.0	102.8	102.4	102.3	103.9	104.4	104.9	101.7	102.9	102.5	104.4	101.3
2018	104.6	105.0	105.6	106.8	105.9	106.5	107.0	107.8	108.0	108.2	108.6	109.0	105.1	106.4	107.6	108.6	107.0
Capacity (percent of 2012 output)																	
2016								134.5	1245		1216						
	134.1	134.1	134.2	134.2	134.3	134.4	134.4		134.5	134.6	134.6	134.7	134.1	134.3	134.5	134.6	134.4
2017	134.7	134.7	134.8	134.8	134.8	134.9	134.9	135.0	135.1	135.2	135.4	135.5	134.7	134.8	135.0	135.4	135.0
2017																	
2018 Utilization	134.7	134.7	134.8	134.8	134.8	134.9	134.9	135.0	135.1	135.2	135.4	135.5	134.7	134.8	135.0	135.4	135.0
2018 Utilization (percent)	134.7 135.7	134.7 135.9	134.8 136.1	134.8 136.3	134.8 136.5	134.9 136.8	134.9 137.0	135.0 137.2	135.1 137.5	135.2 137.7	135.4 138.0	135.5 138.2	134.7 135.9	134.8 136.5	135.0 137.2	135.4 138.0	135.0 136.9
2018 Utilization (percent) 1996	134.7 135.7 82.2	134.7 135.9 83.1	134.8 136.1 82.7	134.8 136.3	134.8 136.5	134.9 136.8	134.9 137.0	135.0 137.2	135.1 137.5	135.2 137.7	135.4 138.0 83.7	135.5 138.2 83.9	134.7 135.9 82.7	134.8 136.5	135.0 137.2	135.4 138.0 83.6	135.0 136.9
2018 Utilization (percent) 1996 1997	134.7 135.7 82.2 83.6	134.7 135.9 83.1 84.1	134.8 136.1 82.7 84.2	134.8 136.3 83.3 83.7	134.8 136.5 83.6 83.7	134.9 136.8 83.9 83.6	134.9 137.0 83.4 83.7	135.0 137.2 83.5 84.1	135.1 137.5 83.7 84.3	135.2 137.7 83.3 84.6	135.4 138.0 83.7 84.8	135.5 138.2 83.9 84.5	134.7 135.9 82.7 84.0	134.8 136.5 83.6 83.6	135.0 137.2 83.5 84.0	135.4 138.0 83.6 84.6	135.0 136.9 83.4 84.1
2018 Utilization (percent) 1996 1997 1998	134.7 135.7 82.2 83.6 84.5	134.7 135.9 83.1 84.1 84.1	134.8 136.1 82.7 84.2 83.8	134.8 136.3 83.3 83.7 83.6	134.8 136.5 83.6 83.7 83.8	134.9 136.8 83.9 83.6 82.7	134.9 137.0 83.4 83.7 81.9	135.0 137.2 83.5 84.1 83.1	135.1 137.5 83.7 84.3 82.4	135.2 137.7 83.3 84.6 82.6	135.4 138.0 83.7 84.8 82.1	135.5 138.2 83.9 84.5 81.9	134.7 135.9 82.7 84.0 84.1	134.8 136.5 83.6 83.6 83.4	135.0 137.2 83.5 84.0 82.5	135.4 138.0 83.6 84.6 82.2	135.0 136.9 83.4 84.1 83.0
2018 Utilization (percent) 1996 1997	134.7 135.7 82.2 83.6	134.7 135.9 83.1 84.1	134.8 136.1 82.7 84.2	134.8 136.3 83.3 83.7	134.8 136.5 83.6 83.7	134.9 136.8 83.9 83.6	134.9 137.0 83.4 83.7	135.0 137.2 83.5 84.1	135.1 137.5 83.7 84.3	135.2 137.7 83.3 84.6	135.4 138.0 83.7 84.8	135.5 138.2 83.9 84.5	134.7 135.9 82.7 84.0	134.8 136.5 83.6 83.6	135.0 137.2 83.5 84.0	135.4 138.0 83.6 84.6	135.0 136.9 83.4 84.1 83.0
2018 Utilization (percent) 1996 1997 1998 1999 2000	134.7 135.7 82.2 83.6 84.5 81.8 81.5	134.7 135.9 83.1 84.1 84.1 81.8 81.4	134.8 136.1 82.7 84.2 83.8 81.5	134.8 136.3 83.3 83.7 83.6 81.2	134.8 136.5 83.6 83.7 83.8 81.5	134.9 136.8 83.9 83.6 82.7 80.9 81.3	134.9 137.0 83.4 83.7 81.9 81.0 80.8	135.0 137.2 83.5 84.1 83.1 81.2	135.1 137.5 83.7 84.3 82.4 80.6 80.5	135.2 137.7 83.3 84.6 82.6 81.5 80.0	135.4 138.0 83.7 84.8 82.1 81.6 79.8	135.5 138.2 83.9 84.5 81.9 81.9	82.7 84.0 84.1 81.7 81.4	134.8 136.5 83.6 83.6 83.4 81.2	135.0 137.2 83.5 84.0 82.5 80.9	135.4 138.0 83.6 84.6 82.2 81.6	135.0 136.9 83.4 84.1 83.0 81.4 80.8
2018 Utilization (percent) 1996 1997 1998 1999	134.7 135.7 82.2 83.6 84.5 81.8	134.7 135.9 83.1 84.1 84.1 81.8	82.7 84.2 83.8 81.5 81.4	134.8 136.3 83.3 83.7 83.6 81.2 81.7	134.8 136.5 83.6 83.7 83.8 81.5 81.4	134.9 136.8 83.9 83.6 82.7 80.9	134.9 137.0 83.4 83.7 81.9 81.0	135.0 137.2 83.5 84.1 83.1 81.2 80.3	135.1 137.5 83.7 84.3 82.4 80.6	135.2 137.7 83.3 84.6 82.6 81.5	83.7 84.8 82.1 81.6	83.9 84.5 81.9 81.9 79.4	82.7 84.0 84.1 81.7	134.8 136.5 83.6 83.6 83.4 81.2 81.5	135.0 137.2 83.5 84.0 82.5 80.9 80.5	83.6 84.6 82.2 81.6 79.7	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001	82.2 83.6 84.5 81.8 81.5	134.7 135.9 83.1 84.1 84.1 81.8 81.4 78.2	82.7 84.2 83.8 81.5 81.4	134.8 136.3 83.3 83.7 83.6 81.2 81.7	134.8 136.5 83.6 83.7 83.8 81.5 81.4	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.3	135.0 137.2 83.5 84.1 83.1 81.2 80.3 76.2	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3	135.4 138.0 83.7 84.8 82.1 81.6 79.8 74.9	135.5 138.2 83.9 84.5 81.9 79.4 74.7	82.7 84.0 84.1 81.7 81.4	134.8 136.5 83.6 83.6 83.4 81.2 81.5 77.2	135.0 137.2 83.5 84.0 82.5 80.9 80.5 76.1	83.6 84.6 82.2 81.6 79.7	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6 76.2
