FEDERAL RESERVE statistical release



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INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production (IP) ticked up 0.1 percent in August after decreasing 0.4 percent in July. Manufacturing output rose 0.2 percent in August after edging down 0.1 percent in July. Within manufacturing, the production of motor vehicles and parts increased 2.6 percent in August, while factory output elsewhere edged

(over)

Industrial Production and Capacity Utilization: Summary

Seasonally adjusted	
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			2017=	100						Percent	change		
	2025						2025						Aug. '24 to
Industrial production	Mar. ^r	Apr. ^r	May ^r	June	July	Aug. ^p	Mar. ^r	Apr. ^r	May	June ^r	July	Aug. ^p	Aug. '25
Total index	103.5	103.6	103.7	104.2	103.8	103.9	3	.1	.0	.5	4	.1	.9
Previous estimates	103.6	103.7	103.7	104.1	104.0		2	.0	.1	.4	1		
Major market groups													
Final Products	101.2	101.1	101.2	101.5	101.5	101.7	3	1	.1	.4	.0	.2	.7
Consumer goods	101.9	101.7	101.6	102.0	101.7	102.1	9	2	1	.4	2	.4	2
Business equipment	95.9	96.2	97.1	97.4	97.8	97.7	1.5	.4	.9	.2	.5	1	4.1
Nonindustrial supplies	102.4	102.0	102.0	102.2	101.4	101.3	.0	4	1	.2	8	1	.3
Construction	103.4	101.9	101.9	102.0	101.1	101.7	.9	-1.4	.0	.1	9	.6	1.2
Materials	105.9	106.3	106.3	107.2	106.6	106.7	5	.4	.0	.8	5	.1	1.2
Major industry groups													
Manufacturing (see note below)	100.2	99.7	99.9	100.1	100.0	100.3	.5	4	.1	.3	1	.2	.9
Previous estimates	100.3	99.8	100.0	100.2	100.2		.6	5	.2	.3	.0		
Mining	121.4	121.2	121.5	122.1	120.3	121.4	1.5	2	.3	.4	-1.5	.9	1.0
Utilities	103.5	107.8	106.6	109.4	108.6	106.4	-8.2	4.1	-1.1	2.6	7	-2.0	.1
													Capacity
					Perce	ent of cap	acity						growth
	Average	1988-	1990-	1994-									
	1972-	89	91	95	2009	2024	2025						Aug. '24 to
Capacity utilization	2024	high	low	high	low	Aug.	Mar.r	Apr.r	May	June ^r	July ^r	Aug. ^p	Aug. '25
Total industry	79.6	85.2	78.7	84.8	66.6	77.9	77.6	77.5	77.5	77.8	77.4	77.4	1.5
Previous estimates							77.7	77.6	77.5	77.7	77.5		
Manufacturing (see note below)	78.2	85.5	77.1	84.4	63.5	77.0	77.0	76.6	76.7	76.8	76.7	76.8	1.2
Previous estimates							77.1	76.7	76.7	76.9	76.8		
Mining	86.5	86.3	84.3	88.6	78.9	90.1	91.0	90.8	91.0	91.3	89.9	90.6	.4
Utilities	84.2	93.2	84.7	93.2	78.1	71.1	67.8	70.4	69.3	71.0	70.2	68.6	3.7
Stage-of-process groups													
Crude	85.6	87.9	84.9	90.0	77.0	87.5	88.1	88.4	88.2	88.6	87.5	88.2	.6
Primary and semifinished	80.1	86.5	77.6	87.5	63.7	76.4	75.5	75.7	75.5	76.0	75.6	75.2	1.7
Finished	76.7	83.3	77.6	80.4	66.2	75.5	75.7	75.3	75.3	75.4	75.4	75.5	1.6
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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.

up 0.1 percent. The index for mining moved up 0.9 percent, and the index for utilities decreased 2.0 percent. At 103.9 percent of its 2017 average, total IP in August was 0.9 percent above its year-earlier level. Capacity utilization maintained the same rate of 77.4 percent in August, a rate that is 2.2 percentage points below its long-run (1972–2024) average.

Market Groups

The major market groups posted mixed results in August. The index of consumer durables gained 0.6 percent, largely driven by a 1.3 percent increase in automotive products, while the index of consumer nondurables rose 0.3 percent with gains in nearly all of its categories. The index for business equipment edged down 0.1 percent, as a 1.2 percent decline in the output of industrial and other equipment more than offset a 2.1 percent gain in the output of transit equipment and a 0.7 percent gain in the output of information processing equipment. The index for construction supplies rose 0.6 percent, while the index for business supplies fell 0.4 percent. The index for materials edged up 0.1 percent.

Industry Groups

Manufacturing output increased 0.2 percent in August and was 0.9 percent above its year-earlier level. In August, the durable manufacturing index increased 0.2 percent after increasing 0.3 percent in July. Among the largest durables indexes by weight, motor vehicles and parts posted a 2.6 percent increase in August while fabricated metal products and machinery both posted declines. The nondurable manufacturing index increased 0.3 percent in August after dropping 0.5 percent in July. Among nondurables, the largest gains in August were posted by textile and product mills (2.5 percent) and by petroleum and coal products (1.6 percent), while the largest decline was posted by plastics and rubber products (0.7 percent). The indexes for chemicals and for food, beverage, and tobacco products—the largest nondurable goods industry groups by weight—posted gains of 0.3 percent and 0.2 percent, respectively.

Mining output grew 0.9 percent in August after falling 1.5 percent in July. In August, the index for utilities decreased 2.0 percent, as a 2.3 percent decline in the output of electric utilities more than offset a 0.2 percent increase in the output of natural gas utilities.

Capacity utilization for manufacturing ticked up 0.1 percentage point in August to 76.8 percent, a rate that is 1.4 percentage points below its long-run (1972–2024) average. The operating rate for mining rose 0.7 percentage point to 90.6 percent, and the operating rate for utilities moved down 1.6 percentage points to 68.6 percent. The rate for mining was 4.1 percentage points above its long-run average, while the rate for utilities remained substantially below its long-run average.

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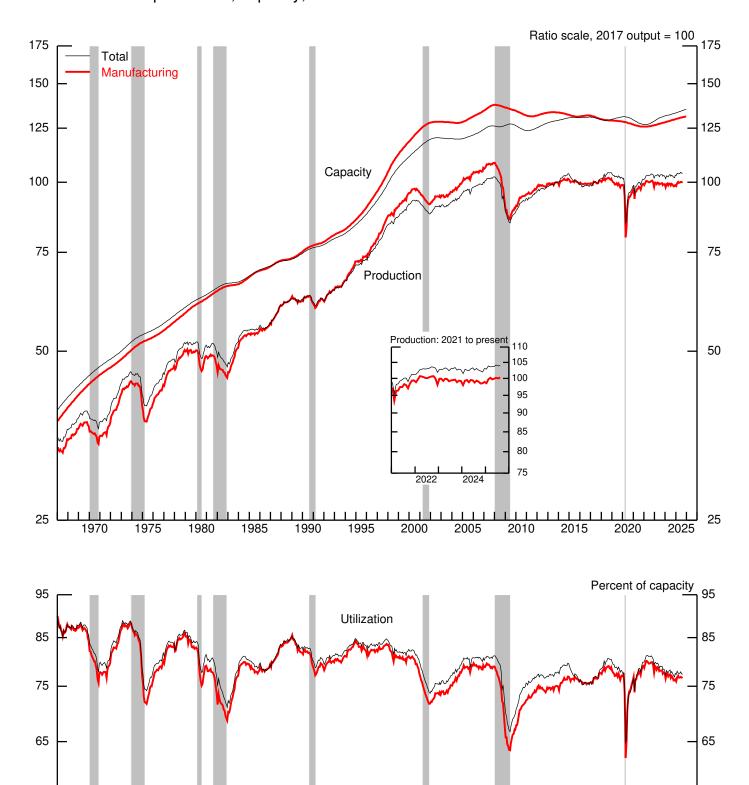
Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

Revision of Industrial Production and Capacity Utilization

The Federal Reserve Board tentatively plans to issue its annual revision to the indexes of industrial production (IP) and the related measures of capacity utilization in the fourth quarter of 2025. Series will be newly benchmarked using information from the 2022 Economic Census. The weights for market-group splits of the industry-level indexes will be updated with information from the 2017 benchmark input-output accounts from the U.S. Bureau of Economic Analysis. Other annual data, including information on the mining of metallic and nonmetallic minerals (except fuels), will be incorporated. The updated IP indexes will include revisions to the monthly indicator (either product data or input data) and to seasonal factors for each industry. In addition, the estimation methods for some series may be changed. Any modifications to the methods for estimating the output of an industry will affect the index from 1972 to the present.

