FEDERAL RESERVE statistical release



G.17 (419)

For release at 9:15 a.m. (EST) December 3, 2025

Percent change

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production (IP) increased 0.1 percent in September after moving down 0.3 percent in August; for the third quarter as a whole, IP increased at an annual rate of 1.1 percent. In September, the indexes for manufacturing and for mining were unchanged relative to August, and the output of utilities moved up

(over)

Industrial Production and Capacity Utilization: Summary

Seasonally adjusted

			2017-	-100						I CICCII	Change		
	2025						2025						Sept. '24 to
Industrial production	Apr. ^r	May ^r	June ^r	July	Aug. ^r	Sept. ^p	Apr. ^r	May	June	July	Aug. ^r	Sept. ^p	Sept. '25
Total index	101.1	101.0	101.4	101.6	101.3	101.4	.1	1	.4	.2	3	.1	1.6
	101.1	101.0	101.4	101.0	101.3	101.4	.1	1 1	.4	2	3 1	.1	1.0
Previous estimates	101.2	101.1	101.0	101.3	101.3		.2	1	.4	2	1		
Major market groups													
Final Products	97.3	97.3	97.6	98.0	97.6	97.4	1	.0	.3	.4	3	2	1.3
Consumer goods	98.3	98.0	98.3	98.5	98.1	97.5	1	3	.4	.1	3	6	-1.0
Business equipment	92.1	93.1	93.2	94.1	93.8	94.5	.2	1.1	.2	.9	3	.7	9.1
Nonindustrial supplies	97.9	97.7	97.7	97.3	97.4	97.4	4	2	.0	4	.1	.0	.8
Construction	99.4	99.2	99.4	98.4	99.1	99.5	9	2	.1	9	.7	.3	2.6
Materials	105.8	105.6	106.4	106.6	106.2	106.7	.4	3	.7	.2	3	.4	2.2
Materials	103.0	105.0	100.1	100.0	100.2	100.7		.5	.,		.5	• • •	2.2
Major industry groups													
Manufacturing (see note below)	96.7	96.6	96.8	97.0	97.0	97.0	1	1	.3	.2	.1	.0	1.5
Previous estimates	96.8	96.7	97.0	97.0	97.0		0.	.0	.3	.0	.1		
Mining	120.0	120.6	121.3	121.1	121.7	121.7	2	.5	.6	1	.4	.0	2.8
Utilities	108.8	107.8	109.3	109.8	106.5	107.7	1.7	-1.0	1.5	.5	-3.0	1.1	1.4
	100.0	107.0	10,.0	107.0	100.0	10,1,	11,	1.0	1.0		2.0		1
													Capacity
					Perce	ent of cap	acity						growth
	Average	1988-	1990-	1994-									
	1972-	89	91	95	2009	2024	2025						Sept. '24 to
Capacity utilization	2024	high	low	high	low	Sept.	Apr.	May ^r	June	July	Aug. ^r	Sept. ^p	Sept. '25
Total in deadow	79.5	85.2	78.8	85.0	66.5	75.7	76.1	75.9	76.1	76.2	75.0	75.9	1.4
Total industry	19.5	85.2	/8.8	85.0	00.5	/5./					75.9	13.9	1.4
Previous estimates							76.2	76.0	76.2	76.0	75.8		
Manufacturing (see note below)	78.2	85.5	77.2	84.6	63.4	75.2	75.6	75.5	75.6	75.6	75.6	75.5	1.0
Previous estimates	, 0.2	00.0		0	00	70.2	75.7	75.6	75.7	75.7	75.6	7010	1.0
Mining	85.2	86.3	84.4	88.6	78.3	83.0	84.0	84.5	85.0	84.9	85.4	85.4	1
Utilities	84.3	93.2	84.7	93.2	78.1	72.0	71.9	71.0	71.7	71.8	69.4	69.9	4.4
Cunties	07.3	95.2	07./	93.2	/ 0.1	12.0	/1.9	/1.0	/1./	/1.0	02.4	09.7	7.7
Stage-of-process groups													
Crude	84.6	87.9	84.9	90.0	76.5	82.0	82.7	82.7	83.2	83.3	83.7	83.6	1
Primary and semifinished	80.2	86.4	77.9	87.7	63.5	75.8	76.0	75.7	75.9	75.7	75.1	75.2	1.7
Finished	76.7	83.3	77.4	80.7	66.3	73.1	73.7	73.5	73.7	73.9	73.8	73.6	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 (except exclusive Internet publishing). 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 of its industrial output data from the SIC system to NAICS.

1.1 percent. At 101.4 percent of its 2017 average, total IP in September was 1.6 percent above its year-earlier level. Capacity utilization was unchanged relative to August at 75.9 percent, a rate that is 3.6 percentage points below its long-run (1972–2024) average.

Market Groups

The major market groups posted mixed results in September. Consumer goods production decreased 0.6 percent in September and moved down at an annual rate of 0.6 percent in the third quarter, a second consecutive quarterly decline. Within consumer goods, the production of durables fell 1.7 percent in September, led by a 2.9 percent decline in the production of automotive products. The index for nondurable consumer goods moved down 0.3 percent, with declines in both the energy and the non-energy groups. In contrast, the production of business equipment rose 0.7 percent in September and moved up at an annual rate of 5.9 percent in the third quarter, a third consecutive quarterly increase. All major categories of business equipment production moved up in September. Defense and space equipment production rose 0.5 percent in September and climbed at an annual rate of 10.0 percent in the third quarter. The output of construction supplies moved up 0.3 percent in September but moved down at an annual rate of 1.3 percent for the third quarter as a whole. The index for business supplies ticked down 0.1 percent in September and declined at an annual rate of 2.1 percent across the third quarter. In September, the output of materials rose 0.4 percent, with increases in the output of equipment parts and in energy materials more than offsetting declines in the production of consumer parts, other durable materials, and nondurable materials.

Industry Groups

In September, manufacturing output maintained its August level and was 1.5 percent above its year-earlier level. During the third quarter, the index for manufacturing grew 1.3 percent at an annual rate. The output of durable goods ticked up 0.1 percent in September, with mixed results across categories, and moved up at an annual rate of 2.9 percent in the third quarter. The output of nondurable goods ticked down 0.1 percent in September but moved up at an annual rate of 0.2 percent for the third quarter as a whole. In September, among nondurable manufacturing industries, only the index for plastics and rubber products posted an increase. Other manufacturing, which includes logging and publishing, moved down 1.0 percent in September and declined at an annual rate of 10.9 percent in the third quarter.

The level of mining output was unchanged in September relative to the previous month and expanded 2.9 percent at an annual rate for the third quarter as a whole. In September, the index for utilities moved up 1.1 percent, with a 1.3 percent increase in electric utilities output more than offsetting a 0.4 percent decline in the output of natural gas utilities. In the third quarter, the index for utilities moved down 2.3 percent at an annual rate.

Capacity utilization for manufacturing inched down in September to 75.5 percent, a rate that is 2.7 percentage points below its long-run (1972–2024) average. The operating rate for mining was unchanged at 85.4 percent, and the operating rate for utilities increased 0.5 percentage point to 69.9 percent. The rate for mining was 0.2 percentage point above its long-run average, while the rate for utilities remained substantially below its long-run average.

Tables

- 1. Industrial Production: Market and Industry Group Summary; percent change
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Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

Source Data Availability

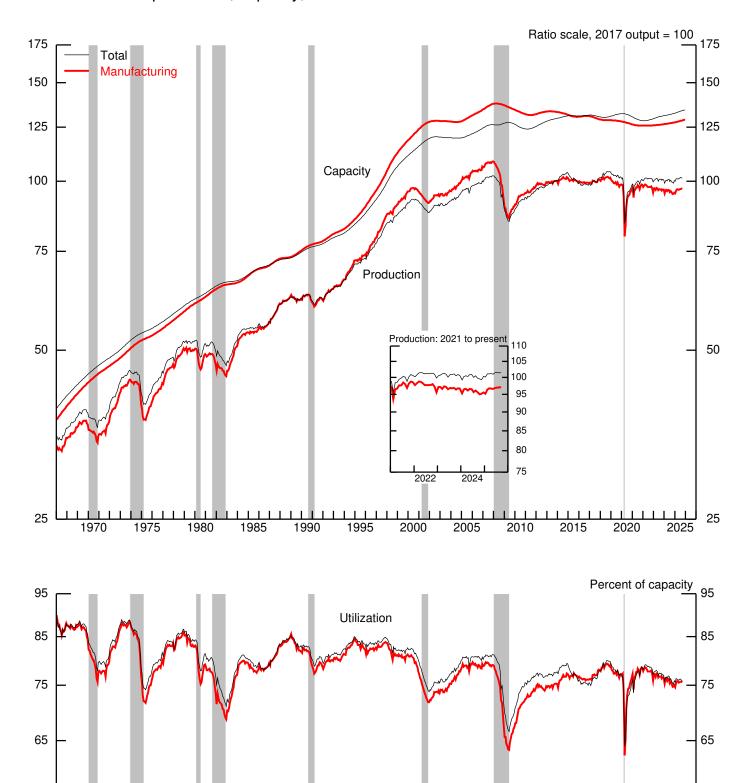
Source data availability for the initial release of September industrial production and capacity utilization (IPCU) was unusual in two regards. First, some source data that normally would be available at this point in the calendar were not yet available. While production worker hours data for September were incorporated into this release as normal, IP indexes also incorporate a range of data from other government agencies and the publication of some of those data was delayed as a result of the federal government shutdown that occurred in October and November 2025. Second, notwithstanding the first point, the delayed publication of this statistical release means that, overall, there were more source data available than normally would be the case for the first release of IPCU for a month. As a result, about 85 percent of the source data (in value-added terms) were available, whereas 78 percent of the source data are available for the first estimate of output for a typical month. In addition, final estimates of capacity utilization rates from the Quarterly Survey of Plant Capacity Utilization (QSPC) for the third quarter were incorporated into this release. Normally, preliminary QSPC data are incorporated into the estimates of third quarter industrial production published in October, and final data are incorporated into the estimates published in November. For details on how QSPC data are used in IPCU, see the release text of the 2018 G.17 annual revision at https://www.federalreserve.gov/releases/g17/Revisions/20180323/DefaultRev.htm. Because of these differences in source data availability, care should be used when evaluating the reliability estimates published in table 15 of the current release. formation on reliability estimates, see the Technical Q&A entry for April 18, 2017, at https://www.federalreserve.gov/releases/g17/g17_technical_qa.htm#reliability.

Revision of Industrial Production and Capacity Utilization

The Federal Reserve Board issued its annual revision to the indexes of industrial production (IP) and the related measures of capacity utilization on November 24, 2025. Data referred to in the release dated September 16, 2025, were superseded by the data issued at the time of the annual revision. New annual benchmark data from the 2022 Economic Census were incorporated as well as other annual data, including information on the mining of metallic and nonmetallic minerals (except fuels). Industry-group indexes were converted to the 2022 North American Industry Classification System (NAICS). The weights for market-group splits of the industry-level indexes were updated with information from the 2017 benchmark input-output accounts from the U.S. Bureau of Economic Analysis. The updated IP indexes included 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 were changed. Any modifications to the methods for estimating the output of an industry affected the index from 1972 to the present.

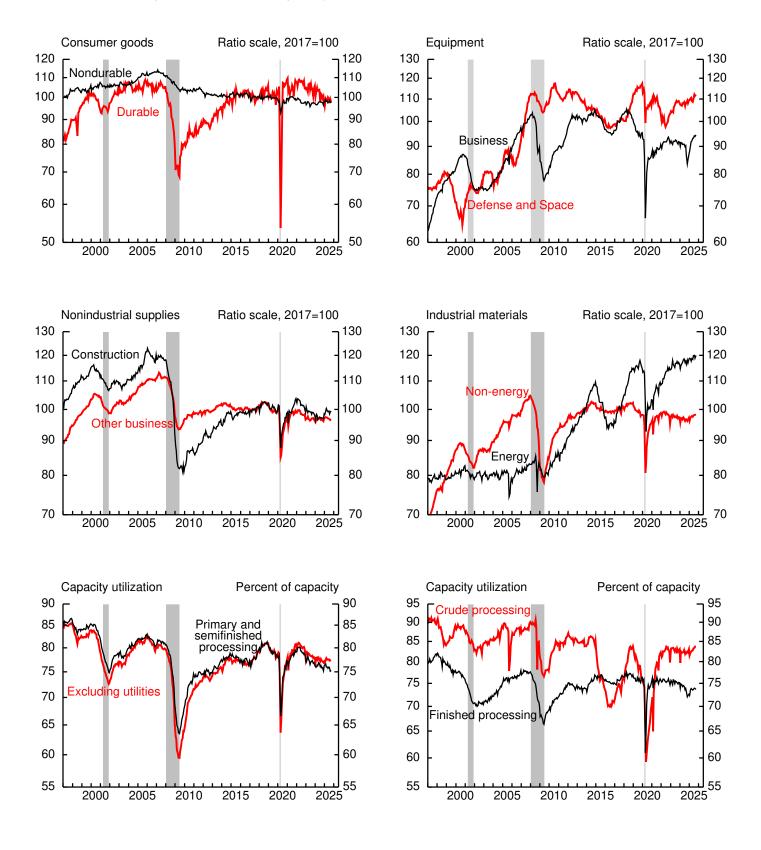
Capacity and capacity utilization were revised to incorporate data for manufacturing through the fourth quarter of 2024 from the U.S. Census Bureau's Quarterly Survey of Plant Capacity Utilization, along with new data on capacity from the U.S. Geological Survey, the U.S. Department of Energy, and other organizations.

1. Industrial production, capacity, and utilization



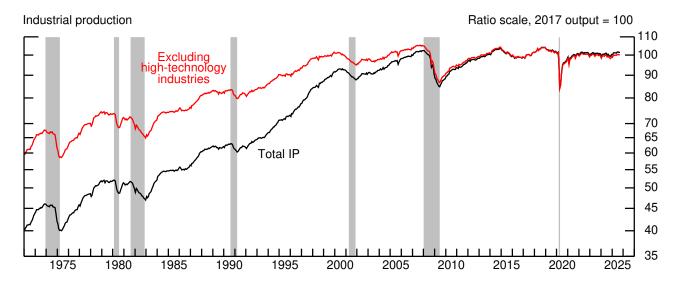
Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

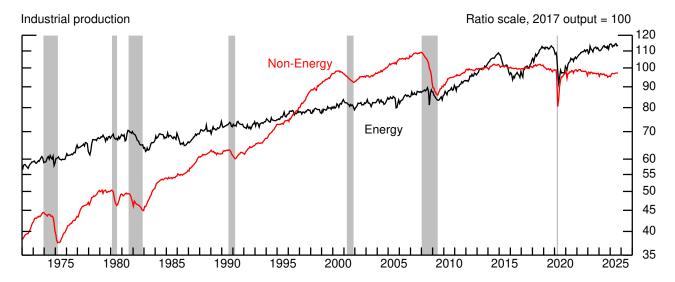
2. Industrial production and capacity utilization

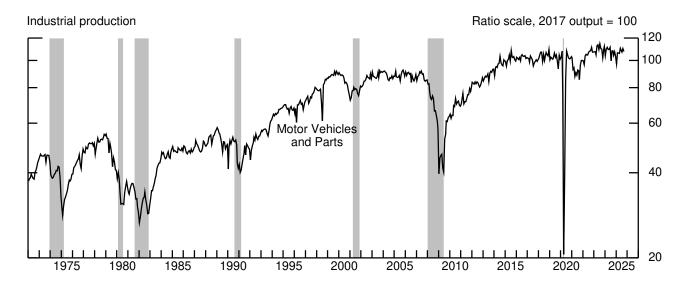


Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

3. Industrial production of selected 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 represent periods of business recession as defined by the NBER.

