## **FEDERAL RESERVE statistical release**



#### G.17 (419)

#### INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production (IP) moved down 0.1 percent in November after declining 0.4 percent in October. In November, manufacturing output rose 0.2 percent, boosted by a 3.5 percent increase in the index for motor vehicles and parts. The indexes for mining and utilities fell 0.9 percent and 1.3 percent, respectively. At

(over)

#### **Industrial Production and Capacity Utilization: Summary**

Seasonally adjusted

			2017=	100						Percent	change		
Industrial production	2024 June <sup>r</sup>	July <sup>r</sup>	Augr	Sept. <sup>r</sup>	Oct. <sup>r</sup>	Nov. <sup>p</sup>	2024 June <sup>r</sup>	July	Aug. <sup>r</sup>	Sept. <sup>r</sup>	Oct. <sup>r</sup>	Nov. <sup>p</sup>	Nov. '23 to Nov. '24
industrial production	Julie	July	Aug."	Sept.	001.	INOV.	Julie	July	Aug.	Sept.	001.	INOV."	1000. 24
Total index	103.3	102.5	103.1	102.5	102.1	102.0	.3	7	.5	5	4	1	9
Previous estimates	103.3	102.5	103.0	102.5	102.3		.3	7	.5	5	3		
Major market groups													
Final Products	101.1	100.3	101.0	99.8	99.1	99.2	.4	8	.7	-1.2	8	.2	-1.9
Consumer goods	102.4	101.4	102.2	101.6	101.5	101.5	.5	-1.0	.9	6	1	.0	6
Business equipment	94.1	93.9	94.1	90.8	87.9	89.0	4	2	.2	-3.4	-3.2	1.2	-6.3
Nonindustrial supplies	101.7	101.2	101.2	101.1	101.0	100.4	.6	5	.0	1	2	5	2
Construction	100.5	100.2	100.7	100.2	100.2	100.0	.3	3	.5	4	.0	2	7
Materials	105.6	104.9	105.5	105.3	105.1	104.8	.1	7	.6	2	2	3	3
Major industry groups													
Manufacturing (see note below)	99.4	98.8	99.4	98.9	98.2	98.4	.0	6	.6	5	7	.2	-1.0
Previous estimates	99.4	98.8	99.4	99.0	98.5		.0	6	.6	3	5		
Mining	119.2	118.6	120.2	119.4	119.2	118.2	.8	5	1.4	7	1	9	-1.3
Utilities	108.8	107.4	106.3	105.6	107.1	105.6	1.7	-1.3	-1.1	6	1.3	-1.3	.1
													Capacity
					Perce	ent of cap	acity						growth
	Average	1988-	1990-	1994-									
~	1972-	89	91	95	2009	2023	2024						Nov. '23 to
Capacity utilization	2023	high	low	high	low	Nov.	June <sup>r</sup>	July <sup>r</sup>	Aug. <sup>r</sup>	Sept. <sup>r</sup>	Oct. <sup>r</sup>	Nov. <sup>p</sup>	Nov. '24
Total industry	79.7	85.2	78.7	84.8	66.6	78.4	78.2	77.6	77.9	77.4	77.0	76.8	1.2
Previous estimates	17.1	03.2	/0./	01.0	00.0	/0.1	78.2	77.6	77.9	77.4	77.1	70.0	1.2
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Manufacturing (see note below)	78.3	85.5	77.1	84.4	63.5	77.7	77.2	76.6	77.0	76.6	75.9	76.0	1.3
Previous estimates							77.2	76.7	77.0	76.7	76.2		
Mining	86.5	86.3	84.3	88.6	78.9	89.2	89.2	88.8	90.1	89.6	89.5	88.8	8
Utilities	84.5	93.2	84.7	93.2	78.1	72.5	73.2	72.1	71.1	70.5	71.2	70.0	3.6
Stage-of-process groups													
Crude	85.6	87.9	84.9	90.0	77.0	87.0	87.7	86.9	87.7	87.4	87.2	86.7	5
Primary and semifinished	80.2	86.5	77.6	87.5	63.7	77.0	76.9	76.3	76.5	76.2	76.2	75.8	1.6
Finished	76.8	83.3	77.6	80.4	66.2	76.6	75.7	75.1	75.4	74.6	73.6	73.7	1.8
r Revised n Preliminary	70.0	05.5	11.0	00.1	00.2	/0.0	15.1	13.1	75.7	/ 1.0	15.0	15.1	1.0

r Revised. p Preliminary.

Note. The statistics in this release cover output, capacity, and capacity utilization in the U.S. industrial sector, which is defined by the Federal Reserve to comprise manufacturing, mining, and electric and gas utilities. Mining is defined as all industries in sector 21 of the North American Industry Classification System (NAICS); electric and gas utilities are those in NAICS sectors 2211 and 2212. Manufacturing comprises NAICS manufacturing industries (sector 31-33) plus the logging industry and the newspaper, periodical, book, and directory publishing industries. Logging and publishing are classified elsewhere in NAICS (under agriculture and information, respectively), but historically they were considered to be manufacturing and were included in the industrial sector under the Standard Industrial Classification (SIC) system. In December 2002 the Federal Reserve reclassified all its industrial output data from the SIC system to NAICS.

#### For release at 9:15 a.m. (EST) December 17, 2024

102.0 percent of its 2017 average, total IP in November was 0.9 percent below its year-earlier level. Capacity utilization stepped down to 76.8 percent in November, a rate that is 2.9 percentage points below its long-run (1972–2023) average.

#### Market Groups

The major market groups posted mixed results in November. The output of consumer goods was unchanged; the index for durable consumer goods rose, supported by gains in the output of appliances, furniture, and carpeting (3.4 percent) as well as automotive products (2.0 percent). Output in every category of nondurable consumer goods declined in November. The index for business equipment gained 1.2 percent, driven by a 5.1 percent increase in the index for transit equipment. Construction supplies and business supplies posted declines of 0.2 percent and 0.7 percent in November, respectively. The index for materials decreased 0.3 percent, as a 1.0 percent decline in the output of energy materials more than offset a 0.2 percent gain in the output of non-energy materials.

#### Industry Groups

Manufacturing output moved up 0.2 percent in November but was 1.0 percent below its year-earlier level. In November, the durable manufacturing index gained 0.7 percent due to broad-based increases among durable categories, including in the output of motor vehicles and parts (3.5 percent) and machinery (2.1 percent). Despite the resolution of a work stoppage at a major civilian aircraft manufacturer early in November, the output of aerospace and miscellaneous transportation equipment declined 2.6 percent, largely because of declines in the manufacturing of aircraft parts. The nondurable manufacturing index declined 0.3 percent in November, led by decreases in the output of apparel and leather (2.1 percent), petroleum and coal products (1.6 percent), and paper (1.3 percent). Similarly, the index for other manufacturing (publishing and logging) fell by 1.0 percent.

Mining output decreased 0.9 percent in November after ticking down 0.1 percent in October. The index for utilities fell 1.3 percent in November, with declines in the indexes for both electric and natural gas utilities.

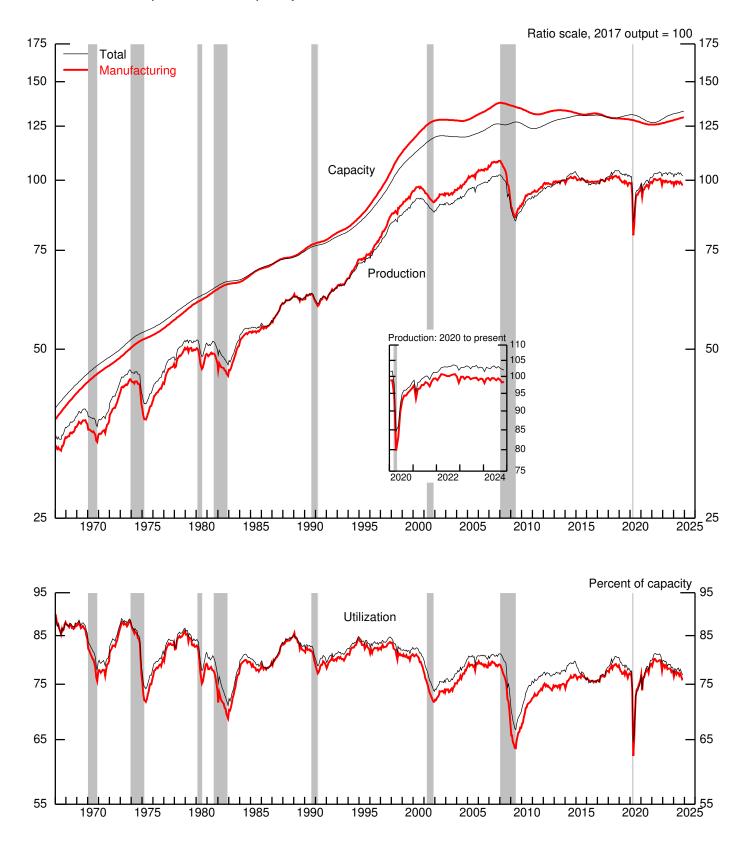
Capacity utilization for manufacturing inched up 0.1 percentage point in November to 76.0 percent, a rate that is 2.3 percentage points below its long-run average. The operating rate for mining decreased 0.7 percentage point to 88.8 percent, and the operating rate for utilities moved down 1.2 percentage points to 70.0 percent. The rate for mining was 2.3 percentage points 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
- 2. Industrial Production: Special Aggregates and Selected Detail; percent change
- 3. Motor Vehicle Assemblies
- 4. Industrial Production: Market and Industry Group Summary; indexes
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- 14. Historical Statistics: Manufacturing Excluding Selected High-Technology Industries
- 15. Industrial Production: Reliability Estimates

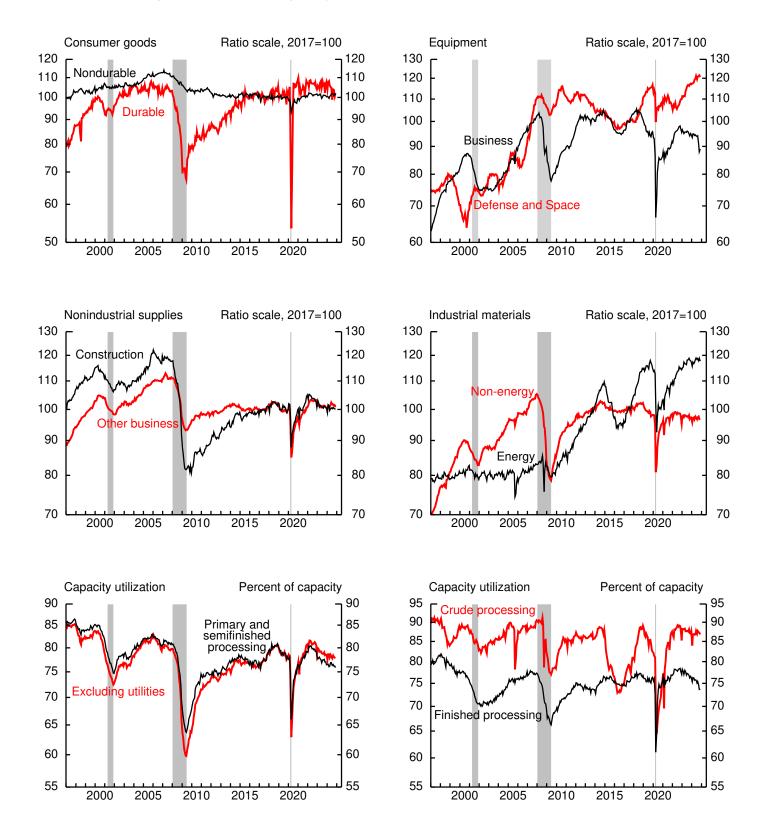
Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

1. Industrial production, capacity, and utilization



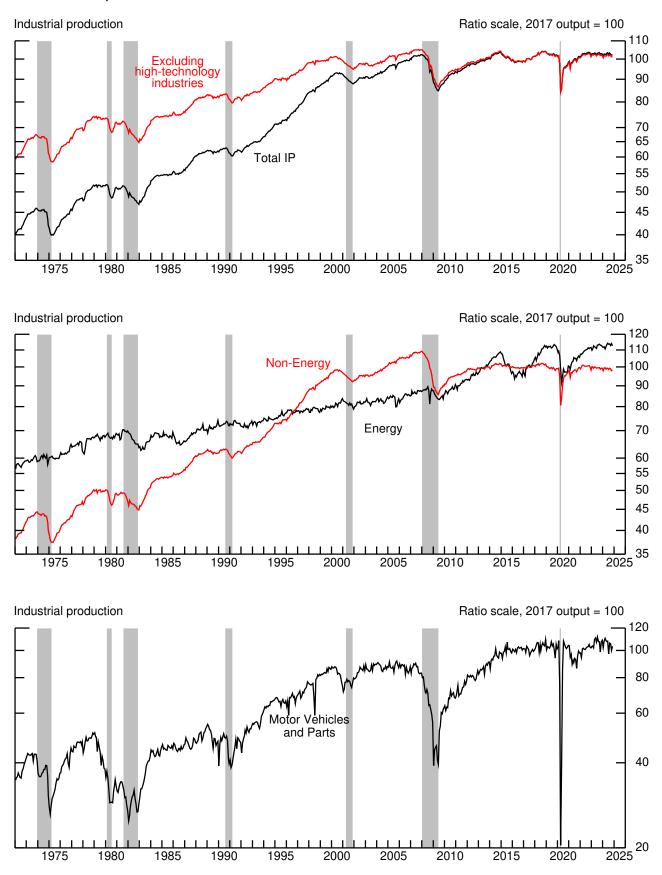
Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

#### 2. Industrial production and capacity utilization



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

#### 3. Industrial production 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

			1	rth quart 1rth quar			nnual rat	te			Month	nly rate			Nov. '2
Item		2023 proportion <sup>1</sup>	2021	2022	2023	2024 Q1	Q2 <sup>r</sup>	Q3 <sup>r</sup>	2024 June <sup>r</sup>	July <sup>r</sup>	Aug. <sup>r</sup>	Sept. <sup>r</sup>	Oct.r	Nov. <sup>p</sup>	to Nov. '24
Total IP		100.00	3.8	1.8	1	-1.8	2.4	6	.3	7	.5	5	4	1	9
MARKET GROUPS															
Final products and nonindustrial supplies	i	54.57	3.3	1.9	-1.0	9	1.5	-1.1	.4	7	.5	8	6	.0	-1.4
Consumer goods		27.65	1.6	.6	6	-1.2	1.7	9	.5	-1.0	.9	6	1	.0	6
Durable		6.08	2	-1.3	.2	3.6	-4.5	-11.3	1	-5.7	5.1	3	-3.0	1.6	-4.3
Automotive products		3.35	-5.1	.6	1.6	3.4	-2.1	-17.6	.2	-10.3	10.5	-1.3	-5.2	2.0	-7.4
Home electronics		.14	9.4	4	20.1	8.5	4.7	.9	-1.6	3	.7	1.8	.7	.9	6.1
Appliances, furniture, carpeting		.91	1.7	-9.0	-4.6	-1.0	-18.7	3.3	1.3	4	.9	2.1	-1.2	3.4	-1.4
Miscellaneous goods		1.69	9.1	-1.0	-1.3	6.1	-1.7	-6.7	-1.3	.1	-1.8	.2	1	1	7
Nondurable		21.57	2.2	1.2	8	-2.5	3.5	2.3	.7	.3	2	7	.7	4	.4
Non-energy		16.08	1.3	.6	3	8	.6	3.0	.5	.4	1	3	.1	1	.5
Foods and tobacco		9.74	2	4	-1.4	-4.2	4	-2.8	.4	8	3	3	1	1	-2.2
Clothing		.17	5.2	7	-10.0	-13.1	6.6	-12.6	2.1	-2.1	-2.5	-3.3	6	-2.0	-9.7
Chemical products		4.99	3.8	3.2	3.1	6.8	4.3	17.4	1.0	3.0	.3	4	.5	1	7.2
Paper products		.78	.1	-4.2	-6.0	1	-6.7	-3.5	5	-1.3	1.1	.0	4	-1.4	-3.6
Energy		5.49	6.2	2.5	-2.0	-7.3	12.6	.0	1.4	.0	8	-1.9	2.5	-1.3	.2
Business equipment		8.77	5.9	6.8	-2.4	6	7	-5.4	4	2	.2	-3.4	-3.2	1.2	-6.3
Transit		1.75	-3.1	19.1	-2.4	0	1.0	-23.4	2.3	-5.8	5.3	-15.0	-16.2	5.1	-26.1
Information processing		1.75	9.5	-1.0	.7	2.1	2.3	5.0	1	2.2	-1.4	-15.0	1.4	8	1.9
Industrial and other		5.25	7.2	6.1	-4.1	-1.7	-2.2	-2.3	-1.4	1.0	9	6	-1.0	1.0	-2.4
Defense and space equipment		1.74	.2	1.7	6.8	2.2	8.5	1.3	1.1	-1.3	1.2	.1	.4	7	3.0
Construction supplies Business supplies		5.19 10.55	5.4 3.9	-1.7 2.2	-1.4 -1.6	2 8	-1.6 4.2	1.0 .1	.3 .7	3 6	.5 3	4 .1	.0 2	2 7	7 .0
Materials		45.43	4.4	1.8	1.0	-2.8	3.6	.1	.1	7	.6	2	2	3	3
Non-energy		27.35	3.1	9	1	-2.8	2.2	.0	2	7	.0	2	2	3	3
Durable		16.83	2.8	1.5	4	-1.3	1.3	6	-1.0	7	1.1	.1	-1.3	.2	-1.1
Consumer parts		2.93	-5.6	3.6	3.9	.7	-1.1	-10.3	-1.5	-4.2	3.4	.8	-3.8	2.7	-3.0
Equipment parts		4.64	6.9	3.2	1	-2.3	9.2	8.4	5	1.4	.8	.0	3	9	2.4
Other		9.26	3.6	.1	-1.9	-1.4	-1.8	-1.8	-1.2	3	.6	1	-1.0	.1	-2.3
Nondurable		10.53	3.5	-4.4	.4	-2.9	3.6	.9	1.0	-1.0	.1	.5	3	.1	.7
Textile		.30	1.7	-7.9	-6.9	1.8	13.1	11.0	.8	1.9	1.4	-4.5	.0	6	3.4
Paper		1.47	.1	-4.7	-5.2	6.6	2.8	.8	.6	2	.1	.9	.1	-1.2	1.4
Chemical		5.44	6.5	-6.3	3.5	-8.2	7.7	.4	1.3	-2.0	.6	.2	.0	.6	1.0
Energy		18.08	7.3	5.3	2.7	-4.2	5.8	.2	.6	6	.4	8	.9	-1.0	2
INDUSTRY GROUPS Manufacturing		75.05	3.4	.5	4	9	1.3	8	.0	6	.6	5	7	.2	-1.0
Manufacturing (NAICS)	31-33	73.46	3.5	.6	3	9	1.3	7	.0	6	.6	5	7	.2	-1.0
Durable manufacturing	01 00	37.33	3.3	2.3	4	.0	.3	-2.7	5	-1.1	1.3	7	-1.6	.7	-2.2
Wood products	321	1.63	.4	-4.5	-1.4	-2.8	-1.0	3.1	.3	-1.0	1.4	.4	.1	1.0	3
Nonmetallic mineral products	327	2.35	2.6	4.4	-3.0	-12.8	-3.4	2.3	1.4	.1	8	1.0	1.2	1.3	2
Primary metals	331	2.74	5.9	-5.2	1.9	-2.7	6	2.1	-3.5	.4	2.1	.1	-3.0	.0	-3.0
Fabricated metal products	332	6.10	6.1	1.9	-1.8	2.4	9	-4.7	7	4	-1.0	2	.1	6	-1.9
Machinery	333	5.67	8.3	3.4	-3.6	-1.2	-3.2	3.4	-1.5	2.2	9	.3	-1.2	2.1	2
Computer and electronic products	334	4.40	5.8	.6	2.9	2.2	6.8	4.8	6	1.6	2	3	1.0	3	3.7
Electrical equip., appliances,															
and components	335	2.13	3.7	2.7	-1.2	-1.8	3.4	13.7	1.9	.3	2.9	-1.9	6	1	2.7
Motor vehicles and parts	3361-3	5.49	-5.1	5.8	1.6	8.3	3.4	-17.0	.1	-9.9	9.1	3	-5.4	3.5	-3.5
Aerospace and miscellaneous				<b>~</b> -		<u> </u>	. –		-		- ·				
transportation equipment	3364-9	3.15	-1.4	9.7	3.0	-3.1	4.5	-7.4	.8	-1.0	2.0	-8.0	-6.7	-2.6	-15.3
Furniture and related products	337	1.01	2.7	-3.5	-10.5	-5.2	1.3	-3.4	1.6	-1.0	.7	-2.2	3	2.0	-1.5
Miscellaneous	339	2.65	7.7	3.6	.7	6	-8.6	-9.7	-2.1	.4	-2.6	2.0	9	.2	-5.0
Northernal Langerson (* 1		25.14				1 7	2.4	1.0				2	~	2	
Nondurable manufacturing	211.0	36.14	3.8	-1.1	1	-1.7	2.6	1.3	.4	1	1	3	.2	3	.5
Food, beverage, and tobacco products	311,2	12.17	1	.0	-1.4	-3.7	4	-2.5	.3	8	4	.1	2	.0	-1.8
Textile and product mills	313,4	.53	3.6	-9.6	-6.5	-3.1	7.6	-1.1	.4	6 -2.1	.6	-3.5	.5	.3	1
Apparel and leather Paper	315,6 322	.19 2.19	5.8	.2 -6.0	-8.8 -3.3	-12.4 1.9	6.5 .5	-11.4 1.9	2.5 .0	-2.1	-2.3 .2	-3.5 .8	.0 .5	-2.1 -1.3	-8.6
Printing and support	322	1.30	-1.0	-0.0	-3.3	10.4	.5 8.9	3.6	1.4	.2	2	.8	-1.7	-1.5	2.6
Petroleum and coal products	323	4.00	17.8	-2.6	-10.2	.2	-2.4	4.0	8	.3	2 .9	-1.0	-1.7 2.0	9	2.0
Chemicals	324	12.01	5.7	-2.0	2.1	-1.6	-2.4 7.4	6.8	1.0	.5	.9	-1.0	2.0	-1.0	4.2
Chemieano	323	3.73	3.0	-1.5	.3	-2.9	.5	-6.3	3	5	8	4	-1.4	5	-4.5
Plastics and rubber products	520			-1.6	-8.1	-1.6	-4.6	-3.2	.4	-2.4	1.7	2	-1.0	-1.0	-3.4
Plastics and rubber products Other manufacturing (non-NAICS)	1133.5111	1.59	5												
Other manufacturing (non-NAICS)	1133,5111 21		3			-5 5			8	- 5	14			_ 0	_13
Other manufacturing (non-NAICS)	21	14.22	10.4	6.2	2.6	-5.5 -3.0	2.1	1.2	.8 1.7	5 -1.3	1.4	7	1	9 -1.3	-1.3
Other manufacturing (non-NAICS)	,					-5.5 -3.0 -1.1			.8 1.7 .7	5 -1.3 -1.4	1.4 -1.1 -1.6			9 -1.3 -1.2	-1.3 .1 .6