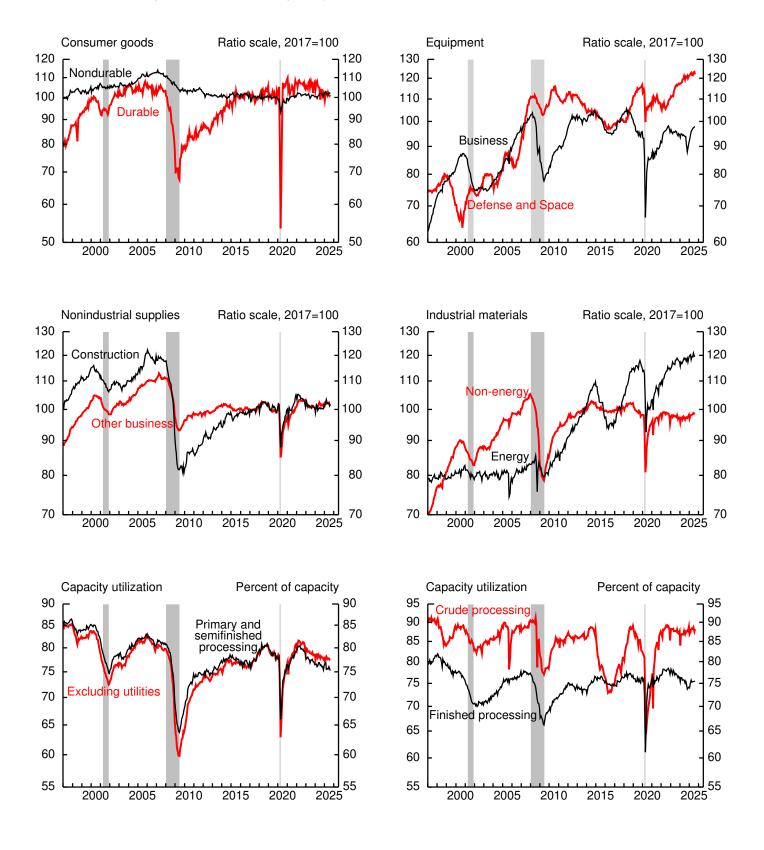
Capacity and capacity utilization will be revised to incorporate data for manufacturing through the fourth quarter of 2024 from the U.S. Census Bureau's Quarterly Survey of Plant Capacity Utilization, along with new data on capacity from the U.S. Geological Survey, the U.S. Department of Energy, and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

1. Industrial production, capacity, and utilization



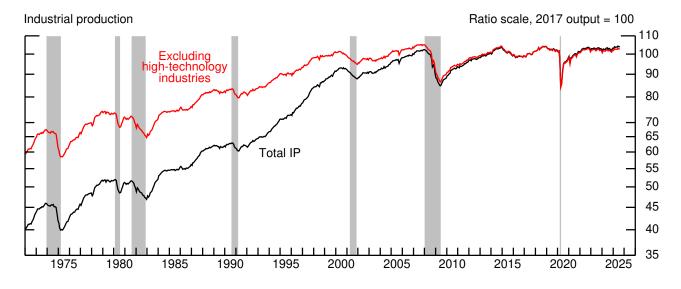
Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

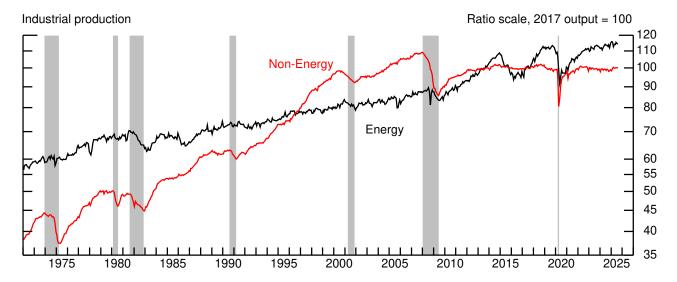
2. Industrial production and capacity utilization

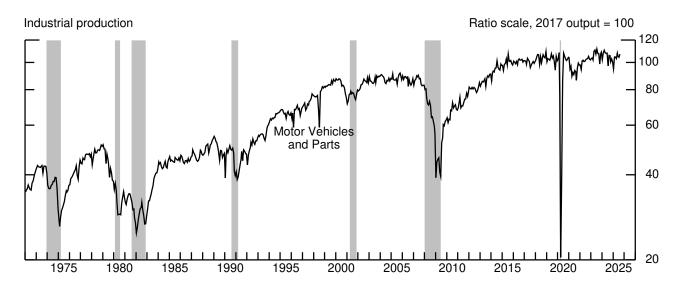


Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

3. Industrial production of selected industries







Notes: High-technology industries are defined as semiconductors and related electronic components (NAICS 3344), computers (NAICS 3341), and communications equipment (NAICS 3342).