Table 1 INDUSTRIAL PRODUCTION: MARKET AND INDUSTRY GROUP SUMMARY

Percent change, seasonally adjusted	Item		Four	th quarte	er to										
T		2024	fou	ırth quar	ter		nual rat	e	2025		Month	nly rate			Sept. '24
Item		2024 proportion ¹	2022	2023	2024	2025 Q1	Q2 ^r	Q3 ^p	2025 Apr. ^r	May ^r	June ^r	July ^r	Aug.r	Sept. ^p	to Sept. '25
Total IP		100.00	.1	.0	9	4.2	1.8	1.1	.1	1	.4	.2	3	.1	1.6
MARKET GROUPS		56.10	0	0	1.7	6.2	1.2	2	2	1	2	1	2	1	1.2
Final products and nonindustrial supplie	es	56.18 27.97	8	8	-1.7	6.3	1.2	.3	2	1 3	.2	.1	2	1	1.2 -1.0
Consumer goods Durable		6.16	-1.4 -1.5	7 -2.1	8 -3.9	-5.5	6 5.0	6 -3.2	1 2	3 1.4	.4 8	.1 8	3 1.0	6 -1.7	-3.6
Automotive products		3.55	3.5	-2.1	-3.9	-3.3 -9.8	11.2	-4.6	2	2.2	-1.3	-1.5	2.3	-1.7	-5.3
Home electronics		.14	1.8	7.8	2.1	4.0	.8	3.7	.2	1.7	-1.5	1.5	8	.0	-3.3
Appliances, furniture, carpeting		.81	-8.3	-4.5	-4.4	-3.2	-1.1	-1.0	1.3	2.1	7	.8	-1.6	7	-2.7
Miscellaneous goods		1.66	-8.1	-1.1	-3.7	2.2	-3.9	-1.9	-1.1	7	.1	.0	5	.2	9
Nondurable		21.80	-1.4	3	.0	4.0	-2.1	.1	1	8	.7	.4	7	3	3
Non-energy		16.67	-2.4	.4	2	1.2	.4	.9	2	-1.0	.6	.3	1	2	2
Foods and tobacco		10.21	-1.4	7	-1.7	5	1.9	1	.2	7	.6	2	.2	1	5
Clothing		.18	.4	-5.9	-12.3	8.9	-13.2	-6.1	-4.3	1.6	-1.9	-1.1	.6	4	-4.1
Chemical products		4.90	-3.6	4.9	4.9	5.6	.3	4.7	2	-1.9	1.2	1.5	6	4	1.9
Paper products		1.00	-7.0	-8.0	-3.5	6	-8.9	-7.8	-2.8	6	6	9	1	-1.1	-7.0
Energy		5.13	1.2	-2.0	.7	13.1	-9.8	-2.3	.0	.2	.9	.7	-2.7	4	5
Business equipment		8.87	3.0	-1.0	-6.8	25.3	12.4	5.9	.2	1.1	.2	.9	3	.7	9.1
Transit		2.06	16.9	8.9	-18.4	136.8	55.3	21.6	1.7	5.5	.7	1.8	1.2	.4	35.3
Information processing		1.94	2.9	-3.6	2.8	7.1	-2.8	6.9	-1.6	3	.2	1.1	.5	.8	5.0
Industrial and other		4.86	-1.5	-3.9	-5.5	2.6	2.0	-1.9	.2	4	1	.4	-1.4	.8	.2
Defense and space equipment		1.64	-2.3	5.9	.2	4.5	-3.1	10.0	-1.4	4	1.2	1.9	4	.5	3.7
Construction supplies Business supplies		6.03 11.17	-2.9 -1.4	-1.7 -1.0	-1.0 2	7.8 3.7	.1 -1.0	-1.3 -2.1	9 1	2 2	.1 1	9 2	.7 3	.3 1	2.6 2
Motorials		43.82	1.2	.9	.0	1.7	2.5	2.1	1	2	7	.2	2	.4	2.2
Materials Non-energy		26.85	-1.5	.2	6	1.6	2.8	2.1	.4	3 2	.7	.2	3 .1	.1	1.7
Durable		16.62	1.2	4	-1.8	3.9	5.2	2.9	.3	.2	.3	.2	.3	.3	2.9
Consumer parts		2.87	7.8	2.8	-4.6	-3.2	7.0	2.5	7	2.5	6	.0	.3	2	-1.1
Equipment parts		5.22	2.1	-1.1	1.7	12.1	3.5	8.1	.2	.0	.4	1.5	3	1.2	6.4
Other		8.53	-1.3	-1.0	-3.0	1.3	5.7	1	.8	4	.5	6	.7	1	2.0
Nondurable		10.23	-5.7	1.3	1.4	-2.0	-1.0	.6	2	8	.6	.3	3	2	2
Textile		.27	-15.1	-4.5	1.5	3.8	-2.7	-7.6	6	.5	-1.8	-2.2	2.7	-1.4	9
Paper		1.17	-9.4	-3.5	1.3	-2.9	-8.0	.1	-1.1	-1.1	2.0	6	2	4	-3.9
Chemical		5.32	-8.2	4.9	2.7	-2.4	.4	3.9	7	9	1.4	.6	.0	7	2.1
Energy		16.97	5.0	2.0	.9	1.9	2.1	2.3	.9	4	1.3	.2	-1.0	.9	3.0
INDUSTRY GROUPS															
Manufacturing		75.45	-1.7	3	-1.5	3.9	2.4	1.3	1	1	.3	.2	.1	.0	1.5
Manufacturing (NAICS)	31–33	73.83	-1.7	1	-1.4	3.9	2.8	1.6	1	1	.3	.2	.1	.0	1.8
Durable manufacturing		38.42	1.2	-1.3	-2.8	7.5	4.7	2.9	.0	.5	.0	.5	.1	.1	3.0
Wood products	321	1.67	-2.6	-2.5	2.4	1.1	2.2	-3.3	.1	1.3	-1.4	.5	.5	-3.5	-1.3
Nonmetallic mineral products	327	2.32	1	-2.5	-3.7	10.9	-7.3	-2.6	-1.7	-1.4	-1.1	.3	.7	4	1.6
Primary metals Fabricated metal products	331 332	2.44 6.15	4 4	8 -3.0	-2.8 -3.2	5.0	4.3 6.1	10.7	.4 1.7	-1.3 8	3.0	.2 .1	.6 1	1.4 1.2	4.4 2.6
Machinery	333	5.39	-1.5	-4.7	-3.2	5.4	3.9	.4	1	.2	1.0	.0	9	1	1.4
Computer and electronic products	334	4.77	3.7	-1.2	3.8	13.2	1.6	9.6	4	.2	1	2.2	2	.7	8.0
Electrical equip., appliances,	534	4.//	3.1	-1.2	5.0	1.7.2	1.0	9.0		.2	1	4.4	2	. /	0.0
and components	335	2.24	-3.4	2.0	5	4.4	-9.5	-3.6	-2.3	1.9	-3.2	.8	-1.2	1.8	-2.3
Motor vehicles and parts	3361–3	5.94	9.9	5	-2.8	-6.2	21.4	8	3	4.3	-1.5	-1.8	3.0	-2.2	3
Aerospace and miscellaneous															
transportation equipment	3364-9	3.94	5.6	4.9	-8.7	59.5	9.9	15.8	.5	2	1.9	2.7	9	1.4	15.9
Furniture and related products	337	1.07	-2.3	-9.9	-4.4	-4.1	3.4	1	1.3	.4	.9	.8	-2.4	.3	-1.3
Miscellaneous	339	2.49	-5.8	1.8	-7.6	-3.1	-7.3	-1.8	-1.1	-1.1	5	1.1	-1.0	5	-4.3
Nondurable manufacturing		35.41	-4.6	1.3	.2	.2	.7	.2	1	7	.7	2	.1	1	.3
Food, beverage, and tobacco products	311,2	12.46	-4.6	8	.2 -1.4	8	1.6	.2 7	1	<i>1</i> 7	.3	2 2	.0	.0	.3 7
Textile and product mills	313,4	.51	-14.3	-3.2	4	2.9	2.5	-4.4	.4	.9	.3	-2.9	2.1	1	3.6
Apparel and leather	315,6	.20	.4	-5.1	-11.5	8.5	-12.4	-5.8	-4.4	1.8	-1.5	-1.4	.6	3	-3.6
Paper	322	2.23	-9.3	-2.9	.1	-3.7	-5.2	.8	7	3	1.6	2	7	4	-3.2
Printing and support	323	1.36	-2.7	-11.3	2.5	1.4	-4.1	-8.1	.1	6	.2	-1.4	3	-1.3	-5.1
Petroleum and coal products	324	3.27	-6.0	4.6	1.4	-3.9	.5	-2.0	4	1.0	1.4	-1.5	3	1	7
Chemicals	325	11.69	-6.7	4.2	3.7	2.2	.9	3.8	3	-1.4	1.1	.8	.0	2	3.0
Plastics and rubber products	326	3.69	-6.1	4.8	-5.6	1.9	4.0	-2.9	.0	7	4	-1.2	1.3	.3	.5
Other manufacturing (non-NAICS)	1133,5131pt.	1.62	-1.9	-10.2	-5.6	2.1	-13.3	-10.9	-2.8	-1.7	-1.3	-1.4	.4	-1.0	-10.3
Mining	21	12.51	6.0	2.4	6	4	6.0	2.9	2	.5	.6	1	.4	.0	2.8
Utilities Electric	2211,2	12.04	4.1	9	1.9	11.6 8.3	-6.1 -5.0	-2.3	1.7	-1.0 -1.4	1.5	.5	-3.0 -3.4	1.1	1.4 1.7
	2211 2212	10.57	1	.2	2.3	39.2	-5.0 -13.0	-2.7	1.7		1.5	.7 -1.2		1.3	-1.0
Natural gas	2212	1.47	13.1	-7.4	-1.0	39.2	-13.0	.5	1./	2.2	1.4	-1.2	3	4	-1.0

r Revised. p Preliminary.

^{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.

Note. Under the industry groups, the figures to the right of the series descriptions are 2017 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/G17/20251203/default.sup.htm). Under market groups, in the products category, miscellaneous consumer nondurables, oil and gas well drilling, and manufactured homes are not shown separately; in the nondurable materials category, containers and miscellaneous nondurable materials are not shown separately.

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

ercent change, seasonally adjusted				rth quart urth quar		A	nnual rat	ie			Month	nly rate			Sept. '24
Item		2024 proportion	2022	2023	2024	2025 Q1	Q2 ^r	Q3 ^p	2025 Apr. ^r	May ^r	Juner	July	Aug.r	Sept. ^p	to Sept. '25
Total industry		100.00	.1	.0	9	4.2	1.8	1.1	.1	1	.4	.2	3	.1	1.6
Energy		25.57	4.5	1.1	1.0	4.2	5	.7	.8	2	1.0	.3	-1.3	.5	2.0
Consumer products		5.13	1.2	-2.0	.7	13.1	-9.8	-2.3	.0	.2	.9	.7	-2.7	4	5
Commercial products		3.05	5.0	2.0	3.1	4.0	3.2	-1.0	1.8	.2	.1	.5	-1.2	.0	2.0
Oil and gas well drilling	213111	.43	20.3	-5.3	-5.8	-6.3	-10.6	-10.0	-1.2	-2.0	-1.1	-1.9	.8	.3	-9.0
Converted fuel Primary energy		5.14 11.83	2.3	2.0 2.1	2.4	3.4 1.3	-5.6 5.6	1.5 2.6	2.1	5 3	1.9 1.0	.2 .2	-3.2 .1	3.7 3	2.1 3.4
Non-energy		74.43	-1.6	4	-1.6	4.3	2.6	1.2	2	1	.3	.1	.1	.0	1.5
Selected high-technology industries	2241	2.07	10.2	4.2 6.8	8.0 12.5	23.7 15.6	5.8 7.6	9.5 29.6	.9 5	.7 2.9	8 .5	3.4 4.0	-1.4 1.0	.6 1.9	10.8 17.4
Computers and peripheral equipment Communications equipment	3341 3342	.19	23.0	3.6	5.6	10.8	-9.6	-19.3	-1.5	-1.7	-2.0	-2.3	-1.4	5	-6.5
Semiconductors and related															
electronic components	3344	1.40	8.2	4.0	8.2	29.5	11.0	17.1	1.9	1.2	7	5.0	-1.7	.8	15.9
Excluding selected high-technology industries		72.37	-1.9	5	-1.9	3.7	2.5	.9	2	2	.3	.0	.1	1	1.2
Motor vehicles and parts	3361-3	5.94	9.9	5	-2.8	-6.2	21.4	8	3	4.3	-1.5	-1.8	3.0	-2.2	3
Motor vehicles	3361	3.01	17.0	7	-2.9	-11.3	35.5	.5	.4	7.1	-2.7	-2.0	4.6	-3.9	6
Motor vehicle parts	3363	2.38	9.9	.0	5	-4.6	12.8	-1.4	5	3.3	-1.0	-1.6	1.5	3	1
Excluding motor vehicles and parts		66.43	-2.8	5	-1.8	4.6	.9	1.1	2	5	.5	.2	1	.1	1.3
Consumer goods		19.80	-3.2	.0	8	1.3	.0	.4	2	9	.5	.3	2	2	3
Business equipment Construction supplies		7.27	-2.9	-2.0 -1.7	-8.8 -1.0	28.4 7.8	8.3	5.6 -1.3	.3	.2 2	.5	1.3	-1.1 .7	1.2	8.4
Business supplies		6.02 7.69	-4.1	-1.7	-2.0	2.4	-3.3	-3.4	9	2 4	.1 2	9 6	.1	.3 2	2.6 -1.9
Materials		23.96	-3.1	.1	9	1.0	1.4	1.8	.1	6	.6	.1	.1	.1	1.2
Measures excluding selected high-technology industries															
Total industry		97.93	1	1	-1.1	3.8	1.7	.9	.1	2	.5	.1	2	.1	1.4
Manufacturing ¹ Durable		73.38 36.48	-2.0 .7	4 -1.6	-1.7 -3.5	3.3 6.5	2.3 4.6	1.1 2.4	1 1	1 .5	.3 .0	.1 .3	.1 .2	1 .1	1.2 2.5
Measures excluding motor vehicles and parts															
Total industry		94.06	4	.0	8	4.9	.7	1.2	.1	4	.6	.3	5	.2	1.8
Manufacturing ¹ Durable		69.51 32.60	-2.5 2	3 -1.5	-1.3 -2.9	4.8 10.1	1.0 2.0	1.5 3.5	1 .0	5 2	.4	.3 .9	2 5	.2 .5	1.7 3.7
Measures excluding selected high-technology industries		32100	.2	110	2.7	10.1	2.0	5.5		.2	.2	.,		.5	
and motor vehicles and parts															
Total industry		92.00	7	1	-1.0	4.5	.5	1.0	.1	5	.6	.2	4	.2	1.5
Manufacturing ¹		67.44	-2.9	4	-1.6	4.2	.8	1.3	1	5	.5	.2	1	.1	1.3
Stage-of-process components of non-energy materials, measures of the input to Finished processors		9.54	1.5	3	3	5.3	2.9	5.1	3	.6	.3	.7	.0	.5	2.7
Primary and semifinished processors		17.31	-3.1	.6	8	4	2.7	.4	.4	6	.5	1	.1	1	1.1

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

willions of units, seasonally adjusted aimual rate											
	2024	2024	2025			2025					
Item	average	Q4	Q1	Q2	Q3	Apr.	May	June	July	Aug.	Sept.
Total	10.52	10.27	9.97	10.73	10.65	10.43	11.04	10.71	10.32	10.99	10.62
Autos	1.43	1.34	1.28	1.38	1.30	1.39	1.34	1.39	1.33	1.35	1.23
Trucks	9.10	8.93	8.69	9.35	9.35	9.04	9.70	9.32	9.00	9.65	9.39
Light	8.76	8.63	8.41	9.08	9.11	8.77	9.43	9.05	8.75	9.42	9.17
Medium and heavy	.33	.30	.28	.27	.23	.27	.27	.27	.25	.23	.22
Memo Autos and light trucks	10.19	9.97	9.69	10.46	10.41	10.16	10.77	10.44	10.07	10.76	10.40

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. The composition of manufacturing is specified in a note for the summary table.