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002	82.2 83.6 84.5 81.8 81.5 78.8 75.2	134.7 135.9 83.1 84.1 84.1 81.8 81.4 78.2 75.0	82.7 84.2 83.8 81.5 81.4 77.9 75.6	83.3 83.7 83.6 81.2 81.7 77.7 75.8	83.6 83.7 83.8 81.5 81.4 77.2 76.1	83.9 83.6 82.7 80.9 81.3 76.7 76.8	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.3 76.6	83.5 84.1 83.1 81.2 80.3 76.2 76.6	83.7 84.3 82.4 80.6 80.5 75.8 76.7	83.3 84.6 82.6 81.5 80.0 75.3 76.5	83.7 84.8 82.1 81.6 79.8 74.9 76.9	83.9 84.5 81.9 81.9 79.4 74.7 76.5	82.7 84.0 84.1 81.7 81.4 78.3 75.3	134.8 136.5 83.6 83.6 83.4 81.2 81.5 77.2 76.3	83.5 84.0 82.5 80.5 76.1 76.6	83.6 84.6 82.2 81.6 79.7 75.0 76.6	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003	82.2 83.6 84.5 81.8 81.5 78.8 75.2	83.1 84.1 84.1 81.8 81.4 78.2 75.0	82.7 84.2 83.8 81.5 81.4 77.9 75.6 76.9	83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4	83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.3	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.3	83.4 83.7 81.0 80.8 76.3 76.6 76.6	83.5 84.1 83.1 81.2 80.3 76.2 76.6 76.4	83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8	83.3 84.6 82.6 81.5 80.0 75.3 76.5 76.9	83.7 84.8 82.1 81.6 79.8 74.9 76.9	83.9 84.5 81.9 81.9 79.4 74.7 76.5 77.4	82.7 84.0 84.1 81.4 78.3 75.3 77.0	83.6 83.6 83.4 81.5 77.2 76.3 76.3	83.5 84.0 82.5 80.9 80.5 76.1 76.6 76.6	83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2	83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 78.5
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003 2004	134.7 135.7 82.2 83.6 84.5 81.8 81.5 78.8 75.2 77.0 77.5	134.7 135.9 83.1 84.1 84.1 81.8 81.4 78.2 75.0 77.1 78.0	134.8 136.1 82.7 84.2 83.8 81.5 81.4 77.9 75.6 76.9 77.6	134.8 136.3 83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4 77.9	134.8 136.5 83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.3 78.6	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.3 77.9	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.6 76.6 78.6	135.0 137.2 83.5 84.1 83.1 81.2 80.3 76.2 76.6 76.4 78.6	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8 78.6	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3 76.5 76.9 79.4	135.4 138.0 83.7 84.8 82.1 81.6 79.8 74.9 76.9 77.4 79.6	135.5 138.2 83.9 84.5 81.9 79.4 74.7 76.5 77.4 80.1	134.7 135.9 82.7 84.0 84.1 81.7 81.4 78.3 77.0 77.7	134.8 136.5 83.6 83.6 83.4 81.2 81.5 77.2 76.3 78.2	135.0 137.2 83.5 84.0 82.5 80.9 80.5 76.1 76.6 78.6	135.4 138.0 83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2 79.7	83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 78.5
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	134.7 135.7 82.2 83.6 84.5 81.8 81.5 78.8 75.2 77.0 77.5 80.4 80.6 79.9	134.7 135.9 83.1 84.1 84.1 81.8 81.4 78.2 75.0 77.1 78.0 80.8 80.5 80.5	134.8 136.1 82.7 84.2 83.8 81.5 81.4 77.9 75.6 76.9 77.6 80.6	134.8 136.3 83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4 77.9 80.6 80.7 80.9	134.8 136.5 83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.3 78.6 80.7 80.4 80.9	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.3 77.9 80.9 80.6 81.0	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.6 76.6 78.6 80.5	83.5 84.1 83.1 81.2 80.3 76.2 76.6 76.4 78.6 80.5 80.5	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8 78.6 78.8 80.1 81.3	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3 76.5 76.9 79.4 79.6	135.4 138.0 83.7 84.8 82.1 81.6 79.8 74.9 76.9 77.4 79.6 80.3 79.7 81.3	135.5 138.2 83.9 84.5 81.9 79.4 74.7 76.5 77.4 80.1 80.7 80.4 81.3	82.7 84.0 84.1 81.7 81.4 78.3 77.0 77.7 80.6 80.6 80.3	134.8 136.5 83.6 83.4 81.2 81.5 77.2 76.3 76.3 78.2 80.7 80.6 80.9	83.5 84.0 82.5 80.9 80.5 76.1 76.6 78.6 79.9 80.3 81.1	135.4 138.0 83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2 79.7 80.2 80.0 81.2	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 80.4 80.4
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	134.7 135.7 82.2 83.6 84.5 81.8 81.5 78.8 75.2 77.0 77.5 80.4 80.6 79.9 81.1	134.7 135.9 83.1 84.1 84.1 81.8 81.4 78.2 75.0 77.1 78.0 80.8 80.5 80.5	134.8 136.1 82.7 84.2 83.8 81.5 81.4 77.9 75.6 76.9 77.6 80.6 80.5 80.5	134.8 136.3 83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4 77.9 80.6 80.7 80.9	134.8 136.5 83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.3 78.6 80.7 80.4 80.9 79.4	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.3 77.9 80.9 80.6 81.0 79.2	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.6 76.6 78.6 80.5 80.4 80.9 78.8	135.0 137.2 83.5 84.1 83.1 81.2 80.3 76.2 76.6 76.4 78.6 80.5 81.1 77.5	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8 78.6 78.8 80.1 81.3 74.0	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3 76.5 76.9 79.4 79.6 79.9 80.9	135.4 138.0 83.7 84.8 82.1 81.6 79.8 74.9 76.9 77.4 79.6 80.3 79.7 81.3 73.9	135.5 138.2 83.9 84.5 81.9 79.4 74.7 76.5 77.4 80.1 80.7 80.4 81.3 71.7	134.7 135.9 82.7 84.0 84.1 81.7 81.4 78.3 75.3 77.0 77.7 80.6 80.6 80.3 80.8	134.8 136.5 83.6 83.4 81.2 81.5 77.2 76.3 76.3 78.2 80.7 80.6 80.9 79.5	135.0 137.2 83.5 84.0 82.5 80.9 80.5 76.1 76.6 78.6 79.9 80.3 81.1 76.7	135.4 138.0 83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2 79.7 80.2 80.0 81.2 73.5	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 78.5 80.4 80.4 80.9 77.6