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

Table 1 INDUSTRIAL PRODUCTION: MARKET AND INDUSTRY GROUP SUMMARY

Percent change, seasonally adjusted

Percent change, seasonally adjusted			1	th quart irth quar		Aı	nnual rat	te			Month	ıly rate			Aug. '24
Item		2024				2024	2025		2025					. n	to
		proportion ¹	2022	2023	2024	Q4	Q1 ^r	Q2 ^r	Mar. ^r	Apr. ^r	May ^r	Juner	July ^r	Aug. ^p	Aug. '25
Total IP		100.00	1.8	1	3	-1.2	4.1	1.6	3	.1	.0	.5	4	.1	.9
MARKET GROUPS															
Final products and nonindustrial supplies	3	54.44	1.9	-1.0	9	-3.3	6.2	.8	2	2	.0	.3	3	.1	.6
Consumer goods Durable		27.76 5.97	-1.3	6 .2	5 -4.1	-2.3 -3.6	3.0	-1.3 1.2	9 2	2 -1.3	1 1.4	.4 -1.5	2	.4 .6	2 -2.4
Automotive products		3.97	-1.5	1.6	-6.6	-8.5	.1	9.1	2	-1.7	2.7	-2.8	4 6	1.3	-2.4
Home electronics		.14	4	20.1	6.2	7.4	6.2	4.1	-1.6	.7	2.6	2	2.9	-1.7	7.2
Appliances, furniture, carpeting		.94	-9.0	-4.6	-2.5	9.3	-6.2	-12.6	-3.2	6	.7	.2	1	1.9	.0
Miscellaneous goods		1.68	-1.0	-1.3	-1.1	-1.7	2.6	-5.0	.4	-1.2	8	.1	3	-1.2	-2.1
Nondurable		21.79	1.2	8	.5	-1.9	3.8	-2.0	-1.0	.1	5	.9	2	.3	.4
Non-energy Foods and tobacco		16.19 9.69	.6 4	3 -1.4	-2.1	-2.6 -2.9	2.4	1.3	1.0	8 8	5 .2	.6	2 6	.4	.5 .2
Clothing		.15	7	-10.0	-2.1 -9.5	-16.6	12.0	-3.8	1.1	-3.3	2.7	8	-1.1	1.2	-2.5
Chemical products		5.20	3.2	3.1	6.5	-1.7	5.0	2	1.3	5	-1.8	1.1	.4	.7	1.7
Paper products		.76	-4.2	-6.0	-4.3	-5.9	-1.8	-8.0	.5	-2.6	4	.3	8	.7	-4.0
Energy		5.60	2.5	-2.0	1.1	.1	8.2	-8.2	-6.6	2.9	6	1.5	.0	.0	.3
Business equipment		0.55	6.8	2.4	5.2	12.2	22.5	11.6	1.5	4	.9	.2	.5	1	4.1
Transit		8.55 1.61	19.1	-2.4 4	-5.2 -22.7	-13.3 -53.7	22.5 154.1	11.6 55.5	4.0	.4 1.7	5.5	.2	2.1	1 2.1	4.1 16.0
Information processing		1.78	-1.0	.7	3.5	4.0	6.4	.8	1.4	-1.0	.2	.4	9	.7	3.3
Industrial and other		5.16	6.1	-4.1	-2.3	-2.5	3.9	3.2	.8	.4	4	1	.3	-1.2	.3
Defense and space equipment		1.77	1.7	6.8	3.4	2.3	4.2	3	.4	7	4	1.3	.3	-1.1	1.0
Construction supplies		5.23	-1.7	-1.4	.1	1.6	6.6	-1.4	.9	-1.4	.0	.1	9	.6	1.2
Business supplies		10.51	2.2	-1.6	.6	7	3.3	1	5	.2	1	.3	8	4	1
Materials		45.56	1.8	1.0	.5	1.4	1.6	2.5	5	.4	.0	.8	5	.1	1.2
Non-energy		27.21	9	1	.4	1.9	.5	3.1	.3	.0	.2	.4	1	.1	1.5
Durable Consumer ports		16.74 2.88	1.5	4 3.9	5 -4.1	6 -4.2	2.8 -4.0	5.0	.4	.2 -1.4	2.8	.1 -1.3	3 .1	.2	1.5 -1.3
Consumer parts Equipment parts		4.68	3.0	1	3.8	1.0	8.8	6.3	6	-1.4	.5	-1.5	.1	2	4.8
Other		9.19	.1	-1.9	-1.4	3	1.8	5.0	.8	.5	4	.5	-1.0	.2	.7
Nondurable		10.47	-4.4	.4	1.8	5.9	-3.1	.1	.0	4	2	1.0	.1	2	1.4
Textile		.30	-7.9	-6.9	2.9	-10.8	5.4	-2.4	.4	8	.3	-2.0	.9	3.0	-1.6
Paper Chemical		1.49 5.41	-4.7 -6.3	-5.2 3.5	2.7	.5	.9 -5.9	-1.5 1.9	.4	7 6	-1.1 1	2.9	-1.0 .4	.4 .1	1.2 3.7
Energy		18.35	5.3	2.7	.6	.7	3.4	1.6	-1.5	1.0	1	1.3	-1.0	.0	.8
INDUSTRY GROUPS															
Manufacturing		74.78	.5	4	5	-1.7	3.4	1.9	.5	4	.1	.3	1	.2	.9
Manufacturing (NAICS)	31–33	73.29	.6	3	4	-1.4	3.4	2.2	.6	4	.2	.2	1	.2	1.1
Durable manufacturing	224	36.99	2.3	4	-1.6	-3.7	7.0	3.5	.5	3	.6	2	.3	.2	1.5
Wood products Nonmetallic mineral products	321 327	1.63 2.30	-4.5 4.4	-1.4	-2.6	7.0	-1.2 5.5	-4.4 -12.6	-1.5 .4	-1.3 -2.3	1.6 -1.6	-1.9 -1.4	.0	.6 1.2	.2 6
Primary metals	331	2.69	-5.2	1.9	-2.0	-5.2	7.3	3.1	1.1	1	8	2.9	.3	.4	2.9
Fabricated metal products	332	6.14	1.9	-1.8	-1.6	-2.4	1	5.2	.4	1.4	8	1	.3	1	.8
Machinery	333	5.69	3.4	-3.6	6	5	6.5	.4	.9	5	4	1.2	3	5	1.9
Computer and electronic products	334	4.43	.6	2.9	4.6	4.3	10.2	5.4	.7	.4	.5	.1	1.0	.5	6.7
Electrical equip., appliances, and components	335	2.19	2.7	-1.2	2.6	-3.1	1.0	-6.2	9	-1.9	2.5	-3.4	.6	-1.5	-5.7
Motor vehicles and parts	3361–3	5.36	5.8	1.6	-3.5	-6.2	.3	16.9	.2	-1.4	4.5	-2.6	7	2.6	1.1
Aerospace and miscellaneous															
transportation equipment	3364–9	3.01	9.7	3.0	-9.9	-29.2	62.0	15.4	1.8	1.1	.5	1.7	1.5	6	6.0
Furniture and related products Miscellaneous	337 339	.96 2.59	-3.5 3.6	-10.5 .7	-3.6 -4.5	-5.6 .8	-3.2 9	3.9 -6.3	7 .4	1.2 -1.0	.5 -1.1	1.1 5	1.2	-1.7 -1.7	-1.6 -1.8
1.113cenancous	339	2.37	3.0	. /	7.3	.0	,	0.3	.7	-1.0	-1.1	5	.,	-1./	-1.0
Nondurable manufacturing		36.29	-1.1	1	.9	.9	2	1.0	.6	5	2	.7	5	.3	.7
Food, beverage, and tobacco products	311,2	12.06	0.	-1.4	-1.8	-2.4	1.2	1.1	.7	6	.1	.5	6	.2	.2
Textile and product mills	313,4	.52 .17	-9.6	-6.5	6	-3.9	1.5 11.4	.0 -3.1	8 1.2	1 -3.6	.6	1	5 -1.4	2.5	1 2.1
Apparel and leather Paper	315,6 322	2.21	.2 -6.0	-8.8 -3.3	-8.6 1.4	-15.2 1.3	-3.6	-3.1 -3.1	1.2 2	-3.0 -1.0	2.9	4 2.2	-1.4 6	1.4 5	-2.1 8
Printing and support	323	1.35	1.2	-10.2	3.9	-6.0	5.0	-2.9	-1.0	.2	6	.2	-1.2	3	-2.6
Petroleum and coal products	324	4.20	-2.6	3.9	1.9	6.5	-5.7	6	1	-1.4	1.7	.9	8	1.6	1.4
Chemicals	325	12.11	-1.3	2.1	4.8	6.6	.2	2.0	.9	2	-1.1	1.1	.1	.3	3.0
Plastics and rubber products	326	3.67	.2	.3	-4.2	-8.0	.1	3.2	1.6	3	5	3	-1.5	7	-3.9
Other manufacturing (non-NAICS)	1133,5111	1.50	-1.6	-8.1	-6.0	-13.2	2.9	-14.1	-1.0	-2.8	-2.2	.6	9	.4	-7.3
Mining	21	14.37	6.2	2.6	5	.9	.0	7.0	1.5	2	.3	.4	-1.5	.9	1.0
Utilities Electric	2211,2 2211	10.85 9.54	4.1 2.6	-1.2	1.4 2.0	6 3.0	14.6 11.9	-7.4 -6.6	-8.2 -6.7	4.1 3.5	-1.1 -1.2	2.6	7 1	-2.0 -2.3	.1
Natural gas	2211	1.31	13.3	-8.7	-2.6	-23.2	36.4	-13.5	-18.3	9.1	-1.2	6.1	1 -4.9	-2.3	.8 -4.5
	2212	1.51	15.5	3.7	2.0	-5.2	20.1	13.3	10.5	7.1		0.1	1.7		

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/G17/20250916/default.sup.htm). Under market groups, in the products category, miscellaneous consumer nondurables, oil and gas well drilling, and manufactured homes are not shown separately; in the nondurable materials category, containers and miscellaneous nondurable materials are not shown separately.