Table 4 INDUSTRIAL PRODUCTION INDEXES: MARKET AND INDUSTRY GROUP SUMMARY

2017 = 100, seasonally adjusted

Item		2024 proportion	2025 Jan.	Feb.	Mar.	Apr.r	May ^r	June ^r	July ^r	Aug. ^r	Sept. ^p
Total IP		100.00	100.1	101.1	101.0	101.1	101.0	101.4	101.6	101.3	101.4
Market Groups											
Final products and nonindustrial supplies		56.18	96.3	97.6	97.6	97.5	97.4	97.6	97.7	97.5	97.4
Consumer goods		27.97	97.6	99.1	98.4	98.3	98.0	98.3	98.5	98.1	97.5
Durable		6.16	95.9	99.4	98.8	98.6	100.0	99.2	98.4	99.4	97.6
Automotive products		3.55	96.8	103.9	102.9	102.9	105.1	103.8	102.1	104.5	101.5
Home electronics		.14	181.5	180.7	179.0	179.3	182.3	180.7	183.4	181.9	181.9
Appliances, furniture, carpeting		.81	85.3	81.8	80.3	81.3	83.0	82.4	83.1	81.8	81.2
Miscellaneous goods		1.66	94.4	94.9	95.5	94.5	93.8	93.9	93.8	93.3	93.6
Nondurable		21.80	98.0	98.9	98.3	98.1	97.4	98.1	98.4	97.8	97.5
Non-energy		16.67	96.3	97.4	97.9	97.8	96.8	97.4	97.6	97.6	97.3
Foods and tobacco		10.21	95.9	97.0	97.2	97.4	96.7	97.3	97.0	97.2	97.1
Clothing Chamical products		.18 4.90	79.2 106.2	78.8 107.6	79.5 108.8	76.1 108.6	77.3 106.5	75.9 107.8	75.1 109.5	75.5 108.8	75.2 108.4
Chemical products		1.00	68.8	70.0	70.6	68.6	68.2	67.7	67.1	67.0	66.3
Paper products Energy		5.13	102.8	103.1	98.5	98.5	98.7	99.6	100.2	97.6	97.2
Business equipment Transit		8.87 2.06	88.1 73.0	90.4 80.1	91.9 83.2	92.1 84.6	93.1 89.2	93.2 89.8	94.1 91.4	93.8 92.5	94.5 92.9
Information processing		1.94	115.0	115.1	116.9	115.0	114.7	114.8	116.1	116.7	117.6
Industrial and other		4.86	87.5	88.0	88.6	88.8	88.4	88.3	88.6	87.4	88.1
Defense and space equipment		1.64	109.5	110.2	110.6	109.1	108.7	109.9	112.0	111.5	112.1
Construction cumplies		6.02	00.2	00.4	100.2	00.4	00.2	00.4	00.4	00.1	00.5
Construction supplies Business supplies		6.03 11.17	98.2 97.2	99.4 97.4	100.3 97.3	99.4 97.2	99.2 97.0	99.4 96.9	98.4 96.7	99.1 96.5	99.5 96.3
		42.82	1040	105.5	105.4	105.0	105 (1064	1066	106.2	1067
Materials Non-energy		43.82 26.85	104.9 96.2	105.5 97.3	105.4 97.5	105.8 97.7	105.6 97.5	106.4 97.9	106.6 98.1	106.2 98.2	106.7 98.3
Durable		16.62	95.6	96.9	97.3	97.6	97.8	98.1	98.3	98.6	98.9
Consumer parts		2.87	89.2	92.5	92.2	91.5	93.8	93.3	93.3	93.6	93.4
Equipment parts		5.22	106.4	107.2	107.6	107.8	107.8	108.3	109.9	109.6	110.9
Other		8.53	92.1	93.0	93.6	94.3	93.9	94.3	93.8	94.4	94.3
Nondurable		10.23	97.1	98.0	97.9	97.8	97.0	97.6	97.8	97.6	97.3
Textile		.27	70.5	71.3	71.1	70.7	71.0	69.8	68.2	70.1	69.1
Paper		1.17	82.5	81.9	81.1	80.2	79.3	80.9	80.4	80.2	79.9
Chemical Energy		5.32 16.97	99.0 118.8	100.8 118.5	101.4 117.7	100.6 118.8	99.7 118.3	101.1 119.8	101.7 120.1	101.7 118.9	101.0 120.0
INDUSTRY GROUPS		75.45	95.1	96.4	96.8	96.7	96.6	96.8	97.0	97.0	97.0
Maninachiring		73.83	95.8	97.0	97.4	97.3	97.2	97.5	97.7	97.8	97.8
Manufacturing (NAICS)	31-33										
Manufacturing Manufacturing (NAICS) Durable manufacturing	31–33	38.42	96.1	97.7	98.2	98.1	98.6	98.6	99.1	99.1	99.2
Manufacturing (NAICS)	31–33 321			97.7 99.8	98.2 99.1	98.1	98.6 100.6	98.6 99.1	99.1 99.6	99.1 100.2	
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products	321 327	38.42 1.67 2.32	96.1 98.4 96.9	99.8 98.0	99.1 99.1	99.2 97.4	100.6 96.1	99.1 95.0	99.6 95.2	100.2 95.9	99.2 96.6 95.5
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals	321 327 331	38.42 1.67 2.32 2.44	96.1 98.4 96.9 97.1	99.8 98.0 96.3	99.1 99.1 97.4	99.2 97.4 97.9	100.6 96.1 96.6	99.1 95.0 99.5	99.6 95.2 99.6	100.2 95.9 100.3	99.2 96.6 95.5 101.6
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products	321 327 331 332	38.42 1.67 2.32 2.44 6.15	96.1 98.4 96.9 97.1 92.0	99.8 98.0 96.3 92.3	99.1 99.1 97.4 92.6	99.2 97.4 97.9 94.2	100.6 96.1 96.6 93.4	99.1 95.0 99.5 93.5	99.6 95.2 99.6 93.5	100.2 95.9 100.3 93.4	99.2 96.6 95.5 101.6 94.5
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery	321 327 331 332 333	38.42 1.67 2.32 2.44 6.15 5.39	96.1 98.4 96.9 97.1 92.0 89.9	99.8 98.0 96.3 92.3 89.7	99.1 99.1 97.4 92.6 90.6	99.2 97.4 97.9 94.2 90.5	100.6 96.1 96.6 93.4 90.7	99.1 95.0 99.5 93.5 91.6	99.6 95.2 99.6 93.5 91.6	100.2 95.9 100.3 93.4 90.8	99.2 96.6 95.5 101.6 94.5 90.7
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products	321 327 331 332	38.42 1.67 2.32 2.44 6.15	96.1 98.4 96.9 97.1 92.0	99.8 98.0 96.3 92.3	99.1 99.1 97.4 92.6	99.2 97.4 97.9 94.2	100.6 96.1 96.6 93.4	99.1 95.0 99.5 93.5	99.6 95.2 99.6 93.5	100.2 95.9 100.3 93.4	99.2 96.6 95.5 101.6 94.5 90.7
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances,	321 327 331 332 333 334	38.42 1.67 2.32 2.44 6.15 5.39 4.77	96.1 98.4 96.9 97.1 92.0 89.9 123.9	99.8 98.0 96.3 92.3 89.7 124.3	99.1 99.1 97.4 92.6 90.6 125.4	99.2 97.4 97.9 94.2 90.5 124.9	100.6 96.1 96.6 93.4 90.7 125.1	99.1 95.0 99.5 93.5 91.6 125.0	99.6 95.2 99.6 93.5 91.6 127.8	100.2 95.9 100.3 93.4 90.8 127.5	99.2 96.6 95.5 101.6 94.5 90.7 128.4
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components	321 327 331 332 333 334	38.42 1.67 2.32 2.44 6.15 5.39 4.77	96.1 98.4 96.9 97.1 92.0 89.9 123.9	99.8 98.0 96.3 92.3 89.7 124.3	99.1 99.1 97.4 92.6 90.6 125.4	99.2 97.4 97.9 94.2 90.5 124.9	100.6 96.1 96.6 93.4 90.7 125.1	99.1 95.0 99.5 93.5 91.6 125.0	99.6 95.2 99.6 93.5 91.6 127.8	100.2 95.9 100.3 93.4 90.8 127.5	99.2 96.6 95.5 101.6 94.5 90.7 128.4
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances,	321 327 331 332 333 334	38.42 1.67 2.32 2.44 6.15 5.39 4.77	96.1 98.4 96.9 97.1 92.0 89.9 123.9	99.8 98.0 96.3 92.3 89.7 124.3	99.1 99.1 97.4 92.6 90.6 125.4	99.2 97.4 97.9 94.2 90.5 124.9	100.6 96.1 96.6 93.4 90.7 125.1	99.1 95.0 99.5 93.5 91.6 125.0	99.6 95.2 99.6 93.5 91.6 127.8	100.2 95.9 100.3 93.4 90.8 127.5	99.2 96.6 95.5 101.6 94.5 90.7 128.4
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous	321 327 331 332 333 334 335 3361–3	38.42 1.67 2.32 2.44 6.15 5.39 4.77	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1	99.8 98.0 96.3 92.3 89.7 124.3	99.1 99.1 97.4 92.6 90.6 125.4	99.2 97.4 97.9 94.2 90.5 124.9	100.6 96.1 96.6 93.4 90.7 125.1	99.1 95.0 99.5 93.5 91.6 125.0	99.6 95.2 99.6 93.5 91.6 127.8	100.2 95.9 100.3 93.4 90.8 127.5	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts	321 327 331 332 333 334	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94	96.1 98.4 96.9 97.1 92.0 89.9 123.9	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9	96.1 96.6 93.4 90.7 125.1 97.8 110.5	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9	95.9 100.3 93.4 90.8 127.5 94.4 110.1	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment	321 327 331 332 333 334 335 3361–3	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9	96.1 96.6 93.4 90.7 125.1 97.8 110.5	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9	95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous	321 327 331 332 333 334 335 3361–3 3364–9	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94 1.07	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6 77.2	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5 88.8 76.0	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2 90.1 75.4	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9 90.5 76.4	96.1 96.6 93.4 90.7 125.1 97.8 110.5 90.3 76.7	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8 92.0 77.4	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9 94.5 78.0	95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6 76.1	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3 86.3
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products	321 327 331 332 333 334 335 3361–3 3364–9	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94 1.07 2.49	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6 77.2 88.9	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5 88.8 76.0 88.9	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2 90.1 75.4 89.1	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9 90.5 76.4 88.1	96.1 96.6 93.4 90.7 125.1 97.8 110.5 90.3 76.7 87.1	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8 92.0 77.4 86.7	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9 94.5 78.0 87.6	100.2 95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6 76.1 86.7	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3 86.3
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing	321 327 331 332 333 334 335 3361–3 3364–9 337 339	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94 1.07 2.49 35.41	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6 77.2 88.9 95.5	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5 88.8 76.0 88.9 96.3	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2 90.1 75.4 89.1	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9 90.5 76.4 88.1	100.6 96.1 96.6 93.4 90.7 125.1 97.8 110.5 90.3 76.7 87.1 95.9	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8 92.0 77.4 86.7	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9 94.5 78.0 87.6	100.2 95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6 76.1 86.7 96.4	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3 86.3
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products	321 327 331 332 333 334 335 3361–3 3364–9 337 339	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94 1.07 2.49 35.41 12.46 .51 .20	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6 77.2 88.9 95.5 98.0 74.9 80.2	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5 88.8 76.0 88.9 96.3 98.9 75.5 80.0	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2 90.1 75.4 89.1 96.6 99.1 74.7 80.7	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9 90.5 76.4 88.1 96.5 99.4 74.9 77.2	96.1 96.6 93.4 90.7 125.1 97.8 110.5 90.3 76.7 87.1 95.9 98.7 75.6 78.6	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8 92.0 77.4 86.7 96.5 99.0 75.8 77.4	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9 94.5 78.0 87.6 96.3 98.8 73.6 76.3	95.9 100.2 95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6 76.1 86.7 96.4 98.9 75.2 76.8	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3 86.3 98.9 75.1 76.6
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper	321 327 331 332 333 334 335 3361–3 3364–9 337 339	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94 1.07 2.49 35.41 12.46 .51 .20 2.23	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6 77.2 88.9 95.5 98.0 74.9 80.2 83.4	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5 88.8 76.0 88.9 96.3 98.9 75.5 80.0 82.3	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2 90.1 75.4 89.1 96.6 99.1 74.7 80.7 81.6	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9 90.5 76.4 88.1 96.5 99.4 74.9 77.2 81.1	96.1 96.6 93.4 90.7 125.1 97.8 110.5 90.3 76.7 87.1 95.9 98.7 75.6 78.6 80.9	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8 92.0 77.4 86.7 96.5 99.0 75.8 77.4 82.1	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9 94.5 78.0 87.6 96.3 98.8 73.6 76.3 82.0	95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6 76.1 86.7 96.4 98.9 75.2 76.8 81.4	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3 86.3 98.3 98.9 75.1 76.6 81.1
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support	321 327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94 1.07 2.49 35.41 12.46 .51 .20 2.23 1.36	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6 77.2 88.9 95.5 98.0 74.9 80.2 83.4 78.3	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5 88.8 76.0 88.9 96.3 98.9 75.5 80.0 82.3 78.3	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2 90.1 75.4 89.1 96.6 99.1 74.7 80.7 81.6 77.4	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9 90.5 76.4 88.1 96.5 99.4 74.9 77.2 81.1 77.5	96.1 96.6 93.4 90.7 125.1 97.8 110.5 90.3 76.7 87.1 95.9 98.7 75.6 78.6 80.9 77.0	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8 92.0 77.4 86.7 96.5 99.0 75.8 77.4 82.1	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9 94.5 78.0 87.6 96.3 98.8 73.6 76.3 82.0 76.1	95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6 76.1 86.7 96.4 98.9 75.2 76.8 81.4 75.8	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3 86.3 98.9 75.1 76.6 81.1 74.8
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products	321 327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94 1.07 2.49 35.41 12.46 .51 .20 2.23 1.36 3.27	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6 77.2 88.9 95.5 98.0 74.9 80.2 83.4 78.3 90.3	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5 88.8 76.0 88.9 96.3 98.9 75.5 80.0 82.3 78.3 90.0	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2 90.1 75.4 89.1 96.6 99.1 74.7 80.7 81.6 77.4 89.4	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9 90.5 76.4 88.1 96.5 99.4 74.9 77.2 81.1 77.5 89.0	96.1 96.6 93.4 90.7 125.1 97.8 110.5 90.3 76.7 87.1 95.9 98.7 75.6 78.6 80.9 77.0 89.9	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8 92.0 77.4 86.7 96.5 99.0 75.8 77.4 82.1 77.1 91.2	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9 94.5 78.0 87.6 96.3 98.8 73.6 76.3 82.0 76.1 89.8	95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6 76.1 86.7 96.4 98.9 75.2 76.8 81.4 75.8 89.5	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3 86.3 98.9 75.1 76.6 81.1 74.8 89.4
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals	321 327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94 1.07 2.49 35.41 12.46 .51 .20 2.23 1.36 3.27 11.69	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6 77.2 88.9 95.5 98.0 74.9 80.2 83.4 78.3 90.3 100.9	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5 88.8 76.0 88.9 96.3 98.9 75.5 80.0 82.3 78.3 90.0 102.4	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2 90.1 75.4 89.1 96.6 99.1 74.7 80.7 81.6 77.4 89.4	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9 90.5 76.4 88.1 96.5 99.4 74.9 77.2 81.1 77.5 89.0 103.0	96.1 96.6 93.4 90.7 125.1 97.8 110.5 90.3 76.7 87.1 95.9 98.7 75.6 78.6 80.9 77.0 89.9 101.6	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8 92.0 77.4 86.7 96.5 99.0 75.8 77.4 82.1 77.1 91.2	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9 94.5 78.0 87.6 96.3 98.8 73.6 76.3 82.0 76.1 89.8	95.9 100.2 95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6 76.1 86.7 96.4 98.9 75.2 76.8 81.4 75.8 89.5 103.4	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3 86.3 98.9 75.1 76.6 81.1 74.8 89.4
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products	321 327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94 1.07 2.49 35.41 12.46 .51 .20 2.23 1.36 3.27 11.69 3.69	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6 77.2 88.9 95.5 98.0 74.9 80.2 83.4 78.3 90.3 100.9 92.5	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5 88.8 76.0 88.9 96.3 98.9 75.5 80.0 82.3 78.3 90.0 102.4 93.7	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2 90.1 75.4 89.1 96.6 99.1 74.7 80.7 81.6 77.4 89.4 103.3 95.4	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9 90.5 76.4 88.1 96.5 99.4 74.9 77.2 81.1 77.5 89.0 103.0 95.4	96.1 96.6 93.4 90.7 125.1 97.8 110.5 90.3 76.7 87.1 95.9 98.7 75.6 78.6 80.9 77.0 89.9 101.6 94.7	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8 92.0 77.4 86.7 96.5 99.0 75.8 77.4 82.1 77.1 91.2 102.7 94.3	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9 94.5 78.0 87.6 96.3 98.8 73.6 76.3 82.0 76.1 89.8 103.5 93.2	95.9 100.2 95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6 76.1 86.7 96.4 98.9 75.2 76.8 81.4 75.8 89.5 103.4 94.4	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3 86.3 96.3 97.1 76.6 81.1 74.8 89.4 103.2 94.7
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products Other manufacturing (non-NAICS)	321 327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5131pt.	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94 1.07 2.49 35.41 12.46 .51 .20 2.23 1.36 3.27 11.69 3.69 1.62	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6 77.2 88.9 95.5 98.0 74.9 80.2 83.4 78.3 90.3 100.9 92.5 73.0	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5 88.8 76.0 88.9 96.3 98.9 75.5 80.0 82.3 78.3 90.0 102.4 93.7 75.2	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2 90.1 75.4 89.1 96.6 99.1 74.7 80.7 81.6 77.4 89.4 103.3 95.4 75.0	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9 90.5 76.4 88.1 96.5 99.4 74.9 77.2 81.1 77.5 89.0 103.0 95.4 72.9	100.6 96.1 96.6 93.4 90.7 125.1 97.8 110.5 90.3 76.7 87.1 95.9 98.7 75.6 78.6 80.9 77.0 89.9 101.6 94.7 71.7	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8 92.0 77.4 86.7 96.5 99.0 75.8 77.4 82.1 77.1 91.2 102.7 94.3 70.8	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9 94.5 78.0 87.6 96.3 98.8 73.6 76.3 82.0 76.1 89.8 103.5 93.2 69.8	100.2 95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6 76.1 86.7 96.4 98.9 75.2 76.8 81.4 75.8 89.5 103.4 94.4 70.1	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3 86.3 98.9 75.1 76.6 81.1 74.8 89.4 103.2 94.7 69.4
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products Other manufacturing (non-NAICS)	321 327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5131pt.	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94 1.07 2.49 35.41 12.46 .51 .20 2.23 1.36 3.27 11.69 3.69 1.62	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6 77.2 88.9 95.5 98.0 74.9 80.2 83.4 78.3 90.3 100.9 92.5 73.0 117.2	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5 88.8 76.0 88.9 96.3 98.9 75.5 80.0 82.3 78.3 90.0 102.4 93.7 75.2	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2 90.1 75.4 89.1 96.6 99.1 74.7 80.7 81.6 77.4 89.4 103.3 95.4 75.0	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9 90.5 76.4 88.1 96.5 99.4 74.9 77.2 81.1 77.5 89.0 103.0 95.4 72.9	96.1 96.6 96.1 96.6 93.4 90.7 125.1 97.8 110.5 90.3 76.7 87.1 95.9 98.7 75.6 78.6 80.9 77.0 89.9 101.6 94.7 71.7	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8 92.0 77.4 86.7 96.5 99.0 75.8 77.4 82.1 77.1 91.2 102.7 94.3 70.8	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9 94.5 78.0 87.6 96.3 98.8 73.6 76.3 82.0 76.1 89.8 103.5 93.2	100.2 95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6 76.1 86.7 96.4 98.9 75.2 76.8 81.4 75.8 89.5 103.4 94.4 70.1	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3 86.3 98.9 75.1 76.6 81.1 74.8 89.4 103.2 94.7 69.4
Manufacturing (NAICS) Durable manufacturing Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products Other manufacturing (non-NAICS)	321 327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5131pt.	38.42 1.67 2.32 2.44 6.15 5.39 4.77 2.24 5.94 3.94 1.07 2.49 35.41 12.46 .51 .20 2.23 1.36 3.27 11.69 3.69 1.62	96.1 98.4 96.9 97.1 92.0 89.9 123.9 98.7 97.1 87.6 77.2 88.9 95.5 98.0 74.9 80.2 83.4 78.3 90.3 100.9 92.5 73.0	99.8 98.0 96.3 92.3 89.7 124.3 98.9 106.5 88.8 76.0 88.9 96.3 98.9 75.5 80.0 82.3 78.3 90.0 102.4 93.7 75.2	99.1 99.1 97.4 92.6 90.6 125.4 98.3 106.2 90.1 75.4 89.1 96.6 99.1 74.7 80.7 81.6 77.4 89.4 103.3 95.4 75.0	99.2 97.4 97.9 94.2 90.5 124.9 96.0 105.9 90.5 76.4 88.1 96.5 99.4 74.9 77.2 81.1 77.5 89.0 103.0 95.4 72.9	100.6 96.1 96.6 93.4 90.7 125.1 97.8 110.5 90.3 76.7 87.1 95.9 98.7 75.6 78.6 80.9 77.0 89.9 101.6 94.7 71.7	99.1 95.0 99.5 93.5 91.6 125.0 94.7 108.8 92.0 77.4 86.7 96.5 99.0 75.8 77.4 82.1 77.1 91.2 102.7 94.3 70.8	99.6 95.2 99.6 93.5 91.6 127.8 95.5 106.9 94.5 78.0 87.6 96.3 98.8 73.6 76.3 82.0 76.1 89.8 103.5 93.2 69.8	100.2 95.9 100.3 93.4 90.8 127.5 94.4 110.1 93.6 76.1 86.7 96.4 98.9 75.2 76.8 81.4 75.8 89.5 103.4 94.4 70.1	99.2 96.6 95.5 101.6 94.5 90.7 128.4 96.1 107.6 94.9 76.3 86.3 98.9 75.1 76.6 81.1 74.8 89.4 103.2 94.7 69.4

 $\label{eq:continuous_preliminary} \overline{r \mbox{ Revised. p Preliminary.}}$ Note. Refer to the notes for table 1.

Table 5
INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

2017 = 100, seasonally adjusted

to 17 = 100, seasonarry adjusted											
Item		2024 proportion	2025 Jan.	Feb.	Mar.	Apr.r	May ^r	June ^r	July ^r	Aug.r	Sept. ^p
		1 1				*					
Total industry		100.00	100.1	101.1	101.0	101.1	101.0	101.4	101.6	101.3	101.4
Energy		25.57	114.4	114.3	112.4	113.4	113.1	114.3	114.6	113.1	113.7
Consumer products		5.13	102.8	103.1	98.5	98.5	98.7	99.6	100.2	97.6	97.2
Commercial products		3.05	113.8	113.3	111.7	113.6	113.9	114.0	114.5	113.1	113.0
Oil and gas well drilling	213111	.43	103.3	103.3	103.5	102.3	100.2	99.1	97.3	98.1	98.4
Converted fuel		5.14	116.0	113.8	108.5	110.8	110.3	112.4	112.7	109.1	113.1
Primary energy		11.83	119.1	119.8	121.0	121.5	121.1	122.3	122.5	122.6	122.2
Non-energy		74.43	95.2	96.5	97.0	96.8	96.7	97.0	97.1	97.2	97.1
Selected high-technology industries		2.07	169.6	171.3	171.3	172.8	174.1	172.6	178.5	176.0	177.1
Computers and peripheral equipment	3341	.19	158.7	160.0	160.0	159.1	163.7	164.6	171.1	172.8	176.0
Communications equipment	3342	.47	216.3	218.4	220.0	216.7	213.0	208.7	203.9	201.1	200.1
Semiconductors and related											
electronic components	3344	1.40	158.1	159.7	159.2	162.2	164.2	163.2	171.3	168.3	169.7
Excluding selected high-technology											
industries		72.37	93.5	94.8	95.3	95.1	95.0	95.2	95.3	95.4	95.3
Motor vehicles and parts	3361-3	5.94	97.1	106.5	106.2	105.9	110.5	108.8	106.9	110.1	107.6
Motor vehicles	3361	3.01	102.6	116.9	115.6	116.1	124.4	121.0	118.7	124.1	119.3
Motor vehicle parts	3363	2.38	95.3	100.9	100.7	100.1	103.4	102.3	100.7	102.2	102.0
Excluding motor vehicles and parts		66.43	93.2	93.9	94.4	94.3	93.8	94.2	94.3	94.3	94.4
Consumer goods		19.80	95.7	96.5	96.9	96.8	95.9	96.4	96.7	96.5	96.2
Business equipment		7.27	82.2	82.9	84.3	84.6	84.7	85.2	86.2	85.3	86.4
Construction supplies		6.02	98.0	99.2	100.1	99.2	99.0	99.2	98.2	98.9	99.3
Business supplies		7.69	89.3	89.7	90.1	89.3	88.9	88.7	88.2	88.3	88.1
Materials		23.96	93.9	94.6	94.8	95.0	94.4	95.0	95.1	95.2	95.3
Measures excluding selected high-technology											
industries											
Total industry		97.93	98.9	99.9	99.8	99.9	99.7	100.2	100.3	100.0	100.1
Manufacturing ¹		73.38	93.5	94.7	95.1	95.0	94.8	95.1	95.2	95.3	95.2
Durable		36.48	92.7	94.3	94.7	94.7	95.1	95.1	95.4	95.6	95.6
Measures excluding motor vehicles and parts											
Total industry		94.06	100.3	100.8	100.8	100.9	100.5	101.0	101.3	100.9	101.1
Manufacturing ¹		69.51	95.0	95.6	96.1	96.0	95.5	95.9	96.2	96.1	96.2
Durable		32.60	95.9	96.2	96.8	96.8	96.6	96.8	97.7	97.3	97.8
Measures excluding selected high-technology industries and motor vehicles and parts											
Total industry		92.00	99.0	99.5	99.5	99.6	99.1	99.7	99.9	99.5	99.7
Manufacturing ¹		67.44	93.2	93.8	94.3	94.1	93.6	94.1	94.3	94.2	94.3
G											
Stage-of-process components of non-energy											
materials, measures of the input to		0.54	06.1	07.5	07.5	07.2	07.0	00.1	00.0	00.0	00.2
Finished processors		9.54	96.1 96.3	97.5 97.3	97.5	97.3 98.0	97.8	98.1 97.8	98.8 97.8	98.8 97.9	99.3
Primary and semifinished processors		17.31	90.3	91.3	97.6	98.0	97.4	97.8	97.8	91.9	97.8
		1	1								

r Revised. p Preliminary.

Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

Percent												
Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2023	66.1	48.8	40.7	55.6	49.5	39.0	55.3	47.8	52.2	48.8	50.5	45.4
2024	35.9	61.4	60.7	46.1	61.4	47.5	45.4	56.3	47.5	47.1	46.8	57.6
2025	48.5	62.7	53.9	44.1	52.9	52.9	52.5	48.8				
Three months earlier												
2023	42.4	46.1	50.5	47.1	50.8	49.8	47.5	45.4	51.9	45.4	49.8	46.1
2024	36.3	47.8	53.2	58.3	58.0	49.5	48.5	50.2	41.7	48.8	41.0	52.2
2025	52.5	59.0	58.6	52.9	50.8	57.3	56.3	49.8				
Six months earlier												
2023	41.4	44.4	39.0	43.7	49.2	53.6	47.5	46.1	51.2	45.8	40.7	47.1
2024	35.6	41.4	48.8	48.1	52.2	48.1	53.6	49.5	44.7	48.5	39.0	46.4
2025	47.5	50.2	54.9	54.2	61.4	54.9	56.9	52.2				

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

^{1.} The composition of manufacturing is specified in a note for the summary table.

Table 7
CAPACITY UTILIZATION
Percent of capacity, seasonally adjusted

Total Industry	
Manufacturing (NAICS) 31-33 75.21 78.2 84.6 63.4 75.3 75.6 75.6 75.5 75.6 75.5 75.6 75.5 75.6 75.5 75.6 75.5 75.6 75.5 75.6 75.5 75.6 75.5 75.5 75.6 75.5 75.6 75.5 75.6 75.5 75.6 75.5 75.5 75.6 75.5 75.5 75.6 75.5 75.5 75.5 75.6 75.5 75	g.r Sept.
Manufacturing (NAICS) 31-33 74.21 78.2 84.7 63.5 75.2 75.5 75.5 75.6 75.6 75.5 75.6 75.5 75.6 75.5 75.6 75.5	.9 75.
Durable manufacturing	.6 75.
Wood products	.6 75.
Nometalic mineral products 327 2.29 73.9 82.4 43.8 80.3 79.2 79.1 80.1 79.1 78.4 78.7 79.5 79.5 79.5 79.5 79.5 78.5	.0 74.
Primary metals 331 2.75 77.3 94.5 94.4 65.8 66.3 67.9 66.3 65.4 67.3 67.4 67.5 67.5 75.5 75.9 75.2 75.2 75.2 75.5 Machinery 333 5.23 78.2 88.7 95.5 78.0 78.8 78.8 78.4 78.5 79.3 79.3 78.2 Machinery 333 5.23 78.2 88.7 95.5 78.0 78.8 78.8 78.4 78.5 79.3 79.3 78.2 Electrical equip, appliances, and components 334 49.6 77.1 84.4 70.0 75.2 74.3 74.7 74.7 74.4 73.9 75.1 74.5 Electrical equip, appliances, and components 3361-3 6.54 74.5 87.7 33.0 65.0 68.1 68.1 66.5 69.4 68.4 67.3 69.4 66.7 67.3 65.4 67.3 65.4 74.5 87.7 33.0 65.0 68.1 68.1 66.5 69.4 68.4 67.3 69.4 66.7 67.3 69.4 66.7 67.3 65.4 67.3 65.4 74.5 87.7 88.6 84.2 83.0 84.1 85.6 82.8 83.3 82.4 67.3 89.4 89.4 89.4 89.4 89.4 89.4 89.4 89.4	
Fabricated metal products 332 6.14 78.6 82.8 65.1 74.3 75.4 75.5 75.9 75.2 75.2 75.3 75 Machinery 333 5.23 78.2 88.7 79.5 78.0 78.8 78.8 78.4 78.4 78.5 79.3 79.3 79.3 79.3 79.3 79.3 79.3 79.3	
Machinery 333 5.23 78.2 88.7 59.5 78.0 78.8 78.8 78.8 78.4 78.5 79.3 79.3 79.3 78.5 78.6 78.6 78.8 78.	
Computer and electronic products 334 4.96 77.1 84.4 70.0 75.2 74.3 74.7 74.7 74.4 73.9 75.1 74	
Electrical equip., appliances, and components 335 1.95 81.6 92.5 65.7 86.6 84.2 83.0 84.1 85.6 82.8 83.3 82	
and components 335 195 81.6 92.5 65.7 86.6 84.2 83.0 84.1 85.6 82.8 83.3 84.1 83.6 82.8 83.3 84.1 83.6 82.8 83.3 84.1 83.6 82.8 83.3 84.1 83.6 82.8 83.3 84.1 83.6 82.8 83.3 84.1 83.6 82.8 83.3 84.1 83.6 82.8 83.3 84.1 83.6 82.8 83.3 84.1 83.6 82.8 83.3 84.1 83.6 84.	.5 74.
Motor vehicles and parts 3361-3 6.54 74.5 87.7 33.0 65.0 68.1 68.1 66.5 69.4 68.4 67.3 69.4 68.7 68.4 67.3 69.4 68.7 68.4 67.3 69.4 68.7 68.4 67.3 69.4 68.7 68.4 69.2 69.4 68.7 69.1 70.3 72.1 71.5 72.2 71.5 72.2 71.5 72.2 71.5 72.2 71.5 72.2 72.5 73.5 71.7 72.3 68.2 69.4 68.7 69.1 69.8 70.4 68.5 77.7 77.6 77.8	2 02
Aerospace and miscellaneous transportation equipment 3364–9 4.52 73.5 71.7 72.3 68.2 69.6 71.8 69.3 69.1 70.3 72.1 71 Furniture and related products 337 1.15 77.6 82.7 52.7 68.4 69.2 69.4 68.7 69.1 69.8 70.4 68 Miscellaneous 339 2.35 77.2 81.0 68.3 77.9 76.4 76.0 77.1 76.3 75.9 76.7 75 75.0 Miscellaneous 339 2.35 77.2 81.0 68.3 77.9 76.4 76.0 77.1 76.3 75.9 76.7 75.0 Nondurable manufacturing 34.56 80.0 86.1 68.9 77.7 77.6 77.3 77.9 77.2 77.6 77.4 77.5 77.5 77.4 77.4 77 77.6 77.4 77.5 77.4 77.5 77.4 77.4 77.4 77 77.6 77.4 77.5 77.5 77.5 77.4 77.4 77.4 77.4	
transportation equipment 3364-9 4.52 73.5 71.7 72.3 68.2 69.6 71.8 69.3 69.1 70.3 72.1 71. Furniture and related products 33.7 1.15 77.6 82.7 52.7 68.4 69.2 69.4 68.7 69.1 69.8 70.4 68.8 Miscellaneous 33.9 2.35 77.2 81.0 68.3 77.9 76.4 76.0 77.1 76.3 75.9 76.7 75. Nondurable manufacturing 34.56 80.0 86.1 68.9 77.7 77.6 77.3 77.9 77.2 77.6 77.4 77. Food, beverage, and tobacco products 311.2 11.69 80.2 85.3 74.9 79.3 79.2 78.7 79.6 79.0 79.1 78.8 70.3 70.3 71.1 74.7 74. Apparel and leather 315.6 22 75.8 87.2 61.9 68.8 67.2 66.8 66.5 68.0 67.1 66.4 67. Apparel and leather 32.2 2.08 86.6 92.7 72.7 80.2 79.3 79.6 79.0 79.8 80.0 80.0 86.6 97.7 77.0 70.0 70.0 70.1 88.8 0.1 80.0 97.0 Printing and support 32.2 2.08 86.6 92.7 72.7 80.2 79.3 79.6 79.0 78.8 80.1 80.0 97.0 Perroleum and coal products 32.4 2.92 85.4 91.1 76.3 89.8 89.6 88.7 88.7 89.5 90.7 89.1 88. Chemicals 32.5 11.93 76.9 82.1 65.5 75.2 74.9 75.1 75.5 74.3 74.9 75.3 75.9 75.3 75.9 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0	.3 67.
Furniture and related products 337 1.15 77.6 82.7 52.7 68.8 69.2 69.4 68.7 69.1 69.8 70.4 68.8 Miscellaneous 339 2.35 77.2 81.0 68.3 77.9 76.4 76.0 77.1 76.3 75.9 76.7 75.5 Nondurable manufacturing 34.56 80.0 86.1 68.9 77.7 77.6 77.3 77.9 77.2 77.6 77.3 Food, beverage, and tobacco products 311,2 11.69 80.2 85.3 74.9 79.3 79.2 78.7 77.9 77.2 77.6 77.3 Textile and product mills 313.4 .56 77.4 92.0 54.0 71.2 71.9 71.3 71.3 72.1 72.3 70.3 71.1 Apparal and leather 315.6 22 75.8 87.2 61.9 68.8 67.2 66.8 66.5 68.0 67.1 66.4 67.2 Paper 322 2.08 86.6 92.7 72.7 80.2 79.3 79.6 79.0 78.8 80.1 80.0 79.9 Printing and support 323 1.41 78.9 85.4 57.1 72.7 72.0 70.6 72.3 71.8 72.0 71.0 70.0 Petroleum and coal products 324 2.99 85.4 91.1 76.3 89.8 89.6 88.7 88.7 89.5 90.7 89.1 88. Chemicals 325 11.93 76.9 82.1 65.5 75.2 74.9 75.1 75.5 74.3 74.9 75.3 75.8 Other manufacturing (non-NAICS) 1133,513pt.	2 72
Miscellaneous 339	
Nondurable manufacturing	
Food, beverage, and tobacco products 311,2 11.69 80,2 85,3 74,9 79,3 79,2 78,7 79,6 79,0 79,1 78,8 78 Textile and product mills 313,4 .56 77.4 92,0 54,0 71,2 71,9 71,3 71,3 72,1 72,3 70,3 71 Apparel and leather 315,6 .22 75,8 87,2 61,9 68,8 67,2 66,5 66,5 68,0 67,1 66,4 67 Paper 322 2.08 86,6 92,7 72,7 80,2 79,3 79,6 79,0 78,8 80,1 80,0 79 Printing and support 323 1.41 78,9 85,4 57,1 72,7 72,0 70,6 72,3 71,8 72,0 71,0 70 Petroleum and coal products 324 2.92 85,4 91,1 76,3 89,8 89,6 88,7 88,7 89,5 90,7 89,1 88 Chemicals 325 11,93 76,9 82,1 65,5 75,2 74,9 75,1 75,5 74,3 74,9 75,3 75 Plastics and rubber products 326 3.75 81,8 93,1 57,6 73,3 74,2 73,8 74,6 74,1 73,9 73,0 74 Other manufacturing (non-NAICS) 1133,513pt. 1.50 80,0 84,0 61,3 81,4 79,6 78,3 80,5 79,5 78,8 78,1 78 Mining 21 11,81 85,2 88,6 78,3 83,2 84,5 85,2 84,0 84,5 85,0 84,9 85 Utilities 2211,2 12,48 84,3 93,2 78,1 73,5 71,5 70,4 71,9 71,0 71,7 71,8 69 Selected high-technology industries Computers and peripheral equipment 3341 .22 76,5 86,8 82,9 75,3 77,0 82,0 75,4 77,6 78,0 81,0 81 Communications equipment 3342 .52 75,5 86,2 77,7 68,3 64,1 58,4 66,1 64,1 62,0 59,8 58 Semiconductors and related electronic components 3344 1.40 79,1 93,0 62,9 78,9 77,5 76,8 78,2 78,0 76,2 78,7 75,7 75,7 75,7 75,7 75,7 75,7 75,7	.8 /3.
Textile and product mills 313,4 5.6 77.4 92.0 54.0 71.2 71.9 71.3 71.3 72.1 72.3 70.3 71 Apparel and leather 315.6 .22 75.8 87.2 61.9 68.8 67.2 66.8 66.5 68.0 67.1 66.4 67 Paper 322 2.08 86.6 92.7 72.7 80.2 79.3 79.6 79.0 78.8 80.1 80.0 79 Printing and support 323 1.41 78.9 85.4 57.1 72.7 72.7 72.0 70.6 72.3 71.8 72.0 71.0 70 Petroleum and coal products 324 2.92 85.4 91.1 76.3 89.8 89.6 88.7 88.7 88.95 90.7 89.1 89.5 Plastics and rubber products 326 3.75 81.8 93.1 57.6 73.3 74.2 73.8 74.6 74.1 73.9 73.0 74 Other manufacturing (non-NAICS) 1133,5131pt. 1.50 80.0 84.0 61.3 81.4 79.6 78.3 80.5 79.5 78.8 78.1 78. Mining 21 11.81 85.2 88.6 78.3 83.2 84.5 85.2 84.0 84.5 85.0 84.9 85 Utilities 2211,2 12.48 84.3 93.2 78.1 73.5 71.5 70.4 71.9 71.0 71.7 71.8 69 Selected high-technology industries 21.5 77.4 86.2 71.4 76.1 74.3 73.0 75.1 74.7 73.1 74.5 72 Computers and peripheral equipment 3341 2.2 76.5 86.8 82.9 75.3 77.0 82.0 75.4 77.6 78.0 81.0 81.0 81.0 81.0 81.0 81.0 81.0 8	
Apparel and leather 315,6 2.2 75.8 87.2 61.9 68.8 67.2 66.8 66.5 68.0 67.1 66.4 67 Paper 322 2.08 86.6 92.7 72.7 80.2 79.3 79.6 79.0 78.8 80.1 80.0 79 Printing and support 323 1.41 78.9 85.4 57.1 72.7 72.0 70.6 72.3 71.8 72.0 71.0 70 Petroleum and coal products 324 2.92 85.4 91.1 76.3 89.8 89.8 89.6 88.7 88.7 89.5 90.7 89.1 88 Chemicals 325 11.93 76.9 82.1 65.5 75.2 74.9 75.1 75.5 74.3 74.9 75.3 75.8 Plastics and rubber products 326 3.75 81.8 93.1 57.6 73.3 74.2 73.8 74.6 74.1 73.9 73.0 74 Other manufacturing (non-NAICS) 1133,5131pt. 1.50 80.0 84.0 61.3 81.4 79.6 78.3 80.5 79.5 78.8 78.1 78 Utilities 2211,2 12.48 84.3 93.2 78.1 73.5 71.5 70.4 71.9 71.0 71.7 71.8 69 Selected high-technology industries 2.15 77.4 86.2 71.4 76.1 74.3 73.0 75.4 74.7 73.1 74.5 72 Computers and peripheral equipment 3341 2.2 76.5 86.8 82.9 75.3 77.0 82.0 75.4 77.6 78.0 81.0 81.0 81.0 81.0 81.0 81.0 81.0 8	
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Plastics and rubber products 326 3.75 81.8 93.1 57.6 73.3 74.2 73.8 74.6 74.1 73.9 73.0 74 Other manufacturing (non-NAICS) 1133,5131pt. 1.50 80.0 84.0 61.3 81.4 79.6 78.3 80.5 79.5 78.8 78.1 78 Mining 21 11.81 85.2 88.6 78.3 83.2 84.5 85.2 84.0 84.5 85.0 84.9 85 Utilities 2211,2 12.48 84.3 93.2 78.1 73.5 71.5 70.4 71.9 71.0 71.7 71.8 69 Selected high-technology industries Computers and peripheral equipment 3341 .22 76.5 86.8 82.9 75.3 77.0 82.0 75.4 77.6 78.0 81.0 81 Semiconductors and related electronic components 3344 1.40 79.1 93.0 62.9 78.9 77.5 76.8 78.2 78.0 76.2 78.7 76 Measures excluding selected high-technology industries Total industry 97.85 79.6 84.9 66.2 76.0 76.1 76.0 76.1 75.9 76.2 76.2 75.7 75.7 75.7 75.7 75.7 75.7 75.7 75	
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Utilities 2211,2 12.48 84.3 93.2 78.1 73.5 71.5 70.4 71.9 71.0 71.7 71.8 69 Selected high-technology industries 2.15 77.4 86.2 71.4 76.1 74.3 73.0 75.1 74.7 73.1 74.5 72 Computers and peripheral equipment 3341 .22 76.5 86.8 82.9 75.3 77.0 82.0 75.4 77.6 78.0 81.0 81 Communications equipment 3342 .52 75.5 86.2 77.7 68.3 64.1 58.4 66.1 64.1 62.0 59.8 58 Semiconductors and related electronic components 3344 1.40 79.1 93.0 62.9 78.9 77.5 76.8 78.2 78.0 76.2 78.7 76 Measures excluding selected high-technology industries 97.85 79.6 84.9 66.2 76.0 76.1 75.9 76.2 76.2 75.7	.7 78.
Selected high-technology industries 2.15 77.4 86.2 71.4 76.1 74.3 73.0 75.1 74.7 73.1 74.5 72	
Computers and peripheral equipment 3341 .22 76.5 86.8 82.9 75.3 77.0 82.0 75.4 77.6 78.0 81.0 81 Communications equipment 3342 .52 75.5 86.2 77.7 68.3 64.1 58.4 66.1 64.1 62.0 59.8 58 Semiconductors and related electronic components 3344 1.40 79.1 93.0 62.9 78.9 77.5 76.8 78.2 78.0 76.2 78.7 76 Measures excluding selected high-technology industries Total industry 97.85 79.6 84.9 66.2 76.0 76.1 76.0 76.1 75.9 76.2 76.2 75 Manufacturing¹ 73.57 78.3 84.5 62.9 75.3 75.6 75.7 75.6 75.5 75.7 75.7 75.7 75.7	.4 69.
Computers and peripheral equipment 3341 .22 76.5 86.8 82.9 75.3 77.0 82.0 75.4 77.6 78.0 81.0 81 Communications equipment 3342 .52 75.5 86.2 77.7 68.3 64.1 58.4 66.1 64.1 62.0 59.8 58 Semiconductors and related electronic components 3344 1.40 79.1 93.0 62.9 78.9 77.5 76.8 78.2 78.0 76.2 78.7 76 Measures excluding selected high-technology industries Total industry 97.85 79.6 84.9 66.2 76.0 76.1 76.0 76.1 75.9 76.2 76.2 75 Manufacturing¹ 73.57 78.3 84.5 62.9 75.3 75.6 75.7 75.6 75.5 75.7 75.7 75.7 75.7	.5 71.
Communications equipment 3342 .52 75.5 86.2 77.7 68.3 64.1 58.4 66.1 64.1 62.0 59.8 58 Semiconductors and related electronic components 3344 1.40 79.1 93.0 62.9 78.9 77.5 76.8 78.2 78.0 76.2 78.7 76 Measures excluding selected high-technology industries Total industry 97.85 79.6 84.9 66.2 76.0 76.1 76.0 76.1 75.9 76.2 76.2 75 73.57 78.3 84.5 62.9 75.3 75.6 75.7 75.6 75.5 75.7 75.7 75.7 75.7	
Semiconductors and related electronic components 3344 1.40 79.1 93.0 62.9 78.9 77.5 76.8 78.2 78.0 76.2 78.7 76 Measures excluding selected high-technology industries Total industry 97.85 79.6 84.9 66.2 76.0 76.1 76.0 76.1 75.9 76.2 76.2 75 Manufacturing 73.57 78.3 84.5 62.9 75.3 75.6 75.7 75.6 75.5 75.7 75.7 75.7 75.7	
electronic components 3344 1.40 79.1 93.0 62.9 78.9 77.5 76.8 78.2 78.0 76.2 78.7 76 Measures excluding selected high-technology industries Total industry 97.85 79.6 84.9 66.2 76.0 76.1 76.0 76.1 75.9 76.2 76.2 75. Manufacturing 1 73.57 78.3 84.5 62.9 75.3 75.6 75.7 75.6 75.5 75.7 75.7 75.7 75. STAGE-OF-PROCESS GROUPS Crude 15.44 84.6 90.0 76.5 82.0 82.9 83.6 82.7 82.7 83.2 83.3 83 Primary and semifinished 46.28 80.2 87.7 63.5 76.3 75.9 75.4 76.0 75.7 75.9 75.7 75.	51.
high-technology industries Total industry 97.85 79.6 84.9 66.2 76.0 76.1 76.0 76.1 75.9 76.2 76.2 75.7	.1 75.
high-technology industries Total industry 97.85 79.6 84.9 66.2 76.0 76.1 76.0 76.1 75.9 76.2 76.2 75.7	
Total industry 97.85 79.6 84.9 66.2 76.0 76.1 76.0 76.1 75.9 76.2 76.2 75. Manufacturing 1 73.57 78.3 84.5 62.9 75.3 75.6 75.7 75.6 75.5 75.7 75.7 75.7 75. STAGE-OF-PROCESS GROUPS Crude 15.44 84.6 90.0 76.5 82.0 82.9 83.6 82.7 82.7 83.2 83.3 83 Primary and semifinished 46.28 80.2 87.7 63.5 76.3 75.9 75.4 76.0 75.7 75.9 75.7 75	
Manufacturing ¹ 73.57 78.3 84.5 62.9 75.3 75.6 75.7 75.6 75.5 75.7 75.7 75.7 75. 75. STAGE-OF-PROCESS GROUPS Crude 15.44 84.6 90.0 76.5 82.0 82.9 83.6 82.7 82.7 83.2 83.3 83 Primary and semifinished 46.28 80.2 87.7 63.5 76.3 75.9 75.4 76.0 75.7 75.9 75.7 75	.9 75.
Crude 15.44 84.6 90.0 76.5 82.0 82.9 83.6 82.7 82.7 83.2 83.3 83 Primary and semifinished 46.28 80.2 87.7 63.5 76.3 75.9 75.4 76.0 75.7 75.9 75.7 75	
Crude 15.44 84.6 90.0 76.5 82.0 82.9 83.6 82.7 82.7 83.2 83.3 83 Primary and semifinished 46.28 80.2 87.7 63.5 76.3 75.9 75.4 76.0 75.7 75.9 75.7 75	
Primary and semifinished 46.28 80.2 87.7 63.5 76.3 75.9 75.4 76.0 75.7 75.9 75.7 75	.7 83.
I HIBHOU 30.47 70.7 00.7 00.5 75.4 75.0 75.0 75.7 75.5 75.7 75.9 75.7	
	.0 /3.

r Revised. p Preliminary.