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	134.7 135.7 82.2 83.6 84.5 81.8 81.5 78.8 75.2 77.0 77.5 80.4 80.6 79.9 81.1 69.9	134.7 135.9 83.1 84.1 84.1 81.8 81.4 78.2 75.0 77.1 78.0 80.8 80.5 80.5 80.5	134.8 136.1 82.7 84.2 83.8 81.5 81.4 77.9 75.6 76.9 77.6 80.6 80.5 80.5 80.6 68.1	134.8 136.3 83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4 77.9 80.6 80.7 80.9 79.9 67.5	134.8 136.5 83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.3 78.6 80.7 80.4 80.9 79.4 66.7	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.3 77.9 80.9 80.6 81.0 79.2 66.5	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.6 76.6 78.6 80.5 80.4 80.9 78.8 67.3	135.0 137.2 83.5 84.1 83.1 81.2 80.3 76.2 76.6 76.4 78.6 80.5 80.5 81.1 77.5 68.1	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8 78.6 78.8 80.1 81.3 74.0 68.7	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3 76.5 76.9 79.4 79.6 79.9 80.9 74.8 69.0	135.4 138.0 83.7 84.8 82.1 81.6 79.8 74.9 76.9 77.4 79.6 80.3 79.7 81.3 73.9 69.4	135.5 138.2 83.9 84.5 81.9 79.4 74.7 76.5 77.4 80.1 80.7 80.4 81.3 71.7 69.8	134.7 135.9 82.7 84.0 84.1 81.7 81.4 78.3 77.0 77.7 80.6 80.6 80.3 80.8 69.1	134.8 136.5 83.6 83.4 81.2 81.5 77.2 76.3 78.2 80.7 80.6 80.9 79.5 66.9	135.0 137.2 83.5 84.0 82.5 80.9 80.5 76.1 76.6 78.6 79.9 80.3 81.1 76.7 68.0	135.4 138.0 83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2 79.7 80.2 80.0 81.2 73.5 69.4	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 78.5 80.4 80.4 80.9 77.6 68.4
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	134.7 135.7 82.2 83.6 84.5 81.8 81.5 78.8 75.2 77.0 77.5 80.4 80.6 79.9 81.1	134.7 135.9 83.1 84.1 84.1 81.8 81.4 78.2 75.0 77.1 78.0 80.8 80.5 80.5	134.8 136.1 82.7 84.2 83.8 81.5 81.4 77.9 75.6 76.9 77.6 80.6 80.5 80.5	134.8 136.3 83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4 77.9 80.6 80.7 80.9	134.8 136.5 83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.3 78.6 80.7 80.4 80.9 79.4	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.3 77.9 80.9 80.6 81.0 79.2	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.6 76.6 78.6 80.5 80.4 80.9 78.8	135.0 137.2 83.5 84.1 83.1 81.2 80.3 76.2 76.6 76.4 78.6 80.5 81.1 77.5	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8 78.6 78.8 80.1 81.3 74.0	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3 76.5 76.9 79.4 79.6 79.9 80.9	135.4 138.0 83.7 84.8 82.1 81.6 79.8 74.9 76.9 77.4 79.6 80.3 79.7 81.3 73.9	135.5 138.2 83.9 84.5 81.9 79.4 74.7 76.5 77.4 80.1 80.7 80.4 81.3 71.7	134.7 135.9 82.7 84.0 84.1 81.7 81.4 78.3 75.3 77.0 77.7 80.6 80.6 80.3 80.8	134.8 136.5 83.6 83.4 81.2 81.5 77.2 76.3 76.3 78.2 80.7 80.6 80.9 79.5	135.0 137.2 83.5 84.0 82.5 80.9 80.5 76.1 76.6 78.6 79.9 80.3 81.1 76.7	135.4 138.0 83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2 79.7 80.2 80.0 81.2 73.5	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 78.5 80.4 80.4 80.9 77.6
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010	134.7 135.7 82.2 83.6 84.5 81.8 81.5 78.8 75.2 77.0 77.5 80.4 80.6 79.9 81.1 69.9 70.7	134.7 135.9 83.1 84.1 81.8 81.4 78.2 75.0 77.1 78.0 80.8 80.5 80.5 80.5 71.0	134.8 136.1 82.7 84.2 83.8 81.5 81.4 77.9 75.6 76.9 77.6 80.6 80.5 80.5 80.6 68.1 71.6	134.8 136.3 83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4 77.9 80.6 80.7 80.9 79.9 67.5 72.0	134.8 136.5 83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.3 78.6 80.7 80.4 80.9 79.4 66.7 73.2	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.3 77.9 80.9 80.6 81.0 79.2 66.5 73.5	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.6 76.6 76.6 80.5 80.4 80.9 78.8 67.3 74.0	135.0 137.2 83.5 84.1 83.1 81.2 80.3 76.2 76.6 76.4 78.6 80.5 81.1 77.5 68.1 74.4	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8 78.6 78.8 80.1 81.3 74.0 68.7 74.6	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3 76.5 79.4 79.6 79.9 80.9 74.8 69.0 74.5	135.4 138.0 83.7 84.8 82.1 81.6 79.8 74.9 76.9 77.4 79.6 80.3 79.7 81.3 73.9 69.4 74.6	83.9 84.5 81.9 79.4 74.7 76.5 77.4 80.1 80.7 80.4 81.3 71.7 69.8 75.4	82.7 84.0 84.1 81.7 81.4 78.3 75.3 77.0 77.7 80.6 80.6 80.3 80.8 69.1 71.1	134.8 136.5 83.6 83.4 81.2 81.5 77.2 76.3 76.3 78.2 80.7 80.6 80.9 79.5 66.9 72.9	83.5 84.0 82.5 80.9 80.5 76.1 76.6 78.6 79.9 80.3 81.1 76.7 68.0 74.3	135.4 138.0 83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2 79.7 80.2 80.0 81.2 73.5 69.4 74.8	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 80.4 80.9 77.6 68.4 73.3