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

rercent change, seasonally adjusted		2024		rth quart urth quai			nnual rat	e	2025		Month	nly rate			Aug. '24
Item		2024 proportion	2022	2023	2024	2024 Q4	2025 Q1 ^r	Q2 ^r	2025 Mar. ^r	Apr.r	May ^r	June ^r	July ^r	Aug. ^p	to Aug. '25
Total industry		100.00	1.8	1	3	-1.2	4.1	1.6	3	.1	.0	.5	4	.1	.9
Energy		27.31	5.1	1.3	.8	.7	4.1	3	-2.7	1.5	1	1.3	8	1	.7
Consumer products		5.60	2.5	-2.0	1.1	.1	8.2	-8.2	-6.6	2.9	6	1.5	.0	.0	.3
Commercial products	212111	2.82	6.3	.4	3.6	3.8	2.7	6.2	-2.8	2.7	1.2	1.0	9	-1.2	2.1
Oil and gas well drilling Converted fuel	213111	5.30	21.4	-7.9 2.4	-9.2 1.8	-11.5 1.9	-6.6 8.8	-11.1 -8.0	-8.3	-1.7 2.4	-2.6 1.0	6 1.9	-2.1 1	1.9	-8.5 1.6
Primary energy		13.05	6.0	2.9	.0	.3	1.3	5.7	1.4	.5	6	1.0	-1.4	.6	.5
Non-energy		72.69	.5	6	7	-1.9	4.1	2.3	.6	4	.1	.3	2	.2	1.0
Selected high-technology industries		1.89	6.5	7.8	7.5	6.9	17.6	14.5	4	2.6	1.5	4	4.4	1	13.8
Computers and peripheral equipment	3341	.23	8.2	6.9	8.4	17.7	18.1	11.1	6	.5	3.8	6	3.4	-2.4	14.6
Communications equipment	3342	.41	10.4	14.3	6.5	6.1	5.3	5.9	.4	.6	.4	.5	.5	.5	6.0
Semiconductors and related electronic components	3344	1.26	5.0	5.9	7.7	5.4	21.6	17.9	6	3.6	1.4	7	5.8	.1	16.2
Excluding selected high-technology industries		70.79	.3	8	9	-2.1	3.7	1.9	.6	5	.1	.3	3	.2	.6
Motor vehicles and parts	3361-3	5.36	5.8	1.6	-3.5	-6.2	.3	16.9	.2	-1.4	4.5	-2.6	7	2.6	1.1
Motor vehicles	3361	2.54	11.0	1.3	-4.1	-8.4	1	27.5	1	-1.8	7.8	-4.8	.3	4.5	3.3
Motor vehicle parts	3363	2.30	7.3	2.7	6	-2.1	-5.0	12.1	4	7	3.5	-1.1	-1.5	1.8	.6
Excluding motor vehicles and parts		65.43	1	-1.0	7	-1.8	4.0	.8	.7	5	3	.5	3	.0	.6
Consumer goods		19.37	1	6	2	-2.1	1.9	-1.0	.7	8	5	.6	3	.3	.0
Business equipment Construction supplies		7.28 5.22	6.0	-3.0 -1.5	-6.4 .1	-15.5 1.6	24.0	9.1	1.6	.5 -1.4	.2 1	.6	.3 9	7 .6	2.5 1.2
Business supplies		7.31	.7	-2.8	9	-2.7	2.8	-3.3	.4	-1.4	6	.0	-1.0	1	-1.7
Materials		24.45	-1.9	6	.2	2.0	.2	1.7	.4	1	2	.6	3	1	1.0
Measures excluding selected high-technology industries															
Total industry		98.11	1.7	3	4	-1.4	3.8	1.3	3	.0	.0	.6	5	.1	.6
Manufacturing ¹ Durable		72.89 35.23	2.0	6 9	7 -2.2	-1.9 -4.2	3.0 6.4	1.6 2.9	.5 .5	5 4	.1 .5	.3 2	2 .1	.2 .2	.6 .9
Measures excluding motor vehicles and parts															
Total industry		94.64	1.6	2	1	9	4.3	.8	3	.2	2	.7	4	.0	.9
Manufacturing ¹		69.42	.1	6	3	-1.3	3.6	.9	.6	4	2	.5	1	.1	.9
Durable		31.76	1.7	8	-1.4	-3.2	8.2	1.5	.5	1	1	.2	.5	2	1.6
Measures excluding selected high-technology industries															
and motor vehicles and parts Total industry		92.74	1.5	3	3	-1.1	4.0	.5	- 3	1	- 2	7	5	.0	.6
Manufacturing ¹		67.53	1	8	5	-1.6	3.2	.5	.6	5	2	.5	2	.1	.6
Stage-of-process components of non-energy materials, measures of the input to Finished processors Primary and semifinished processors		9.34 17.87	1.5 -2.0	.1	1.1	-1.0 3.4	3.5	3.8 2.8	.1	3 .1	.9	.1	.4 4	.3	2.1 1.1
rimary and seministical processors		17.87	-2.0	2	.1	3.4	-1.1	2.8	.4	.1	3	0.	4	1	1.1

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

willions of units, seasonally adjusted allitual rate											
	2024	2024		2025		2025					
Item	average	Q3	Q4	Q1	Q2	Mar.	Apr.	May	June	July	Aug.
Total	10.53	10.22	10.27	10.01	10.75	10.30	10.40	11.11	10.75	10.42	11.04
Autos	1.42	1.37	1.34	1.25	1.32	1.34	1.32	1.28	1.35	1.37	1.21
Trucks	9.11	8.84	8.93	8.75	9.44	8.96	9.08	9.83	9.40	9.05	9.84
Light	8.78	8.53	8.63	8.47	9.17	8.69	8.81	9.56	9.13	8.81	9.57
Medium and heavy	.33	.31	.30	.28	.27	.28	.27	.27	.27	.25	.27
Memo Autos and light trucks	10.20	9.90	9.97	9.72	10.48	10.02	10.13	10.84	10.48	10.17	10.77

Note. Seasonal factors and underlying data for auto, light truck, and medium and heavy truck production are available on the Board's website, www.federalreserve.gov/releases/G17/mvsf.htm

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

Table 4 INDUSTRIAL PRODUCTION INDEXES: MARKET AND INDUSTRY GROUP SUMMARY

2017 =	= 100.	seasonally	adjusted

2017 = 100, seasonally adjusted											
Item		2024 proportion	2024 Dec.	2025 Jan.	Feb.	Mar. ^r	Apr.r	May ^r	June ^r	July ^r	Aug. ^p
Total IP		100.00	103.0	102.9	103.9	103.5	103.6	103.7	104.2	103.8	103.9
		100.00	100.0	102.5	100.5	100.0	100.0	100.7	102	100.0	100.5
MARKET GROUPS Final products and nonindustrial supplies		54.44	100.4	100.6	101.7	101.6	101.4	101.4	101.7	101.5	101.6
Consumer goods		27.76	100.4	101.6	101.7	101.0	101.4	101.4	101.7	101.3	102.1
Durable		5.97	100.7	98.6	102.7	102.5	101.1	102.5	101.0	100.7	101.3
Automotive products		3.21	99.6	95.1	103.8	104.2	102.4	105.2	102.2	101.6	102.9
Home electronics		.14	206.1	209.5	207.8	204.4	205.9	211.2	210.7	216.9	213.1
Appliances, furniture, carpeting		.94	84.4	84.8	82.0	79.4	78.9	79.5	79.6	79.6	81.2
Miscellaneous goods		1.68	105.7	106.2	106.7	107.1	105.9	105.0	105.1	104.8	103.6
Nondurable		21.79	101.9	102.4	102.8	101.7	101.8	101.3	102.2	102.0	102.3
Non-energy		16.19 9.69	101.0 97.3	100.9 96.4	101.9 97.2	102.9 98.0	102.0 97.3	101.5 97.4	102.2 97.9	101.9 97.3	102.4 97.6
Foods and tobacco Clothing		.15	74.4	75.9	76.3	77.1	74.6	76.6	76.0	75.2	76.1
Chemical products		5.20	115.2	116.7	118.2	119.7	119.2	117.0	118.3	118.8	119.6
Paper products		.76	72.9	73.6	74.6	74.9	73.0	72.7	72.9	72.3	72.8
Energy		5.60	103.8	106.0	104.6	97.7	100.5	99.9	101.4	101.4	101.4
Business equipment		8.55	91.4	92.5	94.4	95.9	96.2	97.1	97.4	97.8	97.7
Transit		1.61	61.6	66.0	72.2	75.1	76.4	80.6	81.3	83.0	84.7
Information processing		1.78	113.9	114.5	114.6	116.3	115.1	115.3	115.8	114.8	115.6
Industrial and other		5.16	99.7	99.4	100.0	100.8	101.2	100.8	100.7	101.0	99.8
Defense and space equipment		1.77	121.3	121.5	122.3	122.8	121.9	121.4	123.0	123.4	122.0
Construction supplies		5.23	101.5	101.0	102.5	103.4	101.9	101.9	102.0	101.1	101.7
Business supplies		10.51	101.8	102.3	102.4	102.0	102.2	102.1	102.4	101.6	101.2
Materials Non-energy		45.56 27.21	106.2 98.1	105.6 96.9	106.4 97.9	105.9 98.2	106.3 98.2	106.3 98.3	107.2 98.7	106.6 98.6	106.7 98.7
Durable		16.74	97.8	97.0	98.3	98.8	99.0	99.3	99.4	99.1	99.3
Consumer parts		2.88	88.6	86.7	89.9	89.2	88.0	90.4	89.3	89.3	90.1
Equipment parts		4.68	109.3	110.0	111.0	111.5	112.1	112.7	112.8	113.9	113.6
Other		9.19	95.4	94.2	95.2	95.9	96.4	96.0	96.4	95.5	95.7
Nondurable		10.47	98.7	96.7	97.3	97.3	96.9	96.7	97.7	97.8	97.6
Textile		.30 1.49	78.7 83.7	78.9 83.6	79.7 83.4	80.1 83.7	79.4 83.1	79.7 82.2	78.1 84.5	78.8 83.7	81.2 84.0
Paper Chemical		5.41	103.1	99.3	100.6	101.1	100.4	100.3	101.7	102.0	102.2
Energy		18.35	119.2	119.8	120.2	118.3	119.5	119.3	120.9	119.7	119.7
Industry Groups											
Manufacturing		74.78	98.9	98.5	99.7	100.2	99.7	99.9	100.1	100.0	100.3
Manufacturing (NAICS)	31-33	73.29	99.6	99.2	100.3	100.8	100.4	100.6	100.9	100.8	101.0
Durable manufacturing		36.99	99.3	99.2	100.8	101.3	101.0	101.6	101.3	101.7	101.8
Wood products	321	1.63	95.3	94.7	97.0	95.5	94.3	95.8	94.0	94.0	94.5
Nonmetallic mineral products Primary metals	327 331	2.30 2.69	101.0 93.7	102.3 94.3	102.9 93.5	103.3 94.5	100.9 94.4	99.4 93.7	98.0 96.4	98.2 96.7	99.4 97.1
Fabricated metal products	332	6.14	97.9	94.3	93.3	94.3	99.2	98.4	98.3	98.6	98.5
Machinery	333	5.69	99.1	100.2	99.8	100.6	100.2	99.8	101.0	100.6	100.1
Computer and electronic products	334	4.43	121.8	123.8	124.1	125.0	125.5	126.1	126.2	127.5	128.1
Electrical equip., appliances, and components	335	2.19	107.0	106.2	107.6	106.6	104.5	107.2	103.6	104.2	102.6
Motor vehicles and parts	3361–3	5.36	100.3	94.9	104.4	104.6	104.5	107.2	105.0	104.2	106.9
Aerospace and miscellaneous											
transportation equipment	3364-9	3.01	84.5	89.3	90.5	92.2	93.1	93.6	95.2	96.6	96.0
Furniture and related products	337	.96	75.1	75.6	74.5	74.0	74.9	75.3	76.1	77.0	75.6
Miscellaneous	339	2.59	103.9	103.3	103.5	103.9	102.8	101.7	101.2	102.2	100.5
Nondurable manufacturing		36.29	100.1	99.2	99.8	100.5	99.9	99.8	100.5	100.0	100.3
Food, beverage, and tobacco products	311,2	12.06	98.9	98.2	98.7	99.4	98.8	98.9	99.4	98.7	99.0
Textile and product mills	313,4	.52	78.5	78.5	79.0	78.4	78.4	78.9	78.8	78.4	80.3
Apparel and leather	315,6	.17	77.0	78.2	78.9	79.8	76.9	79.1	78.8	77.7	78.8
Paper Printing and support	322 323	2.21	86.9 84.3	87.3 84.9	86.3 85.2	86.2 84.3	85.3 84.5	85.3 84.0	87.2 84.2	86.6 83.2	86.3 83.0
Petroleum and coal products	323 324	4.20	95.2	93.6	93.3	93.2	84.3 91.9	93.5	94.3	83.2 93.5	95.1
Chemicals	325	12.11	108.5	107.3	108.5	109.5	109.3	108.2	109.3	109.5	109.8
Plastics and rubber products	326	3.67	98.3	97.2	98.7	100.3	100.0	99.5	99.2	97.7	97.0
Other manufacturing (non-NAICS)	1133,5111	1.50	73.4	74.8	77.0	76.2	74.1	72.5	72.9	72.3	72.5
		1427	120.7	117.8	119.5	121.4	121.2	121.5	122.1	120.3	121.4
Mining	21	14.37	120.7	117.0	117.5						
Utilities	2211,2	10.85	108.8	113.7	112.8	103.5	107.8	106.6	109.4	108.6	106.4
											106.4 106.2 106.9