1. The composition of manufacturing is specified in a note for the summary table.

Table 8 INDUSTRIAL CAPACITY

Percent change

													Monthly
		Average a			Fourth	quarter to	o fourth q	uarter		Annual	l rate		rate
Item	1972-	1980-	1989-	1995-					2024	2025			2025
	79	88	94	2025	2022	2023	2024	2025	Q4	Q1	Q2	Q3	Sept.
Total industry	3.1	1.9	2.3	1.5	.6	1.3	1.0	1.5	1.3	1.4	1.5	1.5	.1
Manufacturing ¹	3.3	2.2	2.5	1.3	.1	.4	.7	1.1	.9	1.0	1.1	1.1	.1
Mining Utilities	.7 4.4	.1 2.2	7 1.8	1.2 1.8	2.9 1.9	1.7 3.0	.9 3.2	3 4.4	.7 3.9	.2 4.3	3 4.5	6 4.5	1 .4
Selected high-technology industries	18.6	16.7	15.9	15.9	7.7	15.2	10.7	16.5	11.6	14.1	16.4	17.8	1.4
Manufacturing ¹ ex. selected high-technology industries	2.6	1.2	1.6	.3	1	.1	.4	.7	.6	.6	.6	.7	.1
STAGE-OF-PROCESS GROUPS Crude	1.5	.5	5	1.0	2.0	1.4	.5	3	.5	.2	2	5	1
Primary and semifinished	3.0	1.4	2.5	1.6	.5	1.2	1.0	1.8	1.3	1.6	1.8	1.9	.2
Finished	3.9	3.2	2.7	1.4	.3	.4	1.2	1.6	1.5	1.5	1.5	1.6	.1

^{1.} The composition of manufacturing is specified in a note for the summary table.

Table 9
GROSS VALUE OF FINAL PRODUCTS AND NONINDUSTRIAL SUPPLIES
Billions of 2017 dollars at annual rate, seasonally adjusted

illions of 2017 donars at allitual rate, season	nany adjusted										
			2025			2025					
Item	2017	2024	Q1	Q2 ^r	Q3 ^p	Apr. ^r	May ^r	June ^r	July ^r	Aug.r	Sept. ^p
Final products and panindustrial											
Final products and nonindustrial supplies	4,045.4	3,955.2	3,970.7	3,994.5	3,994.8	3,984.3	3,998.9	4,000.2	3,999.9	3,995.9	3,988.7
supplies	4,043.4	3,933.2	3,970.7	3,774.3	3,774.0	3,704.3	3,996.9	4,000.2	3,777.7	3,773.7	3,700.7
Final products	2,969.9	2,898.2	2,899.8	2,921.9	2,928.2	2,911.4	2,927.1	2,927.2	2,934.3	2,930.0	2,920.2
Consumer goods	2,186.4	2,162.1	2,153.0	2,152.8	2,146.9	2,149.7	2,154.6	2,154.3	2,154.6	2,149.7	2,136.3
Durable	530.8	552.3	527.5	538.6	533.2	533.1	544.7	538.0	531.8	540.4	527.4
Automotive products	375.7	406.0	382.5	395.0	390.1	389.6	401.0	394.5	387.7	397.9	384.7
Other durable goods	155.2	147.8	145.8	144.8	144.3	144.6	145.2	144.7	145.1	144.0	143.7
Nondurable	1,655.6	1,610.8	1,624.5	1,614.3	1,613.4	1,616.2	1,610.4	1,616.2	1,622.2	1,609.6	1,608.3
Equipment, total	783.5	739.6	750.6	773.6	786.2	766.0	777.2	777.6	784.5	785.1	789.1
Business and defense	760.3	716.1	727.5	750.9	764.0	743.0	754.5	755.3	762.1	763.1	767.0
Business	651.7	598.5	607.4	631.3	641.7	623.5	635.3	635.0	639.8	641.2	644.2
Defense and space	108.6	117.4	120.0	118.8	121.5	118.7	118.1	119.5	121.6	121.0	121.9
Nonindustrial supplies	1,075.5	1.057.2	1.070.6	1,072.5	1,066.9	1,072.7	1.071.9	1.072.9	1.066.0	1.066.3	1,068.5
Construction supplies	325.3	318.6	326.3	326.5	325.5	326.6	325.9	327.0	323.4	325.9	327.3
Business supplies	750.2	739.1	744.2	746.0	741.3	746.1	746.1	745.9	742.7	740.2	740.9
Commercial energy products	242.8	267.6	271.1	275.3	274.0	274.0	275.7	276.2	276.1	272.2	273.7

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

Percent change, seasonally adjusted														
		Fou	rth quarte	er to										
		for	fourth quarter			Annual r	ate			Montl	nly rate			Sept. '24
Item	2024		2022 2023 2024					2025						to
	gross value ¹	2022	2023	2024	Q1	Q2 ^r	Q3 ^p	Apr.r	May ^r	June ^r	July ^r	Aug.r	Sept.p	Sept. '25
Finished	2,448.1	1.8	2	-3.0	5.6	5.2	1.3	1	.5	2	.3	.0	2	1.6
Semifinished	1,952.6	3	7	.6	6.4	1.0	-1.5	.0	.1	.0	2	3	.0	1.6
Primary	1,442.1	-1.4	.2	.1	8	.4	3.4	.7	1	1.7	1	7	1.0	1.5
Crude	730.4	-1.4	2.7	.6	-3.6	2.4	3.2	.3	2	.5	.4	.4	2	1.3

r Revised. p Preliminary.

^{1.} Billions of 2017 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																	
2003	.9	.1	3	6	.0	.1	.5	2	.6	.1	.7	.0	2.7	-2.8	2.7	3.8	1.4
2004	.2	.6	4	.4	.7	8	.7	.1	.1	.9	.2	.8	2.7	2.1	2.2	5.7	2.6
2005	.4	.7	1	.2	.1	.4	3	.3	-1.9	1.2	1.1	.5	5.8	2.3	-1.7	3.8	3.4
2006 2007	3	.0	.2	.3 .7	.0	.3	1 1	.4	2 .2	1 3	.0	1.0	4.0	2.4 4.8	1.6	.9 1.2	2.3
	.5	.,															
2008 2009	1 -2.5	4 6	3 -1.6	6 8	6 -1.0	2 4	4 1.1	-1.6 1.1	-4.4 .9	1.0	-1.3 .4	-2.8 .4	-1.2 -20.8	-5.7 -10.9	-12.2 6.4	-16.1 6.8	-3.4 -11.4
2010	1.1	.4	.7	.3	1.4	.2	.4	.4	.3	3	.1	1.0	8.2	7.8	5.3	1.7	5.6
2011	2	4	1.0	3	.1	.3	.5	.7	1	.7	.0	.5	2.2	1.7	4.7	4.2	3.2
2012	.6	.3	5	.7	.2	.0	.2	4	1	.3	.4	.2	4.0	2.6	1	1.9	3.1
2013	.0	.5	.4	1	.1	.2	3	.6	.5	1	.2	.2	3.0	1.8	1.6	2.7	2.0
2014	4	.8	1.0	.1	.4	.3	.2	2	.3	.0	.6	.0	2.8	5.6	2.2	2.2	3.0
2015	8	6	3	5	4	3	.6	2	3	5	7	5	-4.4	-5.4	.3	-5.4	-1.4
2016	.5	5	7	.3	2	.5	.1	2	1	.0	4	.7	-2.6	-1.3	.9	6	-2.2
2017	3	4	.7	1.0	.1	.2	2	4	.1	1.2	.2	.2	.0	6.0	-1.2	5.7	1.2
2018	.0	.2	.5	1.1	9	.8	.2	.6	.1	1	.1	.0	2.2	4.7	3.4	.8	3.2
2019 2020	7	5	.0	6 -13.2	.1	.0	5 3.7	.7	3	8	.5	2	-3.8	-2.6	3	-2.3	8
2020	7 .5	.3 -3.3	-3.9 2.9	-13.2	1.7 .9	6.6	.5	1.0	.0 -1.2	.8 1.3	.4 .7	1.3	-6.7 1.0	-41.6 6.9	43.6 1.8	7.5	-7.1 4.4
2021	4	-3.3 .6	.6	.0	1	3	.2	1	.2	.0	3	-1.2	1.0	1.9	2	-2.1	1.7
2023	.7	.1	.4	.2	3	8	.8	1	.2	5	.4	3	.3	.2	.6	-1.1	2
2023	-1.4	1.1	.2	2	5	.0	9	1	6	3	2	1.0	-2.6	2.7	-2.3	-1.1	2
2025	3	1.0	1	.1	1	.4	.2	3	.1	5	2	1.0	4.2	1.8	1.1	-1.5	,
P (2017=100)																	
2023	100.5	100.6	101.0	101.3	100.9	100.1	100.9	100.8	101.0	100.5	100.9	100.6	100.7	100.8	100.9	100.6	100.8
2024	99.2	100.3	100.5	100.2	100.9	100.1	100.0	100.4	99.8	99.5	99.3	100.3	100.7	100.7	100.1	99.7	100.0
2025	100.1	101.1	101.0	101.1	101.0	101.4	101.6	101.3	101.4				100.7	101.2	101.4		
Capacity (percent of 2017 output)																	
2023	129.5	129.7	129.8	130.0	130.1	130.3	130.4	130.5	130.6	130.7	130.8	130.9	129.7	130.1	130.5	130.8	130.3
2024 2025	131.0 132.4	131.1 132.6	131.2 132.7	131.2 132.9	131.3 133.0	131.4 133.2	131.6 133.4	131.7 133.5	131.8 133.7	131.9	132.1	132.2	131.1 132.6	131.3 133.0	131.7 133.5	132.1	131.5
3023	132.4	132.0	132.7	132.9	133.0	133.2	133.4	133.3	133.7				132.0	133.0	133.3		
Utilization																	
(percent) 2003	76.1	76.2	76.0	75.6	75.6	75.7	76.1	76.0	76.5	76.6	77.1	77.1	76.1	75.6	76.2	77.0	76.2
2003	77.3	77.8	77.5	77.8	78.4	77.8	78.4	78.4	78.5	79.2	79.3	79.9	77.5	78.0	78.4	79.5	78.3
2005	80.1	80.7	80.5	80.5	80.5	80.8	80.4	80.5	78.8	79.7	80.4	80.7	80.4	80.6	79.9	80.3	80.3
2006	80.7	80.6	80.7	80.8	80.7	80.8	80.6	80.8	80.4	80.2	80.0	80.6	80.7	80.7	80.6	80.2	80.6
2007	80.1	80.7	80.7	81.1	81.0	80.9	80.7	80.8	80.9	80.7	81.1	81.1	80.5	81.0	80.8	81.0	80.8
2008	81.1	80.8	80.5	80.0	79.6	79.4	79.0	77.7	74.2	74.9	73.8	71.6	80.8	79.7	77.0	73.4	77.7
2009	69.7	69.2	68.1	67.5	66.8	66.5	67.3	68.1	68.8	69.0	69.4	69.9	69.0	66.9	68.0	69.4	68.4
2010	70.8	71.2	71.8	72.2	73.3	73.6	74.0	74.4	74.7	74.6	74.7	75.5	71.2	73.0	74.4	74.9	73.4
2011 2012	75.4	75.1 77.4	75.9 76.8	75.6 77.2	75.7 77.3	75.8 77.1	76.1 77.1	76.6 76.7	76.4 76.5	76.8 76.6	76.7 76.8	76.9 76.8	75.4 77.2	75.7 77.2	76.4 76.8	76.8 76.7	76.1 77.0
2013 2014	76.8 77.3	77.0 77.8	77.2 78.5	77.1 78.5	77.0 78.7	77.1 78.9	76.8 79.0	77.2 78.8	77.5 78.9	77.4 78.9	77.5 79.3	77.6 79.2	77.0 77.8	77.1 78.7	77.2 78.9	77.5 79.1	77.2 78.6
2014	78.6	78.1	78.5	77.3	77.0	76.8	79.0	78.8	78.9	76.6	76.1	75.7	78.1	77.0	78.9	76.1	77.1
2016	76.1	75.7	75.2	75.4	75.2	75.5	75.6	75.4	75.3	75.3	74.9	75.4	75.7	75.4	75.4	75.2	75.4
2017	75.2	74.9	75.4	76.2	76.4	76.6	76.5	76.2	76.4	77.4	77.6	77.9	75.2	76.4	76.3	77.6	76.4
	77.9	78.2	78.6	79.5	78.8	79.4	79.5	79.9	79.9	79.8	79.8	79.7	78.2	79.2	79.8	79.8	79.2
2018	79.1	78.6	78.5	78.0	78.0	77.9	77.5	77.9	77.6	76.9	77.3	77.0	78.7	78.0	77.7	77.1	77.9
	1	76.8	73.8	64.1	65.2	69.5	72.2	73.0	73.1	73.9	74.3	75.4	75.7	66.3	72.8	74.5	72.3
2019 2020	76.5	73.6	75.8	76.1	76.9	77.3	77.8	77.7	76.9	78.0	78.6	78.4	75.1	76.8	77.5	78.3	76.9
2019 2020 2021	75.9				70.0	78.6	78.7	78.5	78.6	78.5	78.2	77.1	78.6	78.9	78.6	77.9	78.5
2019 2020 2021		78.6	79.0	79.0	78.9	70.0										,	
2019 2020 2021 2022	75.9		79.0 77.8	79.0 77.9	77.5	76.8	77.4	77.3	77.3	76.9	77.1	76.9	77.7	77.4	77.3	76.9	
2018 2019 2020 2021 2022 2023 2024 2025	75.9 78.1	78.6						77.3 76.3 75.9	77.3 75.7 75.9	76.9 75.4	77.1 75.2	76.9 75.9	77.7 76.3 76.0	77.4 76.6 76.0			77.3 76.1