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	134.7 135.7 82.2 83.6 84.5 81.8 81.5 78.8 75.2 77.0 77.5 80.4 80.6 79.9 81.1 69.9 70.7 75.3 77.6	134.7 135.9 83.1 84.1 84.1 81.8 81.4 78.2 75.0 77.1 78.0 80.8 80.5 80.5 80.5 80.5 71.0 75.0 77.6	134.8 136.1 82.7 84.2 83.8 81.5 81.4 77.9 75.6 76.9 77.6 80.6 80.5 80.5 80.6 68.1 71.6	134.8 136.3 83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4 77.9 80.6 80.7 80.9 79.9 67.5 72.0	134.8 136.5 83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.3 78.6 80.7 80.4 80.9 79.4 66.7 73.2 75.8 77.6	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.3 77.9 80.9 80.6 81.0 79.2 66.5 73.5	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.6 76.6 78.6 80.5 80.4 80.9 78.8 67.3 74.0	135.0 137.2 83.5 84.1 83.1 81.2 80.3 76.2 76.6 76.4 78.6 80.5 81.1 77.5 68.1 74.4	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8 78.6 78.8 80.1 81.3 74.0 68.7 74.6	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3 76.5 76.9 79.4 79.6 79.9 80.9 74.8 69.0 74.5	135.4 138.0 83.7 84.8 82.1 81.6 79.8 74.9 76.9 77.4 79.6 80.3 79.7 81.3 73.9 69.4 74.6	135.5 138.2 83.9 84.5 81.9 79.4 74.7 76.5 77.4 80.1 80.7 80.4 81.3 71.7 69.8 75.4	134.7 135.9 82.7 84.0 84.1 81.7 81.4 78.3 75.3 77.0 77.7 80.6 80.3 80.8 69.1 71.1	134.8 136.5 83.6 83.4 81.2 81.5 77.2 76.3 76.3 78.2 80.7 80.6 80.9 79.5 66.9 72.9	83.5 84.0 82.5 80.9 80.5 76.1 76.6 78.6 79.9 80.3 81.1 76.7 68.0 74.3	135.4 138.0 83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2 79.7 80.2 80.0 81.2 73.5 69.4 74.8	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 80.4 80.9 77.6 68.4 73.3 76.2 77.3
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	134.7 135.7 82.2 83.6 84.5 81.8 81.5 78.8 75.2 77.0 77.5 80.4 80.6 79.9 81.1 69.9 70.7 75.3 77.6 77.3	134.7 135.9 83.1 84.1 84.1 81.8 81.4 78.2 75.0 77.1 78.0 80.8 80.5 80.5 80.5 71.0 75.0 77.6 77.7	134.8 136.1 82.7 84.2 83.8 81.5 81.4 77.9 75.6 76.9 77.6 80.6 80.5 80.5 80.6 68.1 71.6	134.8 136.3 83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4 77.9 80.6 80.7 80.9 79.9 67.5 72.0	134.8 136.5 83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.3 78.6 80.7 80.4 80.9 79.4 66.7 73.2 75.8 77.6 77.7	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.3 77.9 80.9 80.6 81.0 79.2 66.5 73.5	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.6 76.6 78.6 80.5 80.4 80.9 78.8 67.3 74.0	135.0 137.2 83.5 84.1 83.1 81.2 80.3 76.2 76.6 76.4 78.6 80.5 81.1 77.5 68.1 74.4	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8 78.6 78.8 80.1 81.3 74.0 68.7 74.6	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3 76.5 76.9 79.4 79.6 79.9 80.9 74.8 69.0 74.5 77.0 77.0	135.4 138.0 83.7 84.8 82.1 81.6 79.8 74.9 76.9 77.4 79.6 80.3 79.7 81.3 73.9 69.4 74.6	135.5 138.2 83.9 84.5 81.9 79.4 74.7 76.5 77.4 80.1 80.7 80.4 81.3 71.7 69.8 75.4 77.2 77.4 78.3	134.7 135.9 82.7 84.0 84.1 81.7 81.4 78.3 75.3 77.0 77.7 80.6 80.6 80.3 80.8 69.1 71.1 75.4 77.4 77.6	134.8 136.5 83.6 83.6 83.4 81.2 81.5 77.2 76.3 76.3 78.2 80.7 80.6 80.9 79.5 66.9 72.9	135.0 137.2 83.5 84.0 82.5 80.9 80.5 76.1 76.6 78.6 79.9 80.3 81.1 76.7 68.0 74.3	135.4 138.0 83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2 79.7 80.2 80.0 81.2 73.5 69.4 74.8 77.0 77.2 78.1	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 78.5 80.4 80.9 77.6 68.4 73.3 77.8
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	134.7 135.7 82.2 83.6 84.5 81.5 78.8 75.2 77.0 80.4 80.6 79.9 81.1 69.9 70.7 75.3 77.6 77.3 77.9	134.7 135.9 83.1 84.1 81.8 81.4 78.2 75.0 77.1 78.0 80.8 80.5 80.5 80.5 77.0 77.6 77.6 77.7	134.8 136.1 82.7 84.2 83.8 81.5 81.4 77.9 75.6 76.6 80.6 80.5 80.5 80.6 68.1 71.6 75.9 77.1 77.9	134.8 136.3 83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4 77.9 80.6 80.7 80.9 79.9 67.5 72.0 75.6 77.6 77.7	134.8 136.5 83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.8 80.7 80.4 80.9 79.4 66.7 73.2 75.8 77.6 77.7	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.9 80.9 80.6 81.0 79.2 66.5 73.5 75.9 77.4 77.8 79.4	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.6 76.6 78.6 80.5 80.4 80.9 78.8 67.3 74.0	135.0 137.2 83.5 84.1 83.1 81.2 80.3 76.2 76.6 76.4 78.6 80.5 81.1 77.5 68.1 74.4 76.7 77.1 77.8 79.2	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8 80.1 81.3 74.0 68.7 74.6 76.6 76.9 78.1 79.3	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3 76.5 76.9 99.4 79.6 79.9 74.8 69.0 74.5 77.0 77.0 78.0	135.4 138.0 83.7 84.8 82.1 81.6 79.8 74.9 76.9 77.4 79.6 80.3 79.7 81.3 73.9 69.4 74.6 76.9 77.3 78.1	135.5 138.2 83.9 84.5 81.9 79.4 74.7 76.5 77.4 80.1 80.7 80.4 81.3 71.7 69.8 75.4 77.2 77.4 78.3 79.6	134.7 135.9 82.7 84.0 84.1 81.7 81.4 78.3 77.0 77.7 80.6 80.6 80.3 80.8 69.1 71.1 75.4 77.6 78.5	134.8 136.5 83.6 83.6 83.4 81.2 81.5 77.2 76.3 76.3 78.2 80.7 80.6 80.9 79.5 66.9 72.9	83.5 84.0 82.5 80.9 80.5 76.1 76.6 78.6 78.6 79.9 80.3 81.1 76.7 68.0 74.3 76.5 77.2 77.7	135.4 138.0 83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2 79.7 80.2 80.0 81.2 73.5 69.4 74.8 77.0 77.2 78.1	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 80.4 80.4 80.9 77.6 68.4 73.3 77.8 77.8