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

Table 5
INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

2017 = 100, seasonally adjusted

2017 = 100, scasonarry adjusted											
Item		2024 proportion	2024 Dec.	2025 Jan.	Feb.	Mar. ^r	Apr.r	May ^r	June ^r	July ^r	Aug. ^p
item		proportion	Dec.	Jan.	reu.	ıvıaı.	Apı.	Iviay	June	July	Aug.
Total industry		100.00	103.0	102.9	103.9	103.5	103.6	103.7	104.2	103.8	103.9
Energy		27.31	114.8	115.8	115.6	112.5	114.2	114.0	115.4	114.5	114.4
Consumer products		5.60	103.8	106.0	104.6	97.7	100.5	99.9	101.4	101.4	101.4
Commercial products		2.82	114.4	115.5	114.3	111.2	114.1	115.5	116.6	115.6	114.1
Oil and gas well drilling	213111	.54	99.6	98.6	99.1	100.0	98.2	95.7	95.1	93.1	95.0
Converted fuel		5.30	114.7	119.0	119.6	109.6	112.2	113.3	115.5	115.4	113.9
Primary energy		13.05	120.5	119.5	119.8	121.5	122.0	121.3	122.6	120.8	121.6
Non-energy		72.69	98.8	98.3	99.7	100.2	99.8	99.9	100.2	100.0	100.1
Selected high-technology industries		1.89	158.9	164.2	165.5	164.9	169.1	171.6	170.9	178.4	178.2
Computers and peripheral equipment	3341	.23	175.2	178.4	179.5	178.5	179.3	186.2	185.1	191.4	186.7
Communications equipment	3342	.41	200.9	202.3	203.4	204.3	205.4	206.2	207.2	208.2	209.3
Semiconductors and related	3342	.71	200.7	202.3	203.4	204.5	203.4	200.2	207.2	200.2	207.3
electronic components	3344	1.26	144.6	151.1	152.4	151.5	156.9	159.1	158.0	167.1	167.4
Excluding selected high-technology											
industries		70.79	97.4	96.8	98.1	98.7	98.2	98.3	98.5	98.2	98.4
Motor vehicles and parts	3361-3	5.36	100.3	94.9	104.4	104.6	103.1	107.8	105.0	104.3	106.9
Motor vehicles	3361	2.54	107.9	99.2	114.6	114.5	112.4	121.2	115.3	115.6	120.8
Motor vehicle parts	3363	2.30	97.5	93.6	99.0	98.6	98.0	101.4	100.3	98.8	100.6
Excluding motor vehicles and parts		65.43	97.2	96.9	97.7	98.3	97.9	97.6	98.1	97.8	97.7
Consumer goods		19.37	100.3	100.3	101.0	101.8	100.9	100.4	101.0	100.7	101.0
Business equipment		7.28	86.6	88.5	89.3	90.8	91.2	91.4	91.9	92.2	91.6
Construction supplies		5.22	101.3	100.8	102.3	103.2	101.7	101.7	101.8	100.9	101.5
Business supplies		7.31	95.7	95.9	96.4	96.8	95.9	95.3	95.4	94.4	94.3
Materials		24.45	96.4	95.1	95.8	96.1	96.0	95.8	96.4	96.2	96.1
Measures excluding selected high-technology											
industries											
Total industry		98.11	102.0	101.8	102.8	102.5	102.5	102.5	103.1	102.6	102.7
Manufacturing ¹		72.89	97.6	97.0	98.2	98.7	98.2	98.3	98.6	98.4	98.6
Durable		35.23	96.4	96.2	97.7	98.2	97.8	98.3	98.1	98.2	98.3
Measures excluding motor vehicles and parts											
Total industry		94.64	103.2	103.4	103.9	103.5	103.7	103.5	104.2	103.8	103.8
Manufacturing ¹		69.42	98.9	98.8	99.3	99.9	99.5	99.3	99.8	99.8	99.8
Durable		31.76	99.1	99.9	100.2	100.7	100.6	100.5	100.7	101.2	100.9
Measures excluding selected high-technology											
industries and motor vehicles and parts		92.74	102.2	102.3	102.8	102.4	102.5	102.3	103.0	102.5	102.5
Total industry Manufacturing ¹		67.53	97.4	97.2	97.7	98.3	97.9	97.6	98.1	97.9	98.0
Stage-of-process components of non-energy											
materials, measures of the input to											
Finished processors		9.34	97.1	96.8	98.2	98.3	98.0	99.0	99.0	99.4	99.7
Primary and semifinished processors		17.87	98.8	97.1	97.9	98.3	98.4	98.1	98.8	98.3	98.3

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Table 6
DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

ercent												
Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
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	47.5	54.2	49.2	45.1	46.1	58.2
2025	49.2	63.6	54.5	45.1	54.5	53.9	47.8					
Three months earlier												
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	51.5	50.8	47.5	50.8	42.1	50.5
2025	53.9	62.6	63.0	54.5	55.6	54.2	57.6					
Six months earlier												
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	52.2	48.8	51.9	44.1	47.5
2025	52.5	51.5	53.9	56.9	62.6	57.2	57.6					