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/G17/20241217/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

Item	_	2023		rth quart urth quar		A	nnual rat	ie	2024		Month	nly rate			Nov. '23
nem		proportion	2021	2022	2023	Q1	Q2 <sup>r</sup>	Q3 <sup>r</sup>	June <sup>r</sup>	July <sup>r</sup>	Aug. <sup>r</sup>	Sept. <sup>r</sup>	Oct.r	Nov. <sup>p</sup>	Nov. '24
Total industry		100.00	3.8	1.8	1	-1.8	2.4	6	.3	7	.5	5	4	1	9
Energy		26.94	7.7	5.1	1.3	-4.4	6.7	.5	.9	5	.1	9	1.1	-1.1	2
Consumer products		5.49	6.2	2.5	-2.0	-7.3	12.6	.0	1.4	.0	8	-1.9	2.5	-1.3	.2
Commercial products		2.76	6.1	6.3	.4	.6	6.7	3.1	2.1	-1.2	.2	.2	.1	-1.5	1.2
Oil and gas well drilling	213111	.61	59.2	21.4	-7.9	-9.1	-15.6	.1	.6	3	.3	1.3	-1.6	-3.3	-9.6
Converted fuel Primary energy		5.15 12.93	4.1 8.7	3.3 6.0	2.4 2.9	.2 -6.0	4.5 6.3	.8 .0	7 1.1	2 8	-1.3 1.1	1.3 -1.6	.6 1.0	9 -1.0	.6 4
Non-energy		73.06	2.8	.5	6	8	.9	-1.0	.0	8	.7	4	-1.0	.2	-1.2
Selected high-technology industries		1.89	5.1	6.5	7.8	2.3	15.5	5.6	-1.4	.8	1.7	.1	.8	.3	7.4
Computers and peripheral equipment	3341	.23	18.4	8.2	6.9	-2.3	9.3	5.4	-1.9	.0	.8	2.9	1.5	1.0	7.2
Communications equipment	3342	.40	18.0	10.4	14.3	10.7	5.1	4.0	.3	.7	1	.3	1.4	7	5.6
Semiconductors and related electronic components	3344	1.26	5	5.0	5.9	.4	20.3	6.1	-1.8	.9	2.5	5	.4	.5	8.0
Excluding selected high-technology				2.5											
industries		71.17	2.7	.3	8	9	.6	-1.1	.1	8	.7	4	-1.0	.2	-1.4
Motor vehicles and parts	3361-3	5.49	-5.1	5.8	1.6	8.3	3.4	-17.0	.1	-9.9	9.1	3	-5.4	3.5	-3.5
Motor vehicles	3361	2.62	-10.1	11.0	1.3	16.3	.8	-20.7	1.0	-14.6	15.7	5	-7.6	4.9	-4.4
Motor vehicle parts	3363	2.31	-4.1	7.3	2.7	7.7	5.2	-11.7	2	-5.9	4.1	.8	-3.7	2.4	6
Excluding motor vehicles and parts		65.69	3.5	1	-1.0	-1.6	.3	.3	.1	.0	.0	4	6	.0	-1.2
Consumer goods		19.27	2.0	1	6	5	8	1.5	.5	.1	1	2	1	.0	.0
Business equipment		7.49	5.2	6.0	-3.0	-2.6	-2.3	-4.3	-1.0	1.3	8	-4.0	-2.9	.5	-7.8
Construction supplies		5.18	5.4	-1.8	-1.5	2	-1.7	1.0	.3	3	.5	4	.0	2	7
Business supplies Materials		7.41 24.59	3.4 4.1	.7 -1.9	-2.8 6	-1.6 -2.8	2.7 1.1	-1.4 1.1	.3 2	4 2	6 .3	.1 .3	4 7	4 .0	8 7
Measures excluding selected															
high-technology industries Total industry		98.11	3.8	1.7	3	-1.9	2.2	7	.3	7	.5	6	4	2	-1.1
Manufacturing <sup>1</sup>		73.17	3.4	.4	6	-1.9	.9	-1.0	.0	7	.6	0	4	.2	-1.1
Durable		35.58	3.4	2.0	9	-1.0	4	-3.3	4	-1.2	1.2	8	-1.7	.7	-2.8
Measures excluding motor vehicles and parts															
Total industry		94.51	4.5	1.6	2	-2.3	2.4	.5	.3	2	.1	6	1	3	7
Manufacturing <sup>1</sup>		69.57	4.2	.1	6	-1.6	1.1	.6	1	.1	.0	5	3	1	7
Durable		31.98	4.9	1.7	8	-1.5	2	1	6	.4	.0	8	9	.2	-2.0
Measures excluding selected high-technology industries															
and motor vehicles and parts															
Total industry		92.63	4.5	1.5	3	-2.4	2.1	.4	.3	2	.0	6	1	4	9
Manufacturing <sup>1</sup>		67.68	4.2	1	8	-1.7	.7	.5	.0	.1	.0	5	4	1	-1.0
Stage-of-process components															
of non-energy materials,															
measures of the input to Finished processors		9.34	1.7	1.5	.1	.2	5.0	1.2	6	6	1.5	.2	-1.3	.1	.6
Primary and semifinished processors		9.34	3.9	-2.0	2	-3.0	.7	6	0	0	.3	.2	-1.5	.1	-1.0
und seminimoned processors		10.02	5.7	2.0	.2	5.0	.,	.0		.0			.,	.2	1.0
		1							1						L

r Revised. p Preliminary. 1. The composition of manufacturing is specified in a note for the summary table.

### Table 3 MOTOR VEHICLE ASSEMBLIES

Millions of units, seasonally adjusted annual rate

	2023	2023	2024			2024					
Item	average	Q4	Q1	Q2	Q3	June	July	Aug.	Sept.	Oct.	Nov.
						10.01			10 -		
Total	10.64	10.42	10.92	10.90	10.24	10.96	9.21	10.72	10.78	9.96	10.41
Autos	1.74	1.70	1.57	1.40	1.37	1.44	1.32	1.39	1.41	1.40	1.41
Trucks	8.90	8.72	9.34	9.50	8.87	9.52	7.90	9.33	9.37	8.56	9.01
Light	8.57	8.40	8.98	9.15	8.56	9.13	7.57	9.03	9.07	8.32	8.71
Medium and heavy	.33	.32	.36	.35	.31	.39	.33	.30	.30	.23	.29
Memo											
Autos and light trucks	10.31	10.10	10.56	10.55	9.93	10.57	8.88	10.42	10.48	9.72	10.12

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

## Table 4 INDUSTRIAL PRODUCTION INDEXES: MARKET AND INDUSTRY GROUP SUMMARY 2017 = 100, seasonally adjusted

Item		2023 proportion	2024 Mar.	Apr.	May	June <sup>r</sup>	July <sup>r</sup>	Aug. <sup>r</sup>	Sept. <sup>r</sup>	Oct. <sup>r</sup>	Nov. <sup>p</sup>
Total IP		100.00	102.5	102.4	103.0	103.3	102.5	103.1	102.5	102.1	102.0
MARKET GROUPS											
Final products and nonindustrial supplies		54.57	100.6	100.5	100.9	101.3	100.6	101.0	100.2	99.6	99.6
Consumer goods		27.65	100.0	100.3	100.9	101.5	100.0	101.0	100.2	101.5	101.5
Durable		6.08	101.4	101.7	101.8	102.4	98.9	102.2	101.0	101.5	101.5
Automotive products		3.35	112.1	100.1	105.0	104.9	96.9	104.0	105.8	100.0	102.2
Home electronics		.14	198.9	197.6	200.6	197.3	196.8	198.2	201.8	203.3	205.1
Appliances, furniture, carpeting		.91	83.0	82.2	79.9	80.9	80.6	81.4	83.1	82.1	84.9
Miscellaneous goods		1.69	109.7	108.3	108.9	107.5	107.6	105.7	105.9	105.8	105.7
Nondurable		21.57	99.6	100.5	100.9	101.7	102.0	101.7	101.0	103.0	101.3
Non-energy		16.08	101.0	100.4	100.9	101.4	101.8	101.7	101.4	101.5	101.3
Foods and tobacco		9.74	98.0	97.4	97.7	98.1	97.3	97.1	96.8	96.7	96.6
Clothing		.17	78.1	79.8	80.0	81.7	80.1	78.0	75.5	75.0	73.5
Chemical products		4.99	112.3	111.6	112.7	113.8	117.2	117.6	117.1	117.7	117.6
Paper products		.78	77.7	76.8	76.9	76.5	75.5	76.3	76.3	76.0	75.0
Energy		5.49	94.7	99.8	100.4	101.9	101.9	101.1	99.2	101.6	100.3
Business equipment		8.77	94.9	94.2	94.4	94.1	93.9	94.1	90.8	87.9	89.0
Transit		1.75	74.5	73.0	72.2	73.8	69.5	73.2	62.2	52.1	54.8
Information processing		1.77	110.4	110.4	111.0	110.9	113.3	111.7	111.4	112.9	112.0
Industrial and other		5.25	101.0	100.5	101.1	99.7	100.7	99.8	99.1	98.2	99.1
Defense and space equipment		1.74	118.0	119.3	119.9	121.1	119.5	120.9	121.0	121.6	120.7
		5.10	101.2	00.6	100.2	100.7	100.2	100.7	100.0	100.2	100.0
Construction supplies Business supplies		5.19 10.55	101.3 100.7	99.6 100.8	100.3 101.6	100.5 102.4	100.2 101.8	100.7 101.5	100.2 101.6	100.2 101.4	100.0 100.7
Materials Non-energy		45.43 27.35	104.7 97.3	104.5 96.7	105.5 97.5	105.6 97.3	104.9 96.6	105.5 97.3	105.3 97.6	105.1 96.7	104.8 96.9
Durable		16.83	97.5	90.7 97.6	97.3	97.3 97.4	96.0 96.9	97.3	97.0	96.7 96.9	90.9 97.1
Consumer parts		2.93	98.0	97.0	93.7	97.4	88.4	98.0	92.2	88.7	97.1
Equipment parts		4.64	104.2	105.6	106.9	106.4	107.9	108.7	108.8	108.5	107.5
Other		9.26	96.3	95.2	95.9	94.8	94.5	95.1	95.0	94.1	94.2
Nondurable		10.53	96.2	95.2	96.3	97.3	96.2	96.3	96.8	96.6	96.6
Textile		.30	78.3	77.7	79.5	80.1	81.6	82.8	79.1	79.0	78.6
Paper		1.47	83.2	83.5	82.6	83.1	83.0	83.0	83.7	83.9	82.9
Chemical		5.44	97.7	96.4	98.8	100.0	98.1	98.7	98.8	98.8	99.4
Energy		18.08	116.7	117.2	118.3	119.0	118.3	118.7	117.8	118.8	117.7
INDUSTRY GROUPS											
Manufacturing		75.05	99.5	98.8	99.5	99.4	98.8	99.4	98.9	98.2	98.4
Manufacturing (NAICS)	31-33	73.46	100.1	99.4	100.0	100.0	99.4	100.0	99.5	98.8	99.0
Durable manufacturing	01 00	37.33	101.0	100.3	100.8	100.3	99.2	100.4	99.7	98.1	98.8
	201	1.63	93.8	92.2	93.9	94.1	93.1	94.5	94.8	94.9	95.8
Wood products								99.8			
Wood products Nonmetallic mineral products	321 327			99.9	99.1	100.5	100.0		100.8	102.0	103.3
Wood products Nonmetallic mineral products Primary metals	321 327 331	2.35 2.74	100.0 94.6	99.9 92.6	99.1 95.7	100.5 92.3	100.6 92.7	94.7	100.8 94.7	102.0 91.9	103.3 91.9
Nonmetallic mineral products	327	2.35	100.0								
Nonmetallic mineral products Primary metals	327 331	2.35 2.74	100.0 94.6	92.6	95.7	92.3	92.7	94.7	94.7	91.9	91.9
Nonmetallic mineral products Primary metals Fabricated metal products	327 331 332	2.35 2.74 6.10	100.0 94.6 99.5	92.6 98.9	95.7 100.0	92.3 99.3	92.7 99.0	94.7 98.0	94.7 97.8	91.9 97.9	91.9 97.3
Nonmetallic mineral products Primary metals Fabricated metal products Machinery	327 331 332 333	2.35 2.74 6.10 5.67	100.0 94.6 99.5 98.8	92.6 98.9 98.3	95.7 100.0 98.9	92.3 99.3 97.4	92.7 99.0 99.5	94.7 98.0 98.6	94.7 97.8 98.9	91.9 97.9 97.7	91.9 97.3 99.8
Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components	327 331 332 333	2.35 2.74 6.10 5.67	100.0 94.6 99.5 98.8	92.6 98.9 98.3	95.7 100.0 98.9	92.3 99.3 97.4	92.7 99.0 99.5	94.7 98.0 98.6	94.7 97.8 98.9	91.9 97.9 97.7	91.9 97.3 99.8
Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts	327 331 332 333 334	2.35 2.74 6.10 5.67 4.40	100.0 94.6 99.5 98.8 116.8	92.6 98.9 98.3 118.3	95.7 100.0 98.9 119.1	92.3 99.3 97.4 118.3	92.7 99.0 99.5 120.3	94.7 98.0 98.6 120.0	94.7 97.8 98.9 119.6	91.9 97.9 97.7 120.9	91.9 97.3 99.8 120.6
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	327 331 332 333 334 335 3361–3	2.35 2.74 6.10 5.67 4.40 2.13 5.49	100.0 94.6 99.5 98.8 116.8 104.2 110.4	92.6 98.9 98.3 118.3 102.9 108.2	95.7 100.0 98.9 119.1 103.9 107.6	92.3 99.3 97.4 118.3 105.9 107.8	92.7 99.0 99.5 120.3 106.3 97.2	94.7 98.0 98.6 120.0 109.3 106.0	94.7 97.8 98.9 119.6 107.3	91.9 97.9 97.7 120.9 106.7	91.9 97.3 99.8 120.6 106.6 103.5
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	327 331 332 333 334 335 3361–3 3364–9	2.35 2.74 6.10 5.67 4.40 2.13 5.49 3.15	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3	92.6 98.9 98.3 118.3 102.9 108.2 89.3	95.7 100.0 98.9 119.1 103.9 107.6 89.1	92.3 99.3 97.4 118.3 105.9 107.8 89.8	92.7 99.0 99.5 120.3 106.3 97.2 88.9	94.7 98.0 98.6 120.0 109.3 106.0 90.7	94.7 97.8 98.9 119.6 107.3 105.7 83.5	91.9 97.9 97.7 120.9 106.7 100.0 77.9	91.9 97.3 99.8 120.6 106.6 103.5 75.9
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	327 331 332 333 334 335 3361–3 3364–9 337	2.35 2.74 6.10 5.67 4.40 2.13 5.49 3.15 1.01	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0
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	327 331 332 333 334 335 3361–3 3364–9	2.35 2.74 6.10 5.67 4.40 2.13 5.49 3.15	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3	92.6 98.9 98.3 118.3 102.9 108.2 89.3	95.7 100.0 98.9 119.1 103.9 107.6 89.1	92.3 99.3 97.4 118.3 105.9 107.8 89.8	92.7 99.0 99.5 120.3 106.3 97.2 88.9	94.7 98.0 98.6 120.0 109.3 106.0 90.7	94.7 97.8 98.9 119.6 107.3 105.7 83.5	91.9 97.9 97.7 120.9 106.7 100.0 77.9	91.9 97.3 99.8 120.6 106.6 103.5 75.9
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	327 331 332 333 334 335 3361–3 3364–9 337	2.35 2.74 6.10 5.67 4.40 2.13 5.49 3.15 1.01	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0
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	327 331 332 333 334 335 3361–3 3364–9 337	2.35 2.74 6.10 5.67 4.40 2.13 5.49 3.15 1.01 2.65	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0 109.1	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8 107.8	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5 106.4	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7 104.1	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9 104.6	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4 101.9	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7 103.9	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4 103.0	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0 103.2
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	327 331 332 333 334 335 3361–3 3364–9 337 339	2.35 2.74 6.10 5.67 4.40 2.13 5.49 3.15 1.01 2.65 36.14	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0 109.1 99.2	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8 107.8 98.4	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5 106.4 99.3	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7 104.1 99.7	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9 104.6 99.6	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4 101.9 99.6	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7 103.9 99.3	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4 103.0 99.5	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0 103.2 99.2
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	327 331 332 333 334 335 3361–3 3364–9 337 339 311,2	2.35 2.74 6.10 5.67 4.40 2.13 5.49 3.15 1.01 2.65 36.14 12.17	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0 109.1 99.2 99.5	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8 107.8 98.4 98.4	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5 106.4 99.3 99.3	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7 104.1 99.7 99.6	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9 104.6 99.6 98.9	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4 101.9 99.6 98.5	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7 103.9 99.3 98.5	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4 103.0 99.5 98.3	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0 103.2 99.2 98.3
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	327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4	2.35 2.74 6.10 5.67 4.40 2.13 5.49 3.15 1.01 2.65 36.14 12.17 .53	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0 109.1 99.2 99.5 78.7	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8 107.8 98.4 98.8 78.3 81.6 86.9	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5 106.4 99.3 90.3 80.3	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7 104.1 99.7 99.6 80.6	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9 104.6 99.6 98.9 80.1	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4 101.9 99.6 98.5 80.6	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7 103.9 99.3 98.5 77.8	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4 103.0 99.5 98.3 78.2	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0 103.2 99.2 98.3 78.4 76.0 86.9
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	327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323	$\begin{array}{c} 2.35\\ 2.74\\ 6.10\\ 5.67\\ 4.40\\ \hline 2.13\\ 5.49\\ \hline 3.15\\ 1.01\\ 2.65\\ \hline 36.14\\ 12.17\\ .53\\ .19\\ 2.19\\ 1.30\\ \end{array}$	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0 109.1 99.2 99.5 78.7 80.2 86.9 83.6	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8 107.8 98.4 98.4 98.4 98.4 98.4 81.6 86.9 84.4	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5 106.4 99.3 99.3 80.3 80.3 82.0 86.5 83.9	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7 104.1 99.7 99.6 80.6 84.1 86.5 85.1	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9 104.6 99.6 98.9 80.1 82.4 86.7 85.3	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4 101.9 99.6 98.5 80.6 80.4 86.9 85.1	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7 103.9 99.3 98.5 77.8 77.6 87.6 85.2	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4 103.0 99.5 98.3 78.2 77.6 88.0 88.7	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0 103.2 99.2 98.3 78.4 76.0 86.9 82.9
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	327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324	$\begin{array}{c} 2.35\\ 2.74\\ 6.10\\ 5.67\\ 4.40\\ \hline 2.13\\ 5.49\\ \hline 3.15\\ 1.01\\ 2.65\\ \hline 36.14\\ 12.17\\ .53\\ .19\\ 2.19\\ 1.30\\ 4.00\\ \hline \end{array}$	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0 109.1 99.2 99.5 78.7 80.2 86.9 83.6 94.6	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8 107.8 98.4 98.4 98.8 78.3 81.6 86.9 84.4 90.9	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5 106.4 99.3 99.3 80.3 80.3 82.0 86.5 83.9 93.6	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7 104.1 99.7 99.6 80.6 80.6 84.1 86.5 85.1 92.8	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9 104.6 99.6 98.9 80.1 82.4 86.7 85.3 93.1	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4 101.9 99.6 98.5 80.6 80.4 86.9 85.1 93.9	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7 103.9 99.3 98.5 77.8 77.6 87.6 87.6 85.2 93.0	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4 103.0 99.5 98.3 78.2 77.6 88.0 88.7 94.9	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0 103.2 99.2 98.3 78.4 76.0 86.9 82.9 93.4
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	327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325	$\begin{array}{c} 2.35\\ 2.74\\ 6.10\\ 5.67\\ 4.40\\ \hline \\ 2.13\\ 5.49\\ \hline \\ 3.15\\ 1.01\\ 2.65\\ \hline \\ 36.14\\ 12.17\\ .53\\ .19\\ 2.19\\ 1.30\\ 4.00\\ 12.01\\ \hline \end{array}$	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0 109.1 99.2 99.5 78.7 80.2 86.9 83.6 94.6 104.0	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8 107.8 98.4 98.4 98.8 78.3 81.6 86.9 84.4 90.9 103.5	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5 106.4 99.3 99.3 80.3 82.0 86.5 83.9 93.6 105.0	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7 104.1 99.7 99.6 80.6 84.1 86.5 85.1 92.8 106.1	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9 104.6 99.6 98.9 80.1 82.4 86.7 85.3 93.1 106.7	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4 101.9 99.6 98.5 80.6 80.4 86.9 85.1 93.9 106.8	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7 103.9 99.3 98.5 77.8 77.6 87.6 87.6 85.2 93.0 106.4	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4 103.0 99.5 98.3 78.2 77.6 88.0 83.7 94.9 107.1	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0 103.2 99.2 98.3 78.4 76.0 86.9 82.9 93.4 107.4
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	327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324	$\begin{array}{c} 2.35\\ 2.74\\ 6.10\\ 5.67\\ 4.40\\ \hline 2.13\\ 5.49\\ \hline 3.15\\ 1.01\\ 2.65\\ \hline 36.14\\ 12.17\\ .53\\ .19\\ 2.19\\ 1.30\\ 4.00\\ \hline \end{array}$	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0 109.1 99.2 99.5 78.7 80.2 86.9 83.6 94.6	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8 107.8 98.4 98.4 98.8 78.3 81.6 86.9 84.4 90.9	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5 106.4 99.3 99.3 80.3 80.3 82.0 86.5 83.9 93.6	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7 104.1 99.7 99.6 80.6 80.6 84.1 86.5 85.1 92.8	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9 104.6 99.6 98.9 80.1 82.4 86.7 85.3 93.1	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4 101.9 99.6 98.5 80.6 80.4 86.9 85.1 93.9	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7 103.9 99.3 98.5 77.8 77.6 87.6 87.6 85.2 93.0	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4 103.0 99.5 98.3 78.2 77.6 88.0 88.7 94.9	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0 103.2 99.2 98.3 78.4 76.0 86.9 82.9 93.4
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	327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325	$\begin{array}{c} 2.35\\ 2.74\\ 6.10\\ 5.67\\ 4.40\\ \hline \\ 2.13\\ 5.49\\ \hline \\ 3.15\\ 1.01\\ 2.65\\ \hline \\ 36.14\\ 12.17\\ .53\\ .19\\ 2.19\\ 1.30\\ 4.00\\ 12.01\\ \hline \end{array}$	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0 109.1 99.2 99.5 78.7 80.2 86.9 83.6 94.6 104.0	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8 107.8 98.4 98.4 98.8 78.3 81.6 86.9 84.4 90.9 103.5	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5 106.4 99.3 99.3 80.3 82.0 86.5 83.9 93.6 105.0	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7 104.1 99.7 99.6 80.6 84.1 86.5 85.1 92.8 106.1	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9 104.6 99.6 98.9 80.1 82.4 86.7 85.3 93.1 106.7	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4 101.9 99.6 98.5 80.6 80.4 86.9 85.1 93.9 106.8	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7 103.9 99.3 98.5 77.8 77.6 87.6 87.6 85.2 93.0 106.4	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4 103.0 99.5 98.3 78.2 77.6 88.0 83.7 94.9 107.1	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0 103.2 99.2 98.3 78.4 76.0 86.9 82.9 93.4 107.4
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)	327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 <b>1133,5111</b>	$\begin{array}{c} 2.35\\ 2.74\\ 6.10\\ 5.67\\ 4.40\\ \hline 2.13\\ 5.49\\ \hline 3.15\\ 1.01\\ 2.65\\ \hline 36.14\\ 12.17\\ .53\\ .19\\ 2.19\\ 1.30\\ 4.00\\ 12.01\\ \hline 3.73\\ \hline 1.59\\ \end{array}$	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0 109.1 99.2 99.5 78.7 80.2 86.9 83.6 94.6 104.0 102.6 79.7	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8 107.8 98.4 98.4 98.4 98.8 78.3 81.6 86.9 84.4 90.9 103.5 102.8 78.6	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5 106.4 99.3 99.3 80.3 80.3 80.3 80.3 82.0 86.5 83.9 93.6 105.0 102.4 79.1	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7 104.1 99.7 99.6 80.6 80.6 84.1 86.5 85.1 92.8 106.1 102.1 79.4	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9 104.6 99.6 98.9 80.1 82.4 86.7 85.3 93.1 106.7 101.6 77.6	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4 101.9 99.6 98.5 80.6 80.4 86.9 85.1 93.9 106.8 100.8 78.9	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7 103.9 99.3 98.5 77.8 77.6 87.6 87.6 87.6 85.2 93.0 106.4 100.0 78.7	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4 103.0 99.5 98.3 78.2 77.6 88.0 83.7 94.9 107.1 98.6 77.9	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0 103.2 99.2 98.3 78.4 76.0 86.9 82.9 93.4 107.4 98.1 77.1
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)	327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111 21	$\begin{array}{c} 2.35\\ 2.74\\ 6.10\\ 5.67\\ 4.40\\ \hline \\ 2.13\\ 5.49\\ \hline \\ 3.15\\ 1.01\\ 2.65\\ \hline \\ 36.14\\ 12.17\\ .53\\ .19\\ 2.19\\ 1.30\\ 4.00\\ 12.01\\ \hline \\ 3.73\\ \hline \\ 1.59\\ \hline \\ 14.22\\ \end{array}$	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0 109.1 99.2 99.5 78.7 80.2 86.9 83.6 94.6 104.0 102.6 79.7 119.6	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8 107.8 98.4 98.4 98.8 78.3 81.6 86.9 84.4 90.9 103.5 102.8 78.6 119.5	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5 106.4 99.3 99.3 80.3 82.0 86.5 83.9 93.6 105.0 102.4 79.1 118.3	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7 104.1 99.7 99.6 80.6 84.1 86.5 85.1 92.8 106.1 102.1 79.4 119.2	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9 104.6 99.6 98.9 80.1 82.4 85.3 93.1 106.7 101.6 77.6 118.6	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4 101.9 99.6 98.5 80.6 80.4 86.9 85.1 93.9 106.8 100.8 78.9 120.2	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7 103.9 99.3 98.5 77.8 77.6 87.6 87.6 85.2 93.0 106.4 100.0 78.7 119.4	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4 103.0 99.5 98.3 78.2 77.6 88.0 83.7 94.9 107.1 98.6 77.9 107.1 98.6 77.9	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0 103.2 99.2 98.3 78.4 76.0 86.9 82.9 93.4 107.4 98.1 77.1 118.2
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)	327 331 332 333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 <b>1133,5111</b>	$\begin{array}{c} 2.35\\ 2.74\\ 6.10\\ 5.67\\ 4.40\\ \hline 2.13\\ 5.49\\ \hline 3.15\\ 1.01\\ 2.65\\ \hline 36.14\\ 12.17\\ .53\\ .19\\ 2.19\\ 1.30\\ 4.00\\ 12.01\\ \hline 3.73\\ \hline 1.59\\ \end{array}$	100.0 94.6 99.5 98.8 116.8 104.2 110.4 88.3 77.0 109.1 99.2 99.5 78.7 80.2 86.9 83.6 94.6 104.0 102.6 79.7	92.6 98.9 98.3 118.3 102.9 108.2 89.3 77.8 107.8 98.4 98.4 98.4 98.8 78.3 81.6 86.9 84.4 90.9 103.5 102.8 78.6	95.7 100.0 98.9 119.1 103.9 107.6 89.1 76.5 106.4 99.3 99.3 80.3 80.3 80.3 80.3 82.0 86.5 83.9 93.6 105.0 102.4 79.1	92.3 99.3 97.4 118.3 105.9 107.8 89.8 77.7 104.1 99.7 99.6 80.6 80.6 84.1 86.5 85.1 92.8 106.1 102.1 79.4	92.7 99.0 99.5 120.3 106.3 97.2 88.9 76.9 104.6 99.6 98.9 80.1 82.4 86.7 85.3 93.1 106.7 101.6 77.6	94.7 98.0 98.6 120.0 109.3 106.0 90.7 77.4 101.9 99.6 98.5 80.6 80.4 86.9 85.1 93.9 106.8 100.8 78.9	94.7 97.8 98.9 119.6 107.3 105.7 83.5 75.7 103.9 99.3 98.5 77.8 77.6 87.6 87.6 87.6 85.2 93.0 106.4 100.0 78.7	91.9 97.9 97.7 120.9 106.7 100.0 77.9 75.4 103.0 99.5 98.3 78.2 77.6 88.0 83.7 94.9 107.1 98.6 77.9	91.9 97.3 99.8 120.6 106.6 103.5 75.9 77.0 103.2 99.2 98.3 78.4 76.0 86.9 82.9 93.4 107.4 98.1 77.1