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	134.7 135.7 82.2 83.6 84.5 81.8 81.5 78.8 75.2 77.0 77.5 80.4 80.6 79.9 81.1 69.9 70.7 75.3 77.6 77.3	134.7 135.9 83.1 84.1 84.1 81.8 81.4 78.2 75.0 77.1 78.0 80.8 80.5 80.5 80.5 71.0 75.0 77.6 77.7	134.8 136.1 82.7 84.2 83.8 81.5 81.4 77.9 75.6 76.9 77.6 80.6 80.5 80.5 80.6 68.1 71.6	134.8 136.3 83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4 77.9 80.6 80.7 80.9 79.9 67.5 72.0	134.8 136.5 83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.3 78.6 80.7 80.4 80.9 79.4 66.7 73.2 75.8 77.6 77.7	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.3 77.9 80.9 80.6 81.0 79.2 66.5 73.5	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.6 76.6 78.6 80.5 80.4 80.9 78.8 67.3 74.0	135.0 137.2 83.5 84.1 83.1 81.2 80.3 76.2 76.6 76.4 78.6 80.5 81.1 77.5 68.1 74.4	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8 78.6 78.8 80.1 81.3 74.0 68.7 74.6	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3 76.5 76.9 79.4 79.6 79.9 80.9 74.8 69.0 74.5 77.0 77.0	135.4 138.0 83.7 84.8 82.1 81.6 79.8 74.9 76.9 77.4 79.6 80.3 79.7 81.3 73.9 69.4 74.6	135.5 138.2 83.9 84.5 81.9 79.4 74.7 76.5 77.4 80.1 80.7 80.4 81.3 71.7 69.8 75.4 77.2 77.4 78.3	134.7 135.9 82.7 84.0 84.1 81.7 81.4 78.3 75.3 77.0 77.7 80.6 80.6 80.3 80.8 69.1 71.1 75.4 77.4 77.6	134.8 136.5 83.6 83.6 83.4 81.2 81.5 77.2 76.3 76.3 78.2 80.7 80.6 80.9 79.5 66.9 72.9	135.0 137.2 83.5 84.0 82.5 80.9 80.5 76.1 76.6 78.6 79.9 80.3 81.1 76.7 68.0 74.3	135.4 138.0 83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2 79.7 80.2 80.0 81.2 73.5 69.4 74.8 77.0 77.2 78.1	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 80.4 80.4 80.9 77.6 68.4 73.3 77.8 77.8
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	134.7 135.7 82.2 83.6 84.5 81.8 81.5 78.8 75.2 77.0 77.5 80.4 80.6 79.9 81.1 69.9 70.7 75.3 77.6 77.3 77.9 79.0	134.7 135.9 83.1 84.1 81.8 81.4 78.2 75.0 77.1 78.0 80.8 80.5 80.5 80.5 71.0 75.0 77.6 77.7 78.5 78.6	134.8 136.1 82.7 84.2 83.8 81.5 81.4 77.9 75.6 76.9 77.6 80.6 80.5 80.5 80.5 80.6 68.1 71.6 75.9 77.1 77.9 79.1 78.2	134.8 136.3 83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4 77.9 80.6 80.7 80.9 79.9 67.5 72.0 75.6 77.6 77.7 79.1 77.8	134.8 136.5 83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.3 78.6 80.7 80.4 80.9 79.4 66.7 73.2 75.8 77.6 77.7 79.3 77.3	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.3 77.9 80.9 80.6 81.0 79.2 66.5 73.5 75.9 77.4 77.8 79.4 77.0	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.3 76.6 78.6 80.5 80.4 80.9 78.8 67.3 74.0 76.3 77.5 77.3	83.5 84.1 83.1 81.2 80.3 76.2 76.6 76.4 78.6 80.5 81.1 77.5 68.1 74.4 77.1 77.8 79.2 77.3	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8 78.6 78.6 78.8 80.1 81.3 74.0 68.7 74.6 76.9 78.1 79.3 77.0	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3 76.5 79.4 79.6 79.9 80.9 74.8 69.0 74.5 77.0 77.0 78.0 79.2 76.7	135.4 138.0 83.7 84.8 82.1 81.6 79.8 76.9 77.4 79.6 80.3 79.7 81.3 73.9 69.4 74.6 76.9 77.3 78.1 79.8 76.2	83.9 84.5 81.9 79.4 74.7 76.5 77.4 80.1 80.7 80.4 81.3 71.7 69.8 75.4 77.2 77.4 78.3 79.6 75.8	82.7 84.0 84.1 81.7 81.4 78.3 75.3 77.0 77.7 80.6 80.6 80.3 80.8 69.1 71.1 75.4 77.4 77.6 78.5 78.6	134.8 136.5 83.6 83.4 81.2 81.5 77.2 76.3 76.3 78.2 80.7 80.6 80.9 79.5 66.9 72.9 75.8 77.5 77.7 79.3 77.4	83.5 84.0 82.5 80.9 80.5 76.1 76.6 78.6 79.9 80.3 81.1 76.7 68.0 74.3 76.5 77.2 77.7	135.4 138.0 83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2 79.7 80.2 80.0 81.2 73.5 69.4 74.8 77.0 77.2 78.1 79.5 76.2	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 80.4 80.9 77.6 68.4 73.3 77.8 79.2 77.4
2018 Utilization (percent) 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	134.7 135.7 82.2 83.6 84.5 81.8 81.5 78.8 75.2 77.0 77.5 80.4 80.6 79.9 81.1 69.9 70.7 75.3 77.6 77.3 77.9	134.7 135.9 83.1 84.1 81.8 81.4 78.2 75.0 77.1 78.0 80.8 80.5 80.5 80.5 71.0 75.0 77.6 77.7 78.5	134.8 136.1 82.7 84.2 83.8 81.5 81.4 77.9 75.6 80.6 80.5 80.5 80.6 68.1 71.6 75.9 77.1 77.9 79.1	134.8 136.3 83.3 83.7 83.6 81.2 81.7 77.7 75.8 76.4 77.9 80.6 80.7 80.9 79.9 67.5 72.0	134.8 136.5 83.6 83.7 83.8 81.5 81.4 77.2 76.1 76.3 78.6 80.7 80.4 80.9 79.4 66.7 77.7 73.2 75.8 77.6 77.7 79.3 77.3	134.9 136.8 83.9 83.6 82.7 80.9 81.3 76.7 76.8 76.3 77.9 80.9 80.6 81.0 79.2 66.5 73.5	134.9 137.0 83.4 83.7 81.9 81.0 80.8 76.3 76.6 80.5 80.4 80.9 78.8 67.3 74.0 76.3 77.5 77.3 79.4	83.5 84.1 83.1 81.2 80.3 76.2 76.6 80.5 80.5 81.1 77.5 68.1 74.4 76.7 77.1 77.8 79.2	135.1 137.5 83.7 84.3 82.4 80.6 80.5 75.8 76.7 76.8 78.6 78.8 80.1 81.3 74.0 68.7 74.6 76.6 76.9 77.1	135.2 137.7 83.3 84.6 82.6 81.5 80.0 75.3 76.5 79.4 79.6 79.9 80.9 74.8 69.0 74.5 77.0 77.0 77.0 78.0 79.2	135.4 138.0 83.7 84.8 82.1 81.6 79.8 74.9 76.9 77.4 79.6 80.3 79.7 81.3 73.9 69.4 74.6	83.9 84.5 81.9 79.4 74.7 76.5 77.4 80.1 80.7 80.4 81.3 71.7 69.8 75.4 77.2 77.4 78.3 79.6 75.8	82.7 84.0 84.1 81.7 81.4 78.3 75.3 77.0 77.7 80.6 80.6 80.3 80.8 69.1 71.1 75.4 77.4 77.6 78.5 78.6	134.8 136.5 83.6 83.4 81.2 81.5 77.2 76.3 76.3 78.2 80.7 80.6 80.9 79.5 66.9 72.9 75.8 77.7 79.3 77.4	83.5 84.0 82.5 80.9 80.5 76.1 76.6 79.9 80.3 81.1 76.7 68.0 74.3 76.5 77.2 77.7	135.4 138.0 83.6 84.6 82.2 81.6 79.7 75.0 76.6 77.2 79.7 80.2 80.0 81.2 73.5 69.4 74.8 77.0 77.2 78.1 79.7	135.0 136.9 83.4 84.1 83.0 81.4 80.8 76.6 76.2 76.8 77.5 80.4 80.9 77.6 68.4 73.3 77.8 79.2 77.4