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

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

Seasonally adjusted

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ²																	
2003	.8	1	.1	7	.0	.5	.3	5	.8	.1	.9	1	2.2	-2.0	2.4	4.2	1.4
2004	1	.7	.0	.3	.7	7	.9	.4	.0	.9	.0	.8	2.4	3.1	4.0	5.4	3.0
2005	.6	.9	5	.4	.3	.2	3	.5	-1.1	1.4	.9	.1	6.5	2.7	5	6.2	4.1
2006	.8	3	.0	.4	2	.3	3	.7	.1	5	.1	1.5	4.0	.7	1.1	1.6	2.6
2007	3	.3	.8	.6	.0	.4	.0	3	.3	2	.5	.1	4.7	5.7	.5	1.2	2.8
2008	2	7	4	-1.0	6	7	-1.0	-1.3	-3.5	7	-2.5	-3.3	-2.3	-8.1	-13.5	-22.1	-4.7
2009	-3.2	1	-1.8	7	-1.1	3	1.5	1.1	1.0	.1	1.0	1	-24.8	-10.7	8.4	7.7	-13.8
2010	1.0	.0	1.2	.8	1.3	1	.5	.1	.1	.0	.1	.5	7.1	10.1	4.1	1.6	6.0
2011	.0	.2	.6	5	.0	.1	.6	.5	.2	.5	2	.7	3.0	1	4.5	3.9	2.9
2012	.8	.4	5	.5	3	.3	2	2	2	2	.6	.7	5.4	.6	-1.3	1.0	2.6
2013	2	.4	1	3	.3	.2	8	.9	.1	.2	.0	2	2.7	.2	.2	1.7	.9
2013	-1.0	.9	1 .9	.0	.3	.3	6 .4	6	.0	1	.7	2	-1.1	4.7	1.4	.1	1.1
2015	6	7	.4	.0	.0	4	.8	3	3	1	3	3	-3.5	5	.8	-2.8	6
2016	.4	3	1	1	1	.2	.0	4	.2	.1	1	.0	4	9	2	1	8
2017	.1	1	3	1.2	1	.1	4	2	.0	1.1	.1	3	4	3.4	-2.0	3.9	.4
2019	2	0	1	7	O	6	1	2	0	1	2	2	2	2.4	1.6	1.4	1.2
2018 2019	3 9	.8 6	1 3	.7 6	8 .0	.6 .4	.1 7	.6	.0 8	4 8	3 .8	.3	.3 -4.7	2.4 -3.4	1.6 -1.2	-1.4 -2.4	1.3 -2.0
2020	3	.2	-4.6	-15.2	4.3	7.7	3.7	1.6	6	1.0	.5	.7	-5.4	-43.4	54.7	9.1	-6.5
2021	.9	-4.0	3.1	.2	1.0	.0	.9	5	-1.2	1.4	.6	1	5	6.1	2.0	3.0	4.9
2022	9	.6	.5	1	5	6	.0	.0	.0	.3	8	-1.7	-1.1	2	-2.0	-3.3	.4
2022	1.7	0	7	0	2	7	4	1	1	-	4	1	2	2	0	0	
2023 2024	1.7 -1.5	1.3	7 .1	.9 6	2 .6	7 2	.4 8	1 .5	.1 5	5 7	.4	1 .4	.3 -2.0	.2 1.1	8 -2.4	9 -2.4	9 -1.0
2025	-1.5	1.3	.4	1	1	.3	.2	.1	.0	/	.2	.4	3.9	2.4	1.3	-2.4	-1.0
IP (2017=100)	07.1	07.2	06.5	07.2	07.1	06.5	06.0	067	06.0	06.2	067	067	06.0	07.0	06.0	06.6	06.0
2023	97.1	97.2	96.5	97.3	97.1	96.5	96.8	96.7	96.8	96.3	96.7	96.7	96.9	97.0	96.8	96.6	96.8
2024 2025	95.2 95.1	96.5 96.4	96.6 96.8	96.0 96.7	96.6 96.6	96.4 96.8	95.6 97.0	96.1 97.0	95.6 97.0	94.9	95.1	95.5	96.1 96.1	96.4 96.7	95.8 97.0	95.2	95.8
Capacity (percent of 2017 output)	125.0	125.0	126.0	126.0	126.1	126.1	126.2	126.2	126.2	126.2	126.4	126.4	125.0	126.1	126.2	126.4	126.1
2023	125.9 126.5	125.9 126.6	126.0	126.0	126.1 126.8	126.1 126.9	126.2	126.2	126.3	126.3 127.2	126.4 127.3	126.4	125.9 126.6	126.1 126.8	126.2	126.4 127.3	126.1 126.9
2024 2025	120.5	120.6	126.6 127.7	126.7 127.8	120.8	128.1	126.9 128.2	127.0 128.3	127.1 128.4	127.2	127.3	127.4	120.6	120.8	127.0 128.3	127.3	120.9
Utilization	1																
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* '	74.1	74.0	74.1	72.6	72.6	74.0	74.2	72.0	74.5	716	75.2	75.2	74.1	72.7	74.2	75.1	74.2
2003	74.1	74.0 75.8	74.1 75.8	73.6	73.6 76.6	74.0 76.1	74.2 76.8	73.9	74.5	74.6 77.8	75.3	75.3 78.2	74.1 75.6	73.7	74.2	75.1 77.9	
2003 2004	75.2	75.8	75.8	76.1	76.6	76.1	76.8	77.1	77.1	77.8	77.7	78.2	75.6	76.3	77.0	77.9	76.7
2003 2004 2005	75.2 78.6	75.8 79.2	75.8 78.7	76.1 78.9	76.6 78.9	76.1 78.9	76.8 78.5	77.1 78.7	77.1 77.7	77.8 78.6	77.7 79.2	78.2 79.1	75.6 78.8	76.3 78.9	77.0 78.3	77.9 79.0	76.7 78.8
2003 2004 2005 2006	75.2	75.8	75.8	76.1	76.6	76.1	76.8	77.1	77.1	77.8	77.7	78.2	75.6	76.3	77.0	77.9	76.7 78.8 78.9
(percent) 2003 2004 2005 2006 2007	75.2 78.6 79.6 78.8	75.8 79.2 79.2 78.8	75.8 78.7 79.1 79.3	76.1 78.9 79.2 79.6	76.6 78.9 78.9 79.4	76.1 78.9 78.9 79.5	76.8 78.5 78.5 79.3	77.1 78.7 79.0 78.9	77.1 77.7 78.9 79.0	77.8 78.6 78.3 78.7	77.7 79.2 78.3 79.0	78.2 79.1 79.2 79.0	75.6 78.8 79.3 79.0	76.3 78.9 79.0 79.5	77.0 78.3 78.8 79.0	77.9 79.0 78.6 78.9	76.7 78.8 78.9 79.1
2003 2004 2005 2006 2007 2008	75.2 78.6 79.6 78.8 78.8	75.8 79.2 79.2 78.8 78.2	75.8 78.7 79.1 79.3 77.8	76.1 78.9 79.2 79.6 77.1	76.6 78.9 78.9 79.4 76.6	76.1 78.9 78.9 79.5 76.1	76.8 78.5 78.5 79.3 75.4	77.1 78.7 79.0 78.9	77.1 77.7 78.9 79.0 72.0	77.8 78.6 78.3 78.7 71.6	77.7 79.2 78.3 79.0 69.9	78.2 79.1 79.2 79.0 67.7	75.6 78.8 79.3 79.0 78.2	76.3 78.9 79.0 79.5 76.6	77.0 78.3 78.8 79.0 74.0	77.9 79.0 78.6 78.9 69.7	76.7 78.8 78.9 79.1 74.6
2003 2004 2005 2006 2007 2008 2009	75.2 78.6 79.6 78.8 78.8 65.6	75.8 79.2 79.2 78.8 78.2 65.6	75.8 78.7 79.1 79.3 77.8 64.5	76.1 78.9 79.2 79.6 77.1 64.1	76.6 78.9 78.9 79.4 76.6 63.5	76.1 78.9 78.9 79.5 76.1 63.4	76.8 78.5 78.5 79.3 75.4 64.5	77.1 78.7 79.0 78.9 74.5 65.3	77.1 77.7 78.9 79.0 72.0 66.1	77.8 78.6 78.3 78.7 71.6 66.3	77.7 79.2 78.3 79.0 69.9 67.1	78.2 79.1 79.2 79.0 67.7 67.1	75.6 78.8 79.3 79.0 78.2 65.2	76.3 78.9 79.0 79.5 76.6 63.7	77.0 78.3 78.8 79.0 74.0 65.3	77.9 79.0 78.6 78.9 69.7 66.8	76.7 78.8 78.9 79.1 74.6 65.3
2003 2004 2005 2006 2007 2008 2009 2010	75.2 78.6 79.6 78.8 78.8 65.6 67.9	75.8 79.2 79.2 78.8 78.2 65.6 68.0	75.8 78.7 79.1 79.3 77.8 64.5 69.0	76.1 78.9 79.2 79.6 77.1 64.1 69.6	76.6 78.9 78.9 79.4 76.6 63.5 70.6	76.1 78.9 78.9 79.5 76.1 63.4 70.7	76.8 78.5 78.5 79.3 75.4 64.5 71.2	77.1 78.7 79.0 78.9 74.5 65.3 71.4	77.1 77.7 78.9 79.0 72.0 66.1 71.5	77.8 78.6 78.3 78.7 71.6 66.3 71.7	77.7 79.2 78.3 79.0 69.9 67.1 71.9	78.2 79.1 79.2 79.0 67.7 67.1 72.3	75.6 78.8 79.3 79.0 78.2 65.2 68.3	76.3 78.9 79.0 79.5 76.6 63.7 70.3	77.0 78.3 78.8 79.0 74.0 65.3 71.4	77.9 79.0 78.6 78.9 69.7 66.8 72.0	76.7 78.8 78.9 79.1 74.6 65.3 70.5
2003 2004 2005 2006 2007 2008 2009 2010 2011	75.2 78.6 79.6 78.8 78.8 65.6	75.8 79.2 79.2 78.8 78.2 65.6	75.8 78.7 79.1 79.3 77.8 64.5	76.1 78.9 79.2 79.6 77.1 64.1	76.6 78.9 78.9 79.4 76.6 63.5	76.1 78.9 78.9 79.5 76.1 63.4	76.8 78.5 78.5 79.3 75.4 64.5	77.1 78.7 79.0 78.9 74.5 65.3	77.1 77.7 78.9 79.0 72.0 66.1	77.8 78.6 78.3 78.7 71.6 66.3	77.7 79.2 78.3 79.0 69.9 67.1	78.2 79.1 79.2 79.0 67.7 67.1	75.6 78.8 79.3 79.0 78.2 65.2	76.3 78.9 79.0 79.5 76.6 63.7	77.0 78.3 78.8 79.0 74.0 65.3	77.9 79.0 78.6 78.9 69.7 66.8	76.7 78.8 78.9 79.1 74.6 65.3 70.5 73.3
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	75.2 78.6 79.6 78.8 78.8 65.6 67.9 72.4 74.9	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3	77.1 77.7 78.9 79.0 72.0 66.1 71.5 73.8 74.1	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9	76.3 78.9 79.0 79.5 76.6 63.7 70.3 72.8 74.8	77.0 78.3 78.8 79.0 74.0 65.3 71.4 73.6 74.3	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3	76.7 78.8 78.9 79.1 74.6 65.3 70.5 73.3
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	75.2 78.6 79.6 78.8 78.8 65.6 67.9 72.4 74.9	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3	77.1 77.7 78.9 79.0 72.0 66.1 71.5 73.8 74.1	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9	76.3 78.9 79.0 79.5 76.6 63.7 70.3 72.8 74.8	77.0 78.3 78.8 79.0 74.0 65.3 71.4 73.6 74.3	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3	76.7 78.8 78.9 79.1 74.6 65.3 70.5 73.3 74.6
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2012	75.2 78.6 79.6 78.8 65.6 67.9 72.4 74.9	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2 74.9 75.2	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7 74.8 75.9	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8 75.0 76.6	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3	77.1 77.7 78.9 79.0 72.0 66.1 71.5 73.8 74.1 75.1 76.7	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9 75.3 76.7	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9	76.3 78.9 79.0 79.5 76.6 63.7 70.3 72.8 74.8 74.8	77.0 78.3 78.8 79.0 74.0 65.3 71.4 73.6 74.3 74.9 76.7	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3	76.7 78.8 78.9 79.1 74.6 65.3 70.5 73.3 74.6 74.9
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	75.2 78.6 79.6 78.8 78.8 65.6 67.9 72.4 74.9	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3	77.1 77.7 78.9 79.0 72.0 66.1 71.5 73.8 74.1	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9	76.3 78.9 79.0 79.5 76.6 63.7 70.3 72.8 74.8	77.0 78.3 78.8 79.0 74.0 65.3 71.4 73.6 74.3	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3	76.7 78.8 78.9 79.1 74.6 65.3 70.5 73.3 74.6 74.9 76.3
2003 2004 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	75.2 78.6 79.6 78.8 65.6 67.9 72.4 74.9 74.6 74.5	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2 74.9 75.2	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7 74.8 75.9	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9 74.5 76.0 76.8	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6 74.8 76.2	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8 75.0 76.6 76.7	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5 74.4 77.0 77.3	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3 75.1 76.6 77.1	77.1 77.7 78.9 79.0 66.1 71.5 73.8 74.1 75.1 76.7	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9 75.3 76.7 76.8	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3 75.3 77.3	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8 75.2 77.2	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9 74.7 75.2	76.3 78.9 79.0 79.5 76.6 63.7 70.3 72.8 74.8 76.3	77.0 78.3 78.8 79.0 74.0 65.3 71.4 73.6 74.3 74.9 76.7	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3	76.7 78.8 78.9 79.1 74.6 65.2 70.5 74.6 74.9 76.2 76.8
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	75.2 78.6 79.6 78.8 65.6 67.9 72.4 74.9 74.6 74.5 76.2	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2 74.9 75.2 76.4 76.4	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7 74.8 75.9 76.0	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9 74.5 76.0 76.2 77.0	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6 74.8 76.2 76.9 76.1	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8 75.0 76.6 76.7 76.2 77.1	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5 74.4 77.0 76.3 76.9	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3 75.1 76.6 77.1 75.9 76.9	77.1 77.7 78.9 79.0 66.1 71.5 73.8 74.1 75.1 76.7 76.9 76.0 77.0	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9 75.3 76.7 76.8 76.1	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3 75.3 77.3 76.0 78.0	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8 75.2 77.2 76.1 77.9	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9 74.7 75.2 76.5 76.1	76.3 78.9 79.0 79.5 76.6 63.7 70.3 74.8 74.8 76.3 76.3 76.2 77.0	77.0 78.3 78.8 79.0 65.3 71.4 73.6 74.3 74.9 76.7 77.1 76.1 76.9	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3 75.3 77.0 76.6 76.1 78.0	76.7 78.8 78.9 79.1 74.6 65.3 70.5 73.3 74.6 76.3 76.8 76.2 77.0
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	75.2 78.6 79.6 78.8 65.6 67.9 72.4 74.9 74.6 74.5 76.8 76.7 76.2	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2 74.9 75.2 76.4 76.4 76.2	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7 74.8 75.9 76.7 76.3 76.0	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9 74.5 76.0 76.8 76.2 77.0	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6 74.8 76.2 76.1 77.0	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8 75.0 76.6 76.7 76.2 77.1	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5 74.4 77.0 77.3 76.3 76.9	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3 75.1 76.6 77.1 75.9 76.9	77.1 77.7 78.9 79.0 66.1 71.5 73.8 74.1 75.1 76.7 76.9 76.0 77.0	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9 75.3 76.7 76.8 76.1 77.9	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3 75.3 77.3 76.6 76.0 78.0	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8 75.2 77.2 76.4 76.1 77.9	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9 74.7 75.2 76.7 76.5 76.1	76.3 78.9 79.0 79.5 76.6 63.7 70.3 72.8 74.8 76.3 76.8 76.2 77.0	77.0 78.3 78.8 79.0 74.0 65.3 71.4 73.6 74.3 74.9 76.7 77.1 76.1 76.9	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3 75.3 77.0 76.6 76.1 78.0	76.7 78.8 78.9 79.1 74.6 65.2 70.5 73.2 74.6 76.3 76.8 76.2 77.0
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	75.2 78.6 79.6 78.8 65.6 67.9 72.4 74.9 74.6 74.5 76.8 76.7 76.2	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2 74.9 75.2 76.4 76.4 76.2 78.5 77.9	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7 74.8 75.9 76.7 76.3 76.0	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9 74.5 76.0 76.8 76.2 77.0	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6 74.8 76.2 76.9 76.1 77.0	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8 75.0 76.6 76.7 76.2 77.1	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5 74.4 77.0 77.3 76.3 76.9	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3 75.1 76.6 77.1 75.9 76.9	77.1 77.7 78.9 79.0 66.1 71.5 73.8 74.1 75.1 76.7 76.9 76.0 77.0	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9 75.3 76.7 76.8 76.1 77.9	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3 75.3 77.3 76.6 76.0 78.0	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8 75.2 77.2 76.4 76.1 77.9	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9 74.7 75.2 76.7 76.5 76.1	76.3 78.9 79.0 79.5 76.6 63.7 70.3 72.8 74.8 76.3 76.8 76.2 77.0	77.0 78.3 78.8 79.0 74.0 65.3 71.4 73.6 74.3 74.9 76.7 77.1 76.1 76.9	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3 75.3 77.0 76.6 76.1 78.0	76.7 78.8 78.9 74.6 65.2 70.5 74.6 76.2 76.8 77.0
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	75.2 78.6 79.6 78.8 65.6 67.9 72.4 74.9 74.6 74.5 76.8 76.7 76.2 77.8	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2 74.9 75.2 76.4 76.4 76.2 78.5 77.9	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7 74.8 75.9 76.7 76.3 76.0	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9 74.5 76.0 76.8 76.2 77.0	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6 74.8 76.2 76.9 76.1 77.0 78.4 77.3 65.3	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8 75.0 76.6 76.7 76.2 77.1	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5 74.4 77.0 77.3 76.3 76.9	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3 75.1 76.6 77.1 75.9 76.9	77.1 77.7 78.9 79.0 66.1 71.5 73.8 74.1 75.1 76.7 76.9 76.0 77.0	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9 75.3 76.7 76.8 76.1 77.9	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3 75.3 77.3 76.6 76.0 78.0	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8 75.2 77.2 76.4 76.1 77.9	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9 74.7 75.2 76.7 76.5 76.1 78.2 78.0 76.0	76.3 78.9 79.0 79.5 76.6 63.7 70.3 72.8 74.8 76.3 76.8 76.2 77.0	77.0 78.3 78.8 79.0 65.3 71.4 73.6 74.3 74.9 76.7 77.1 76.1 76.9	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3 75.3 77.0 76.6 76.1 78.0 78.9 75.8	76.7 78.8 78.9 74.6 65 73 74.6 76 76 77 73 73 73
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2020	75.2 78.6 79.6 78.8 65.6 67.9 72.4 74.9 74.6 74.5 76.8 76.7 76.2	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2 74.9 75.2 76.4 76.4 76.2 78.5 77.9	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7 74.8 75.9 76.7 76.3 76.0	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9 74.5 76.0 76.8 76.2 77.0	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6 74.8 76.2 76.9 76.1 77.0	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8 75.0 76.6 76.7 76.2 77.1	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5 74.4 77.0 77.3 76.3 76.9	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3 75.1 76.6 77.1 75.9 76.9	77.1 77.7 78.9 79.0 66.1 71.5 73.8 74.1 75.1 76.7 76.9 76.0 77.0	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9 75.3 76.7 76.8 76.1 77.9	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3 75.3 77.3 76.6 76.0 78.0	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8 75.2 77.2 76.4 76.1 77.9	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9 74.7 75.2 76.7 76.5 76.1	76.3 78.9 79.0 79.5 76.6 63.7 70.3 72.8 74.8 76.3 76.8 76.2 77.0	77.0 78.3 78.8 79.0 74.0 65.3 71.4 73.6 74.3 74.9 76.7 77.1 76.1 76.9	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3 75.3 77.0 76.6 76.1 78.0	76.7 78.8 78.9 74.6 65.2 70.6 73.3 74.6 76.2 76.2 77.2 73.0 77.7 77.7
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2020 2021 2022	75.2 78.6 79.6 78.8 65.6 67.9 72.4 74.9 74.6 74.5 76.2 77.8 78.3 77.0 77.2	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2 74.9 75.2 76.4 76.4 76.2 78.5 77.9 77.2 74.1	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7 74.8 75.9 76.7 76.3 76.0	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9 74.5 76.0 76.8 76.2 77.0 79.0 77.2 62.6 76.7	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6 74.8 76.2 76.1 77.0 78.4 77.3 65.3 77.5 78.1	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8 75.0 76.6 76.7 76.2 77.1 78.9 77.6 70.4 77.6	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5 74.4 77.0 77.3 76.9 79.0 77.1 73.1 78.3 77.7	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3 75.1 76.6 77.1 75.9 76.9	77.1 77.7 78.9 79.0 66.1 71.5 73.8 74.1 75.1 76.7 76.9 76.0 77.0 79.3 77.0 74.4 77.0	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9 75.3 76.7 76.8 76.1 77.9 78.9 76.4 75.3 78.1	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3 75.3 77.3 76.6 76.0 78.0 78.7 77.1 75.8 78.6 77.2	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8 75.2 77.2 76.4 76.1 77.9 79.0 77.2 76.4 78.4 78.4	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9 74.7 75.2 76.5 76.1 78.2 78.0 75.9 78.2	76.3 78.9 79.0 79.5 76.6 63.7 70.3 72.8 74.8 76.3 76.3 76.2 77.0 78.8 77.4 66.1 77.3 78.1	77.0 78.3 78.8 79.0 65.3 71.4 73.6 74.3 74.9 76.7 77.1 76.9 79.2 77.2 73.9 77.7	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3 75.3 77.0 76.6 76.1 78.0 78.9 75.9 75.8 78.4 77.0	76.7 78.8 78.9 79.1 74.6 65.2 70.5 73.2 74.6 76.8 76.2 77.0 77.3 77.7
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022	75.2 78.6 79.6 78.8 65.6 67.9 72.4 74.9 74.6 74.5 76.2 77.8 78.3 77.0 77.2 77.7	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2 74.9 75.2 76.4 76.2 78.5 77.9 77.2 74.1 78.2	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7 74.8 75.9 76.7 76.3 76.0 78.5 77.7 73.7 76.5 78.6	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9 74.5 76.0 76.8 76.2 77.0 79.0 77.2 62.6 76.7 78.5	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6 74.8 76.2 76.1 77.0 78.4 77.3 65.3 77.5 78.1	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8 75.0 76.6 76.7 76.2 77.1 78.9 77.6 70.4 77.7	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5 74.4 77.0 77.3 76.3 76.9 79.0 77.1 73.1 78.3 77.7	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3 75.1 76.6 77.1 75.9 76.9 79.2 77.6 74.3 77.7	77.1 77.7 78.9 79.0 66.1 71.5 73.8 74.1 75.1 76.7 76.9 76.0 77.0 79.3 77.0 74.4 77.7	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9 75.3 76.7 76.8 76.1 77.9 76.4 75.3 78.1 77.9	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3 75.3 77.3 76.6 76.0 78.0 78.7 77.1 75.8 78.6 77.2 76.5	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8 75.2 77.2 76.4 76.1 77.9 79.0 77.2 76.4 78.4 75.9	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9 74.7 75.2 76.7 76.5 76.1 78.2 78.0 76.0 75.9 78.2	76.3 78.9 79.0 79.5 76.6 63.7 70.3 72.8 74.8 76.3 76.8 76.2 77.0 78.8 77.4 66.1 77.3 78.1	77.0 78.3 78.8 79.0 74.0 65.3 71.4 73.6 74.3 74.9 76.7 77.1 76.1 76.9 79.2 77.2 73.9 77.7 77.7	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3 75.3 77.0 76.6 76.1 78.0 78.9 76.9 75.8 78.4 77.0 76.4	76.7 78.8 78.9 79.1 74.6 65.3 70.5 73.3 74.6 74.9 76.3 76.8 77.4 73.0 77.7 76.8
2003 2004 2005 2006	75.2 78.6 79.6 78.8 65.6 67.9 72.4 74.9 74.6 74.5 76.2 77.8 78.3 77.0 77.2	75.8 79.2 79.2 78.8 78.2 65.6 68.0 72.6 75.2 74.9 75.2 76.4 76.4 76.2 78.5 77.9 77.2 74.1	75.8 78.7 79.1 79.3 77.8 64.5 69.0 73.1 74.7 74.8 75.9 76.7 76.3 76.0	76.1 78.9 79.2 79.6 77.1 64.1 69.6 72.8 74.9 74.5 76.0 76.8 76.2 77.0 79.0 77.2 62.6 76.7	76.6 78.9 78.9 79.4 76.6 63.5 70.6 72.8 74.6 74.8 76.2 76.1 77.0 78.4 77.3 65.3 77.5 78.1	76.1 78.9 78.9 79.5 76.1 63.4 70.7 72.9 74.8 75.0 76.6 76.7 76.2 77.1 78.9 77.6 70.4 77.6	76.8 78.5 78.5 79.3 75.4 64.5 71.2 73.3 74.5 74.4 77.0 77.3 76.9 79.0 77.1 73.1 78.3 77.7	77.1 78.7 79.0 78.9 74.5 65.3 71.4 73.7 74.3 75.1 76.6 77.1 75.9 76.9	77.1 77.7 78.9 79.0 66.1 71.5 73.8 74.1 75.1 76.7 76.9 76.0 77.0 79.3 77.0 74.4 77.0	77.8 78.6 78.3 78.7 71.6 66.3 71.7 74.2 73.9 75.3 76.7 76.8 76.1 77.9 78.9 76.4 75.3 78.1	77.7 79.2 78.3 79.0 69.9 67.1 71.9 74.0 74.3 75.3 77.3 76.6 76.0 78.0 78.7 77.1 75.8 78.6 77.2	78.2 79.1 79.2 79.0 67.7 67.1 72.3 74.4 74.8 75.2 77.2 76.4 76.1 77.9 79.0 77.2 76.4 78.4 78.4	75.6 78.8 79.3 79.0 78.2 65.2 68.3 72.7 74.9 74.7 75.2 76.5 76.1 78.2 78.0 75.9 78.2	76.3 78.9 79.0 79.5 76.6 63.7 70.3 72.8 74.8 76.3 76.3 76.2 77.0 78.8 77.4 66.1 77.3 78.1	77.0 78.3 78.8 79.0 65.3 71.4 73.6 74.3 74.9 76.7 77.1 76.9 79.2 77.2 73.9 77.7	77.9 79.0 78.6 78.9 69.7 66.8 72.0 74.2 74.3 75.3 77.0 76.6 76.1 78.0 78.9 75.9 75.8 78.4 77.0	74.3 76.7 78.8 78.9 79.1 74.6 65.3 70.5 73.3 74.6 76.3 77.0 78.8 77.4 73.0 77.7 76.8 75.5