r Revised. p Preliminary. Note. Refer to the notes for table 1.

## Table 5 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES 2017 = 100, seasonally adjusted

2023 2024 Nov.<sup>p</sup> Oct." Item proportion Mar. Apr. May June July<sup>r</sup> Aug." Sept.<sup>r</sup> **Total industry** 100.00 102.5 102.4 103.0 103.3 102.5 103.1 102.5 102.1 102.0 26.94 110.6 112.7 112.6 Energy 112.2 1131 114.1 113 5 1137 1139 Consumer products 5.49 94.7 99.8 100.4 101.9 101.9 101.1 99.2 101.6 100.3 Commercial products 2.76 107.9 109.3 110.6 112.9 111.5 111.8 112.0 112.1 110.4 Oil and gas well drilling 213111 .61 109.1 105.3 103.1 103.8 103.5 103.7 105.1 103.3 99.9 114.6 113.8 113.6 Converted fuel 5.15 109.6 110.2 112.1 113.6 114.3 113.2 Primary energy 12.93 119.1 119.6 119.3 120.6 119.7 120.9 118.9 120.1119.0 73.06 99.5 98.8 99.3 99.3 98.6 99.2 98.8 97.9 98.1 Non-energy 157.7 158.3 Selected high-technology industries 1 89 148 5 153.2 1547 152.6 153.8 156 5 156.6 3341 1593 169.0 170.6 160.1 163.2 160.0 160 5 161.8 Computers and peripheral equipment 23 166 5 Communications equipment 3342 .40 194.4 195.0 195.7 196.4 197.7 197.4 197.9 200.6 199.3 Semiconductors and related electronic components 3344 1.26 134.1 140.5 141.9 139.3 140.6 144.1 143.4 144.0 144.8 Excluding selected high-technology industries 71.17 98.3 97.4 97.9 98.0 97.2 97.9 97.5 96.5 96.7 Motor vehicles and parts 3361-3 5.49 110.4 108.2 107.6 107.8 97.2 106.0 105.7 100.0 103.5 101.7 108.1 Motor vehicles 3361 2.62124.1119.4117.9 119.1 117.6 117.0113.53363 102.5 Motor vehicle parts 2.31 102.0 102.2 102.0 96.0 100.0 100.8 97.1 99 5 Excluding motor vehicles and parts 65.69 97.3 96.6 97.2 97.3 97.2 97.3 96.8 96.2 96.2 19.27 100.9 100.9 100.8 100.6 100.5 100.6 Consumer goods 100.1100.3 100.8 7 4 9 89.9 90.0 Business equipment 89.6 891 90.2 89 5 85 9 83.4 83.8 Construction supplies 5.18 101.1 99.4 100.1 100.3 100.0 100.5 100.1 100.0 99.8 Business supplies 7.41 96.8 96.2 96.9 97.2 96.8 96.2 96.3 95.9 95.5 24.59 95.2 94.5 95.4 95.2 95.0 95.3 95.5 94.9 94.8 Materials Measures excluding selected high-technology industries Total industry 98.11 101.7 101.4 102.0 102.3 101.6 102.1 101.6 101.1 101.0 Manufacturing 73.17 98.3 97.5 98.2 98.2 97.5 98.1 97.6 96.8 97.0 Durable 35.58 98.5 97.7 98.1 97.7 96.5 97.7 96.9 95.3 95.9 Measures excluding motor vehicles and parts 94.51 102.1 102.1 102.8 103.0 102.9 103.0 102.4 102.3 101.9 Total industry Manufacturing 69.57 98.7 98.1 98.9 98.8 98.9 99.0 98.4 98.1 98.0 Durable 31.98 99.4 99.0 99.6 99.0 99.5 99.5 98.7 97.8 98.0 Measures excluding selected high-technology industries and motor vehicles and parts 101.2 101.1 101.8 101.9 101.4 101.2 100.9 92.63 102.1 101.9 Total industry Manufacturing 67.68 97.4 96.7 97.5 97.5 97.5 97.5 97.0 96.6 96.5 Stage-of-process components of non-energy materials, measures of the input to Finished processors 9.34 96.4 96.9 97 5 96.9 96.3 97.8 98.0 96.8 96.9 Primary and semifinished processors 18.02 97.9 96.9 97.3 97.5 96.8 97.1 96.7 97.8 97.7

r Revised. p Preliminary.

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

#### Table 6 Diffusion Indexes of Industrial Production

Percent												
Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2022	41.8	65.7	60.6	52.5	43.8	51.5	56.6	42.8	57.9	49.2	43.4	33.0
2023	68.7	46.5	42.4	57.2	52.9	41.8	53.5	52.2	52.9	46.5	47.1	49.2
2024	38.4	62.0	60.3	43.4	62.6	48.8	48.1	59.6	45.1	42.8		
Three months earlier												
2022	53.9	56.5	63.6	64.0	55.2	49.5	51.2	50.5	56.2	52.9	49.5	32.0
2023	45.5	48.1	53.2	48.8	51.9	50.2	52.2	46.8	53.5	46.1	45.8	48.8
2024	41.1	50.8	56.6	56.9	54.9	49.8	52.5	50.5	49.5	49.8		
Six months earlier												
2022	62.0	67.3	67.7	63.3	59.9	56.1	62.6	50.8	51.2	50.2	47.5	41.4
2023	42.8	43.4	40.4	46.1	48.1	51.5	46.8	47.5	53.2	46.1	42.4	47.8
2024	35.7	49.5	50.2	50.5	56.6	55.9	55.6	53.2	48.8	52.5		

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 57 5 5			1972-	1994-										
Item		2023	2023	95	2009	2024			2024					
Item		proportion	ave.	high	low	Q1	Q2 <sup>r</sup>	Q3 <sup>r</sup>	June <sup>r</sup>	July <sup>r</sup>	Aug. <sup>r</sup>	Sept. <sup>r</sup>	Oct.r	Nov. <sup>p</sup>
		proportion	ave.	mgn	10.0	QI	Q2	Q3	June	July	Aug.	Sept.	000	1404.
Total industry		100.00	79.7	84.8	66.6	77.7	78.0	77.6	78.2	77.6	77.9	77.4	77.0	76.8
											,			
Manufacturing <sup>1</sup>		75.87	78.3	84.4	63.5	77.1	77.1	76.7	77.2	76.6	77.0	76.6	75.9	76.0
Manufacturing (NAICS)	31-33	74.31	78.2	84.6	63.4	77.1	77.1	76.7	77.1	76.6	77.0	76.5	75.8	75.9
Durable manufacturing	221	38.31	76.9	83.5	58.3	75.8	75.6	74.7	75.3	74.4	75.2	74.6	73.3	73.6
Wood products	321	1.70	76.7	86.5	48.5	75.8	75.4	75.9	76.0	75.1	76.2	76.4	76.5	77.2
Nonmetallic mineral products	327	2.23	73.7	82.4	43.9	78.2	77.6	78.1	78.1	78.2	77.7	78.5	79.5	80.5
Primary metals	331	3.10	77.5	95.0	49.5	70.2	69.8	69.8	68.8	68.9	70.3	70.2	68.0	67.8
Fabricated metal products	332	6.22	78.4	83.3	64.4	76.9	76.8	75.9	76.7	76.5	75.7	75.6	75.7	75.2
Machinery	333	5.31	77.8	87.4	58.6	81.6	80.8	81.2	80.0	81.7	80.9	81.1	80.0	81.7
Computer and electronic products	334	4.57	77.4	83.7	69.7	75.4	75.5	75.2	74.9	75.8	75.2	74.6	75.0	74.4
Electrical equip., appliances,														
and components	335	2.07	81.9	92.3	66.4	79.6	80.0	82.4	81.3	81.4	83.7	82.0	81.5	81.3
Motor vehicles and parts	3361-3	5.91	75.0	87.3	33.1	72.8	73.0	69.3	72.8	65.5	71.4	71.0	67.0	69.2
Aerospace and miscellaneous														
transportation equipment	3364–9	3.58	73.8	72.1	72.0	70.0	70.7	69.3	71.0	70.3	71.7	66.0	61.6	60.0
Furniture and related products	337	1.11	77.4	82.7	52.3	69.0	69.8	69.8	70.3	69.8	70.5	69.1	69.1	70.7
Miscellaneous	339	2.51	77.1	80.9	68.1	80.7	77.8	74.7	76.0	75.9	73.6	74.7	73.7	73.4
Nondurable manufacturing		36.00	80.1	86.1	68.9	78.4	78.7	78.7	79.1	78.9	78.8	78.4	78.5	78.2
Food, beverage, and tobacco products	311,2	11.81	80.1	85.3	75.3	79.8	79.8	79.3	80.1	79.5	79.2	79.3	78.5	78.2
Textile and product mills	311,2	.61	78.1	91.5	54.1	68.1	79.8	79.3	70.9	79.3	79.2	69.1	69.6	79.1
Apparel and leather	315,4	.01	75.5		58.6	63.5	64.6	63.0	65.9	64.6	63.2	61.1	61.1	59.9
	313,6			87.3		82.0	82.2	82.6	82.1	82.3	82.5	83.2		
Paper Printing and suggest	322	2.16	86.5	92.7	72.8								83.6	82.6
Printing and support		1.35	79.2	85.3	58.6	73.9	75.3	75.7	75.8 90.2	75.9	75.6	75.6	74.2	73.5
Petroleum and coal products	324	3.65	85.4	91.1	75.9	90.4	89.8	90.9		90.6	91.4	90.6	92.5	91.1
Chemicals Plastics and rubber products	325 326	12.42	77.0	82.4 93.1	65.4 56.8	75.2	75.9 75.2	76.5 73.4	76.6	76.8 74.2	76.7 73.4	76.2 72.7	76.5 71.5	76.5
Thasties and Tubber products	520	5.17	01.5	25.1	50.0	15.1	13.2	75.4	/ 4. /	/4.2	75.4	12.1	/1.5	70.7
Other manufacturing (non-NAICS)	1133,5111	1.56	78.4	82.1	63.7	80.2	80.2	80.5	80.9	79.3	81.0	81.1	80.6	80.1
Mining	21	12.46	86.5	88.6	78.9	88.3	89.0	89.5	89.2	88.8	90.1	89.6	89.5	88.8
Utilities	2211,2	11.67	84.5	93.2	78.1	70.8	72.1	71.2	73.2	72.1	71.1	70.5	71.2	70.0
Selected high-technology industries		1.89	77.5	85.3	70.7	78.8	79.4	78.2	78.2	78.0	78.6	77.9	77.8	77.3
Computers and peripheral equipment	3341	.25	76.5	84.2	80.3	75.4	76.7	77.5	76.2	76.4	76.9	79.1	80.2	80.8
Communications equipment	3342	.45	75.3	85.1	76.7	74.7	73.5	72.1	73.0	72.8	72.0	71.6	71.9	70.7
Semiconductors and related														
electronic components	3344	1.19	79.3	92.8	63.2	80.8	81.8	80.3	80.2	80.0	81.1	79.8	79.2	78.8
Measures excluding selected high-technology industries														
Total industry		98.11	79.8	84.8	66.4	77.7	77.9	77.6	78.2	77.6	77.9	77.4	77.0	76.8
Manufacturing <sup>1</sup>		73.99	78.3	84.3	63.0	77.1	77.1	76.7	77.2	76.6	77.0	76.5	75.9	75.9
STAGE-OF-PROCESS GROUPS Crude		16.48	85.6	90.0	77.0	85.8	87.0	87.3	87.7	86.9	87.7	87.4	87.2	86.7
		10.40	0.00											
		16.61	80.2	875	627	76 /	76.6	76.2	76.0	76.2	765			
Primary and semifinished Finished		46.64 36.89	80.2 76.8	87.5 80.4	63.7 66.2	76.4	76.6 75.7	76.3 75.0	76.9 75.7	76.3 75.1	76.5 75.4	76.2 74.6	76.2 73.6	75.8 73.7

## Table 7 CAPACITY UTILIZATION Percent of capacity, seasonally adjusted

r Revised. p Preliminary. 1. The composition of manufacturing is specified in a note for the summary table.

#### Table 8 INDUSTRIAL CAPACITY Percent change

		Average a	nnual rate		Fourth	quarter to	o fourth c	uarter		Annua	l rate		Monthly rate
Item	1972-	1980-	1989-	1995-		-		-	2024				2024
	79	88	94	2024	2021	2022	2023	2024	Q1	Q2	Q3	Q4	Nov.
Total industry	3.1	1.9	2.3	1.6	-2.1	1.0	2.3	1.2	1.2	1.0	1.2	1.4	.1
Manufacturing <sup>1</sup>	3.3	2.2	2.6	1.4	-1.0	.4	1.2	1.3	1.3	1.3	1.3	1.4	.1
Mining	.7	.1	7	1.0	-9.8	3.5	3.4	8	4	-1.1	-1.1	6	.0
Utilities	4.4	2.2	1.8	1.8	1.3	2.3	3.6	3.6	3.4	3.5	3.6	3.7	.3
Selected high-technology industries	18.6	16.6	16.2	15.6	.1	4.4	9.8	12.0	11.9	12.1	12.1	11.9	.9
Manufacturing <sup>1</sup> ex. selected high-technology industries	2.6	1.2	1.7	.4	-1.1	.3	1.0	1.0	1.0	1.0	1.0	1.1	.1
STAGE-OF-PROCESS GROUPS		-	-	0		0.5	0.5	-	2	0	-		0
Crude	1.5	.5	5	.8	-8.1	2.5	2.7	5	3	8	7	2	.0
Primary and semifinished	3.0	1.3	2.6	1.6	-1.0	.6	1.7	1.6	1.6	1.5	1.5	1.6	.1
Finished	3.9	3.2	2.8	1.4	.1	.9	1.6	1.8	1.7	1.8	1.9	1.9	.2

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 2012 dollars at annual rate, seasonally adjusted 2024

Dimons of 2012 uonars at annual rate, seasona	ing adjusted										
			2024			2024					
Item	2017	2023	Q1	Q2 <sup>r</sup>	Q3 <sup>r</sup>	June <sup>r</sup>	July <sup>r</sup>	Aug. <sup>r</sup>	Sept. <sup>r</sup>	Oct.r	Nov. <sup>p</sup>
Final products and nonindustrial supplies	3,942.6	3,985.8	3,970.1	3,988.4	3,963.0	4,002.9	3,952.0	3,985.8	3,951.2	3,926.3	3,928.5
Final products	2,946.4	2,973.3	2,958.5	2,969.7	2,942.4	2,975.8	2,930.6	2,965.6	2,931.0	2,906.1	2,914.3
Consumer goods	2,153.2	2,187.4	2,176.3	2,186.2	2,169.6	2,190.8	2,155.3	2,184.0	2,169.4	2,166.6	2,166.0
Durable	530.6	569.5	568.5	561.3	541.7	558.8	518.1	554.6	552.2	532.8	542.4
Automotive products	375.2	413.2	410.3	406.7	387.1	404.9	362.2	401.8	397.3	377.8	385.4
Other durable goods	155.5	157.6	159.2	155.8	155.0	155.1	155.2	154.0	155.8	155.0	157.0
Nondurable	1,622.6	1,619.4	1,609.8	1,625.9	1,627.6	1,632.8	1,635.0	1,630.0	1,617.9	1,632.6	1,623.5
Equipment, total	793.2	791.5	787.7	788.9	777.8	790.3	780.8	786.8	765.8	742.3	751.7
Business and defense	770.0	766.4	763.9	765.9	754.6	767.5	757.8	763.7	742.3	718.9	729.1
Business	651.2	629.9	624.0	623.4	612.0	624.0	616.2	620.3	599.4	576.5	587.2
Defense and space	118.8	136.1	140.2	143.2	143.8	144.4	142.4	144.4	144.5	144.8	143.7
Nonindustrial supplies	996.2	1,012.8	1,011.8	1,018.9	1,020.6	1,027.1	1,021.3	1,020.3	1,020.1	1,019.9	1,014.1
Construction supplies	276.8	279.6	278.8	277.9	279.2	279.7	278.8	280.0	278.8	278.4	278.1
Business supplies	719.4	733.6	733.6	741.9	742.2	748.5	743.4	741.0	742.3	742.5	736.7
Commercial energy products	240.5	258.3	263.2	267.7	269.7	272.3	269.5	269.7	269.9	271.7	267.0

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

Percent change, seasonally adjusted

			rth quarte											
		fo fo	urth quar	ter	A	Annual r	ate			Month	ıly rate			Nov. '23
Item	2023				2024			2024						to
	gross value1	2021	2022	2023	Q1	Q2 <sup>r</sup>	Q3 <sup>r</sup>	June <sup>r</sup>	July <sup>r</sup>	Aug. <sup>r</sup>	Sept. <sup>r</sup>	Oct.r	Nov. <sup>p</sup>	Nov. '24
Finished	2,533.9	1.2	3.2	2	2	2	-4.3	1	-1.6	1.3	-1.0	-1.6	.8	-2.8
Semifinished	1,980.2	2.6	1.7	-1.0	1.6	4.1	-1.1	.2	9	.4	1	1	4	.3
Primary	1,456.8	7.4	7	.3	-3.0	2.4	1.1	.2	5	.5	4	.8	7	1
Crude	745.3	6.0	.2	2.5	-6.7	5.1	.9	1.1	-1.1	.6	.0	6	2	5

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1. Billions of 2012 dollars.