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

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

Table 7 CAPACITY UTILIZATION Percent of capacity, seasonally adjusted

			1972-	1994-										
Item		2024	2024	95	2009	2024	2025		2025					
item		proportion	ave.	high	low	O4	O1 ^r	O2 ^r	Mar. ^r	Apr.r	May ^r	June ^r	July	Aug.p
		proportion	avc.	mgn	IOW	Q-i	ŲI	Q2	iviai.	Apr.	iviay	June	July	Aug.
Total industry		100.00	79.6	84.8	66.6	77.1	77.6	77.6	77.6	77.5	77.5	77.8	77.4	77.4
Manufacturing ¹		75.64	78.2	84.4	63.5	76.2	76.6	76.7	77.0	76.6	76.7	76.8	76.7	76.8
Manufacturing (NAICS)	31–33	74.16	78.2	84.6	63.4	76.1	76.5	76.7	77.0	76.6	76.7	76.8	76.6	76.7
Durable manufacturing		38.45	76.8	83.5	58.3	73.6	74.6	75.0	75.1	74.9	75.2	74.9	75.1	75.1
Wood products	321	1.65	76.7	86.5	48.5	77.4	77.0	76.0	76.8	75.8	76.9	75.4	75.4	75.8
Nonmetallic mineral products	327	2.26	73.8	82.4	43.9	79.1	80.2	77.7	80.6	78.8	77.6	76.6	76.8	77.7
Primary metals	331	2.99	77.4	95.0	49.5	68.3	69.1	69.4	69.3	69.1	68.5	70.4	70.5	70.7
Fabricated metal products	332	6.20	78.3	83.3	64.4	75.4	75.3	76.1	75.5	76.6	76.0	75.9	76.0	75.9
Machinery	333	5.40	77.9	87.4	58.6	80.8	81.8	81.7	82.1	81.7	81.3	82.2	81.9	81.4
Computer and electronic products	334	4.70	77.3	83.7	69.7	74.8	75.6	75.6	75.7	75.6	75.7	75.5	75.9	76.0
Electrical equip., appliances,	334	4.70	11.5	03.7	07.7	74.0	75.0	75.0	13.1	75.0	13.1	13.3	13.9	70.0
and components	335	2.09	81.8	92.3	66.4	81.3	81.3	79.8	81.1	79.4	81.4	78.6	79.0	77.8
Motor vehicles and parts	3361–3	5.94	74.9	87.3	33.1	67.7	67.3	69.4	69.3	68.1	71.0	69.0	68.3	69.9
	3301-3	3.94	/4.9	87.3	33.1	07.7	07.3	09.4	09.3	08.1	/1.0	09.0	08.3	09.9
Aerospace and miscellaneous	2264.0	2.50	70.7	70.1	72.0	62.5	71.6	740	72.0	72.6	72.0	75.0	76.0	75.0
transportation equipment	3364–9	3.50	73.7	72.1	72.0	63.5	71.6	74.2	72.8	73.6	73.9	75.2	76.3	75.8
Furniture and related products	337	1.07	77.2	82.7	52.3	69.2	69.3	70.7	68.9	70.0	70.5	71.5	72.6	71.5
Miscellaneous	339	2.65	77.1	80.9	68.1	73.9	73.4	72.1	73.5	72.7	72.0	71.6	72.4	71.2
Nondurable manufacturing		35.71	80.0	86.1	68.9	78.8	78.5	78.4	78.9	78.4	78.2	78.7	78.2	78.4
Food, beverage, and tobacco products	311,2	11.78	80.3	85.3	75.3	79.3	79.4	79.5	79.9	79.4	79.4	79.8	79.2	79.3
Textile and product mills	313,4	.58	77.9	91.5	54.1	70.0	70.8	71.3	70.8	70.9	71.5	71.5	71.3	73.2
Apparel and leather	315,6	.21	75.3	87.3	58.6	60.6	62.9	63.1	63.8	61.8	63.8	63.8	63.1	64.3
Paper	322	2.08	86.4	92.7	72.8	83.0	82.4	82.0	82.0	81.3	81.4	83.2	82.8	82.5
Printing and support	323	1.39	79.1	85.3	58.6	74.2	75.0	74.4	74.6	74.7	74.2	74.4	73.5	73.3
Petroleum and coal products	324	3.41	85.5	91.1	75.9	92.5	91.0	90.6	90.9	89.5	90.8	91.5	90.7	92.0
Chemicals	325	12.41	76.9	82.4	65.4	77.1	76.7	76.6	77.3	77.0	76.0	76.7	76.6	76.8
Plastics and rubber products	326	3.85	81.7	93.1	56.8	71.4	71.1	71.5	72.2	71.9	71.4	71.2	70.1	69.5
Other manufacturing (non-NAICS)	1133,5111	1.48	78.5	82.1	63.7	78.3	79.8	77.7	80.3	78.4	76.9	77.7	77.3	77.8
Mining	21	12.40	96.5	99.6	79.0	90.9	90.7	01.0	01.0	00.8	01.0	01.2	90.0	00.6
Mining	21	12.40	86.5	88.6	78.9	89.8	89.7	91.0	91.0	90.8	91.0	91.3	89.9	90.6
Utilities	2211,2	11.96	84.2	93.2	78.1	70.5	72.3	70.2	67.8	70.4	69.3	71.0	70.2	68.6
Selected high-technology industries	22.15	1.96	77.6	85.3	70.7	77.4	78.4	79.1	77.8	79.1	79.6	78.5	81.3	80.5
Computers and peripheral equipment	3341	.23	76.5	84.2	80.3	81.2	84.3	86.1	84.0	84.3	87.4	86.7	89.4	87.1
Communications equipment	3342	.46	75.2	85.1	76.7	71.2	70.0	68.9	69.7	69.3	68.9	68.5	68.1	67.8
Semiconductors and related														
electronic components	3344	1.27	79.4	92.8	63.2	78.6	80.1	81.1	79.2	81.3	81.7	80.3	84.2	83.6
Measures excluding selected														
high-technology industries														
Total industry		98.04	79.7	84.8	66.4	77.1	77.6	77.6	77.6	77.5	77.4	77.8	77.3	77.3
Manufacturing ¹		73.68	78.3	84.3	63.0	76.1	76.5	76.6	77.0	76.6	76.6	76.7	76.5	76.6
STAGE-OF-PROCESS GROUPS														
Crude		16.07	85.6	90.0	77.0	88.1	87.5	88.4	88.1	88.4	88.2	88.6	87.5	88.2
Primary and semifinished		46.62	80.1	87.5	63.7	75.9	76.3	75.7	75.5	75.7	75.5	76.0	75.6	75.2
Finished		37.31	76.7	80.4	66.2	73.9	75.0	75.3	75.7	75.3	75.3	75.4	75.4	75.5
		57.57												

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

Table 8 INDUSTRIAL CAPACITY

Percent change

													Monthly
	1	Average aı	nnual rate		Fourth	quarter to	o fourth o	uarter		Annua	l rate		rate
Item	1972-	1980-	1989-	1995-					2024	2025			2025
	79	88	94	2025	2022	2023	2024	2025	Q4	Q1	Q2	Q3	Aug.
Total industry	3.1	1.9	2.3	1.6	1.0	2.3	1.2	1.5	1.4	1.5	1.6	1.5	.1
Manufacturing ¹	3.3	2.2	2.6	1.4	.4	1.2	1.3	1.2	1.4	1.2	1.2	1.1	.1
Mining Utilities	.7 4.4	.1 2.2	7 1.8	1.0 1.8	3.5 2.3	3.4 3.6	8 3.6	.9 3.7	6 3.7	.4 3.8	.9 3.7	1.1 3.7	.1 .3
Selected high-technology industries Manufacturing ¹ ex. selected	18.6	16.6	16.2	15.4	4.4	9.8	12.0	10.9	11.9	11.2	10.9	10.7	.8
high-technology industries	2.6	1.2	1.7	.4	.3	1.0	1.0	.9	1.1	1.0	.9	.9	.1
STAGE-OF-PROCESS GROUPS Crude	1.5	.5	5	.9	2.5	2.7	5	.9	2	.6	1.0	1.1	.1
Primary and semifinished	3.0	1.3	2.6	1.6	.6	1.7	1.6	1.7	1.6	1.7	1.7	1.7	.1
Finished	3.9	3.2	2.8	1.4	.9	1.6	1.8	1.4	1.9	1.6	1.4	1.3	.1