The composition of manufacturing is specified in a note for the summary table.
 Quarterly percentage changes are at annual rates. Annual percentage changes are calculated from annual averages.

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

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent				-			•										
change) ²																	
2003	.8	1	4	7	2	.0	.3	4	.5	.0	.6	.0	1.6	-4.5	.8	2.4	.3
2004	.0	.6	5	.4	.7	8	.8	.0	.1	.8	.2	.7	1.7	2.0	2.0	5.2	1.6
2005	.2	.6	2	.1	.0	.4	4	.2	-2.2	1.1	1.1	.5	4.8	1.4	-2.9	2.6	2.6
2006	.1	.0	.2	.3	1	.3	1	.3	3	2 5	1 .4	1.0	3.4	1.8	.8	.1	1.5
2007	4	.9	.0	.3	.1	.2	1	.1	.1	3	.4	1	3.3	4.0	.3	6	1.8
2008 2009	2 -2.5	5 7	4 -1.7	7 9	7 -1.1	2 4	3 1.1	-1.6 1.1	-4.5 .8	1.2	-1.1 .4	-2.7 .4	-2.5 -20.6	-6.7 -11.8	-12.1 6.2	-15.0 6.2	-4.2 -11.4
2010	1.0	.2	.6	.3	1.4	.2	.3	.3	.3	3	.0	.9	7.1	7.1	5.0	1.1	4.9
2011	3	4	1.1	3	.1	.3	.5	.6	1	.7	.0	.5	1.6	1.7	4.7	4.3	2.8
2012	.6	.3	6	.7	.2	.0	.2	4	1	.3	.4	.2	3.6	2.2	2	1.6	2.9
2013	.0	.5	.4	1	.0	.2	4	.6	.5	1	.2	.2	2.9	1.5	1.3	2.5	1.7
2014	4	.7	1.0	.1	.3	.3	.2	2	.3	.0	.6	.0	2.6	5.3	2.1	2.2	2.8
2015	8	7	3	6	5	3	.7	2	3	5	7	5	-4.5	-5.7	.3	-5.5	-1.6
2016 2017	.5 3	5 4	8 .7	.3 1.0	3 .1	.5 .2	.1 2	2 4	2 .1	.0 1.2	5 .2	.7 .2	-2.8 .0	-1.5 5.8	.6 -1.2	-1.1 5.4	-2.4 1.0
										1.2							
2018 2019	.0 7	.3 6	.5	1.1 6	9 .1	.8	.1 5	.6 .7	3	1 9	.1	.0 3	2.0 -4.1	4.7 -2.7	3.1	.9 -2.4	3.0 9
2020	7	0 .4	-4.0	-13.4	1.7	6.7	3.8	1.0	.0	9	.3	1.3	-6.9	-42.2	44.6	7.1	-7.3
2021	.5	-3.4	2.9	.1	.9	.4	.5	2	-1.2	1.3	.6	3	.8	6.7	2.1	3.0	4.3
2022	4	.6	.6	.1	1	4	.2	1	.2	.0	3	-1.2	.6	1.7	5	-2.1	1.5
2023	.8	.1	.4	.2	3	8	.8	1	.2	6	.4	3	.4	.0	.6	-1.3	3
2024	-1.4	1.1	.2	3	.6	.0	9	.4	6	4	2	1.0	-2.6	2.5	-2.6	-1.7	8
2025	4	1.0	1	.1	2	.5	.1	2	.1				3.8	1.7	.9		
IP (2017=100)																	
2023	99.7	99.8	100.2	100.4	100.1	99.3	100.0	100.0	100.2	99.6	100.0	99.7	99.9	99.9	100.1	99.7	99.9
2024 2025	98.3 98.9	99.4 99.9	99.5 99.8	99.3 99.9	99.9 99.7	99.9 100.2	99.0 100.3	99.4 100.0	98.7 100.1	98.4	98.2	99.2	99.1 99.5	99.7 99.9	99.0 100.2	98.6	99.1
Capacity (percent of 2017 output) 2023	128.6	128.7	128.9	129.0	129.1	129.2	129.3	129.4	129.5	129.5	129.6	129.7	128.7	129.1	129.4	129.6	129.2
2024 2025	129.7 130.9	129.8 131.0	129.9 131.1	129.9 131.2	130.0 131.4	130.1 131.5	130.2 131.6	130.3 131.7	130.4 131.8	130.5	130.6	130.7	129.8 131.0	130.0 131.4	130.3 131.7	130.6	130.2
2023	130.9	131.0	131.1	131.2	131.4	131.3	131.0	131.7	131.6				131.0	131.4	131.7		
Utilization (percent)																	
2003	77.4																
2004		77.4	77.1	76.6	76.5	76.5	76.8	76.6	77.0	77.1	77.5	77.6	77.3	76.6	76.8	77.4	77.0
	77.6	77.4 78.1	77.8	78.2	78.8	76.5 78.2	78.8	78.9	79.0	79.7	79.9	77.6 80.5	77.3 77.8	78.4	76.8 78.9	77.4 80.0	78.8
2005	77.6 80.7	78.1 81.2	77.8 81.0	78.2 81.0	78.8 81.0	78.2 81.3	78.8 80.8	78.9 80.9	79.0 79.1	79.7 79.9	79.9 80.7	80.5 81.0	77.8 81.0	78.4 81.1	78.9 80.3	80.0 80.5	78.8 80.7
2006	77.6 80.7 80.9	78.1 81.2 80.8	77.8 81.0 80.9	78.2 81.0 81.0	78.8 81.0 80.8	78.2 81.3 80.9	78.8 80.8 80.7	78.9 80.9 80.8	79.0 79.1 80.5	79.7 79.9 80.2	79.9 80.7 80.0	80.5 81.0 80.7	77.8 81.0 80.9	78.4 81.1 80.9	78.9 80.3 80.6	80.0 80.5 80.3	78.8 80.7 80.7
	77.6 80.7	78.1 81.2	77.8 81.0	78.2 81.0	78.8 81.0	78.2 81.3	78.8 80.8	78.9 80.9	79.0 79.1	79.7 79.9	79.9 80.7	80.5 81.0	77.8 81.0	78.4 81.1	78.9 80.3	80.0 80.5	78.8 80.7
2006 2007 2008	77.6 80.7 80.9 80.2 81.2	78.1 81.2 80.8 80.9	77.8 81.0 80.9 80.8	78.2 81.0 81.0 81.1 79.8	78.8 81.0 80.8 81.2 79.3	78.2 81.3 80.9 81.3 79.1	78.8 80.8 80.7 81.1 78.8	78.9 80.9 80.8 81.2 77.4	79.0 79.1 80.5 81.3	79.7 79.9 80.2 81.0 74.6	79.9 80.7 80.0 81.3	80.5 81.0 80.7 81.3 71.6	77.8 81.0 80.9 80.6	78.4 81.1 80.9 81.2 79.4	78.9 80.3 80.6 81.2 76.7	80.0 80.5 80.3 81.2	78.8 80.7 80.7 81.1 77.5
2006 2007 2008 2009	77.6 80.7 80.9 80.2 81.2 69.7	78.1 81.2 80.8 80.9 80.7 69.1	77.8 81.0 80.9 80.8 80.4 67.9	78.2 81.0 81.0 81.1 79.8 67.2	78.8 81.0 80.8 81.2 79.3 66.5	78.2 81.3 80.9 81.3 79.1 66.2	78.8 80.8 80.7 81.1 78.8 67.0	78.9 80.9 80.8 81.2 77.4 67.8	79.0 79.1 80.5 81.3 73.8 68.5	79.7 79.9 80.2 81.0 74.6 68.8	79.9 80.7 80.0 81.3 73.7 69.2	80.5 81.0 80.7 81.3 71.6 69.6	77.8 81.0 80.9 80.6 80.8 68.9	78.4 81.1 80.9 81.2 79.4 66.6	78.9 80.3 80.6 81.2 76.7 67.8	80.0 80.5 80.3 81.2 73.3 69.2	78.8 80.7 80.7 81.1 77.5 68.1
2006 2007 2008 2009 2010	77.6 80.7 80.9 80.2 81.2 69.7 70.5	78.1 81.2 80.8 80.9 80.7 69.1 70.8	77.8 81.0 80.9 80.8 80.4 67.9 71.4	78.2 81.0 81.0 81.1 79.8 67.2 71.8	78.8 81.0 80.8 81.2 79.3 66.5 73.0	78.2 81.3 80.9 81.3 79.1 66.2 73.3	78.8 80.8 80.7 81.1 78.8 67.0 73.7	78.9 80.9 80.8 81.2 77.4 67.8 74.1	79.0 79.1 80.5 81.3 73.8 68.5 74.4	79.7 79.9 80.2 81.0 74.6 68.8 74.3	79.9 80.7 80.0 81.3 73.7 69.2 74.4	80.5 81.0 80.7 81.3 71.6 69.6 75.2	77.8 81.0 80.9 80.6 80.8 68.9 70.9	78.4 81.1 80.9 81.2 79.4 66.6 72.7	78.9 80.3 80.6 81.2 76.7 67.8 74.0	80.0 80.5 80.3 81.2 73.3 69.2 74.6	78.8 80.7 80.7 81.1 77.5 68.1 73.1
2006 2007 2008 2009 2010 2011	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.4	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0
2006 2007 2008 2009 2010 2011 2012	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0 77.4	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8 77.5	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6 76.9	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4 77.4	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5 77.4	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7 77.2	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1 77.3	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5 76.9	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.4	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8 77.0	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1 77.0	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1 77.3	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5 77.3	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3 76.9	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0 77.1
2006 2007 2008 2009 2010 2011 2012 2013	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0 77.4	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8 77.5	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6 76.9	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4 77.4	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5 77.4	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7 77.2	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1 77.3	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5 76.9	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.4 76.7	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9 76.8	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8 77.0	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1 77.0	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1 77.3	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5 77.3	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3 76.9	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9 76.9	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0 77.1
2006 2007 2008 2009 2010 2011 2012 2013 2014	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0 77.4 76.9 77.5	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8 77.5	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6 76.9	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4 77.4	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5 77.4 77.3 78.9	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7 77.2 77.3 79.1	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1 77.3 77.0 79.2	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5 76.9	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.7 77.7	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9 76.8	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8 77.0 77.7	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1 77.0	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1 77.3	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5 77.3 78.9	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3 76.9	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9 76.9 77.7 79.3	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0 77.1 77.4 78.9
2006 2007 2008 2009 2010 2011 2012 2013	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0 77.4	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8 77.5	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6 76.9	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4 77.4	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5 77.4	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7 77.2	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1 77.3	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5 76.9	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.4 76.7	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9 76.8	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8 77.0	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1 77.0	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1 77.3	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5 77.3	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3 76.9	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9 76.9	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0 77.1
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0 77.4 76.9 77.5 78.7	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8 77.5 77.2 78.0 78.2	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6 76.9 77.5 78.7	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4 77.4 77.3 78.7 77.5	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5 77.4 77.3 78.9 77.1	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7 77.2 77.3 79.1 76.9	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1 77.3 77.0 79.2	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5 76.9 77.4 79.0 77.3	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.4 76.7 77.7 79.1	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9 76.8	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8 77.0 77.7 79.5 76.2	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1 77.0 77.8 79.4 75.9	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1 77.3 77.2 78.1 78.3	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5 77.3 78.9 77.1	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3 76.9 77.4 79.1	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9 76.9 77.7 79.3 76.3	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0 77.1 77.4 78.9
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0 77.4 76.9 77.5 78.7	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8 77.5 77.2 78.0 78.2 75.9	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6 76.9 77.5 78.7 77.9	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4 77.4 77.3 78.7 77.5	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5 77.4 77.3 78.9 77.1 75.4	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7 77.2 77.3 79.1 76.9 75.7	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1 77.3 77.0 79.2 77.4 75.8	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5 76.9 77.4 79.0 77.3 75.6	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.4 76.7 77.7 79.1 77.1 75.5	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9 76.8 77.6 79.1 76.8	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8 77.0 77.7 79.5 76.2 75.1	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1 77.0 77.8 79.4 75.9	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1 77.3 77.2 78.1 78.3 75.8	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5 77.3 78.9 77.1 75.6	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3 76.9 77.4 79.1 77.3 75.6	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9 76.9 77.7 79.3 76.3 75.4	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0 77.1 77.4 78.9 77.2 75.6
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0 77.4 76.9 77.5 78.7 76.3 75.4	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8 77.5 77.2 78.0 78.2 75.1	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6 76.9 77.5 78.7 77.9 75.3 75.6	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4 77.4 77.3 78.7 77.5 75.6 76.3	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5 77.4 77.3 78.9 77.1 75.4 76.5	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7 77.2 77.3 79.1 76.7	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1 77.3 77.0 79.2 77.4 75.8 76.6	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5 76.9 77.4 79.0 77.3 75.6 76.3	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.7 77.7 79.1 77.7 75.5 76.4	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9 76.8 77.6 79.1 76.8	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8 77.0 77.7 79.5 76.2 75.1 77.7	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1 77.8 79.4 75.6 77.9	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1 77.3 77.2 78.1 78.3 75.8 75.3	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5 77.3 78.9 77.1 75.6 76.5	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3 76.9 77.4 79.1 77.3 75.6 76.4	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9 76.9 77.7 79.3 76.3 75.4 77.7	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0 77.1 77.4 78.9 77.2 75.6 76.5
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0 77.4 76.9 77.5 78.7 76.3 75.4 77.9	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8 77.5 77.2 78.0 78.2 75.9 75.1	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6 76.9 77.5 78.7 77.9 75.3 75.6 78.6 78.7	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4 77.4 77.3 78.7 77.5 75.6 76.3 79.5 78.1 63.9	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5 77.4 77.3 78.9 77.1 75.4 76.5	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7 77.2 77.3 79.1 76.9 75.7 76.7	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1 77.3 77.0 79.2 77.4 75.8 76.6	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5 76.9 77.4 79.0 77.3 75.6 76.3	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.4 76.7 77.7 79.1 77.1 75.5 76.4 80.0 77.8 73.1	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9 76.8 77.6 79.1 76.8 75.4 77.4	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8 77.0 77.7 79.5 76.2 75.1 77.7	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1 77.0 77.8 79.4 75.9 75.6 77.9	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1 77.3 77.2 78.1 78.3 75.8 75.3 78.9 75.8	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5 77.3 78.9 77.1 75.6 76.5	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3 76.9 77.4 79.1 77.3 75.6 76.4	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9 76.9 77.7 79.3 76.3 75.4 77.7	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0 77.1 77.4 78.9 77.2 75.6 76.5
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0 77.4 76.9 77.5 78.7 76.3 75.4 77.9 79.2 76.6 75.9	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8 77.5 77.2 78.0 78.2 75.9 75.1 78.2 76.9	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6 76.9 77.5 78.7 77.9 75.3 75.6 78.6 78.7 73.8 75.8	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4 77.4 77.3 78.7 77.5 75.6 76.3	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5 77.4 77.3 78.9 77.1 75.4 76.5 78.8 78.1 65.1	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7 77.2 77.3 79.1 76.9 75.7 76.7	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1 77.3 77.0 79.2 77.4 75.8 76.6	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5 76.9 77.4 79.0 77.3 75.6 76.3 80.0 78.1 73.0	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.4 76.7 77.7 79.1 77.1 75.5 76.4 80.0 77.8 73.1 76.8	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9 76.8 77.6 79.1 76.8 75.4 77.4	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8 77.0 77.7 79.5 76.2 75.1 77.7 79.9 77.4 74.2 78.5	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1 77.0 77.8 79.4 75.9 75.6 77.9	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1 77.3 77.2 78.1 78.3 75.8 75.3 78.9 75.8	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5 77.3 78.9 77.1 75.6 76.5	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3 76.9 77.4 79.1 77.3 75.6 76.4 79.9 77.8 72.8	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9 76.9 77.7 79.3 76.3 75.4 77.7	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0 77.1 77.4 78.9 77.2 75.6 76.5
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0 77.4 76.9 77.5 78.7 76.3 75.4 77.9	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8 77.5 77.2 78.0 78.2 75.9 75.1	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6 76.9 77.5 78.7 77.9 75.3 75.6 78.6 78.7	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4 77.4 77.3 78.7 77.5 75.6 76.3 79.5 78.1 63.9	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5 77.4 77.3 78.9 77.1 75.4 76.5	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7 77.2 77.3 79.1 76.9 75.7 76.7	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1 77.3 77.0 79.2 77.4 75.8 76.6	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5 76.9 77.4 79.0 77.3 75.6 76.3	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.4 76.7 77.7 79.1 77.1 75.5 76.4 80.0 77.8 73.1	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9 76.8 77.6 79.1 76.8 75.4 77.4	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8 77.0 77.7 79.5 76.2 75.1 77.7	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1 77.0 77.8 79.4 75.9 75.6 77.9	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1 77.3 77.2 78.1 78.3 75.8 75.3 78.9 75.8	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5 77.3 78.9 77.1 75.6 76.5	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3 76.9 77.4 79.1 77.3 75.6 76.4	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9 76.9 77.7 79.3 76.3 75.4 77.7	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0 77.1 77.4 78.9 77.2 75.6 76.5
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0 77.4 76.9 77.5 78.7 76.3 75.4 77.9 79.2 76.6 75.9 78.0	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8 77.5 77.2 78.0 78.2 75.9 75.1 78.2 78.7 76.9 73.5 78.4	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6 76.9 77.5 78.7 77.9 75.3 75.6 78.6 78.7 73.8 75.8 75.8	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4 77.4 77.3 78.7 77.5 75.6 76.3 79.5 78.1 63.9 76.0 78.9	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5 77.4 77.3 78.9 77.1 75.4 76.5 78.8 78.1 65.1 76.8 78.8	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7 77.2 77.3 79.1 76.9 75.7 76.7 79.4 78.1 69.5 77.3 78.4	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1 77.3 77.0 79.2 77.4 75.8 76.6 79.5 77.6 72.2 77.8 78.5	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5 76.9 77.4 79.0 77.3 75.6 76.3 80.0 78.1 73.0 77.7 78.4	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.7 77.7 79.1 77.1 75.5 76.4 80.0 77.8 73.1 76.8 78.4	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9 76.8 77.6 79.1 76.8 75.4 77.4 79.9 77.0 73.8 77.9 78.3	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8 77.0 77.7 79.5 76.2 75.1 77.7 79.9 77.4 74.2 78.5 78.0	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1 77.0 77.8 79.4 75.9 75.6 77.9 79.9 77.1 75.3 78.3 77.0	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1 77.3 77.2 78.1 78.3 75.8 75.3 78.9 75.8 75.0 78.4	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5 77.3 78.9 77.1 75.6 76.5 79.3 78.1 66.2 76.7	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3 76.9 77.4 79.1 77.3 75.6 76.4 79.9 77.8 72.8 77.4 78.4	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9 77.7 79.3 76.3 75.4 77.7 79.9 77.2 74.5 78.2 77.8	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0 77.1 77.4 78.9 77.2 75.6 76.5 79.3 78.0 72.3 76.9 78.3
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022	77.6 80.7 80.9 80.2 81.2 69.7 70.5 75.0 77.4 76.9 77.5 78.7 76.3 75.4 77.9 79.2 76.6 75.9	78.1 81.2 80.8 80.9 80.7 69.1 70.8 74.8 77.5 77.2 78.0 78.2 75.1 78.2 78.7 76.9 73.5 78.4	77.8 81.0 80.9 80.8 80.4 67.9 71.4 75.6 76.9 77.5 78.7 77.9 75.3 75.6	78.2 81.0 81.0 81.1 79.8 67.2 71.8 75.4 77.4 77.5 75.6 76.3 79.5 78.1 63.9 76.0 78.9	78.8 81.0 80.8 81.2 79.3 66.5 73.0 75.5 77.4 77.3 78.9 77.1 75.4 76.5 78.8 78.1 65.1 76.8	78.2 81.3 80.9 81.3 79.1 66.2 73.3 75.7 77.2 77.3 79.1 76.9 75.7 76.7 79.4 78.1 69.5 77.3 78.4	78.8 80.8 80.7 81.1 78.8 67.0 73.7 76.1 77.3 77.0 79.2 77.4 75.8 76.6	78.9 80.9 80.8 81.2 77.4 67.8 74.1 76.5 76.9 77.4 79.0 77.3 75.6 76.3 80.0 78.1 73.0 77.7	79.0 79.1 80.5 81.3 73.8 68.5 74.4 76.7 77.7 79.1 77.1 75.5 76.4 80.0 77.8 73.1 76.8	79.7 79.9 80.2 81.0 74.6 68.8 74.3 76.9 76.8 77.6 79.1 76.8 75.4 77.4 79.9 77.0 73.8 77.9 78.3	79.9 80.7 80.0 81.3 73.7 69.2 74.4 76.8 77.0 77.7 79.5 76.2 75.1 77.7 79.9 77.4 74.2 78.5 78.0	80.5 81.0 80.7 81.3 71.6 69.6 75.2 77.1 77.0 77.8 79.4 75.9 75.6 77.9	77.8 81.0 80.9 80.6 80.8 68.9 70.9 75.1 77.3 77.2 78.1 78.3 75.3 78.9 75.3	78.4 81.1 80.9 81.2 79.4 66.6 72.7 75.5 77.3 78.9 77.1 75.6 76.5 79.3 78.1 66.2 76.7	78.9 80.3 80.6 81.2 76.7 67.8 74.0 76.3 76.9 77.4 79.1 77.3 75.6 76.4 79.9 77.8 72.8 77.4 78.4	80.0 80.5 80.3 81.2 73.3 69.2 74.6 76.9 77.7 79.3 76.3 75.4 77.7 79.9 77.2 74.5 78.2	78.8 80.7 80.7 81.1 77.5 68.1 73.1 76.0 77.1 77.4 78.9 77.2 75.6 76.5 79.3 78.0 72.3 76.9 78.3