P Gencent change?         7         0         8         5         4         8         0         1         1        3         5         6         29         4.2         5.4         1 <th>Seasonally adjusted</th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>~</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Seasonally adjusted	-								~								
change?	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
3020         7         0         8         5         4         8         0         1         1         1.5         5         6         20         2.5         2.3         2.5         2.3         2.5         2.3         2.5 <th2.5< th=""> <th2.5< th=""> <th2.5< th=""></th2.5<></th2.5<></th2.5<>	IP (percent																	
2030       38       31       3.3       6.6       0       1       5.7       7.3       1       1       9       2.8       2.9       2.7       2.9       1.9       1.0         2006       3       0       2       1       1       1       9       2.8       2.9       2.3       3.8       2.9       2.3       3.8       2.9       2.3       3.8       1.0       1.1       3       3       2.3       1.0       3.3       1.0       1.0       2.3       2.3       3.3       3.3       1.0       1.1       4       2.9       2.3       4.1       1.0       1.0       2.3       1.1       4.4       2.8       1.0       1.4       4.7       4.4       1.1       3.4       2.8       1.0       6.5       1.1       4.1       1.1       3.4       2.8       1.0       6.5       1.1       4.1       1.1       3.4       2.8       1.0       1.0       1.0       1.1       1.1       3.4       1.1       3.4       3.4       3.3       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1       1.1				_	_							_	-					-
2004         2         6         -4         4         7         -1         4         7         1         1         9         2         8         2         2         2.3         2.3         2.3         3         3         -1         2         1.1         5         5         7         2.3         1.1         3         1.2         1.1         5         5         7         2.3         1.1         3         2.4         1.0         3         2.4         1.0         3         2.4         1.0         3         2.2         1.0         3         2.2         1.0         3         2.2         1.0         3         2.2         1.0         3         2.2         1.0         3																		.3
2005         4         7         -1         2         1         4         -2         -1         0         10         3         -1.1         10         3         -1.2         3.3         -1.3         2.3         2.3         2.3         2.3         2.3         2.3         2.3         2.3         2.3         2.3         2.3         2.3         2.4         1.0         2.3         2.4         1.0         2.3         2.4         1.0         2.3         2.4         2.3         2.3         2.1         0.4         2.7         1.4         2.7         1.4         2.2         2.2         2.3         3.4         3.3         3.5         6         -1         7         0         5         2.2         1.6         6.5         2.2         1.6         6.5         2.2         1.6         6.5         2.2         1.1         1.4         2.2         1.5         0         0.2         2.2         1.5         0.4         2.2         1.5         0.1         2.2         1.5         0.1         2.2         1.5         0.1         2.2         1.5         0.1         2.2         1.5         0.1         2.2         1.5         1.1         1.1         1.1																		2.7
1007         -4         1.0         2         7.7         1.         0         -2         2.2         2.3         6.4         1.4         4.7         4.4         1.4         4.7         4.4         1.4         4.7         4.8         1.4         4.7         2.8         3.6         1.4         4.3         3.4         4.1         4.7         2.8         4.60         3.7         4.10         3.7         4.1         4.3         3.4         4.1         4.7         3.4         4.1         4.7         4.8         3.4         4.7																		3.4
2008         1.1         .4         .3         .7         .5         .6         .3         .5         1.6         .4         .4         .3         .207         .10         .59         1.28         .11         .59         1.28         .11         .59         1.28         .11         .59         1.28         .11         .59         1.28         .11         .59         1.28         .11         .59         1.28         .11         .59         1.28         .11         .11         .21         .11         .50         1.28         .11 <td></td> <td>.2</td> <td>.0</td> <td>.2</td> <td></td> <td>.0</td> <td>.3</td> <td>1</td> <td>.4</td> <td>2</td> <td>1</td> <td>.0</td> <td></td> <td>3.9</td> <td></td> <td></td> <td>1.0</td> <td>2.3</td>		.2	.0	.2		.0	.3	1	.4	2	1	.0		3.9			1.0	2.3
2008         1.1         .4         .3         .7         .5         .6         .3         .5         1.6         .4         .4         .3         .207         .10         .59         1.28         .11         .59         1.28         .11         .59         1.28         .11         .59         1.28         .11         .59         1.28         .11         .59         1.28         .11         .59         1.28         .11         .59         1.28         .11         .11         .21         .11         .50         1.28         .11 <td>2007</td> <td></td> <td>1.0</td> <td>2</td> <td>-</td> <td></td> <td>0</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> <td></td> <td>4.1</td> <td>47</td> <td></td> <td>1.2</td> <td>24</td>	2007		1.0	2	-		0	2	2	2	2			4.1	47		1.2	24
2009         -2.5         -6         -1.6         -8         -1.0         -3         1.2         1.1         9         2.2         4         -3         1         10         707         -10.6         6.9         6.4         -1.7         5.0           2011         -2         -4         1.0         -3         .1         3         5         6         -1         7         0         3         20         6.0         5.0         2.0         0.0         3         1.6         1.6         0.0         7         0.0         6         0         2.2         5.0         0.0         0         2.2         5.0         0.0         0         2.2         5.0         0.0         0         0         0         0         2.2         0         0         0         0         2.2         0         3         0         0         1.0         1.1         1.4         7         0         1.5         0         1.0         1.1         1.1         1.1         1.1         1.1         1.1         1.1         0.0         1.0         1.1         1.1         0.0         1.0         1.1         1.1         1.1         1.1         1.1         1.1																		
2010       1.1       4.       7.4       1.4       7.2       7.4       1.4       3       2.4       1.4       3       5       6       1       7       0       5       22       1.6       4.5       4.5       3.5         2012       6.6       3       -5       7       2       0       2       2.4       -1       3.3       4.3       3.2       3.1       1.0       4.5       4.5       3.2       3.1       3.2       3.1       1.0       4.5       3.2       3.2       3.2       3.2       3.1       4.0       2.5       0.2       3.4       3.3       3.4       3.3       3.3       3.4       3.4       3.3       3.2       3.4       3.3       3.2       3.4       3.3       3.2       3.4       3.3       3.2       3.4       3.3       3.2       3.4       3.3																		-11.4
2012         6         3         -5         7         2         0         2         -4         -1         3         4         3         40         2         5         0         3           2013         0         5         4         -1         1         1         2         -2         3         0         6         0         2         1         1         1         3         2         1	2010		.4		.4	1.4	.2	.4	.4	.3	3	.1		7.9	8.0	5.4	1.7	5.6
2013       0       5       4       -1       1       1       2       -3       6       5       -1       3       2       3       0       6       0       27       56       23       24       3         2016      8      6      5      3       6.      2      3      5      7      5      4      4       5.4      5      4       5.4      2      5       1      1       1       1.4      4      7      2      4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .5       .4       .5       .5       .4       .6       .5       .4       .6       .5       .4       .5       .5       .4       .1       .4       .1       .4       .1       .4       .1       .1       .6       .5       .6       .5       .1       .1       .6       .5       .6       .5       .1       .1       .6       .2       .7       .3       .2       .3 <td>2011</td> <td>2</td> <td>4</td> <td>1.0</td> <td>3</td> <td>.1</td> <td>.3</td> <td>.5</td> <td>.6</td> <td>1</td> <td>.7</td> <td>.0</td> <td>.5</td> <td>2.2</td> <td>1.6</td> <td>4.5</td> <td>4.2</td> <td>3.1</td>	2011	2	4	1.0	3	.1	.3	.5	.6	1	.7	.0	.5	2.2	1.6	4.5	4.2	3.1
2013       0       5       4       -1       1       1       2       -3       6       5       -1       3       2       3       0       6       0       27       56       23       24       3         2016      8      6      5      3       6.      2      3      5      7      5      4      4       5.4      5      4       5.4      2      5       1      1       1       1.4      4      7      2      4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .4       .5       .5       .4       .5       .5       .4       .6       .5       .4       .6       .5       .4       .5       .5       .4       .1       .4       .1       .4       .1       .4       .1       .1       .6       .5       .6       .5       .1       .1       .6       .5       .6       .5       .1       .1       .6       .2       .7       .3       .2       .3 <td>2012</td> <td>6</td> <td>3</td> <td>- 5</td> <td>7</td> <td>2</td> <td>0</td> <td>2</td> <td>- 4</td> <td>- 1</td> <td>3</td> <td>4</td> <td>3</td> <td>4.0</td> <td>25</td> <td>0</td> <td>2.0</td> <td>3.0</td>	2012	6	3	- 5	7	2	0	2	- 4	- 1	3	4	3	4.0	25	0	2.0	3.0
2014        4        3         1.0         1.         4.         3.         2         2.         3.         0.         6.         0.         2.7         5.         2.3         2.5         3.         7.         7.5         7.5         7.2         7.4         5.1         1.1         2.         2.5         1.1         1.1         1.1         1.1         1.1         1.1         2.5         3.         3.5         8.1         1.4         5.8         1.1         1.1         2.5         3.5         1.1         1.1         1.1         2.5         1.1         1.1         2.5         1.1         1.1         2.5         1.1         1.1         2.5         1.5         1.1         1.1         2.5         1.5         1.1         2.5         1.5         1.1         2.5         1.5         1.1         1.1         2.5         1.5         1.1         1.1         2.5         1.4         1.1         1.5         2.5         1.1         1.1         1.5         2.5         1.1         1.1         1.6         2.6         5.1         4.1         3.3         1.2         1.8         2.4         2.3         1.2         1.8         2.6         1.1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.0</td></t<>																		2.0
2016         .5        5        8         .3        2         .5         .1        1        1        4        7        2        2        4         .11        2         .2         .2        3         .58        14         .15         .8        1        1        1        2        1        1        2        1        1        2        1        1        1        2        1	2014	4	.8	1.0	.1	.4	.3	.2	2	.3	.0	.6	.0	2.7	5.6	2.3	2.4	3.0
OTT         -2         -4         6         10         1         2         -2         -5         1         1.2         3         2.2         3         5.8         -14         5.8         1           2018         -0         -2         5         1.1         1.5         5.8         1.1         0         -2         1.0         0         2.2         4.7         3.4         5.8         -1.4         5.8         0         -2.2         1.1         0.4         0         0         7.7         4.5         0         -2.2         0.4         0.4         0.4         0.2         0         0.4         8.8         2.2         1.1         -1         2.2         1.7         3.3         -1.2         3.9         3.9         1.4         -1.8         3.3           2021         0.0         6         8.8         .2         1.1         -1.2         1.4         -1.1         -3.3         -1.2         3.9         3.9         1.4         -1.8         3.3           2022         10.2         10.2         10.2         10.2         10.3         10.3         10.3         10.2         10.2         10.2         10.2         10.2         10.2<																		-1.4
2018         0         2         5         1.1         -9         8         1.1         -7         0         -2         1         0         2.2         4.7         -3.4         0         -5.           2020        6         -3         -10         -13.2         1.6         6.6         3.6         1.0         0         -7         4         1.3         -6.5         -4.2         0         -2.5         -2.3         0         -2.0         4.2         0.5         -2.5         -2.3         -2.3         0         -2.0         1.1         1.1         6.5         2.6         7.7         0         -2         -7         -3         -2         0         .3         1.2         -1.8         -2         -6         -7         0         2         -7         -3         -2         0         .3         1.2         1.8         -2         -6         -7         0         2         -7         -3         -2         0         .3         1.02         1.8         1.03         1.031         1.031         1.031         1.031         1.031         1.031         1.031         1.031         1.031         1.031         1.031         1.031         1.031 <td>2016</td> <td>.5</td> <td>5</td> <td>8</td> <td>.3</td> <td>2</td> <td>.5</td> <td>.1</td> <td>1</td> <td>1</td> <td>.1</td> <td>4</td> <td>.7</td> <td>-2.7</td> <td>-1.4</td> <td>1.1</td> <td>2</td> <td>-2.1</td>	2016	.5	5	8	.3	2	.5	.1	1	1	.1	4	.7	-2.7	-1.4	1.1	2	-2.1
2018         0         2         5         1.1         -9         8         1.1         7         0         -2         1         0         22         4.7         3.4         6         3.3         0         2.5         3.7         2.3         0         2.0         3.7         2.3         0         2.0         3.7         2.3         0         2.0         3.7         3.4         0         1.5         8         3.7         9         6         3.2         3.7         0         2.0         3.6         2.2         1.1         1.1         2.5         1.4         1.4         1.4         1.4         1.4         3.1         2.5         1.4         4.4         4.6         1.1         1.2         2.2         6.7         7.5         5.5         7.4         1.1         1.8         2.4         6.6         1.0         1.0         3.1         1.1         1.8         2.4         6.6         1.0         1.0         3.1         1.0         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1	2017	2	4	.6	1.0	.1	.2	2	5	.1	1.2	.3	.2	.3	5.8	-1.4	5.8	1.3
2020         -6         -3         -4         -1.3         -6         -4.2.0         4.2.8         6.9         -7.           2021         -6         -3.3         2.8         .1         9         .5         .4         .0         -1.0         1.4         .9        1         1.1         .6.5         2.6         5.1         .4           2023         9         .1         0.0         .4         -2         .6         .7         0         .2         .7.         .3         .2         .9         .3         1.2         -1.8         .3           2023         9         .1         1.2         .2         .2         .6         .3         .7.         .5         .5         .4         .1         .1.8         2.4         .6         1.2         1.8         .2         .4         .6         1.2         1.8         .2         1.8         .2         1.8         .2         1.8         .2         1.8         1.2         1.8         1.2         1.8         1.0         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2																		3.2
2021         6         -3.3         2.8         1         9         5         4         0         -1.0         1.4         9         -1.1         1.6         5         2.6         5.1         4.4           2023         9         1         0         4         -2         -6         7         0         2         -7         3         -2         0.0         3         1.2         1.8         3.2           2024         -1.1         1.2         -2         -2         6.6         3         -7         5         -5         -4         -1         1.8         2.4         -6         7           2021         101.2         101.8         102.7         102.9         103.0         102.4         103.1         103.1         102.5         103.1         102.5         102.1         102.6         102.8         102.9         103.2         102.7         102.9         102.7         102.9         103.2         102.7         102.1         102.6         102.8         102.9         103.2         102.8         102.7         102.8         102.1         102.6         102.7         102.9         102.7         102.8         102.1         102.6         102.8																		7
2022         0         6         8         2         1         -1         2         1         4         -1         -3         -1.2         3.9         3.9         1.4         -1.8         2           2023         9         1         0.0         4         -22         -6         7         0         2         -7         3         -2         0         3         1.2         1.8         3           2024         -1.1         1.2         -2         -2         6         3         -7         5         -5         -4         -1         -1.8         2.4         -6         10.5         10.2         10.3         10.2         10.3         10.3         10.3         10.3         10.3         10.3         10.2																		-7.1 4.4
2023         9         1         0         4         -2         -6         7         0         2         -7         3         -2         0.0         3         1.2         1.18         22           2024         -1.1         1.2         -2         -2         6         3         -7         5         -5         -4         -1         -18         2.4         -6         -18         2.4         -6         -18         2.4         -6         -18         2.4         -6         -18         2.4         -6         -18         2.4         -6         -18         2.4         -6         -18         2.4         -6         -18         2.4         -6         -18         2.4         -6         -102.5         102.6         102.8         102.7         102.8         102.7         102.8         102.7         102.8         102.7         102.7         102.4         103.1         103.1         103.0         103.0         130.7         130.9         131.1         131.2         131.6         131.7         131.8         130.0         130.7         130.7         130.9         131.1         131.2         131.5         131.2         130.0         130.7         130.7         13	2021	.0	5.5	2.0	.1	.,			.0	1.0	1.1	.,	.1	1.1	0.5	2.0	5.1	
2024         -1.1         1.2        2 </td <td></td> <td>3.4</td>																		3.4
IP (2017=100)         102         101.8         102.7													2				-1.8	.2
2022         101.2         101.8         102.7	2024	-1.1	1.2	2	2	.0	.5	/	.5	5	4	1		-1.0	2.4	0		
2023       102.7       102.8       102.8       102.4       103.1       103.1       103.1       103.1       102.6       102.6       102.6       102.8       102.9       103.2       102.7       102.8       102.9       103.2       102.7       102.8       102.9       103.2       102.7       102.8       102.2       102.9       102.7       102.8       102.8       102.8       102.8       102.8       102.8       102.8       102.8       102.8       102.8       102.8       102.8       102.8       102.8       102.8       102.8       102.8       129.1       129.4       127.0       127.2       127.4       127.7       128.8       128.5       126.8       126.9       127.0       127.2       127.4       127.5       128.6       128.5       128.6       128.1       131.0       131.7       131.8       131.9       132.2       132.2       132.8       131.1	<b>IP</b> (2017=100)																	
2024         101.5         102.7         102.5         102.4         103.0         103.3         102.5         103.1         102.0         102.2         102.9         102.7         Image: the standing stan																		102.7
Capacity (percent of 2017 onpun)         Product State         State <td></td> <td>102.6</td> <td></td> <td></td> <td></td> <td>102.7</td> <td>102.9</td>													102.6				102.7	102.9
2024       131.5       131.6       131.7       131.8       131.9       132.0       132.2       132.3       132.6       132.8       132.8       131.6       131.9       132.3       132.5       132.6       132.8       131.6       131.9       132.3       132.5       132.6       132.8       131.6       131.9       132.3       132.5       132.6       132.8       132.8       131.6       131.9       132.3       132.5       132.6       132.8       131.6       131.9       132.3       132.5       132.6       132.8       131.6       131.9       132.3       132.5       132.6       132.8       131.6       131.9       132.3       132.5       132.6       132.8	(percent of 2017 output)	126.8	126.7	126.8	126.8	126.9	127.0	127.2	127.4	127.7	127.9	128.2	128.5	126.8	126.9	127.4	128.2	127.3
Utilization (percent)         74.0         73.9         74.4         74.7         74.9         75.5         75.5         75.4         75.5         75.7         75.3         75.7         75.3         74.1         75.1         75.4         75.4         75.5         75.5         75.5         75.5         75.5         75.5         75.5         75.5         75.5         75.5         75.5         75.5         75.5         75.5         75.5         75.5         75.5         75.6         76.0         77.0         77.1         76.0         75.5         75.6         76.0         77.9         77.4         77.9         78.4         79.4         78.2           2005         80.1         80.6         80.7         80.8         80.7         80.8         80.6         80.7         80.4         80.6         78.8         79.7         78.0         80.4         80.6         80.3         80.0         80.6         80.7         80.8         80.6         80.7         80.4         80.5         80.9         80.7         80.8         80.6         80.7         80.8         80.6         80.7         80.8         80.6         80.7         80.8         80.6         80.7         80.4         80.7         80.4 <td>2023</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>131.1</td> <td>131.2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>130.3</td>	2023										131.1	131.2						130.3
(percent)	2024	131.5	131.6	131.7	131.8	131.9	132.0	132.2	132.3	132.5	132.6	132.8		131.6	131.9	132.3		
2002         74.0         73.9         74.4         74.7         74.9         75.5         75.5         75.4         75.3         75.7         75.3         74.1         75.1         75.4         75.4         75.3         75.7         75.3         75.1         75.4         75.4         75.5         75.5         75.5         75.5         75.6         76.0         75.9         76.4         76.5         77.0         77.1         76.0         75.5         76.1         76.9         76.4         77.9         78.4         77.9         78.4         77.9         78.4         77.9         78.4         77.9         78.4         77.9         78.4         77.9         78.4         77.9         78.4         79.4         77.9         78.4         79.4         77.9         78.4         79.4         77.9         79.4         77.9         78.4         80.4         80.7         80.4         80.7         80.4         80.7         80.4         80.7         80.4         80.6         80.7         80.8         80.6         80.8         80.6         80.7         80.4         80.7         80.4         80.7         80.4         80.7         80.4         80.7         80.4         80.7         80.4 <th< td=""><td>Utilization</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Utilization																	
2003       76.0       76.1       75.9       75.5       75.5       75.6       76.0       75.9       76.4       76.5       77.0       77.1       76.0       75.5       76.1       76.9       76.2         2004       77.2       77.7       77.4       77.7       78.3       77.7       78.3       78.4       78.5       79.1       79.9       77.4       77.9       78.4       79.4       78.8         2005       80.1       80.6       80.4       80.5       80.5       80.7       80.4       80.5       80.5       80.7       80.4       80.5       80.5       80.7       80.8       80.6       80.7       80.8       80.6       80.7       80.8       80.6       80.7       80.8       80.6       80.7       80.8       80.6       81.1       80.5       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       <																		
2004       77.2       77.7       77.4       77.7       78.3       77.7       78.3       78.4       78.5       79.1       79.3       79.9       77.4       77.9       78.4       79.4       78.2         2005       80.1       80.6       80.4       80.5       80.7       80.4       80.5       78.8       79.7       80.4       80.7       80.4       80.6       78.9       80.4       80.6       78.9       80.4       80.7       80.8       80.6       80.7       80.8       80.6       80.7       80.8       80.6       80.7       80.8       80.6       81.1       80.7       80.8       80.6       81.0       81.1       80.8       80.7       80.8       80.6       81.0       81.1       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9       80.7       80.9																		75.0
2005         80.1         80.6         80.4         80.5         80.7         80.4         80.5         78.8         79.7         80.4         80.7         80.6         79.9         80.3         80.3           2006         80.7         80.6         80.7         80.8         80.7         80.8         80.5         80.2         80.0         80.6         80.7         80.8         80.6         80.3         80.2           2007         80.1         80.7         80.7         80.8         80.6         80.7         80.8         80.6         81.1         80.5         80.7         80.8         80.6         81.1         80.5         80.7         80.8         80.6         81.0         81.1         80.7         80.8         80.6         81.0         81.1         80.5         77.8         77.1         77.5         77.9         74.4         75.0         74.0         71.8         80.7         80.8         69.1         69.5         69.8         69.2         67.0         68.2         67.0         73.1         74.5         75.0         75.3         75.0         75.7         75.9         76.2         76.6         76.4         76.8         76.7         76.8         77.0         77.1<																		
2007         80.1         80.7         81.0         80.9         80.8         80.6         80.7         78.0         80.6         80.7         74.4         75.0         74.0         71.8         80.9         78.7         77.7         77.5         79.2         77.9         74.4         75.0         74.0         71.8         80.9         97.8         77.1         73.6         77.7           2009         69.9         69.4         68.2         67.6         66.9         66.6         67.4         68.2         68.9         69.1         69.5         69.8         69.2         67.0         68.2         69.5         68.8           2010         70.7         71.1         71.8         72.2         73.3         73.6         74.1         74.5         74.8         76.7         76.9         75.6         75.8         76.4         76.8         70.7         75.6         75.8         76.4         76.8         70.7         75.6         75.8         76.4         76.8         70.7         77.1         77.7         77.8         77.1         77.7         77.8         77.1         77.7         77.8         77.7         77.8         77.7         77.8         77.7         77.8         77.7<																		80.3
2008         81.1         80.8         80.7         80.2         79.7         79.5         79.2         77.9         74.4         75.0         74.0         71.8         80.9         79.8         77.1         73.6         77.1           2009         69.9         69.4         68.2         67.6         66.9         66.6         67.4         68.2         68.9         69.1         69.5         69.8         69.2         67.0         68.2         69.5         68.8           2010         70.7         71.1         71.8         72.2         73.3         73.6         74.1         74.5         74.8         74.7         74.8         75.6         75.8         76.4         76.8           2011         75.5         75.2         76.0         75.7         75.7         75.9         76.2         76.6         76.4         76.8         76.9         75.6         75.8         76.4         76.8         76.9         77.1         77.1         77.2         77.2         77.2         77.2         77.2         77.2         76.9         77.3         77.7         77.8         77.1         77.1         77.2         77.3         77.7         77.8         77.1         77.2         76.8 <td>2006</td> <td></td> <td>80.6</td> <td>80.7</td> <td>80.8</td> <td></td> <td></td> <td>80.6</td> <td></td> <td></td> <td>80.2</td> <td>80.0</td> <td></td> <td>80.7</td> <td>80.8</td> <td>80.6</td> <td></td> <td>80.6</td>	2006		80.6	80.7	80.8			80.6			80.2	80.0		80.7	80.8	80.6		80.6
2008         81.1         80.8         80.7         80.2         79.7         79.5         79.2         77.9         74.4         75.0         74.0         71.8         80.9         79.8         77.1         73.6         77.1           2009         69.9         69.4         68.2         67.6         66.9         66.6         67.4         68.2         68.9         69.1         69.5         69.8         69.2         67.0         68.2         69.5         68.8           2010         70.7         71.1         71.8         72.2         73.3         73.6         74.1         74.5         74.8         74.7         74.8         75.6         75.8         76.4         76.8           2011         75.5         75.2         76.0         75.7         75.7         75.9         76.2         76.6         76.4         76.8         76.9         75.6         75.8         76.4         76.8         76.9         77.1         77.1         77.2         77.2         77.2         77.2         77.2         77.2         76.9         77.3         77.7         77.8         77.1         77.1         77.2         77.3         77.7         77.8         77.1         77.2         76.8 <td>2007</td> <td>80.1</td> <td>80.7</td> <td>80.7</td> <td>81.0</td> <td>80.0</td> <td>80.8</td> <td>80.6</td> <td>80.7</td> <td>80.8</td> <td>80.6</td> <td>81.0</td> <td>811</td> <td>80.5</td> <td>80.0</td> <td>80.7</td> <td>80.0</td> <td>80.6</td>	2007	80.1	80.7	80.7	81.0	80.0	80.8	80.6	80.7	80.8	80.6	81.0	811	80.5	80.0	80.7	80.0	80.6
2009         69.9         69.4         68.2         67.6         66.9         66.6         67.4         68.2         68.9         69.1         69.5         69.8         69.2         67.0         68.2         69.5         68.2           2010         70.7         71.1         71.8         72.2         73.3         73.6         74.1         74.5         74.8         74.7         74.8         75.6         71.2         73.1         74.5         75.0         73.2           2011         75.5         75.2         76.0         75.7         75.9         76.2         76.6         76.4         76.8         76.7         76.9         75.6         75.8         76.4         76.8         76.7           2012         77.2         77.3         77.2         77.2         77.2         76.9         77.3         77.7         77.8         77.1         77.2         77.3         77.7         77.5         77.7         77.8         77.1         77.2         77.3         77.1         77.5         77.7         77.8         77.1         77.2         77.3         77.3         77.7         77.8         77.1         77.2         77.3         77.3         77.5         77.5         75.8 <td></td> <td>77.8</td>																		77.8
2011       75.5       75.2       76.0       75.7       75.9       76.2       76.6       76.4       76.8       76.7       76.9       75.6       75.8       76.4       76.8       76.7         2012       77.2       77.3       76.8       77.2       77.2       77.1       77.1       76.7       76.5       76.7       76.8       77.0       77.1       77.2       76.8       76.8       77.1       77.2       77.2       77.2       76.9       77.3       77.7       77.5       77.7       77.8       77.1       77.2       77.3       77.7       77.8       77.1       77.2       77.3       77.7       77.8       77.1       77.2       77.3       77.7       77.8       77.1       77.2       77.3       77.7       77.8       77.1       77.2       77.3       77.7       77.8       77.1       77.2       77.3       77.7       77.3       77.1       77.3       77.7       77.8       77.1       77.2       77.3       77.7       77.3       77.1       77.8       77.1       77.8       77.1       77.8       77.1       77.8       78.0       78.0       78.0       78.0       78.0       78.5       75.5       75.5       75.5	2009	69.9			67.6	66.9							69.8	69.2			69.5	68.5
2012         77.2         77.3         76.8         77.2         77.1         77.1         76.7         76.5         76.7         76.8         77.0         77.1         77.2         77.3         77.2         77.3         77.7         77.5         77.7         77.8         77.1         77.2         77.3         77.7         77.3         77.1         77.8         77.1         77.2         77.3         77.7         77.3         77.1         77.8         77.1         77.2         77.3         77.7         77.3         77.3         77.7         77.3         77.3         77.7         77.3         77.3         77.3         77.3         77.3         77.3         77.3         77.3         77.3         77.3         77.3         77.3         77.3         77.3         77.3         77.3 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>73.4</td></th<>																		73.4
2013       76.8       77.1       77.3       77.2       77.2       76.9       77.3       77.7       77.8       77.1       77.2       77.3       77.7         2014       77.5       78.0       78.7       78.7       79.0       79.1       79.2       79.1       79.6       79.5       78.0       78.9       79.2       79.4       78.3       77.7       77.3       77.7       77.8       77.1       77.2       77.3       77.7       77.3       77.1       77.2       77.3       77.7       77.3       77.1       77.2       77.3       77.7       77.3       77.1       77.2       77.3       77.7       77.3       77.1       77.2       77.3       77.7       77.3       77.1       77.2       77.3       77.7       77.3       77.1       77.8       77.1       77.6       75.5       75.5       75.8       75.8       75.6       75.5       75.5       75.5       75.5       75.5       75.8       75.6       75.5       75.5       75.8       75.6       75.5       75.5       75.8       75.6       75.5       75.5       75.8       75.6       75.5       75.6       75.8       75.6       75.5       75.5       75.8       75.8	2011	75.5	75.2	76.0	15.7	75.7	75.9	76.2	76.6	76.4	76.8	76.7	76.9	75.6	75.8	76.4	76.8	76.1
2013       76.8       77.1       77.3       77.2       77.2       76.9       77.3       77.7       77.8       77.1       77.2       77.3       77.7         2014       77.5       78.0       78.7       78.7       79.0       79.1       79.2       79.0       79.2       79.1       79.6       79.5       78.0       78.9       79.2       79.4       78.3         2015       78.8       78.3       78.0       77.5       77.2       76.9       77.4       77.3       77.1       76.6       79.5       78.0       78.9       79.2       79.4       78.3         2016       76.2       75.8       75.2       75.5       75.3       75.6       75.7       75.6       75.5       75.5       75.8       75.6       75.5       75.6       75.5       75.6       75.5       75.6       75.5       75.6       75.6       75.6       75.5       75.6       75.5       75.6       75.8       75.6       75.5       75.6       75.5       75.6       75.8       75.6       75.5       75.6       75.8       75.6       75.5       75.6       75.8       75.6       75.6       75.5       75.6       75.8       75.6       75.6 <t< td=""><td>2012</td><td>77.2</td><td>77.3</td><td>76.8</td><td>77.2</td><td>77.2</td><td>77.1</td><td>77.1</td><td>76.7</td><td>76.5</td><td>76.7</td><td>76.8</td><td>77.0</td><td>77.1</td><td>77.2</td><td>76.8</td><td>76.8</td><td>77.0</td></t<>	2012	77.2	77.3	76.8	77.2	77.2	77.1	77.1	76.7	76.5	76.7	76.8	77.0	77.1	77.2	76.8	76.8	77.0
2015       78.8       78.3       78.0       77.5       77.2       76.9       77.4       77.3       76.1       76.8       76.2       75.8       75.5       75.6       75.5       75.5       75.6       75.5       75.5       75.6       75.5       75.5       75.6       75.5       75.5       75.6       75.5       75.5       75.6       75.6       75.5       75.5       75.6       75.5       75.5       75.6       75.5       75.5       75.6       75.5       75.5       75.6       75.5       75.5       75.6       75.5       75.5       75.5       75.5       75.5       75.5       75.6       75.5       75.5       75.5       75.5       75.5       75.5       75.5       75.5       75.6       75.5       75.5       75.5       75.5       75.5       75.5       75.5       75.5       75.5       75.5       75.5       75.5																		77.3
2016       76.2       75.8       75.2       75.8       75.8       75.5       75.5       75.5       75.5       75.5       75.5       75.8       75.8       75.5       75.6       75.5       75.6       75.5       75.6       75.8       75.6       75.5       75.6       75.8       75.6       75.5       75.6       75.8       75.6       75.5       75.6       75.8       75.6       75.6       75.5       75.6       75.6       75.6       75.5       75.6																		78.9
2017         75.6         75.3         75.8         76.6         76.8         77.0         76.9         76.6         76.8         77.8         78.1         78.4         75.6         76.8         76.8         78.1         78.4         75.6         76.8         76.8         78.1         78.4         75.6         76.8         76.8         78.1         78.4         75.6         76.8         76.8         78.1         78.4         75.6         76.8         76.8         78.1         78.4         75.6         76.8         76.8         78.1         78.4         75.6         76.8         76.8         78.1         78.4         75.6         76.8         76.8         78.1         78.4         75.6         76.8         76.8         76.4         79.2         78.7         78.7         78.8         78.3         78.8         78.5         77.7         78.1         77.9         79.4         78.7         78.5         77.9         78.3           2020         77.4         77.7         74.6         64.7         65.7         70.1         72.8         73.6         73.7         74.3         74.7         75.9         76.5         66.9         73.3         75.0         77.2           2021<																		77.3
2018       78.5       78.7       79.1       80.0       79.3       80.0       80.1       80.6       80.4       80.4       80.4       78.8       79.8       79.8       79.2       78.7       78.7       78.8       78.3       78.8       78.5       77.7       78.1       77.9       79.4       78.7       78.5       77.9       78.8         2020       77.4       77.7       74.6       64.7       65.7       70.1       72.8       73.6       73.7       74.3       74.7       75.9       76.5       66.9       73.3       75.0       72.2         2021       76.5       74.1       76.3       76.6       77.4       78.7       78.8       78.5       77.8       79.0       79.8       79.8       78.5       77.9       78.5         2022       79.8       80.4       81.0       81.1       81.1       80.9       81.0       81.1       80.9       81.0       81.1       80.9       80.4       79.2       78.4       78.9       78.9       78.9       78.9       79.5       77.3       78.3       79.5       77.3       78.3       79.5       77.7       77.5       77.5       77.5       77.5       77.5       77.5 <t< td=""><td>2010</td><td>, 0.2</td><td>, 5.0</td><td>, 3.2</td><td>, 5.5</td><td>, 5.5</td><td>, 5.0</td><td>, 3.1</td><td>, 5.0</td><td>, 5.5</td><td>, 5.5</td><td>, 5.2</td><td>, 5.0</td><td>, 5.0</td><td>, 5.5</td><td>, 5.0</td><td>, 5.5</td><td>, 5.0</td></t<>	2010	, 0.2	, 5.0	, 3.2	, 5.5	, 5.5	, 5.0	, 3.1	, 5.0	, 5.5	, 5.5	, 5.2	, 5.0	, 5.0	, 5.5	, 5.0	, 5.5	, 5.0
2019       79.8       79.3       79.2       78.7       78.7       78.8       78.3       78.8       78.5       77.7       78.1       77.9       79.4       78.7       78.5       77.9       78.8         2020       77.4       77.7       74.6       64.7       65.7       70.1       72.8       73.6       73.7       74.3       74.7       75.9       76.5       66.9       73.3       75.0       72.2         2021       76.5       74.1       76.3       76.6       77.4       78.0       78.4       78.5       77.8       79.0       79.8       79.8       76.5       66.9       73.3       75.0       72.2         2022       79.8       80.4       81.0       81.1       81.1       80.9       81.0       81.1       80.9       81.0       81.1       80.9       80.4       79.2       80.4       81.1       81.0       80.2       80.2         2023       79.8       79.6       79.4       79.6       79.2       78.6       79.0       78.9       78.3       78.4       78.1       79.6       79.1       78.9       78.3       79.4       78.1       79.6       79.1       78.9       78.3       79.4 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>76.8</td></td<>																		76.8
2020       77.4       77.7       74.6       64.7       65.7       70.1       72.8       73.6       73.7       74.3       74.7       75.9       76.5       66.9       73.3       75.0       72.2         2021       76.5       74.1       76.3       76.6       77.4       78.0       78.4       78.5       77.8       79.0       79.8       79.8       79.6       77.3       78.3       79.5       77.7         2022       79.8       80.4       81.0       81.1       81.0       81.0       81.1       80.9       81.0       81.1       80.9       80.4       79.2       80.4       81.1       81.0       80.2       80.2         2023       79.8       79.6       79.4       79.6       79.2       78.6       79.0       78.9       78.3       78.4       78.1       80.4       81.1       81.0       80.2       80.2         2023       79.8       79.6       79.4       79.6       79.2       78.6       79.0       78.9       78.3       78.4       78.1       79.6       79.1       78.9       78.3       79.4       79.6       79.4       79.6       79.2       78.6       79.0       78.9       78.3 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>79.8 78.6</td></td<>																		79.8 78.6
2021       76.5       74.1       76.3       76.6       77.4       78.0       78.4       78.5       77.8       79.0       79.8       79.8       75.6       77.3       78.3       79.5       77.7         2022       79.8       80.4       81.0       81.1       81.1       80.9       81.0       81.1       80.9       80.4       79.2       80.4       81.1       81.0       80.2       80.2         2023       79.8       79.6       79.4       79.6       79.2       78.6       79.0       78.9       78.3       78.4       78.1       80.4       81.1       81.0       80.2       80.2         2023       79.8       79.6       79.4       79.6       79.2       78.6       79.0       78.9       78.3       78.4       78.1       79.6       79.1       78.9       78.3       79.4																		78.6
2023 79.8 79.6 79.4 79.6 79.2 78.6 79.0 78.9 78.9 78.3 78.4 78.1 79.6 79.1 78.9 78.3 79.4																		77.7
2023 79.8 79.6 79.4 79.6 79.2 78.6 79.0 78.9 78.9 78.3 78.4 78.1 79.6 79.1 78.9 78.3 79.4	2022	70.0	00.4	01.0	01.1	01.1	00.0	01.0	01.0	01.1	00.0	00.4	70.0	00.4	01.1	01.0	00.0	007
																		80.7 79.0
													70.1				10.5	19.0