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

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

illions of 2017 dollars at allitual rate, seaso	many adjusted										
			2024	2025		2025					
Item	2017	2024	Q4	Q1 ^r	Q2 ^r	Mar. ^r	Apr. ^r	May ^r	June ^r	July ^r	Aug. ¹
Final products and nonindustrial											
supplies	3,942.6	3,969.7	3,938.1	3,985.1	4,002.2	3,993.1	3,988.3	4,006.7	4,011.6	4,002.6	4,015.4
- FF			-,,	-,,	.,		-,,	.,	.,	.,	.,
Final products	2,946.4	2,951.5	2,915.2	2,954.4	2,969.0	2,962.7	2,958.0	2,973.6	2,975.3	2,976.8	2,990.3
Consumer goods	2,153.2	2,178.9	2,164.1	2,172.9	2,169.1	2,168.6	2,163.3	2,171.7	2,172.2	2,170.0	2,182.0
Durable	530.6	553.5	534.4	532.5	539.4	542.3	535.0	546.9	536.4	534.5	538.9
Automotive products	375.2	397.7	378.1	376.4	387.4	388.6	382.7	395.3	384.1	382.4	386.8
Other durable goods	155.5	156.6	156.1	155.9	152.9	154.3	152.9	152.8	152.9	152.7	152.9
Nondurable	1,622.6	1,625.9	1,628.8	1,639.0	1,629.1	1,626.2	1,627.4	1,625.2	1,634.8	1,634.3	1,642.2
Equipment, total	793.2	777.6	754.8	787.4	807.3	801.0	801.8	809.4	810.7	814.8	816.1
Business and defense	770.0	754.4	732.0	765.2	786.0	778.8	779.9	788.1	790.0	793.9	794.7
Business	651.2	612.7	589.6	620.2	640.5	632.8	634.8	643.3	643.6	647.1	649.1
Defense and space	118.8	142.6	144.3	146.2	145.8	146.8	145.7	144.9	146.8	147.2	145.7
Nonindustrial supplies	996.2	1.018.2	1,022.6	1,030.5	1,033.1	1,030.3	1,030.2	1.033.0	1,036.2	1,025.9	1,025.2
Construction supplies	276.8	278.9	279.9	285.2	283.6	287.4	283.7	283.1	283.9	281.2	283.2
Business supplies	719.4	740.1	743.6	745.5	750.2	742.6	747.0	750.7	753.0	745.5	742.4
Commercial energy products	240.5	268.6	273.2	270.9	277.5	265.8	272.8	278.7	281.0	277.6	274.6

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

ercent change, seasonally adjusted															
		Fou	rth quarte	er to											
		fo	fourth quarter			Annual rate			Monthly rate						
Item	2024				2024	2025		2025						to	
	gross value1	2022	2023	2024	Q4	$Q1^{r}$	Q2 ^r	Mar.r	Apr.r	May ^r	June ^r	July ^r	Aug. ^p	Aug. '25	
Finished	2,499.2	3.2	2	-2.6	-6.1	7.1	4.4	.7	6	.7	2	.2	.3	1.2	
Semifinished	1,996.9	1.7	-1.0	1.2	.8	6.1	.1	9	.3	.1	.1	5	3	.8	
Primary	1,462.5	7	.3	.3	1.0	-1.5	9	-2.3	.4	.6	2.1	5	.1	.6	
Crude	742.9	.2	2.5	1.1	5.8	-3.7	4.5	.6	.6	3	.5	8	.7	1.7	

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^{1.} Billions of 2017 dollars.

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

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ¹																	
2003	.8	.1	3	6	.0	.1	.5	2	.6	.1	.7	.1	2.5	-2.9	2.7	3.9	1.3
2004	.2	.6	4	.4	.7	8	.7	.1	.1	.9	.2	.8	2.9	2.3	2.3	5.8	2.7
2005 2006	.4	.7	1 .2	.2	.1	.4	3 1	.3	-1.9 2	1.2 1	1.1	.5 1.0	5.7	2.3	-1.7 1.6	3.7	3.4
2007	4	1.0	.2	.7	.1	.0	1	.2	.2	3	.6	.1	4.1	4.7	.4	1.3	2.5
2008	1	4	3	7	6	3	5	-1.6	-4.4	1.0	-1.3	-2.8	-1.0	-5.9	-12.6	-16.0	-3.5
2009	-2.5	6	-1.6	8	-1.0	3	1.2	1.1	.9	.2	.4	.3	-20.7	-10.6	6.9	6.4	-11.4
2010	1.1	.4	.7	.4	1.4	.2	.4	.4	.3	3	.1	1.0	7.9	8.0	5.4	1.7	5.6
2011	2	4	1.0	3	.1	.3	.5	.6	1	.7	.0	.5	2.2	1.6	4.5	4.2	3.1
2012	.6	.3	5	.7	.2	.0	.2	4	1	.3	.4	.3	4.0	2.5	.0	2.0	3.0
2013 2014	.0 4	.5 .8	.4 1.0	1 .1	.1 .4	.2	3 .2	.6 2	.5 .3	1 .0	.3 .6	.2 .0	3.1 2.7	1.8 5.6	1.6 2.3	2.7 2.4	2.0 3.0
2015	8	6	3	6	5	3	.6	2	3	5	7	5	-4.4	-5.4	.2	-5.3	-1.4
2016	.5	5	8	.3	2	.5	.1	1	1	.1	4	.7	-2.7	-1.4	1.1	2	-2.1
2017	2	4	.6	1.0	.1	.2	2	5	.1	1.2	.3	.2	.3	5.8	-1.4	5.8	1.3
2018	.0	.2	.5	1.1	9	.8	.1	.7	.0	2	.1	.0	2.2	4.7	3.4	.6	3.2
2019	7	5	.0	5	.1	.1	5	.8	3	9	.6	2	-3.7	-2.3	.0	-2.0	7
2020 2021	6	-3.3	-4.0 2.8	-13.2 .1	1.6	6.6	3.6	1.0	.0 -1.0	.7 1.4	.4 .9	1.3 1	-6.5 1.1	-42.0 6.5	42.8 2.6	6.9 5.1	-7.1 4.4
2022	.0	.6	.8	.2	.1	1	.2	.1	.4	1	3	-1.2	3.9	3.9	1.4	-1.8	3.4
2023	.9	.1	.0	.4	2	6	.7	.0	.2	7	.3	2	.0	.3	1.2	-1.8	.2
2024	-1.1	1.2	2	2	.6	.3	7	.5	4	4	3	1.1	-1.8	2.4	6	-1.2	3
2025	2	1.0	3	.1	.0	.5	4	.1					4.1	1.6			
IP (2017=100)	102.7	102.0	102.0	102.2	102.0	102.4	102.1	102.1	102.2	102 (102.0	102 (102.0	102.0	102.2	100.5	102.0
2023 2024	102.7 101.5	102.8 102.7	102.8 102.5	103.2 102.4	103.0 103.0	102.4 103.3	103.1 102.5	103.1 103.0	103.3 102.6	102.6 102.2	102.9 102.0	102.6 103.0	102.8 102.2	102.9 102.9	103.2 102.7	102.7 102.4	102.9
2024	101.3	102.7	102.5	102.4	103.0	103.3	102.3	103.0	102.0	102.2	102.0	103.0	102.2	102.9	102.7	102.4	102.6
Capacity (percent of 2017 output)																	
2023	128.8	129.1	129.4	129.7	130.0	130.3	130.5	130.7	130.9	131.1	131.2	131.3	129.1	130.0	130.7	131.2	130.3
2024 2025	131.5 133.1	131.6 133.3	131.7 133.4	131.8 133.6	131.9 133.8	132.0 134.0	132.2 134.1	132.3 134.3	132.5	132.6	132.8	132.9	131.6 133.3	131.9 133.8	132.3	132.8	132.1
Utilization																	
(percent)																	
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	76.1
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	78.3
2005	80.1	80.6	80.4	80.5	80.5	80.7	80.4	80.5	78.8	79.7	80.4	80.7	80.4	80.6	79.9	80.3	80.3
2006 2007	80.7 80.1	80.6 80.7	80.7 80.7	80.8 81.0	80.7 80.9	80.8 80.8	80.6 80.6	80.8 80.7	80.5 80.8	80.2 80.6	80.0 81.0	80.6 81.1	80.7 80.5	80.8 80.9	80.6 80.7	80.3 80.9	80.6 80.8
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	77.8
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	68.5
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	73.4
2011	75.5	75.2	76.0	75.7	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
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
2013	76.8	77.1	77.3	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	77.3
2014 2015	77.5	78.0 78.3	78.7 78.0	78.7 77.5	79.0 77.2	79.1 76.9	79.2 77.4	79.0 77.3	79.2 77.1	79.1 76.8	79.6 76.2	79.5 75.8	78.0 78.4	78.9 77.2	79.2 77.3	79.4 76.3	78.9 77.3
2016	76.2	75.8	75.2	75.5	75.3	75.6	75.7	75.6	75.5	75.5	75.2	75.8	75.8	75.5	75.6	75.5	75.6
	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	76.8
2017	78.5	78.7	79.1	80.0	79.3	80.0	80.1	80.6	80.6	80.4	80.4	80.4	78.8	79.8	80.4	80.4	79.8
2018		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	78.6
2018 2019	79.8	77.7		64.7	65.7	70.1 78.0	72.8 78.4	73.6	73.7	74.3 79.0	74.7	75.9	76.5	66.9	73.3	75.0 79.5	72.9
2018 2019 2020	77.4	77.7	74.6	76.6	77 1		70.4	78.5	77.8		79.8	79.8	75.6	77.3	78.3	19)	77.7
2018 2019 2020 2021		77.7 74.1 80.4	76.3 81.0	76.6 81.1	77.4 81.1	80.9	81.0	81.0	81.1	80.9	80.4	79.2	80.4	81.1	81.0	80.2	80.7
2017 2018 2019 2020 2021 2022 2023	77.4 76.5 79.8	74.1 80.4	76.3 81.0	81.1	81.1	80.9	81.0									80.2	80.7 79.0
2018 2019 2020 2021	77.4 76.5	74.1	76.3					81.0 78.9 77.9	78.9 77.5	78.3 77.1	78.4 76.8	79.2 78.1 77.5	79.6 77.7	81.1 79.1 78.0	81.0 78.9 77.6		79.0 77.6