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

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

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

Seasonally adjusted Year Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Q1 Q2 Q3 Q4 Annual IP (percent change)3 2003 -.2 -4.0 2.5 .0 1.0 .1 -.1 .9 1.9 2004 -.3 .5 .7 1.2 5.2 4.8 .7 -.1 .3 .7 -.7 .9 .4 -.1 .9 3.0 3.8 .8 -.5 .4 14 2005 1 -1.4 1 -2.1 4.8 -.6 1.5 3.1 2006 .8 .3 -.4 -.4 .6 .0 -.6 .0 1.5 3.3 -.2 .0 1.6 .4 -.1 .2 .6 2007 .2 .0 .0 .3 3.6 -1.2 -.4 .6 -.4 -.4 .0 4.6 .4 1.8 -.9 2008 - 3 - 7 - 7 - 9 -13 -3 5 -2.3 -3.2 -13 5 -20.9 -59 - 6 -1.1 - 4 -42 -96 2009 3.3 -.2 -2.0-.8 -1.2-.4 1.5 1.1 1.0 .0 1.0 -.1 -24.8 11.9 8.1 7.0 14.0 3.6 2010 .9 -.2 .7 5.5 9.3 5.1 1.1 1.3 -.1 .5 .1 .0 .0 .0 .4 2011 0. .0 .6 .3 -.2 .7 2.3 4.3 3.9 2.5 -.6 .4 .6 -.2 4.9 2.3 2012 .8 .3 -.6 .5 -.4 .2 -.2 -.1 -.3 -.3 .6 .7 .0 -1.6 .5 2013 -.3 .0 -.2 2.4 1.3 .5 2014 -1.1 9 .8 .0 .2 .3 .5 .0 .7 -.2 -1.4 4.3 1.1 .8 -.6 -.1 .0 2015 -2.9 -.8 .4 .0 .0 -.4 .8 -.3 -.3 -.2 -.2 -.3 -3.6 -.7 -.6 -.7 2016 .2 -1.0 .4 .2 -.4 .0 -.5 .0 .0 -.7 -1.2-.7 -.1 -.1 -.1 .1 -.1 -.6 .0 2017 1.1 -.2 1.0 .0 3.0 -2.0-.1 -.4 -.2 .1 -.4 -.3 -.4 3.6 .2 2018 -.1 -.9 .6 .3 2.2 1.2 -1.3 1.1 2019 -1.0 .0 .8 -5.1 -3.6 -1.4 -2.5 -2.3 -.6 -.3 -.6 -.8 .6 -.8 -.8 .1 .2 .5 2020 8.0 3.7 .0 .7 -5.6 -44.2 8.6 -.3 -4.8 -15.64.5 1.6 1.0 56.4 -6.8 2021 1.0 4.2 3.1 .1 1.0 .0 1.0 -.5 1 2 1.4 .5 -.2 -.7 5.9 2.3 2.6 4.8 2022 -.9 .5 .5 -.1 -.5 -.6 .0 -.1 .0 .3 -.8 -1.7 -1.6 -.6 -2.5 -3.3 .1 2023 1.8 .0 -.7 .8 -.2 -.7 .3 .0 .1 -.5 .4 -.1 -.9 -1.1 -1.1 .4 -.1 2024 -.9 1.51.3 -.6 .6 -.2 .4 -.5 -.7 .2 .3 -2.0-2.8-2.8 -1.2 2025 -.5 1.3 -.1 3.3 2.3 1.1 **IP** (2017=100) 96.0 95.4 95.9 95.2 95.6 95.5 95.1 95.4 95.4 95.8 95.8 95.6 95.3 95.6 2023 96.0 96.1 95.6 939 95.2 953 94 7 95.2 95.0 94 2 94 6 94 1 93.4 93.6 93.9 94 8 95.0 94 3 93.7 94.4 2024 93.5 95.1 95.0 94.7 95.2 95.3 95.2 94.4 2025 94.8 95.1 95.0 95.2 Capacity (percent of 2017 output) 2023 124.6 124.6 124.6 124.6 124.6 124.6 124.6 124.6 124.7 124.7 124.7 124.7 124.6 124.6 124.6 124.7 124.6 2024 124.8 124.8 124.8 124.9 124.9 125.0 125.0 125.1 125.1 125.2 125.3 125.3 124.8 124.9 125.1 125.3 125.0 2025 125.4 125.4 125.5 125.6 125.6 125.7 125.8 125.9 125.9 125.4 125.6 Utilization (percent) 2003 74.8 75.5 75.3 74.6 74.6 74.5 75.1 75.1 75.7 75.6 75.3 74.7 75.1 2004 75.5 77.6 75.9 77.1 76.1 76.1 76.4 77.0 76.5 77.3 77.6 78.3 78.3 78.8 76.6 77.5 78.5 79.2 2005 79.7 79.2 79.4 79.4 79.4 78.9 79.1 77.9 78.9 79.4 79.3 79.4 79.4 78.7 79.2 79.2 79.0 2006 79.8 79.4 79 2 79.3 78.9 79.0 78.5 78.9 78.8 78.3 78.2 79 2 79 5 79.1 78.8 78.6 2007 78.8 78.9 79.3 79.5 79.5 79.8 79.7 79.3 79.3 79.0 79.1 79.0 79.0 79.6 79.5 79.0 79.3 78.7 77.5 74.2 2008 78.0 76.6 76.1 75.5 74.9 74.0 71.4 71.1 69.6 67.4 78.1 76.1 734 69.4 2009 65.3 64.0 63.0 62.9 64.0 64.9 66.7 64.9 63.2 64.8 66.4 64.8 65.3 63.6 65.7 65.8 66.6 71.0 67.4 67.4 68.4 69.0 70.0 70.1 70.6 70.8 71.1 71 3 71.7 67.7 69.7 70.8 714 69 9 2011 71.8 72.1 72.7 72.4 72.5 72.6 73.1 73.5 73.7 74.1 74.0 74.4 72.2 72.5 73.4 74.2 73.1 2012 75.0 74.8 74.5 74.2 75.0 75.0 74.9 74.7 75.0 75.2 74.7 74.7 74.6 74.0 74.5 74.4 74.5 2013 74.8 75 1 75.0 75.2 75 3 75 4 75 5 75.6 75.5 75.0 75 1 75.1 75.0 74 8 746 74 9 75 5 2014 76.8 74.7 75 5 76.2 76.2 76.5 77.2 774 75 5 76.5 76.9 77.2 76.5 76.8 76.8 76.8 77 5 2015 77.0 76.5 76.9 76.9 77.0 76.8 77.3 77.1 77.0 76.8 76.6 76.8 76.9 76.8 77.0 77.5 77.3 2016 76.9 76.6 76.6 76.4 76.4 76.5 76.5 76.2 76.3 76.3 76.2 76.3 76.7 76.4 76.3 76.3 76.4 2017 76.4 76.2 77.1 77.1 77.3 77.1 77.0 77.1 78.0 78.0 76.3 77.2 77.1 78.0 77.2 76.4 78.1 2018 79.0 78.9 77.8 78.5 78.5 79.1 79.3 79.4 79.1 78.9 79.2 78.3 79.2 79.1 2019 78.5 78.0 77.8 77.4 77.4 77.8 77.2 77.8 77.2 76.6 77.2 77.3 78.1 77.5 77.4 77.1 77.5 2020 77.2 77.4 73.8 62.3 65.2 70.4 73.1 75.3 75.7 76.3 76.1 75.8 73.0 74.4 74.5 66.0 74.0 74.0 76.6 78.3 77.0 78.0 78.4 77.2 2021 77.2 76.4 77.4 77.5 77.9 78.3 75.9 77.1 78.3 77.7 2022 77.6 78.0 78.3 78.3 77.9 77.4 77.477.4 77.477.6 77.0 75.7 78.0 77.9 77.476.8 77.5 76.4 76.6 2023 77.1 76.5 77.2 77.0 76.7 76.7 76.5 76.5 76.9 76.7 76.7 77.0 76.3 76.9 76.4 2024 75.3 76.3 76.3 75.8 76.1 75.4 75.6 75.2 74.6 74.7 75.0 76.0 76.0 74.8 75.5 76.2 75.4 2025 74.6 75.5 75.8 75.6 75.5 75.7 75.7 75.7 75.6 75.3 75.6 75.7

^{1.} The composition of manufacturing is specified in a note for the summary table.

^{2.} Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.

^{3.} Quarterly percentage changes are at annual rates. Annual percentage changes are calculated from annual averages.

Table 15
INDUSTRIAL PRODUCTION: RELIABILITY ESTIMATES
Seasonally adjusted
Appropriate Appropriate | Appropriate |

		alized			2015	100								
	cha	nge			2017:	=100					Percent	change	;	
	2025		2025						2025					
Item	Q2	Q3	Apr.	May	June	July	Aug.	Sept.	Apr.	May	June	July	Aug.	Sept.
Total index														
85th percentile	1.99	2.08	101.13	101.03	101.54	101.78	101.64	101.81	.09	10	.54	.32	.04	.40
Current estimate	1.77	1.08	101.13	100.98	101.43	101.59	101.33	101.43	.09	15	.45	.16	26	.10
15th percentile	1.52	.15	101.13	100.92	101.31	101.41	101.02	101.01	.09	21	.35	.04	51	28
Manufacturing (SIC)														
85th percentile	2.69	2.18	96.66	96.61	96.92	97.15	97.26	97.34	12	05	.35	.28	.26	.24
Current estimate	2.44	1.33	96.66	96.55	96.81	96.95	97.03	97.00	12	12	.26	.15	.08	04
15th percentile	2.21	.16	96.66	96.50	96.68	96.74	96.74	96.48	12	17	.16	.01	12	39
Mining														
85th percentile	6.53	6.29	120.02	120.70	121.58	121.68	122.96	123.17	23	.57	.85	.34	1.37	.91
Current estimate	5.98	2.94	120.02	120.57	121.26	121.15	121.68	121.66	23	.46	.57	09	.44	02
15th percentile	5.50	03	120.02	120.39	120.89	120.61	120.46	119.98	23	.31	.29	43	30	-1.01
Electric and gas utilities														
85th percentile	-5.85	2.30	108.79	107.77	109.39	110.42	108.42	109.60	1.69	94	1.52	.98	-1.26	2.96
Current estimate	-6.05	-2.26	108.79	107.75	109.32	109.83	106.52	107.66	1.69	96	1.45	.46	-3.01	1.07
15th percentile	-6.17	-4.68	108.79	107.74	109.25	109.66	105.22	106.30	1.69	97	1.36	.25	-4.57	70

Note. 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#reliability

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 2017. 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 (except exclusive Internet publishing)—that have traditionally been considered to be manufacturing and included in the industrial sector. For the period since 2017, the total IP index has been constructed from 297 individual series based on the 2022 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 5 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by 5/10 percentage point $(0.05 \times 10\% = 0.5\%)$. To assist users with calculations, the Federal Reserve's website provides supplemental monthly statistics that represent the exact proportionate contribution of a monthly change in a component index to the monthly change in the total index (www.federalreserve.gov/releases/G17/ipdisk/ipweightssa.txt).

Timing. The first estimate of output for a month is published around the 15th of the following month. The estimate is preliminary (denoted by the superscript "p" in tables) and subject to revision in each of the subsequent five months as new source data become available. (Revised estimates are denoted by the superscript "r" in tables.) For the first estimate of output for a given month, about 78 percent of the source data (in value-added terms) are available; the fraction of available source data increases to 86 percent for estimates in the second month that the estimate is published, 92 percent in the third month, 95 percent in the fourth month, 98 percent in the fifth month, and 98 percent in the sixth month. Data availability by data type in 2024 is summarized in the table below:

Availability of Monthly IP Data in Publication Window (Percent of value added in 2024; the numbers may not sum because of rounding.)

	Month of estimate										
Type of data	1st	2nd	3rd	4th	5th	6th					
Physical product	33	41	48	51	54	54					
Production-worker hours	44	44	44	44	44	44					
IP data received	78	86	92	95	98	98					
IP data estimated	22	14	8	5	2	2					

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 (33 percent out of a total of 54 percent). Of the 33 percent, two-thirds (22 percent of total IP) include series that are derived from weekly physical product data and for which actual monthly data may lag up to several months. On average, quarterly product data are received for the fourth estimate of industrial production. Specifically, quarterly data are available for the third estimate of the last month of a quarter, the fourth estimate of the second month of a quarter, and the fifth estimate of the first month of a quarter.

Seasonal adjustment. Individual series are seasonally adjusted using Census X-13 ARIMA. For series based on production-worker hours, the current seasonal factors were estimated with data through August 2025; for other series, the factors were estimated with data through August 2025, where available. Series are pre-adjusted for the effects of holidays or the business cycle when appropriate. For the data since 1972, all seasonally adjusted 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.

Reliability. The average revision to the *level* of the total IP index, without regard to sign, between the first and the fourth estimates was

0.30 percent during the 1987–2025 period. The average revision to the *percent change* in total IP, without regard to sign, from the first to the fourth estimates was 0.24 percentage point during the 1987–2025 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 (except exclusive Internet 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 26 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 10 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 canacity aggregates are

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 1972–2024 period, the average total industry utilization rate was 79.5 percent; for manufacturing, the average factory operating rate was 78.2 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 November 24, 2025, 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 will be issued on the following dates. The monthly releases are issued at 9:15 a.m. The annual revision is issued at noon.

2025: January 17, February 14, March 18, April 16, May 15, June 17, July 16, August 15, September 16, November 24 (annual revision), December 3 (delayed from October 17), and December 23 (delayed from November 18 and December 16).

2026: January 16, February 18, March 16, April 16, May 15, June 15, July 17, August 18, September 18, October 16, November 17, and December 16.

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