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

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

Seasonally adjusted																	
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
<b>IP</b> (percent																	
$change)^2$																	
2002	.7	.0	.7	.3	.5	1.0	1	.1	.1	3	.5	6	3.6	5.8	3.2	5	.5
2003	.8	1	.1	8	.0	.5	.3	5	.8	.1	.9	1	2.1	-2.2	2.5	4.4	1.4
2004	1	.8	.0	.3	.7	7	.9	.5	.0	.9	.0	.8	2.7	3.3	4.0	5.5	3.1
2005	.6	.9	5	.4	.3	.2	3	.5	-1.1	1.4	.9	.1	6.4	2.6	6	6.1	4.1
2006	.8	3	.0	.3	2	.3	3	.7	.1	5	.1	1.5	3.9	.7	1.1	1.7	2.6
2007	4	.3	.8	.6	1	.3	1	3	.3	2	.5	.2	4.7	5.5	.1	1.3	2.8
2007	2	7	4	-1.0	6	7	-1.1	-1.3	-3.4	6	-2.5	-3.4	-2.0	-8.4	-14.1	-22.0	-4.8
2009	-3.2	1	-1.8	7	-1.0	2	1.6	1.1	1.0	.1	1.0	1	-24.7	-10.3	9.1	7.2	-13.8
2010	1.0	1	1.3	.8	1.3	.0	.5	.1	.1	.1	.1	.5	6.7	10.4	4.3	1.6	6.0
2011	.0	.2	.6	5	.0	.1	.6	.4	.3	.5	2	.7	3.0	2	4.2	3.8	2.9
2012	0	4	5	5	2	2	2	1	2	2	(	7	5 4	5	1.2	1.1	26
2012 2013	.8 3	.4 .4	5 1	.5 3	3 .3	.3 .2	2 8	1 .9	2 .1	2 .1	.6 .0	.7 2	5.4 2.7	.5 .2	-1.2 .2	1.1 1.7	2.6 .9
2013	-1.1	.4	1	.0	.3	.2	8	6	.0	1	.0	2	-1.1	4.7	1.4	.3	1.1
2015	6	8	.4	.0	.0	4	.7	3	3	1	2	3	-3.4	6	.8	-2.6	5
2016	.4	3	1	1	1	.2	.1	4	.2	.1	1	.0	6	-1.1	.0	.5	8
2017	.2	1	4	1.1	2	.1	4	2	0.	1.1	.1	2	.0	3.1	-2.2	4.1	.6
2018 2019	3 9	.8 5	1 2	.7 7	8 .1	.7 .5	.0 7	.3 .7	.0 7	5 9	3 .9	.3 .1	.4 -4.7	2.3 -3.1	1.6 8	-1.7 -2.1	1.3 -2.0
2019	9	3	2	-15.4	4.4	7.8	3.5	1.5	.0	9	.9	.1	-4.7	-43.7	8	-2.1	-2.0
2021	.9	-4.0	3.1	.0	1.1	.1	.8	3	9	1.4	.9	.1	4	5.8	3.0	5.3	4.9
2022	6	.9	.9	.0	2	3	.1	.2	.2	.1	7	-1.8	2.7	2.5	.0	-3.0	2.7
2023	1.8	1	6	.7	1	6	.3	.1	.1	7	.5	1	.3	2	4	-1.4	5
2024	-1.3	1.4	.2	7	.7	.0	6	.6	5	7	.2		9	1.3	8		
<b>IP</b> (2017=100)																	
2022	98.8	99.7	100.6	100.6	100.4	100.0	100.1	100.3	100.6	100.7	99.9	98.1	99.7	100.3	100.3	99.6	100.0
2023	99.9	99.8	99.2	99.9	99.8	99.2	99.4	99.5	99.6	98.9	99.3	99.2	99.7	99.6	99.5	99.1	99.5
2024	97.9	99.3	99.5	98.8	99.5	99.4	98.8	99.4	98.9	98.2	98.4		98.9	99.2	99.0		
<b>Capacity</b> (percent of 2017 output)																	
(percent of	125.7	125.7	125.7	125.7	125.8	125.8	125.9	126.0	126.1	126.2	126.3	126.4	125.7	125.8	126.0	126.3	125.9
(percent of 2017 output) 2022 2023	126.5	126.6	126.8	126.9	127.0	127.2	127.3	127.4	127.6	127.7	127.8	126.4 128.0	126.6	127.0	127.4	126.3 127.8	125.9 127.2
(percent of 2017 output) 2022																	
(percent of 2017 output) 2022 2023 2024	126.5	126.6	126.8	126.9	127.0	127.2	127.3	127.4	127.6	127.7	127.8		126.6	127.0	127.4		
(percent of 2017 output) 2022 2023 2024 <b>Utilization</b>	126.5	126.6	126.8	126.9	127.0	127.2	127.3	127.4	127.6	127.7	127.8		126.6	127.0	127.4		
(percent of 2017 output) 2022 2023 2024	126.5	126.6	126.8	126.9	127.0	127.2	127.3	127.4	127.6	127.7	127.8		126.6	127.0	127.4		
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003	126.5 128.1 72.1 74.0	126.6 128.2 72.0 73.9	126.8 128.4 72.4 74.0	126.9 128.5 72.6 73.4	127.0 128.6	127.2 128.8	127.3 128.9 73.6 74.1	127.4 129.1 73.6 73.8	127.6 129.2	127.7 129.3 73.4 74.5	127.8 129.5 73.8 75.2	128.0 73.4 75.2	126.6 128.2 72.2 74.0	127.0 128.6 73.1 73.6	127.4 129.1 73.6 74.1	127.8 73.6 75.0	127.2 73.1 74.1
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004	126.5 128.1 72.1 74.0 75.1	126.6 128.2 72.0 73.9 75.7	126.8 128.4 72.4 74.0 75.7	126.9 128.5 72.6 73.4 76.0	127.0 128.6 73.0 73.5 76.6	127.2 128.8 73.7 73.8 76.1	127.3 128.9 73.6 74.1 76.8	127.4 129.1 73.6 73.8 77.1	127.6 129.2 73.7 74.4 77.1	127.7 129.3 73.4 74.5 77.7	127.8 129.5 73.8 75.2 77.7	128.0 73.4 75.2 78.2	126.6 128.2 72.2 74.0 75.5	127.0 128.6 73.1 73.6 76.2	127.4 129.1 73.6 74.1 77.0	127.8 73.6 75.0 77.9	127.2 73.1 74.1 76.6
(percent of 2017 output) 2022 2023 2024 <b>Utilization</b> (percent) 2002 2003 2004 2005	126.5 128.1 72.1 74.0 75.1 78.6	126.6 128.2 72.0 73.9 75.7 79.1	126.8 128.4 72.4 74.0 75.7 78.6	126.9 128.5 72.6 73.4 76.0 78.8	127.0 128.6 73.0 73.5 76.6 78.9	127.2 128.8 73.7 73.8 76.1 78.9	127.3 128.9 73.6 74.1 76.8 78.4	127.4 129.1 73.6 73.8 77.1 78.7	127.6 129.2 73.7 74.4 77.1 77.7	127.7 129.3 73.4 74.5 77.7 78.6	127.8 129.5 73.8 75.2 77.7 79.2	73.4 75.2 78.2 79.1	126.6 128.2 72.2 74.0 75.5 78.8	127.0 128.6 73.1 73.6 76.2 78.9	127.4 129.1 73.6 74.1 77.0 78.3	73.6 75.0 77.9 78.9	73.1 74.1 76.6 78.7
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004	126.5 128.1 72.1 74.0 75.1	126.6 128.2 72.0 73.9 75.7	126.8 128.4 72.4 74.0 75.7	126.9 128.5 72.6 73.4 76.0	127.0 128.6 73.0 73.5 76.6	127.2 128.8 73.7 73.8 76.1	127.3 128.9 73.6 74.1 76.8	127.4 129.1 73.6 73.8 77.1	127.6 129.2 73.7 74.4 77.1	127.7 129.3 73.4 74.5 77.7	127.8 129.5 73.8 75.2 77.7	128.0 73.4 75.2 78.2	126.6 128.2 72.2 74.0 75.5	127.0 128.6 73.1 73.6 76.2	127.4 129.1 73.6 74.1 77.0	127.8 73.6 75.0 77.9	127.2 73.1 74.1 76.6
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006	126.5 128.1 72.1 74.0 75.1 78.6 79.5	126.6 128.2 72.0 73.9 75.7 79.1 79.2	126.8 128.4 72.4 74.0 75.7 78.6 79.0	126.9 128.5 72.6 73.4 76.0 78.8 79.2	127.0 128.6 73.0 73.5 76.6 78.9 78.9	127.2 128.8 73.7 73.8 76.1 78.9 78.9	127.3 128.9 73.6 74.1 76.8 78.4 78.5	127.4 129.1 73.6 73.8 77.1 78.7 78.9	127.6 129.2 73.7 74.4 77.1 77.7 78.8	127.7 129.3 73.4 74.5 77.7 78.6 78.3	127.8 129.5 73.8 75.2 77.7 79.2 78.2	128.0 73.4 75.2 78.2 79.1 79.2	126.6 128.2 72.2 74.0 75.5 78.8 79.3	127.0 128.6 73.1 73.6 76.2 78.9 79.0	127.4 129.1 73.6 74.1 77.0 78.3 78.8	127.8 73.6 75.0 77.9 78.9 78.6	73.1 74.1 76.6 78.7 78.9
(percent of 2017 output) 2022 2023 2024 <b>Utilization</b> (percent) 2002 2003 2004 2005	126.5 128.1 72.1 74.0 75.1 78.6	126.6 128.2 72.0 73.9 75.7 79.1	126.8 128.4 72.4 74.0 75.7 78.6	126.9 128.5 72.6 73.4 76.0 78.8	127.0 128.6 73.0 73.5 76.6 78.9	127.2 128.8 73.7 73.8 76.1 78.9	127.3 128.9 73.6 74.1 76.8 78.4	127.4 129.1 73.6 73.8 77.1 78.7	127.6 129.2 73.7 74.4 77.1 77.7	127.7 129.3 73.4 74.5 77.7 78.6	127.8 129.5 73.8 75.2 77.7 79.2	73.4 75.2 78.2 79.1	126.6 128.2 72.2 74.0 75.5 78.8	127.0 128.6 73.1 73.6 76.2 78.9	127.4 129.1 73.6 74.1 77.0 78.3	73.6 75.0 77.9 78.9	73.1 74.1 76.6 78.7
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5	127.0 128.6 73.0 73.5 76.6 78.9 78.9 78.9	127.2 128.8 73.7 73.8 76.1 78.9 78.9 78.9 79.3	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8	128.0 73.4 75.2 78.2 79.1 79.2 78.9	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8	127.8 73.6 75.0 77.9 78.9 78.6 78.7	127.2 73.1 74.1 76.6 78.7 78.9 79.0
(percent of 2017 output) 2022 2023 2024 <b>Utilization</b> (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 78.8 72.1 66.2 71.5	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8	128.0 73.4 75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8 78.8 74.1 65.4 71.3	127.8 73.6 75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4
(percent of 2017 output) 2022 2023 2024 <b>Utilization</b> (percent) 2002 2003 2004 2005 2006 2007 2008 2009	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0	73.4 75.2 78.2 79.1 79.2 78.9 67.8 67.0	126.6 128.2 74.0 75.5 78.8 79.3 78.9 78.9 78.3 65.3	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8 74.1 65.4	127.8 73.6 75.0 77.9 78.9 78.6 78.7 69.9 66.8	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3
(percent of 2017 output) 2022 2023 2024 <b>Utilization</b> (percent) 2002 2003 2004 2005 2006 2007 2008 2007 2008 2009 2010 2011	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9	73.4 75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3 74.3	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9 78.9 78.3 65.3 68.2 72.7	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6	127.8 73.6 75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9 74.1	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9	127.0 128.6 73.0 73.5 76.6 78.9 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2	73.4 75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3 74.3 74.7	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2	73.6 75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9 74.1 74.3	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1 74.7	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 74.6	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.9 74.4	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.6	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7 74.8	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4 74.2	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 74.8	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0	128.0 73.4 75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3 74.3 74.7 74.9	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9 78.9 78.3 65.3 68.2 72.7 74.8 74.6	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2 74.6	73.6 75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9 74.1 74.3 75.0	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 70.4 73.3 74.5 74.7
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9	127.0 128.6 73.0 73.5 76.6 78.9 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2	73.4 75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3 74.3 74.7	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2	73.6 75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9 74.1 74.3	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2011 2012 2013 2014	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 74.2	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1 74.7 74.9	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 74.6 74.6 75.6	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.6 75.9	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7 74.8 76.2	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4 74.2 76.6	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 74.8 74.8 76.2	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0 76.3	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0 76.9	128.0 73.4 75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3 74.3 74.7 74.9 76.8	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4	127.8 73.6 75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9 74.1 74.3 75.0 76.7	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2011 2012 2013 2014 2015 2016	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 74.2 76.5 76.2	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1 74.7 74.9 76.0 75.9	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 74.6 75.6 76.3 75.8	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.4 75.6	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.6 75.9 76.5 75.5	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7 74.8 76.2 76.2 75.7	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4 74.2 76.6 76.9 75.7	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 74.8 76.2 76.6 75.4	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3 76.4 75.5	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0 76.3 75.6	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0 76.9 76.1 75.6	128.0           73.4           75.2           78.2           79.1           79.2           78.9           67.8           67.0           72.3           74.3           74.7           74.9           76.8           75.9           75.6	126.6 128.2 74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9 76.3 75.9	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9 76.4 75.6	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4 76.6 75.5	73.6 75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9 74.1 74.3 75.0 76.7 76.1 75.6	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0 76.4 75.7
(percent of 2017 output) 2022 2023 2024 <b>Utilization</b> (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 74.2 76.5 76.2 75.8	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1 74.7 74.9 76.0 75.9 75.8	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 74.6 74.6 75.6 75.8 75.6	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.4 75.6 76.5	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.6 75.9 76.5 75.5 76.5	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7 74.8 76.2 75.7 76.6	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4 74.2 76.6 76.9 75.7 76.5	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 74.8 76.2 76.6 75.4 76.4	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3 76.4 75.5 76.5	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0 76.3 76.3 75.6 77.4	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0 76.9 76.1 75.6 77.6	128.0           73.4           75.2           78.2           79.1           79.2           78.9           67.8           67.0           72.3           74.3           74.7           74.9           76.8           75.9           75.6           77.5	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9 76.3 75.9 75.7	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9 76.4 75.6 76.6	127.4 129.1 73.6 74.1 77.0 78.3 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4 76.6 75.5 76.5	127.8           73.6           75.0           77.9           78.9           78.6           78.7           69.9           66.8           71.9           74.1           74.3           75.0           76.7           76.1           75.6           77.5	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0 76.4 75.7 76.6
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2011 2012 2013 2014 2015 2016 2017 2018	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 74.2 76.5 76.2 75.8 77.4	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1 74.7 74.9 76.0 75.9 75.8 78.1	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 74.6 75.6 75.6 75.8 75.6 78.1	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.4 75.6 76.5 78.7	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.6 75.9 76.5 75.5 76.5 78.1	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7 74.8 76.2 75.7 76.6 78.6	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4 74.2 76.6 76.9 75.7 76.5 78.7	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 74.8 76.2 76.6 75.4 76.4 76.4 78.9	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3 76.4 75.5 76.5 79.0	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0 76.3 75.6 77.4 77.4 78.6	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0 76.9 76.1 75.6 77.6 78.4	128.0           73.4           75.2           78.2           79.1           79.2           78.9           67.8           67.0           72.3           74.3           74.7           74.9           76.8           75.9           75.6           77.5           78.7	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9 76.3 75.9 75.7 77.9	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9 76.4 75.6 76.6 78.5	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4 76.6 75.5 76.5 78.9	127.8           73.6           75.0           77.9           78.9           78.6           78.7           69.9           66.8           71.9           74.1           74.3           75.0           76.7           76.1           75.6           77.5           78.6	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 70.4 73.3 74.5 74.7 76.0 76.4 75.7 76.6 78.4
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 74.2 76.5 76.2 75.8 77.4 78.0	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1 74.7 74.9 76.0 75.9 75.8 78.1 77.6	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 74.6 75.6 75.8 75.6 78.1 77.4	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.4 75.6 76.5 78.7 77.0	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.6 75.5 76.5 75.5 76.5 78.1 77.0	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7 74.8 76.2 75.7 76.6 78.6 77.4	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4 74.2 76.6 76.9 75.7 76.5 78.7 76.9	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 74.8 76.6 75.4 76.6 75.4 76.4 78.9 77.4	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3 76.4 75.5 76.5 79.0 76.9	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0 76.3 75.6 77.4 78.6 75.6	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0 76.9 76.1 75.6 77.6 78.4 76.9	128.0           73.4           75.2           78.2           79.1           79.2           78.9           67.8           67.0           72.3           74.3           74.7           74.9           76.8           75.9           75.6           77.5           78.7           77.1	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9 76.3 75.9 75.7 77.9 77.7	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9 76.4 75.6 76.6 78.5 77.1	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4 76.6 75.5 76.5 78.9 77.1	127.8           73.6           75.0           77.9           78.9           78.6           78.7           69.9           66.8           71.9           74.1           74.3           75.0           76.7           76.1           75.6           77.5           78.6           76.8	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0 76.4 75.7 76.6 78.4 77.2
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 67.8 78.7 67.8 72.4 74.9 74.5 74.9 74.5 74.5 76.5 76.2 75.8 77.4 78.0 76.9	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 72.6 75.1 74.7 74.9 75.0 75.1 74.7 74.9 75.0 75.9 75.8 78.1 77.6 77.1	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 84.8 73.1 74.6 74.6 75.6 75.6 75.6 75.8 75.6 75.6 78.1 77.4 73.6	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.4 75.6 76.4 75.6 76.5 78.7 77.0 62.3	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.5 74.5 75.9 76.5 75.5 76.5 78.1 77.0 65.1	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7 74.8 76.2 75.7 76.6 78.6 75.7 76.6 78.6 77.4 70.2	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4 74.2 76.6 76.9 75.7 76.5 78.7 76.9 72.8	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 74.3 74.8 76.2 76.6 75.4 76.4 78.9 77.4 76.4 78.9 77.4	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3 76.4 75.5 76.5 79.0 76.9 74.1	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0 76.3 76.3 75.6 77.4 78.6 76.3 75.6	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0 76.9 76.1 75.6 77.6 77.6 77.6 75.4	128.0           73.4           75.2           78.2           79.1           79.2           78.9           67.8           67.0           72.3           74.3           74.7           74.9           76.8           75.9           75.6           77.5           78.7           77.1           76.0	126.6 128.2 74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9 76.3 75.9 75.7 77.9 77.7 75.9	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9 76.4 75.6 76.6 78.5 77.1 65.9	127.4 129.1 73.6 74.1 77.0 78.3 78.8 74.3 78.8 74.1 65.4 74.2 74.6 76.4 76.6 75.5 76.5 78.9 77.1 73.6	127.8           73.6           75.0           77.9           78.9           78.6           78.7           69.9           66.8           71.9           74.1           74.3           75.0           76.1           75.6           77.5           78.6           76.8           75.4	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0 76.4 75.7 76.6 78.4 77.2 72.7
(percent of 2017 output) 2022 2023 2024 <b>Utilization</b> (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 74.2 76.5 76.2 75.8 77.4 78.0	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1 74.7 74.9 76.0 75.9 75.8 78.1 77.6	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 74.6 75.6 75.8 75.6 78.1 77.4	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.4 75.6 76.5 78.7 77.0	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.6 75.5 76.5 75.5 76.5 78.1 77.0	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7 74.8 76.2 75.7 76.6 78.6 77.4	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4 74.2 76.6 76.9 75.7 76.5 78.7 76.9	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 74.8 76.6 75.4 76.6 75.4 76.4 78.9 77.4	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3 76.4 75.5 76.5 79.0 76.9	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0 76.3 75.6 77.4 78.6 75.6	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0 76.9 76.1 75.6 77.6 78.4 76.9	128.0           73.4           75.2           78.2           79.1           79.2           78.9           67.8           67.0           72.3           74.3           74.7           74.9           76.8           75.9           75.6           77.5           78.7           77.1	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9 76.3 75.9 75.7 77.9 77.7	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9 76.4 75.6 76.6 78.5 77.1	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4 76.6 75.5 76.5 78.9 77.1	127.8           73.6           75.0           77.9           78.9           78.6           78.7           69.9           66.8           71.9           74.1           74.3           75.0           76.7           76.1           75.6           77.5           78.6           76.8	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0 76.4 75.7 76.6 78.4 77.2
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 67.8 78.7 67.8 72.4 74.9 74.5 74.9 74.5 74.5 76.5 76.2 75.8 77.4 78.0 76.9	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 72.6 75.1 74.7 74.9 75.0 75.1 74.7 74.9 75.0 75.9 75.8 78.1 77.6 77.1	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 84.8 73.1 74.6 74.6 75.6 75.6 75.6 75.8 75.6 75.6 78.1 77.4 73.6	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.4 75.6 76.4 75.6 76.5 78.7 77.0 62.3	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.5 74.5 75.9 76.5 75.5 76.5 78.1 77.0 65.1	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7 74.8 76.2 75.7 76.6 78.6 75.7 76.6 78.6 77.4 70.2	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4 74.2 76.6 76.9 75.7 76.5 78.7 76.9 72.8	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 74.3 74.8 76.2 76.6 75.4 76.4 78.9 77.4 76.4 78.9 77.4	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3 76.4 75.5 76.5 79.0 76.9 74.1	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0 76.3 76.3 75.6 77.4 78.6 76.3 75.6	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0 76.9 76.1 75.6 77.6 77.6 77.6 75.4	128.0           73.4           75.2           78.2           79.1           79.2           78.9           67.8           67.0           72.3           74.3           74.7           74.9           76.8           75.9           75.6           77.5           78.7           77.1           76.0	126.6 128.2 74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9 76.3 75.9 75.7 77.9 77.7 75.9	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9 76.4 75.6 76.6 78.5 77.1 65.9	127.4 129.1 73.6 74.1 77.0 78.3 78.8 74.3 78.8 74.1 65.4 74.2 74.6 76.4 76.6 75.5 76.5 78.9 77.1 73.6	127.8           73.6           75.0           77.9           78.9           78.6           78.7           69.9           66.8           71.9           74.1           74.3           75.0           76.1           75.6           77.5           78.6           76.8           75.4	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0 76.4 75.7 76.6 78.4 77.2 72.7
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 74.2 76.5 76.2 75.8 77.4 78.0 75.8 77.4 78.0 76.9 76.8 78.6 79.0	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1 74.7 74.9 76.0 75.9 75.8 78.1 77.6 77.1 73.8 79.3 78.8	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 74.6 75.6 75.6 75.8 75.6 78.1 77.4 75.6 78.1 77.4 73.6 76.2 80.1 78.3	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.4 75.6 76.4 75.6 76.5 78.7 77.0 62.3 76.3 80.0 78.7	127.0 128.6 73.0 73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.6 75.9 76.5 75.5 76.5 75.5 76.5 78.1 77.0 65.1 77.2 79.8 78.5	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7 74.8 76.2 75.7 76.6 78.6 77.4 70.2 77.3 79.5 78.0	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 75.5 64.6 71.1 73.3 74.4 74.2 76.6 76.9 75.7 76.9 75.7 76.9 72.8 78.0 79.5 78.1	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 74.8 76.6 75.4 76.6 75.4 76.4 78.9 77.4 76.6 75.4 76.4 78.9 77.4 78.9 77.4 78.9	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3 76.4 75.5 76.5 79.0 76.9 74.1 77.1 79.8 78.1	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0 76.3 75.6 77.4 78.6 76.3 75.6 77.4 78.6 76.3 75.6 77.4 78.8 78.3 79.8 77.4	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0 76.9 76.1 75.6 77.6 78.4 76.9 75.4 79.0 79.1 77.7	128.0           73.4           75.2           78.2           79.1           79.2           78.9           67.8           67.0           72.3           74.3           74.7           74.9           76.8           75.9           75.6           77.5           78.7           77.1           76.0           79.1	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9 78.9 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9 76.3 75.9 75.7 77.9 75.7 77.9 75.6 79.3 78.7	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9 76.4 75.6 76.6 78.5 77.1 65.9 76.9 76.9 79.8 78.4	127.4 129.1 73.6 74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4 76.6 75.5 76.5 78.9 77.1 73.6 77.7 79.6 78.1	127.8         73.6         75.0         77.9         78.9         78.6         78.7         69.9         66.8         71.9         74.1         74.3         75.0         76.7         76.1         75.6         77.5         78.6         76.8         75.4         78.7         76.8         75.8         78.8	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0 76.4 75.7 76.6 78.4 75.7 76.6 78.4 72.7 77.2
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022	126.5 128.1 72.1 74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 74.2 76.5 76.2 75.8 77.4 75.8 77.4 78.0 76.9 76.8 78.6	126.6 128.2 72.0 73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1 74.7 74.9 76.0 75.9 75.8 78.1 77.6 77.1 73.8 79.3	126.8 128.4 72.4 74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 74.6 74.6 75.6 75.8 75.8 75.6 78.1 77.4 73.6 76.2 80.1	126.9 128.5 72.6 73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.4 75.6 76.4 75.6 76.5 78.7 77.0 62.3 76.3 80.0	127.0 128.6 73.0 73.5 76.6 78.9 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.6 75.9 76.5 75.5 76.5 75.5 76.5 78.1 77.0 65.1 77.2 79.8	127.2 128.8 73.7 73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7 74.8 76.2 75.7 76.6 78.6 77.4 76.6 78.6 77.4 70.2 77.3 79.5	127.3 128.9 73.6 74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4 74.2 76.6 76.9 75.7 76.5 78.7 76.9 72.8 78.0 79.5	127.4 129.1 73.6 73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 74.8 76.6 75.4 76.6 75.4 76.4 75.4 76.4 78.9 77.4 74.0 77.8 79.6	127.6 129.2 73.7 74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3 76.4 75.5 76.5 79.0 76.9 74.1 77.1 79.8	127.7 129.3 73.4 74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0 76.3 75.6 77.4 78.6 76.3 75.6 77.4 78.6 76.3 74.8 78.3 79.8	127.8 129.5 73.8 75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0 76.9 76.1 75.6 77.6 78.4 75.6 77.6 78.4 75.0 75.4 79.0 79.1	128.0           73.4           75.2           78.2           79.1           79.2           78.9           67.8           67.0           72.3           74.3           74.7           74.9           76.8           75.6           77.5           78.7           77.1           76.0           79.1           77.6	126.6 128.2 72.2 74.0 75.5 78.8 79.3 78.9 78.9 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9 76.3 75.9 75.7 77.9 75.7 77.9 75.6 79.3	127.0 128.6 73.1 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9 76.4 75.6 76.4 75.6 76.6 78.5 77.1 65.9 76.9 76.9 79.8	127.4 129.1 73.6 74.1 77.0 78.3 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4 76.6 75.5 76.5 78.9 77.1 73.6 77.7 79.6	127.8         73.6         75.0         77.9         78.9         78.6         78.7         69.9         66.8         71.9         74.1         74.3         75.0         76.7         76.1         75.6         77.5         78.6         76.8         75.4         78.8	127.2 73.1 74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0 76.4 75.7 76.6 78.4 75.7 76.6 78.4 77.2 72.7 77.2 79.4

## Table 12 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing<sup>1</sup> Seasonally adjusted New June July Aug Sept. Oct. Nov. Dec. Q1 Q2