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

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

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

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent change) ³ 1996 1997 1998 1999 2000	-1.2 2 .6 1 3	1.3 1.1 .0 .5 2	4 .7 3 4	1.0 5 .3 .0	.5 .4 .4 .7 6	.8 .4 -1.2 7 .0	1 .4 8 .0 2	.2 1.0 2.3 .6 -1.0	.6 .6 6 5	5 .7 .7 1.4 5	.7 .8 1 .4 5	.7 .1 .2 .4 8	-2.1 6.3 3.4 .6 .3	7.4 2.7 2 .3 .8	4.2 6.7 5 .0 -3.8	2.9 8.2 4.1 6.8 -4.6	1.5 5.0 3.5 1.3
2001 2002 2003 2004 2005	6 .7 .4 1	6 2 1 .7	3 .7 .0 2 6	2 .2 -1.0 .4 .2	6 .5 1 .8	5 1.1 .3 8	2 4 .0 1.0 5	4 .1 6 .4	2 .1 .7 1 -1.3	6 4 .0 1.0	2 .4 .9 1	.1 6 3 .6	-6.9 3.2 .5 1.5 5.3	-4.4 5.4 -3.9 3.1 1.3	-4.5 2.4 .0 3.8 -2.1	-4.1 9 2.9 4.8 5.0	-4.7 .4 .0 2.0 3.1
2006 2007 2008 2009 2010	.8 6 5 -3.1 1.0	4 .3 8 2 3	1 .6 5 -2.0 1.1	.5 .5 -1.3 8	5 .0 7 -1.1 1.4	.3 .5 7 3 1	4 .1 -1.1 1.5 .5	.5 4 -1.2 1.2 .0	1 .3 -3.6 .8 .0	4 6 4 .1	.0 .3 -2.2 .9 1	1.5 .1 -3.3 2 .3	3.1 3.1 -4.2 -24.4 5.5	1 4.7 -9.8 -11.6 9.6	2 1.0 -14.5 8.1 3.7	.6 -1.1 -20.7 6.6 .5	1.5 1.8 -5.9 -13.9 5.1
2011 2012 2013 2014 2015	.1 .8 4 -1.2 5	.1 .3 .5 1.1 6	.6 6 2 .8 .3	6 .5 5 2	.1 5 .2 .2 1	.0 .1 .2 .3 4	.7 1 -1.1 .4 .7	.3 2 1.0 5 3	.4 1 .1 .0 4	.6 5 .0 1 1	3 .8 1 .8 2	.7 .9 .0 3 3	2.5 4.9 2.9 -1.0 -3.0	2 3 7 3.7 -1.2	4.2 -1.5 9 1.2	4.0 .7 1.6 .5 -2.7	2.5 2.3 .5 .8 7
2016 2017 2018	.5 .4 5	4 .2 1.5	3 5 1	4 1.1 .6	1 4 -1.0	.3 .1 .7	.1 2 .3	4 2 .4	.2 2 .3	.2 1.3 1	.0 .2 .1	.3 1 1.1	3 2.2 1.8	-2.7 2.3 2.2	.4 -2.1 3.4	1.3 5.0 2.3	-1.0 1.1 2.3
IP (2012=100) 2016 2017 2018	100.3 100.3 101.0	99.9 100.5 102.5	99.7 100.0 102.4	99.3 101.1 103.0	99.2 100.6 102.0	99.4 100.8 102.6	99.5 100.5 103.0	99.2 100.3 103.4	99.4 100.1 103.7	99.6 101.4 103.6	99.6 101.6 103.7	99.9 101.5 104.7	100.0 100.2 102.0	99.3 100.8 102.5	99.4 100.3 103.4	99.7 101.5 104.0	99.6 100.7 103.0
Capacity (percent of 2012 output) 2016 2017 2018	132.7 134.2 135.1	132.8 134.3 135.2	132.9 134.3 135.3	133.1 134.4 135.5	133.2 134.5 135.6	133.4 134.5 135.8	133.5 134.6 135.9	133.7 134.6 136.1	133.8 134.7 136.2	133.9 134.8 136.3	134.0 134.9 136.5	134.1 135.0 136.6	132.8 134.3 135.2	133.2 134.5 135.6	133.6 134.6 136.1	134.0 134.9 136.5	133.4 134.6 135.8
Utilization (percent) 1996 1997 1998	80.8 82.3 83.5 80.5	81.7 83.0 83.2 80.6	81.1 83.3 82.6 80.0	81.8 82.5 82.4 79.9	82.1 82.5 82.5 80.2	82.6 82.5 81.2 79.4	82.3 82.5 80.2 79.3	82.3 83.0 81.8 79.6	82.6 83.1 81.0 79.0	82.0 83.3 81.3 80.0	82.4 83.7 80.9 80.1	82.7 83.4 80.8 80.3	81.2 82.9 83.1 80.4	82.2 82.5 82.0 79.8	82.4 82.9 81.0 79.3	82.4 83.5 81.0 80.1	82.0 82.9 81.8 79.9
2000 2001 2002 2003 2004 2005	79.9 76.1 73.3 75.0 75.3 78.7	79.7 75.6 73.1 75.0 75.9 79.2	79.8 75.3 73.6 75.1 75.8 78.7	75.1 73.8 74.3 76.1 78.8	79.4 74.6 74.2 74.3 76.8 79.0	79.3 74.2 75.0 74.6 76.2 78.9	79.0 74.0 74.7 74.6 77.0 78.4	78.2 73.6 74.9 74.2 77.3 78.6	78.3 73.4 74.9 74.8 77.2 77.4	77.9 72.9 74.7 74.8 77.9 78.4	77.4 72.7 75.0 75.5 77.9 78.9	76.7 72.8 74.6 75.4 78.3 78.8	79.8 75.7 73.3 75.0 75.7 78.9	79.6 74.7 74.3 74.4 76.4 78.9	78.5 73.7 74.8 74.6 77.1 78.1	77.3 72.8 74.8 75.2 78.0 78.7	78.8 74.2 74.3 74.8 76.8 78.7