I. 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.

Seasonally adjusted						-							0.1			0.1	
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) <sup>2</sup> 2002	.8	2	.8	.5	.4	.8	1	2	.1	3	.5	6	2.7	6.0	1.9	8	.3
2002	.8	.0	4	8	2	.0	.3	4	.6	.0	.6	0	1.5	-4.7	.8	2.6	.2
2004	.0	.6	4	.4	.7	8	.8	.0	.0	.9	.2	.7	1.9	2.2	2.0	5.4	1.8
2005 2006	.2	.6 .0	2 .2	.1 .3	.0 1	.4	4 1	.2	-2.2	1.2 2	1.1 1	.4 1.0	4.7	1.3 1.8	-2.9 .8	2.5 .2	2.6 1.4
2000								10	10			110					
2007 2008	4	.9	.0	.5	.1 7	.1	2 4	.1 -1.6	.1	5	.4	1 -2.7	3.3	3.8 -6.9	.3	4 -14.9	1.8
2008	2	5 7	5 -1.7	8 9	/	3 4	4	-1.6	-4.5 .8	1.3 .2	-1.1	-2.7	-2.3	-0.9	-12.5 6.7	-14.9	-4.3 -11.4
2010	1.0	.2	.6	.3	1.4	.2	.3	.3	.3	3	.0	.9	6.7	7.3	5.1	1.1	4.9
2011	3	4	1.1	3	.1	.3	.5	.6	1	.7	.0	.5	1.6	1.6	4.5	4.2	2.8
2012	.6	.3	6	.7	.2	.0	.2	4	1	.3	.4	.3	3.6	2.1	2	1.7	2.8
2013 2014	1	.5	.4 1.0	2	.1 .4	.2	4 .2	.6 2	.5	2	.2	.2	2.9 2.6	1.5 5.3	1.2 2.1	2.5 2.3	1.7 2.8
2014	4	7	4	6	5	3	.2	2	3	5	7	5	-4.5	-5.7	.3	-5.5	-1.5
2016	.5	5	8	.3	3	.5	.1	1	1	.0	4	.7	-2.9	-1.6	.8	6	-2.4
2017	2	4	.6	1.0	.1	.2	2	5	.1	1.2	.2	.2	.3	5.6	-1.4	5.6	1.1
2018	.0	.3	.5	1.1	-1.0	.8	.1	.7	.1	2	.1	.0	2.1	4.7	3.1	.7	3.0
2019 2020	7 6	6 .4	.0 -4.1	6 -13.5	.1 1.6	.1 6.7	5 3.7	.8 1.0	3 1	9 .6	.5 .4	2 1.3	-4.0 -6.6	-2.4 -42.6	1 43.7	-2.1 6.5	8 -7.3
2021	.6	-3.4	2.8	.1	.9	.5	.5	.0	-1.1	1.4	.4	1	1.0	6.4	3.0	4.9	4.3
2022	.0	.6	.8	.2	.0	2	.2	.1	.3	1	3	-1.2	3.8	3.9	1.2	-1.8	3.4
2022	.0	0. 0.	.8 .0	.2	3	2	.2	.1	.3	1 8	3	-1.2	.0	.0	1.2	-1.8	.1
2024	-1.1	1.3	2	2	.6	.3	7	.5	6	4	2		-1.9	2.2	7		
<b>IP</b> (2017=100)																	
2022	100.6	101.2	102.0	102.3	102.3	102.2	102.4	102.5	102.8	102.8	102.4	101.2	101.3	102.3	102.6	102.1	102.1
2023 2024	102.1 100.6	102.1 101.9	102.1 101.7	102.5 101.4	102.2 102.0	101.6 102.3	102.3 101.6	102.3 102.1	102.5 101.6	101.8 101.1	102.0 101.0	101.8	102.1 101.4	102.1 101.9	102.4 101.8	101.9	102.1
<b>Capacity</b> (percent of 2017 output)																	
2022	126.1	126.0	126.0	126.1	126.2	126.3	126.5	126.7	126.9	127.2	127.4	127.7	126.0	126.2	126.7	127.4	126.6
2023 2024	128.0 130.4	128.3 130.5	128.6 130.6	128.9 130.7	129.1 130.8	129.4 130.9	129.6 131.0	129.8 131.1	129.9 131.2	130.1 131.4	130.2 131.5	130.3	128.3 130.5	129.1 130.8	129.8 131.1	130.2	129.4
<b>TT</b> . <b>1</b>																	
Utilization (percent)																	
2002	75.4	75.2	75.7	76.1	76.4	77.0	76.9	76.8	76.8	76.7	77.1	76.7	75.4	76.5	76.8	76.8	76.4
2003 2004	77.3	77.3 78.1	77.1 77.8	76.5 78.2	76.5 78.8	76.5 78.2	76.8 78.8	76.5 78.9	77.0 79.0	77.0 79.7	77.5 79.9	77.6 80.5	77.2 77.9	76.5 78.4	76.8 78.9	77.4 80.0	77.0 78.8
2004	80.7	81.2	81.0	81.0	81.0	81.3	80.8	80.9	79.0	79.9	80.7	80.9	80.9	81.1	80.3	80.0	80.7
2006	80.9	80.8	80.8	80.9	80.7	80.8	80.6	80.8	80.4	80.1	79.9	80.6	80.8	80.8	80.6	80.2	80.6
2007	80.2	80.8	80.7	81.1	81.1	81.2	81.1	81.2	81.4	81.0	81.4	81.4	80.6	81.2	81.2	81.3	81.1
2008	81.4	81.0	80.7	80.1	79.6	79.3	79.0	77.6	74.0	74.8	73.9	71.8	81.0	79.7	76.9	73.5	77.8
2009 2010	69.8 70.5	69.3 70.8	68.0 71.5	67.4 71.9	66.6 73.0	66.4 73.4	67.2 73.8	68.0 74.2	68.7 74.5	68.9 74.4	69.3 74.5	69.6 75.3	69.1 70.9	66.8 72.8	68.0 74.2	69.3 74.8	68.3 73.2
2010	75.2	74.9	75.8	75.5	75.6	75.8	76.1	76.5	76.4	76.9	76.8	77.1	75.3	75.6	76.3	76.9	76.0
2012	77.4	77.5	76.9	77.4	77.4	77.3	77.3	76.9	76.7	76.8	77.1	77.2	77.3	77.3	77.0	77.0	77.2
2012 2013	77.1	77.4	76.9 77.6	77.4 77.5	77.4 77.4	77.5	77.2	76.9 77.6	78.0	76.8 77.8	77.1	77.2	77.4	77.5	77.6	77.0	77.6
2014	77.7	78.3	79.0	79.0	79.2	79.4	79.5	79.2	79.4	79.3	79.8	79.7	78.3	79.2	79.4	79.6	79.1
2015 2016	79.0 76.4	78.5 76.0	78.2 75.4	77.7 75.6	77.3 75.4	77.1 75.8	77.6 75.9	77.5 75.8	77.3 75.6	76.9 75.6	76.4 75.3	76.0 75.9	78.5 75.9	77.3 75.6	77.4 75.8	76.4 75.6	77.4 75.7
							, 5.7	, 5.0			, 5.5				, 5.0		
2017 2018	75.7 78.4	75.4 78.7	75.9 79.1	76.7 80.1	76.8 79.3	77.0 80.0	76.9 80.0	76.6 80.6	76.8 80.6	77.8 80.4	78.1 80.5	78.3 80.4	75.7 78.7	76.8 79.8	76.8 80.4	78.1 80.4	76.9 79.8
2018 2019	79.8	79.3	79.1	80.1 78.7	79.3	80.0 78.8	78.3	80.0 78.8	80.6 78.5	80.4 77.8	80.5 78.2	80.4 77.9	79.5	79.8 78.8	80.4 78.5	80.4 78.0	79.8 78.7
2020	77.4	77.7	74.6	64.5	65.6	70.1	72.8	73.6	73.6	74.2	74.7	75.8	76.6	66.7	73.3	74.9	72.9
2021	76.5	74.0	76.3	76.5	77.4	77.9	78.4	78.6	77.8	79.0	79.8	79.8	75.6	77.3	78.3	79.5	77.7
2022	79.8	80.3	81.0	81.1	81.1	80.9	81.0	80.9	81.0	80.8	80.4	79.2	80.4	81.0	81.0	80.1	80.6
2023 2024	79.8	79.6 78.0	79.4 77.8	79.5 77.6	79.2 78.0	78.5 78.2	78.9 77.6	78.8 77.9	78.9 77.4	78.2 77.0	78.4 76.8	78.1	79.6 77.7	79.1 77.9	78.9 77.6	78.2	78.9
2027	//.1	70.0	77.0	77.0	70.0	10.2	77.0	11.7	, /	77.0	70.0		, , . ,	11.2	77.0		
1 Salaatad high taal																	

# Table 13<br/>HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Total Industry Excluding SelectedHigh-Technology Industries!<br/>Seasonally adjustedVarIanLanFebMar.Apr.MayJuneJuneJulyAug.Sept.Oct.Nov.Dec.Q1Q2Q3Q4Annual

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

Seasonally adjusted	0,																
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
<b>IP</b> (percent																	
change) <sup>3</sup>																	
2002	.8	2	.7	.2	.5	1.0	2	.0	.0	4	.4	7	3.3	5.4	2.6	-1.1	.4
2003	.7	3	.0	9	1	.3	.1	7	.7	1	.8	2	.8	-4.2	.2	2.7	.0
2004	2	.7	1	.4	.7	7	.9	.4	1	.9	1	.7	1.5	3.2	3.8	4.9	2.0
2005	.5	.8	6	.3	.2	.1	5	.4	-1.4	1.4	.9	.0	5.1	1.4	-2.1	4.7	3.1
2006	.8	4	1	.3	4	.2	4	.6	1	5	.1	1.5	3.2	2	.0	.6	1.5
2007	4	.2	6	.4	.0	.5	1	4	1	4	2	.0	3.7	4.4	.1	-1.0	1.0
2007	4	9	.6 6	-1.2	7	8	1 -1.0	4 -1.3	.1 -3.5	4 4	.3 -2.3	-3.2	-3.9	-9.9	-14.1	-20.8	1.8 -5.9
2009	-3.3	1	-2.0	8	-1.1	3	1.6	1.1	1.0	.0	.9	2	-24.8	-11.5	8.8	6.5	-13.9
2010	.9	3	1.2	.8	1.3	.0	.5	.1	.0	.0	.0	.4	5.1	9.6	3.8	.9	5.1
2011	.0	.1	.7	6	.0	.1	.6	.4	.3	.6	2	.6	2.2	3	4.1	3.9	2.5
							_				_						
2012	.8	.3	6	.4	4	.2	2	1	3	3	.6	.7	4.9	1	-1.5	.6	2.3
2013 2014	3	.4 .9	1 .8	4 1	.3 .2	.2	9 .4	.9 6	.1	.1 1	.0 .7	2 2	2.5 -1.4	4 4.3	4 1.2	1.4 .2	.5
2014	-1.1	8	.0	1	.2	4	.4	0	3	1	2	2	-1.4	8	.8	-2.8	7
2015	.4	4	1	2	1	.2	.0	4	.1	.1	1	.0	9	-1.4	4	1	-1.0
2017	.2	1	4	1.1	2	.1	4	2	.0	1.1	.0	3	.0	2.7	-2.2	3.8	.3
2018	4	.9	1	.7	9	.6	0.	.2	.0	5	2	.3	.2	2.2	1.2	-1.7	1.1
2019 2020	-1.0	6 .2	3 -4.8	7 -15.8	.1 4.6	.5 8.0	8 3.6	.7 1.6	7	9 .8	.8 .6	.1 .7	-5.1 -5.4	-3.3 -44.5	9 55.6	-2.2 7.9	-2.2 -6.8
2020	5	-4.1	-4.8	-13.8	4.6	8.0 .1	.9	3	-1.0	.8 1.4	.0	.7	-3.4	-44.5 5.6	3.5	5.1	-0.8
2021	1.0	-4.1	3.4	.0	1.1	.1	.7	5	-1.0	1.4	.7	.0	/	5.0	5.5	5.1	+.0
2022	6	.9	1.0	.0	3	4	.0	.2	.2	.1	7	-1.8	2.5	2.4	3	-3.0	2.6
2023	1.9	1	7	.6	1	6	.2	.1	.1	8	.5	1	.4	6	6	-1.7	7
2024	-1.3	1.4	.2	8	.7	.0	7	.6	5	8	.2		-1.0	.9	-1.0		
ID (2017 100)																	
<b>IP</b> (2017=100) 2022	08.0	98.8	99.8	99.7	99.5	99.1	99.1	99.4	99.6	99.7	00.0	97.2	98.9	99.5	99.4	98.6	00.1
2022 2023	98.0 99.0	98.8 98.9	99.8 98.2	99.7	99.3 98.7	99.1 98.1	99.1	99.4 98.4	99.6 98.5	99.7 97.7	99.0 98.2	97.2 98.0	98.9 98.7	99.3 98.5	99.4 98.4	98.0 98.0	99.1 98.4
2023	96.7	98.1	98.3	97.5	98.2	98.2	97.5	98.1	97.6	96.8	97.0	90.0	97.7	97.9	97.7	90.0	90.4
<b>Capacity</b> (percent of 2017 output)																	
(percent of 2017 output) 2022	124.7	124.7	124.7	124.8	124.8	124.8	124.9	124.9	125.0	125.1	125.2	125.3	124.7	124.8	124.9	125.2	124.9
(percent of 2017 output) 2022 2023	125.4	125.5	125.6	125.7	125.8	125.9	126.0	126.1	126.2	126.4	126.5	125.3 126.6	125.5	125.8	126.1	125.2 126.5	124.9 126.0
(percent of 2017 output) 2022																	
(percent of 2017 output) 2022 2023	125.4	125.5	125.6	125.7	125.8	125.9	126.0	126.1	126.2	126.4	126.5		125.5	125.8	126.1		
(percent of 2017 output) 2022 2023 2024	125.4	125.5	125.6	125.7	125.8	125.9	126.0	126.1	126.2	126.4	126.5		125.5	125.8	126.1		
(percent of 2017 output) 2022 2023 2024 <b>Utilization</b> (percent) 2002	125.4 126.7 73.5	125.5 126.8 73.3	125.6 126.9 73.8	125.7 127.0 74.0	125.8 127.1 74.4	125.9 127.2 75.2	126.0 127.3 75.1	126.1 127.4 75.1	126.2 127.5 75.1	126.4 127.6 74.9	126.5 127.8 75.3	126.6 74.8	125.5 126.8 73.5	125.8 127.1 74.5	126.1 127.4 75.1	126.5 75.0	74.5
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003	125.4 126.7 73.5 75.4	125.5 126.8 73.3 75.2	125.6 126.9 73.8 75.2	125.7 127.0 74.0 74.6	125.8 127.1 74.4 74.5	125.9 127.2 75.2 74.7	126.0 127.3 75.1 74.9	126.1 127.4 75.1 74.4	126.2 127.5 75.1 75.0	126.4 127.6 74.9 75.0	126.5 127.8 75.3 75.7	126.6 74.8 75.6	125.5 126.8 73.5 75.3	125.8 127.1 74.5 74.6	126.1 127.4 75.1 74.8	126.5 75.0 75.4	126.0 74.5 75.0
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004	125.4 126.7 73.5 75.4 75.5	125.5 126.8 73.3 75.2 76.1	125.6 126.9 73.8 75.2 76.1	125.7 127.0 74.0 74.6 76.4	125.8 127.1 74.4 74.5 77.0	125.9 127.2 75.2 74.7 76.5	126.0 127.3 75.1 74.9 77.3	126.1 127.4 75.1 74.4 77.6	126.2 127.5 75.1 75.0 77.6	126.4 127.6 74.9 75.0 78.3	126.5 127.8 75.3 75.7 78.3	126.6 74.8 75.6 78.8	125.5 126.8 73.5 75.3 75.9	125.8 127.1 74.5 74.6 76.7	126.1 127.4 75.1 74.8 77.5	126.5 75.0 75.4 78.5	74.5 75.0 77.1
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005	125.4 126.7 73.5 75.4 75.5 79.2	125.5 126.8 73.3 75.2 76.1 79.7	125.6 126.9 73.8 75.2 76.1 79.2	125.7 127.0 74.0 74.6 76.4 79.3	125.8 127.1 74.4 74.5 77.0 79.4	125.9 127.2 75.2 74.7 76.5 79.4	126.0 127.3 75.1 74.9 77.3 78.9	126.1 127.4 75.1 74.4 77.6 79.1	126.2 127.5 75.1 75.0 77.6 77.9	126.4 127.6 74.9 75.0 78.3 78.8	126.5 127.8 75.3 75.7 78.3 79.4	74.8 75.6 78.8 79.2	125.5 126.8 73.5 75.3 75.9 79.3	125.8 127.1 74.5 74.6 76.7 79.4	126.1 127.4 75.1 74.8 77.5 78.6	75.0 75.4 78.5 79.1	74.5 75.0 77.1 79.1
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004	125.4 126.7 73.5 75.4 75.5	125.5 126.8 73.3 75.2 76.1	125.6 126.9 73.8 75.2 76.1	125.7 127.0 74.0 74.6 76.4	125.8 127.1 74.4 74.5 77.0	125.9 127.2 75.2 74.7 76.5	126.0 127.3 75.1 74.9 77.3	126.1 127.4 75.1 74.4 77.6	126.2 127.5 75.1 75.0 77.6	126.4 127.6 74.9 75.0 78.3	126.5 127.8 75.3 75.7 78.3	126.6 74.8 75.6 78.8	125.5 126.8 73.5 75.3 75.9	125.8 127.1 74.5 74.6 76.7	126.1 127.4 75.1 74.8 77.5	126.5 75.0 75.4 78.5	74.5 75.0 77.1
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005	125.4 126.7 73.5 75.4 75.5 79.2	125.5 126.8 73.3 75.2 76.1 79.7	125.6 126.9 73.8 75.2 76.1 79.2	125.7 127.0 74.0 74.6 76.4 79.3	125.8 127.1 74.4 74.5 77.0 79.4	125.9 127.2 75.2 74.7 76.5 79.4	126.0 127.3 75.1 74.9 77.3 78.9	126.1 127.4 75.1 74.4 77.6 79.1	126.2 127.5 75.1 75.0 77.6 77.9	126.4 127.6 74.9 75.0 78.3 78.8	126.5 127.8 75.3 75.7 78.3 79.4	74.8 75.6 78.8 79.2	125.5 126.8 73.5 75.3 75.9 79.3	125.8 127.1 74.5 74.6 76.7 79.4	126.1 127.4 75.1 74.8 77.5 78.6	75.0 75.4 78.5 79.1	74.5 75.0 77.1 79.1
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7	74.8 75.6 78.8 79.2 79.1 79.1 67.6	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.3	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6	75.0 75.4 78.5 79.1 78.4 79.1 69.5	74.5 75.0 77.1 79.1 78.8 79.2 74.4
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.8 78.2 65.4	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7	74.8 75.6 78.8 79.2 79.1 79.1 67.6 66.7	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.9 78.3 65.0	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6 65.0	75.0 75.4 78.5 79.1 78.4 79.1 69.5 66.4	74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2 68.3	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4	126.6 74.8 75.6 78.8 79.2 79.1 79.1 67.6 66.7 71.8	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.3 65.0 67.7	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6 65.0 70.8	126.5 75.0 75.4 78.5 79.1 78.4 79.1 69.5 66.4 71.4	74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9 69.9
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.8 78.2 65.4	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7	74.8 75.6 78.8 79.2 79.1 79.1 67.6 66.7	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.9 78.3 65.0	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6 65.0	75.0 75.4 78.5 79.1 78.4 79.1 69.5 66.4	74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2 68.3 72.7	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 73.1	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 73.9	126.6 74.8 75.6 78.8 79.2 79.1 79.1 67.6 66.7 71.8 74.4	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.3 65.0 67.7	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4	126.5 75.0 75.4 78.5 79.1 78.4 79.1 69.5 66.4 71.4 74.1	126.0 74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9 69.9 73.1
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2 68.3	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4	126.6 74.8 75.6 78.8 79.2 79.1 79.1 67.6 66.7 71.8	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.9 78.3 65.0 67.7 72.2	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6 65.0 70.8	126.5 75.0 75.4 78.5 79.1 78.4 79.1 69.5 66.4 71.4	74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9 69.9
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2011 2012 2013 2014	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9 74.9 74.7 74.4	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1 75.2 75.0 75.2	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2 68.3 72.7 74.7 74.9 75.8	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4 75.0 74.6 75.9	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5 74.6 74.9 76.1	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6 74.8 75.0 76.4	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 73.1 74.5 74.4 76.8	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4 73.4 74.4 75.1 76.4	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6 74.2 75.2 76.5	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1 74.0 75.3 76.5	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 73.9 74.4 75.3 77.1	126.6 74.8 75.6 78.8 79.2 79.1 67.6 66.7 71.8 74.4 74.9 75.2 77.0	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.3 65.0 67.7 72.2 74.9 74.9 74.9 75.1	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5 74.8 74.9 76.1	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4 74.4 74.9 76.6	126.5 75.0 75.4 78.5 79.1 78.4 79.1 69.5 66.4 71.4 74.1 74.4 75.3 76.8	74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9 69.9 73.1 74.6 75.0 76.2
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2011 2012 2013 2014 2015	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9 74.9 74.7 74.4 76.6	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1 75.2 75.0 75.2 76.1	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2 68.3 72.7 74.7 74.9 75.8 76.5	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4 75.0 74.6 75.9 76.5	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5 74.6 74.9 76.1 76.6	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6 74.8 75.0 76.4 76.4	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 73.1 74.5 74.4 76.8 77.0	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4 74.4 75.1 76.4 76.8	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6 74.2 75.2 76.5 76.6	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1 74.0 75.3 76.5 76.5	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 73.9 74.4 75.3 77.1 76.4	126.6 74.8 75.6 78.8 79.2 79.1 79.1 67.6 66.7 71.8 74.4 74.9 75.2 77.0 76.1	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.3 65.0 67.7 72.2 74.9 74.9 74.9 75.1 76.4	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5 74.8 74.9 76.1 76.5	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4 74.4 74.9 76.6 76.8	126.5 75.0 75.4 78.5 79.1 78.4 79.1 69.5 66.4 71.4 74.1 74.4 75.3 76.8 76.3	126.0 74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9 69.9 73.1 74.6 75.0 76.2 76.5
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2011 2012 2013 2014	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9 74.9 74.7 74.4	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1 75.2 75.0 75.2	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2 68.3 72.7 74.7 74.9 75.8	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4 75.0 74.6 75.9	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5 74.6 74.9 76.1	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6 74.8 75.0 76.4	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 73.1 74.5 74.4 76.8	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4 73.4 74.4 75.1 76.4	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6 74.2 75.2 76.5	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1 74.0 75.3 76.5	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 73.9 74.4 75.3 77.1	126.6 74.8 75.6 78.8 79.2 79.1 67.6 66.7 71.8 74.4 74.9 75.2 77.0	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.3 65.0 67.7 72.2 74.9 74.9 74.9 75.1	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5 74.8 74.9 76.1	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4 74.4 74.9 76.6	126.5 75.0 75.4 78.5 79.1 78.4 79.1 69.5 66.4 71.4 74.1 74.4 75.3 76.8	74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9 69.9 73.1 74.6 75.0 76.2
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2011 2012 2013 2014 2015 2016	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9 74.9 74.7 74.4 76.6 76.4	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1 75.2 75.0 75.2 76.1 76.1	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2 68.3 72.7 74.7 74.9 75.8 76.5 76.0	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4 75.0 74.6 75.9 76.5 75.8	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5 74.6 74.9 76.1 76.6 75.7	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6 74.8 75.0 76.4 76.4 75.9	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 73.1 74.5 74.4 76.8 77.0 75.9	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4 74.4 75.1 76.4 76.8 75.6	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6 74.2 75.2 76.5 76.6 75.7	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1 74.0 75.3 76.5 76.5 75.7	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 73.9 74.4 73.9 74.4 75.3 77.1 76.4 75.7	126.6           74.8           75.6           78.8           79.2           79.1           67.6           66.7           71.8           74.4           74.9           75.2           77.0           76.1           75.8	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.3 65.0 67.7 72.2 74.9 74.9 75.1 76.4 76.1	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5 74.8 74.9 76.1 76.5 75.8	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4 74.4 74.9 76.6 76.8 75.7	126.5 75.0 75.4 78.5 79.1 78.4 79.1 69.5 66.4 71.4 74.1 74.4 75.3 76.8 76.3 75.7	126.0 74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9 69.9 73.1 74.6 75.0 76.2 76.5 75.8
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9 74.9 74.7 74.4 76.6 76.4 75.9	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1 75.2 75.0 75.2 76.1 76.1 76.1 75.9	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2 68.3 72.7 74.7 74.9 75.8 76.5 76.0 75.7	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4 75.0 74.6 75.9 76.5 75.8 76.6	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5 74.6 74.9 76.1 76.6 75.7 76.5	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6 74.8 75.0 76.4 75.9 76.7	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 73.1 74.5 74.4 76.8 77.0 75.9 76.5	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4 74.4 75.1 76.4 76.8 75.6 76.4	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6 74.2 75.2 76.5 76.6 75.7 76.5	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1 74.0 75.3 76.5 76.5 75.7 77.4	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 73.9 74.4 75.3 77.1 76.4 75.7 77.6	126.6           74.8           75.6           78.8           79.2           79.1           67.6           66.7           71.8           74.4           74.9           75.2           77.0           76.1           75.8           77.5	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.3 65.0 67.7 72.2 74.9 74.9 74.9 74.9 75.1 76.4 76.1 75.9	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5 74.8 74.9 76.1 76.5 75.8 76.6	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4 73.4 74.4 74.9 76.6 76.8 75.7 76.5	126.5           75.0           75.4           78.5           79.1           78.4           79.1           69.5           66.4           71.4           74.1           74.3           76.8           76.3           75.7           77.5	74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9 69.9 73.1 74.6 75.0 76.2 76.5 75.8 76.6
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9 74.9 74.7 74.4 76.6 76.4 75.9 77.3	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1 75.2 75.0 75.2 75.0 75.2 76.1 76.1 76.1 75.9 78.1	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2 68.3 72.7 74.7 74.9 75.8 76.5 76.0 75.7 78.1	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4 75.0 74.6 75.9 76.5 75.8 76.6 78.7	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5 74.6 74.9 76.1 76.6 75.7 76.5 78.0	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6 74.8 75.0 76.4 75.9 76.4 75.9 76.7 78.6	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 75.0 64.2 70.6 73.1 74.5 74.4 76.8 77.0 75.9 76.5 78.6	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4 74.4 75.1 76.4 75.1 76.4 75.6 76.4 75.6	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6 74.2 75.2 76.5 76.6 75.7 76.5 78.9	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1 74.0 75.3 76.5 75.7 75.7 77.4 78.6	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 73.9 74.4 75.3 77.1 76.4 75.7 77.6 78.4	126.6           74.8           75.6           78.8           79.2           79.1           67.6           66.7           71.8           74.4           74.9           75.2           77.0           76.1           75.8           77.5           78.8	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.9 78.9 78.3 65.0 67.7 72.2 74.9 74.9 74.9 74.9 75.1 76.4 76.1 75.9 77.8	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5 74.8 74.9 76.1 76.5 75.8 76.6 78.4	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4 74.4 74.9 76.6 76.8 75.7 76.5 78.8	126.5           75.0           75.4           78.5           79.1           78.4           79.1           69.5           66.4           71.4           74.1           74.4           75.3           76.8           76.3           75.7           77.5           78.6	126.0           74.5           75.0           77.1           79.1           78.8           79.2           74.4           64.9           69.9           73.1           74.6           75.0           76.2           76.5           75.8           76.6           78.4
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9 74.9 74.7 74.4 76.6 76.4 75.9	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1 75.2 75.0 75.2 76.1 76.1 76.1 75.9	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2 68.3 72.7 74.7 74.9 75.8 76.5 76.0 75.7	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4 75.0 74.6 75.9 76.5 75.8 76.6	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5 74.6 74.9 76.1 76.6 75.7 76.5	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6 74.8 75.0 76.4 75.9 76.7	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 73.1 74.5 74.4 76.8 77.0 75.9 76.5	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4 74.4 75.1 76.4 76.8 75.6 76.4	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6 74.2 75.2 76.5 76.6 75.7 76.5	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1 74.0 75.3 76.5 76.5 75.7 77.4	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 73.9 74.4 75.3 77.1 76.4 75.7 77.6	126.6           74.8           75.6           78.8           79.2           79.1           67.6           66.7           71.8           74.4           74.9           75.2           77.0           76.1           75.8           77.5	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.3 65.0 67.7 72.2 74.9 74.9 74.9 74.9 75.1 76.4 76.1 75.9	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5 74.8 74.9 76.1 76.5 75.8 76.6	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4 73.4 74.4 74.9 76.6 76.8 75.7 76.5	126.5           75.0           75.4           78.5           79.1           78.4           79.1           69.5           66.4           71.4           74.1           74.3           76.8           76.3           75.7           77.5	74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9 69.9 73.1 74.6 75.0 76.2 76.5 75.8 76.6