2006 2007 2008 2009 2010	79.3 78.2 78.6 65.6 67.7	78.9 78.4 78.0 65.5 67.7	78.7 78.8 77.6 64.3 68.6	78.9 79.1 76.7 64.0 69.3	78.4 79.0 76.2 63.4 70.4	78.5 79.4 75.7 63.3 70.4	78.1 79.3 74.9 64.4 71.0	78.4 79.0 74.0 65.3 71.1	78.2 79.2 71.4 65.9 71.3	77.8 78.7 71.2 66.2 71.5	77.7 79.0 69.8 66.9 71.6	78.8 79.0 67.6 66.9 72.0	79.0 78.5 78.1 65.2 68.0	78.6 79.2 76.2 63.5 70.0	78.3 79.2 73.4 65.2 71.1	78.1 78.9 69.5 66.7 71.7	78.5 78.9 74.3 65.1 70.2
2011 2012 2013 2014 2015	72.2 75.4 75.1 74.5 76.2	72.4 75.6 75.4 75.3 75.8	73.0 75.1 75.3 75.9 76.1	72.7 75.5 75.0 75.7 76.0	72.9 75.0 75.1 75.9 76.0	73.0 75.1 75.3 76.2 75.8	73.5 74.9 74.5 76.4 76.3	73.8 74.8 75.2 76.1 76.1	74.1 74.6 75.3 76.1 75.7	74.5 74.2 75.4 76.0 75.7	74.3 74.8 75.3 76.7 75.5	74.8 75.4 75.4 76.5 75.2	72.5 75.4 75.3 75.2 76.0	72.8 75.2 75.1 75.9 75.9	73.8 74.8 75.0 76.2 76.0	74.6 74.8 75.4 76.4 75.5	73.4 75.0 75.2 75.9 75.9
2016 2017 2018	75.6 74.7 74.8	75.2 74.8 75.8	75.0 74.4 75.7	74.6 75.2 76.0	74.4 74.8 75.2	74.5 74.9 75.6	74.6 74.7 75.8	74.2 74.5 76.0	74.3 74.3 76.2	74.4 75.2 76.0	74.3 75.3 75.9	74.5 75.2 76.7	75.3 74.7 75.4	74.5 75.0 75.6	74.4 74.5 76.0	74.4 75.3 76.2	74.6 74.8 75.8

^{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.

Table 15
INDUSTRIAL PRODUCTION: RELIABILITY ESTIMATES
Seasonally adjusted Annualized Annualized

		alized			2012	100									
	cha	nge	2012=100							Percent change					
	2018		2018						2018						
Item	Q3	Q4	July	Aug.	Sept.	Oct.	Nov.	Dec.	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Total index															
85th percentile	4.94	4.78	107.89	108.85	109.05	109.35	109.89	110.35	.42	.88	.23	.37	.68	.66	
Current estimate	4.73	3.79	107.89	108.79	108.94	109.15	109.57	109.95	.42	.83	.13	.20	.38	.35	
15th percentile	4.53	3.06	107.89	108.73	108.83	108.97	109.30	109.53	.42	.78	.04	.08	.14	.00	
Manufacturing (SIC)															
85th percentile	3.95	3.15	104.37	104.93	105.24	105.13	105.29	106.55	.37	.54	.33	05	.25	1.31	
Current estimate	3.69	2.30	104.37	104.87	105.12	104.95	105.05	106.15	.37	.48	.24	16	.09	1.05	
15th percentile	3.51	1.28	104.37	104.81	105.00	104.76	104.76	105.72	.37	.42	.13	28	06	.76	
Mining															
85th percentile	17.93	12.35	123.81	126.75	127.69	127.70	129.79	132.03	.83	2.38	.84	.31	2.01	2.45	
Current estimate	17.36	9.20	123.81	126.59	127.32	127.09	128.54	130.49	.83	2.25	.57	18	1.14	1.52	
15th percentile	16.76	6.03	123.81	126.43	126.90	126.37	127.22	128.76	.83	2.12	.27	57	.41	.63	
Electric and gas utilities															
85th percentile	-5.53	10.92	104.23	105.42	104.11	108.16	110.79	103.87	.16	1.14	-1.23	4.15	3.03	-4.50	
Current estimate	-5.65	6.18	104.23	105.41	104.05	107.53	108.88	102.02	.16	1.13	-1.28	3.34	1.25	-6.30	
15th percentile	-5.80	4.24	104.23	105.39	103.98	107.22	107.68	100.97	.16	1.11	-1.35	3.11	13	-8.07	