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9 74.9 74.7 74.4 76.6 76.4 75.9 77.3 78.0	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1 75.2 75.0 75.2 75.0 75.2 76.1 76.1 75.9 78.1 77.6	125.6 126.9 73.8 75.2 76.1 79.2 79.1 79.2 77.7 64.2 68.3 72.7 74.7 74.9 75.8 76.5 76.0 75.7 78.1 77.4	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4 75.0 74.6 75.9 76.5 75.8 76.6 78.7 77.0	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5 74.6 74.9 76.1 76.6 75.7 76.5 78.0 77.0	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6 74.8 75.0 76.4 75.9 76.4 75.9 76.7 78.6 77.4	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 73.1 74.5 74.4 76.8 77.0 75.9 76.5 78.6 76.9	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4 74.4 75.1 76.4 75.6 76.4 78.9 77.4	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6 74.2 75.2 76.5 76.6 75.7 76.5 78.9 76.9	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1 74.0 75.3 76.5 76.5 75.7 77.4 78.6 76.3	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 75.3 77.1 76.4 75.7 77.6 78.4 77.0	126.6           74.8           75.6           78.8           79.1           67.6           66.7           71.8           74.4           74.9           75.2           77.0           76.1           75.8           77.5           78.8           77.1	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.9 78.9 78.3 65.0 67.7 72.2 74.9 74.9 74.9 75.1 76.4 76.1 75.9 77.8 77.7	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5 74.8 74.9 76.1 76.5 75.8 76.6 78.4 77.1	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4 74.4 74.9 76.6 76.8 75.7 76.5 78.8 77.1	126.5 75.0 75.4 78.5 79.1 78.4 79.1 69.5 66.4 71.4 74.1 74.1 74.4 75.3 76.8 76.3 75.7 77.5 78.6 76.8	126.0           74.5           75.0           77.1           79.1           78.8           79.2           74.4           64.9           69.9           73.1           74.6           75.0           76.2           76.5           75.8           76.6           78.4           77.2
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2020 2020 2021	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9 74.9 74.7 74.4 76.6 76.4 75.9 77.3 78.0 77.0 76.8	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1 75.2 75.0 75.2 76.1 76.1 76.1 75.9 78.1 77.6 77.2 73.7	125.6           126.9           73.8           75.2           76.1           79.2           77.7           64.2           68.3           72.7           74.7           74.9           75.8           76.0           75.7           78.1           77.4           73.6	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4 75.0 74.6 75.9 76.5 75.8 76.5 75.8 76.6 78.7 77.0 62.0 76.1	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5 74.6 74.9 76.1 76.6 75.7 76.5 78.0 77.0 64.9 77.0	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6 74.8 75.0 76.4 76.4 76.4 75.9 76.7 78.6 77.4 70.2 77.2	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 73.1 74.5 74.4 76.8 77.0 75.9 76.5 78.6 76.9 72.8 78.0	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4 74.4 75.1 76.4 76.8 75.6 76.4 75.6 76.4 78.9 77.4 74.0 77.8	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6 74.2 75.2 76.5 76.6 75.7 76.5 76.9 74.1 77.1	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1 74.0 75.3 76.5 76.5 75.7 77.4 78.6 76.3 74.8 78.2	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 73.9 74.4 75.3 77.1 76.4 75.7 77.6 78.4 75.7 77.6 78.4 75.3 79.0	126.6         74.8         75.6         78.8         79.2         79.1         67.6         66.7         71.8         74.4         74.9         75.2         77.0         76.1         75.8         77.1         75.8         77.1         76.0         79.0	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.3 65.0 67.7 72.2 74.9 74.9 74.9 75.1 76.4 76.1 75.9 77.8 77.7 75.9 75.5	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5 74.8 74.9 76.1 76.5 75.8 76.6 78.4 77.1 65.7 76.8	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4 74.4 74.9 76.6 76.8 75.7 76.5 78.8 77.1 73.7 77.6	126.5         75.0         75.4         78.5         79.1         69.5         66.4         71.4         74.1         74.3         76.8         76.3         75.7         77.5         78.6         76.8         75.7         77.5         78.6         76.7         78.7	126.0 74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9 69.9 73.1 74.6 75.0 76.2 76.5 75.8 76.6 75.8 76.6 78.4 77.2 72.7 77.2
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2000 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9 74.9 74.7 74.4 76.6 76.4 75.9 77.3 78.0 77.0 76.8 78.5	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1 75.2 75.0 75.2 76.1 76.1 76.1 75.9 78.1 77.6 77.2 73.7 79.2	125.6           126.9           73.8           75.2           76.1           79.2           77.7           64.2           68.3           72.7           74.7           74.9           75.8           76.0           75.7           78.1           77.4           73.6           76.1           80.0	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4 75.0 74.6 75.9 76.5 75.8 76.5 75.8 76.6 78.7 77.0 62.0 76.1 80.0	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5 74.6 74.9 76.1 76.6 75.7 76.5 78.0 77.0 64.9 77.0 64.9 77.0	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6 74.8 75.0 76.4 75.9 76.4 76.4 75.9 76.7 78.6 77.4 70.2 77.2 79.4	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 73.1 74.5 74.4 76.8 77.0 75.9 76.5 78.6 76.9 72.8 78.0 79.4	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4 74.4 75.1 76.4 75.6 76.4 75.6 76.4 78.9 77.4 74.0 77.8 79.5	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6 74.2 75.2 76.5 76.6 75.7 76.5 76.6 75.7 76.5 78.9 76.9 74.1 77.1 79.7	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1 74.0 75.3 76.5 76.5 75.7 77.4 78.6 76.3 74.8 78.2 79.7	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 73.9 74.4 75.3 77.1 76.4 75.7 77.6 78.4 77.0 75.3 79.0 79.1	126.6         74.8         75.6         78.8         79.2         79.1         67.6         66.7         71.8         74.4         74.9         75.2         77.0         76.1         75.8         77.5         78.8         77.1         76.0         79.0         77.6	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.3 65.0 67.7 72.2 74.9 74.9 74.9 74.9 75.1 76.4 76.1 75.9 77.8 77.7 75.9 75.5 79.3	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5 74.8 74.9 76.1 76.5 75.8 76.6 78.4 77.1 65.7 76.8 79.7	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4 74.4 74.9 76.6 76.8 75.7 76.5 78.8 77.1 73.7 77.6 79.5	126.5           75.0           75.4           78.5           79.1           78.4           79.1           69.5           66.4           71.4           74.1           74.4           75.3           76.8           76.3           75.7           78.6           75.4           78.7           78.8	126.0           74.5           75.0           77.1           79.1           78.8           79.2           74.4           64.9           69.9           73.1           74.6           75.0           76.2           76.5           75.8           76.6           78.4           77.2           79.3
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2000 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9 74.9 74.7 74.4 76.6 76.4 75.9 77.3 78.0 77.0 76.8 78.5 78.9	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1 75.2 75.0 75.2 75.0 75.2 76.1 76.1 76.1 75.9 78.1 77.6 77.2 73.7 79.2 78.8	125.6           126.9           73.8           75.2           76.1           79.2           77.7           64.2           68.3           72.7           74.7           74.9           75.8           76.0           75.7           78.1           77.4           73.6           76.1           80.0           78.2	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4 75.0 74.6 75.9 76.5 75.8 76.5 75.8 76.6 78.7 77.0 62.0 76.1 80.0 78.6	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5 74.6 74.9 76.1 76.6 75.7 76.5 78.0 77.0 64.9 77.0 64.9 77.0 79.7 78.5	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6 74.8 75.0 76.4 75.9 76.4 75.9 76.7 78.6 77.4 70.2 77.2 79.4 77.9	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 75.0 64.2 70.6 73.1 74.5 74.4 76.8 77.0 75.9 76.5 78.6 76.9 72.8 78.0 79.4 78.0	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4 74.4 75.1 76.4 75.6 76.4 75.6 76.4 78.9 77.4 74.0 77.8 79.5 78.0	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6 74.2 75.2 76.5 76.6 75.7 76.5 78.9 76.9 74.1 77.1 79.7 78.0	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1 74.0 75.3 76.5 75.7 77.4 78.6 76.5 75.7 77.4 78.6 76.3 74.8 78.2 79.7 77.3	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 75.3 77.1 76.4 75.3 77.1 76.4 75.7 77.6 78.4 77.0 75.3 79.0 79.1 77.6	126.6         74.8         75.6         78.8         79.2         79.1         67.6         66.7         71.8         74.4         74.9         75.2         77.0         76.1         75.8         77.1         75.8         77.1         76.0         79.0	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.9 78.9 78.3 65.0 67.7 72.2 74.9 74.9 74.9 74.9 75.1 76.4 76.1 75.9 77.8 77.7 75.9 75.5 79.3 78.7	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5 74.8 74.9 76.1 76.5 75.8 74.8 74.9 76.1 76.5 75.8 76.6 78.4 77.1 65.7 76.8 79.7 78.3	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4 74.4 74.9 76.6 76.8 75.7 76.5 78.8 77.1 73.7 77.6 79.5 78.0	126.5         75.0         75.4         78.5         79.1         69.5         66.4         71.4         74.1         74.3         76.8         76.3         75.7         77.5         78.6         76.8         75.7         77.5         78.6         76.7         78.7	126.0 74.5 75.0 77.1 79.1 78.8 79.2 74.4 64.9 69.9 73.1 74.6 75.0 76.2 76.5 75.8 76.6 75.8 76.6 78.4 77.2 72.7 77.2
(percent of 2017 output) 2022 2023 2024 Utilization (percent) 2000 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022	125.4 126.7 73.5 75.4 75.5 79.2 79.7 78.7 78.9 65.4 67.4 71.9 74.9 74.7 74.4 76.6 76.4 75.9 77.3 78.0 77.0 76.8 78.5	125.5 126.8 73.3 75.2 76.1 79.7 79.3 78.8 78.2 65.4 67.3 72.1 75.2 75.0 75.2 76.1 76.1 76.1 75.9 78.1 77.6 77.2 73.7 79.2	125.6           126.9           73.8           75.2           76.1           79.2           77.7           64.2           68.3           72.7           74.7           74.9           75.8           76.0           75.7           78.1           77.4           73.6           76.1           80.0	125.7 127.0 74.0 74.6 76.4 79.3 79.2 79.5 76.8 63.7 69.0 72.4 75.0 74.6 75.9 76.5 75.8 76.5 75.8 76.6 78.7 77.0 62.0 76.1 80.0	125.8 127.1 74.4 74.5 77.0 79.4 78.8 79.4 76.3 63.1 70.0 72.5 74.6 74.9 76.1 76.6 75.7 76.5 78.0 77.0 64.9 77.0 64.9 77.0	125.9 127.2 75.2 74.7 76.5 79.4 78.8 79.7 75.8 63.0 70.1 72.6 74.8 75.0 76.4 75.9 76.4 76.4 75.9 76.7 78.6 77.4 70.2 77.2 79.4	126.0 127.3 75.1 74.9 77.3 78.9 78.4 79.6 75.0 64.2 70.6 73.1 74.5 74.4 76.8 77.0 75.9 76.5 78.6 76.9 72.8 78.0 79.4	126.1 127.4 75.1 74.4 77.6 79.1 78.8 79.2 74.1 65.0 70.8 73.4 74.4 75.1 76.4 75.6 76.4 75.6 76.4 78.9 77.4 74.0 77.8 79.5	126.2 127.5 75.1 75.0 77.6 77.9 78.6 79.3 71.5 65.8 71.0 73.6 74.2 75.2 76.5 76.6 75.7 76.5 76.6 75.7 76.5 78.9 76.9 74.1 77.1 79.7	126.4 127.6 74.9 75.0 78.3 78.8 78.1 78.9 71.3 65.9 71.2 74.1 74.0 75.3 76.5 76.5 75.7 77.4 78.6 76.3 74.8 78.2 79.7	126.5 127.8 75.3 75.7 78.3 79.4 78.1 79.2 69.7 66.7 71.4 73.9 74.4 75.3 77.1 76.4 75.7 77.6 78.4 77.0 75.3 79.0 79.1	126.6         74.8         75.6         78.8         79.2         79.1         67.6         66.7         71.8         74.4         74.9         75.2         77.0         76.1         75.8         77.5         78.8         77.1         76.0         79.0         77.6	125.5 126.8 73.5 75.3 75.9 79.3 79.4 78.9 78.3 65.0 67.7 72.2 74.9 74.9 74.9 74.9 75.1 76.4 76.1 75.9 77.8 77.7 75.9 75.5 79.3	125.8 127.1 74.5 74.6 76.7 79.4 78.9 79.5 76.3 63.3 69.7 72.5 74.8 74.9 76.1 76.5 75.8 76.6 78.4 77.1 65.7 76.8 79.7	126.1 127.4 75.1 74.8 77.5 78.6 78.6 78.6 78.6 79.4 73.6 65.0 70.8 73.4 74.4 74.9 76.6 76.8 75.7 76.5 78.8 77.1 73.7 77.6 79.5	126.5           75.0           75.4           78.5           79.1           78.4           79.1           69.5           66.4           71.4           74.1           74.4           75.3           76.8           76.3           75.7           78.6           75.4           78.7           78.8	126.0           74.5           75.0           77.1           79.1           78.8           79.2           74.4           64.9           69.9           73.1           74.6           75.0           76.2           76.5           75.8           76.6           78.4           77.2           79.3

## Table 14 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing' Excluding Selected High-Technology Industries<sup>2</sup> Seasonally adjusted

The composition of manufacturing is specified in a note for the summary table.
 Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.
 Quarterly percentage changes are at annual rates. Annual percentage changes are calculated from annual averages.

## Table 15 INDUSTRIAL PRODUCTION: RELIABILITY ESTIMATES Seasonally adjusted

Annualized change 2017=100 Percent change 2024 2024 2024 Q2 Q3 July Item June Aug. Sept. Oct. Nov. June July Aug. Sept. Oct. Nov. Total index 85th percentile 2.45 -.15 103.25 102.59 103.19 102.72 102.46 102.36 .27 -.64 .64 -.38 -.11 .17 2.45 103.25 102.53 .27 -.70 Current estimate -.57 103.08 102.53 102.11 101.96 .54 -.54 -.41 -.15 15th percentile 2.45 1.04 103.25 102.47 102.97 102.35 101.80 101.52 .27 .43 .66 -.76 -.66 -.53 Manufacturing (SIC) 85th percentile 1.28 -.31 99.44 98.86 99.54 99.12 98.48 98.76 -.04 -.58 .71 -.38 -.53 .46 Current estimate 1.28 -.79 99.44 98.80 99.41 98.91 98.21 98.38 -.04 -.64 -.51 -.71 .62 .17 97.90 .04 1.28 99.44 99.29 97.81 -.92 15th percentile 1.32 98.74 98.69 -.70 .51 .65 -.18 Mining 2.11 85th percentile 2.18 119.22 118.72 120.51 119.93 120.55 119.75 1.64 -.22 .05 .77 -.41 .81 2.11 .77 119.22 118 58 120.19 119.39 119.24 118 18 -.53 1 35 - 89 Current estimate 1.24 - 66 - 13 119.22 118.40 117.97 116.47 15th percentile 2.11 .18 119.81 118.84 .77 -.68 1.06 1.03 .87 1.88 Electric and gas utilities 85th percentile 11.30 -.28 108.84 107.46 106.38 106.24 109.04 107.74 1.69 -1.27 -.99 -.02 3.12 .56 Current estimate 11.30 -1.45 108.84 107.44 106.29 105.64 107.06 105.64 1.69 -1.28 -1.08-.60 1.34 -1.33 11.30 108.84 107.43 106.20 104.30 15th percentile -1.88 105.41 105.75 1.69 -1.29 -1.17 .84 -.18 -3.09

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

#### EXPLANATORY NOTE

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

#### INDUSTRIAL PRODUCTION

Coverage. The industrial production (IP) index measures the real output of 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-that have traditionally been considered to be manufacturing and included in the industrial sector. For the period since 2012, the total IP index has been constructed from 296 individual series based on the 2017 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 x 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 77 percent of the source data (in value-added terms) are available; the fraction of available source data increases to 85 percent for estimates in the second month that the estimate is published, 94 percent in the third month, 98 percent in the fourth month, 99 percent in the fifth month, and 99 percent in the sixth month. Data availability by data type in 2023 is summarized in the table below:

Availability of Monthly IP Data in Publication Window (Percent of value added in 2023; the numbers may not sum because of rounding.)

Touriding.)											
	Mon	th of estimate									
Type of data	1st	2nd	3rd	4th	5th	6th					
Physical product	33	41	51	54	55	55					
Production-worker hours	44	44	44	44	44	44					
IP data received	77	85	94	98	99	99					
IP data estimated	23	15	6	2	1	1					

The physical product group includes series based on either monthly or quarterly data. As can be seen in the first row of the table, in the first month, a physical product indicator is available for 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 55 percent). Of the 33 percent, about two-thirds (23 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 March 2024; for other series, the factors were estimated with data through March 2024, 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 aggregate indexes are calculated by aggregating the seasonally adjusted indexes of the individual series. Additional documentation and X-13 specifications can be found on the Board's website at www.federalreserve.gov/releases/G17/About.htm.

**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 1987–2023 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 1987-2023 period. In most cases (about 85 percent), the direction of the change in output indicated by the first estimate for a given month is the same as that shown by the fourth estimate.

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

#### CAPACITY UTILIZATION

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

Coverage. Capacity indexes are constructed for 89 detailed industries (71 in manufacturing, 16 in mining, and 2 in utilities), which mostly correspond to industries at the three- and four-digit North American Industry Classification System, or NAICS, level. Estimates of capacity and utilization are available for a variety of groups, including durable and nondurable manufacturing, total manufacturing, mining, utilities, and total industry. Manufacturing consists of those industries included in the NAICS definition of manufacturing plus those industries-logging and newspaper, periodical, book, and directory publishing-that have traditionally been considered to be manufacturing and included in the industrial sector. Also, special aggregates are available, such as high-technology industries and manufacturing excluding high-technology industries.

Source Data. The monthly rates of capacity utilization are designed to be consistent with both the monthly data on production and the periodically available data on capacity and utilization. Because there is no direct monthly information on overall industrial capacity or utilization rates, the Federal Reserve first estimates annual capacity indexes from the source data. Capacity data reported in physical units from government sources (primarily from the U.S. Geological Survey and the Department of Energy's Energy Information Administration) and trade sources are available for portions of several industries in manufacturing (for example, paper, industrial chemicals, petroleum refining, motor vehicles), as well as for electric utilities and mining; these industries represent about 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 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 1972–2023 period, the average total industry utilization rate was 79.7 percent; for manufacturing, the average factory operating rate was 78.3 percent. Industrial plants usually operate at capacity utilization rates that are well below 100 percent: none of the broad aggregates has ever reached 100 percent. For total manufacturing, utilization rates have exceeded 90 percent only in wartime. The highs and lows in capacity utilization are specific to each series and do not all occur in the same month.

#### **REFERENCES AND RELEASE DATES**

**References.** The release for the annual revision that was published on June 28, 2024, 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.

2024: January 17, February 15, March 15, April 16, May 16, June 18, June 28 (annual revision), July 17, August 15, September 17, October 17, November 15, December 17.

2025: January 17, February 14, March 18, April 16, May 15, June 17, July 16, August 15, September 16, October 17, November 18, and December 16.

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