The reliability measures show the likely range of values for the IP indexes after their fifth and final monthly revision. The 15th (85th) percentile estimate is equal to the current estimate plus an amount such that the equivalent measure revised by a lower (higher) amount for only 15 percent of the months since 2008. More information is available at https://www.federalreserve.gov/releases/g17/g17_technical_qa.htm

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 the manufacturing, mining, and electric and gas utilities industries; the reference period for the index is 2012. Manufacturing consists of those industries included in the North American Industry Classification System, or NAICS, definition of manufacturing plus those industries—logging and newspaper, periodical, book, and directory publishing—that have traditionally been considered to be manufacturing and included in the industrial sector. For the period since 1997, the total IP index has been constructed from 300 individual series based on the 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 at 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 typically 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 semiconductors. When suitable data on physical product are not available, estimates of output are based on production-worker hours by industry. Data on hours worked by production workers are collected in the monthly establishment survey conducted by the Bureau of Labor Statistics. The factors used to convert inputs into estimates of production are based on historical relationships between the inputs and the comprehensive annual data used to benchmark the IP indexes; these factors also may be influenced by technological or cyclical developments. The annual data used in benchmarking the individual IP indexes are constructed from a variety of source data, such as the quinquennial Censuses of Manufactures and Mineral Industries and the Annual Survey of Manufactures, prepared by the Bureau of the Census; the Minerals Yearbook, prepared by the U.S. 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 Bulletin* February 1997 and March 2001.) In the IP index, series that measure the output of an individual industry are combined using weights derived from their proportion in the total value-added output of all industries. The IP index, which extends back to 1919, is built as a chain-type index since 1972. The current formula for the growth in monthly IP (or any of the sub-aggregates) since 1972 is the geometric mean of the change in output (*I*), and, as can be seen below, is computed using the unit value added estimate for the current

month (p_m) and the estimate for previous month:

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

The IP proportions (typically shown in the first column of the relevant tables in the monthly G.17 release) are estimates of the industries' relative contributions to overall growth in the following year. For example, the relative importance weight of the motor vehicles and parts industry is about 6 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by 6/10 percentage point $(0.06 \times 10\% = 0.6\%)$. To assist users with calculations, the Federal Reserve's 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 74 percent of the source data (in value-added terms) are available; the fraction of available source data increases to 85 percent for estimates in the second month that the estimate is published, 95 percent in the third month, 96 percent in the fourth month, 97 percent in the fifth month, and 97 percent in the sixth month. Data availability by data type in early 2017 is summarized in the table below:

Availability of Monthly IP Data in Publication Window (Percent of value added in 2017; the numbers may not sum because of rounding.)

rounding.)									
	Month of estimate								
Type of data	1st	2nd	3rd	4th	5th	6th			
Physical product	32	44	54	55	56	56			
Production-worker hours	41	41	41	41	41	41			
IP data received	74	85	95	96	97	97			
IP data estimated	26	15	5	4	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 more than one-half of the series (in terms of value added) that ultimately are based on physical product data (32 percent out of a total of 56 percent). Of the 27 percent, about four-fifths (25 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-13 ARIMA. For series based on production-worker hours, the current seasonal factors were estimated with data through January 2018; for other series, the factors were estimated with data through at least December 2017. Series are pre-adjusted for the effects of holidays or the business cycle when appropriate. For the data since 1972, all seasonally adjusted aggregate indexes are calculated by aggregating the seasonally adjusted indexes of the individual series. Additional documentation and X-13 specifications can be found on the Board's website at www.federalreserve.gov/releases/G17/About.htm.

www.neucranreservergov/rereases/G17/2100dtmtm.

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 1987–2017 period. The average revision to the percent change in total IP, without regard to sign, from the first to the fourth estimates was 0.22 percentage point during the 1987–2017 period. In most cases (about 85 percent), the direction of the change in output indicated by the first estimate for a given month is the same as that shown by the fourth estimate.

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

CAPACITY UTILIZATION

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

Coverage. Capacity indexes are constructed for 89 detailed industries (71 in manufacturing, 16 in mining, and 2 in utilities), which mostly correspond to industries at the three- and four-digit North American Industry Classification System, or 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—logging and newspaper, periodical, book, and directory publishing—that have traditionally been considered to be manufacturing and included in the industrial sector. Also, special aggregates are available, such as high-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 (for example, paper, industrial chemicals, petroleum refining, motor vehicles), as well as for electric utilities and mining; these industries represent about 27 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 about 64 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 9 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 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 survey of large companies reported, on average, higher utilization rates than those reported by establishments covered by the annual Survey of Plant Capacity (the primary source of factory operating rates through 2006, after which it was discontinued) for the fourteen years they overlapped. Adjustments have been made to keep the industry utilization rates currently reported by the Federal Reserve (now based on the QSPC) 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 Census utilization surveys.

Perspective. Over the 1972–2017 period, the average total industry utilization rate was 79.8 percent; for manufacturing, the average factory operating rate was 78.3 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 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 23, 2018, 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

The G.17 release on Industrial Production and Capacity Utilization is published at 9:15 a.m. on:

2018: January 17, February 15, March 16, April 17, May 16, June 15, July 17, August 15, September 14, October 16, November 16, and December 14.

2019: January 18, February 15, March 15, April 16, May 15, June 14, July 16, August 15, September 17, October 17, November 15, December 17.

This release schedule is available on the Board's website at http://www.federalreserve.gov/releases/g17.