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

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

Seasonally adjusted

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
P (percent																	
hange) ²																	
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
2008	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 .5	.0	.1	.6 2	.4	.3 2	.5 2	2 .6	.7	3.0 5.4	2 .5	4.2 -1.2	3.8	2.9
2012	.8	.4	5	.3	3	.3	2	1	2	2	0.	.7	3.4	.3	-1.2	1.1	2.6
2013	3	.4	1	3	.3	.2	8	.9	.1	.1	.0	2	2.7	.2	.2	1.7	.9
2014	-1.1	.9	.9	.0	.3	.3	.4	6	.0	1	.7	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 2017	.4	3 1	1 4	1 1.1	1 2	.2 .1	.1 4	4 2	.2 .0	.1 1.1	1 .1	.0 2	6 .0	-1.1 3.1	.0 -2.2	.5 4.1	8 .6
2017	.2	1	4	1.1	2	.1		2	.0	1.1	.1	2	.0	3.1	-2.2	4.1	.0
2018	3	.8	1	.7	8	.7	.0	.3	.0	5	3	.3	.4	2.3	1.6	-1.7	1.3
2019	9	5	2	7	.1	.5	7 2.5	.7	7	9	.9	.1	-4.7	-3.1	8	-2.1	-2.0
2020 2021	3 .9	.2 -4.0	-4.6 3.1	-15.4 .0	4.4 1.1	7.8	3.5	1.5 3	.0 9	.9 1.4	.6 .9	.7	-5.2 4	-43.7 5.8	54.0 3.0	8.4 5.3	-6.5 4.9
2021	6	-4.0 .9	.9	.0	2	3	.8	3	9	.1	7	-1.8	2.7	2.5	.0	-3.0	2.7
									.2			1.0					
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	7	.6	3	6	.1	.4	9	1.3	8	-1.7	5
2025	4	1.1	.5	4	.1	.3	1	.2					3.4	1.9			
IP (2017=100)																	
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	99.3	99.0	98.4	98.5	98.9	98.9	99.2	99.1	98.6	99.0
2025	98.5	99.7	100.2	99.7	99.9	100.1	100.0	100.3					99.5	99.9			
Capacity																	
(percent of																	
2017 output) 2023	126.5	126.6	126.8	126.9	127.0	127.2	127.3	127.4	127.6	127.7	127.8	128.0	126.6	127.0	105.4	107.0	
2024		120.0	120.0			127.2	127.5					120.0			1274	127.8	127.2
	128.1	128.2	128.4	128.5	128.6	128.8	128.9	129.1	129.2	129.3	129.5	129.6		127.0 128.6	127.4 129.1	127.8 129.5	
	128.1 129.8	128.2 129.9	128.4 130.0	128.5 130.1	128.6 130.3	128.8 130.4	128.9 130.5	129.1 130.6	129.2	129.3	129.5	129.6	128.2 129.9	128.6 130.3	127.4	127.8	127.2 128.9
2025	1								129.2	129.3	129.5	129.6	128.2	128.6			127.2 128.9
2025 Utilization	1								129.2	129.3	129.5	129.6	128.2	128.6			
2025 Utilization (percent) 2003	1		74.0	73.4	130.3 73.5	73.8		73.8	129.2 74.4	74.5	75.2	129.6 75.2	128.2 129.9 74.0	128.6 130.3	129.1 74.1		128.9
2025 Utilization (percent) 2003 2004	74.0 75.1	73.9 75.7	74.0 75.7	73.4 76.0	73.5 76.6	73.8 76.1	74.1 76.8	73.8 77.1	74.4 77.1	74.5 77.7	75.2 77.7	75.2 78.2	128.2 129.9 74.0 75.5	128.6 130.3 73.6 76.2	74.1 77.0	75.0 77.9	74.1 76.6
Utilization percent) 2003 2004 2005	74.0 75.1 78.6	73.9 75.7 79.1	74.0 75.7 78.6	73.4 76.0 78.8	73.5 76.6 78.9	73.8 76.1 78.9	74.1 76.8 78.4	73.8 77.1 78.7	74.4 77.1 77.7	74.5 77.7 78.6	75.2 77.7 79.2	75.2 78.2 79.1	74.0 75.5 78.8	128.6 130.3 73.6 76.2 78.9	74.1 77.0 78.3	75.0 77.9 78.9	74.1 76.6 78.7
2025 Utilization (percent) 2003 2004 2005 2006	74.0 75.1 78.6 79.5	73.9 75.7 79.1 79.2	74.0 75.7 78.6 79.0	73.4 76.0 78.8 79.2	73.5 76.6 78.9 78.9	73.8 76.1 78.9 78.9	74.1 76.8 78.4 78.5	73.8 77.1 78.7 78.9	74.4 77.1 77.7 78.8	74.5 77.7 78.6 78.3	75.2 77.7 79.2 78.2	75.2 78.2 79.1 79.2	74.0 75.5 78.8 79.3	73.6 76.2 78.9 79.0	74.1 77.0 78.3 78.8	75.0 77.9 78.9 78.6	74.1 76.6 78.7 78.9
Utilization percent) 2003 2004 2005 2006	74.0 75.1 78.6	73.9 75.7 79.1	74.0 75.7 78.6	73.4 76.0 78.8	73.5 76.6 78.9	73.8 76.1 78.9	74.1 76.8 78.4	73.8 77.1 78.7	74.4 77.1 77.7	74.5 77.7 78.6	75.2 77.7 79.2	75.2 78.2 79.1	74.0 75.5 78.8	128.6 130.3 73.6 76.2 78.9	74.1 77.0 78.3	75.0 77.9 78.9	74.1 76.6 78.7 78.9
2025 Utilization (percent) 2003 2004 2005 2006 2007	74.0 75.1 78.6 79.5 78.7	73.9 75.7 79.1 79.2 78.8 78.2	74.0 75.7 78.6 79.0 79.2 77.9	73.4 76.0 78.8 79.2 79.5	73.5 76.6 78.9 78.9 79.2 76.7	73.8 76.1 78.9 78.9 79.3 76.2	74.1 76.8 78.4 78.5 79.1 75.5	73.8 77.1 78.7 78.9 78.7 74.6	74.4 77.1 77.7 78.8 78.8	74.5 77.7 78.6 78.3 78.5	75.2 77.7 79.2 78.2 78.8 70.1	75.2 78.2 79.1 79.2 78.9 67.8	74.0 75.5 78.8 79.3 78.9	73.6 76.2 78.9 79.0 79.3 76.7	74.1 77.0 78.3 78.8 78.8	75.0 77.9 78.9 78.6 78.7 69.9	74.1 76.6 78.7 78.9 79.0 74.7
2025 Utilization (percent) 2003 2004 2005 2006 2007	74.0 75.1 78.6 79.5 78.7 78.7 65.7	73.9 75.7 79.1 79.2 78.8 78.2 65.7	74.0 75.7 78.6 79.0 79.2 77.9 64.6	73.4 76.0 78.8 79.2 79.5 77.1 64.2	73.5 76.6 78.9 78.9 79.2 76.7 63.6	73.8 76.1 78.9 78.9 79.3 76.2 63.5	74.1 76.8 78.4 78.5 79.1 75.5 64.6	73.8 77.1 78.7 78.9 78.7 74.6 65.4	74.4 77.1 77.7 78.8 78.8 72.1 66.2	74.5 77.7 78.6 78.3 78.5 71.8 66.3	75.2 77.7 79.2 78.2 78.8 70.1 67.0	75.2 78.2 79.1 79.2 78.9 67.8 67.0	74.0 75.5 78.8 79.3 78.9 78.3 65.3	73.6 76.2 78.9 79.0 79.3 76.7 63.8	74.1 77.0 78.3 78.8 78.8 74.1 65.4	75.0 77.9 78.9 78.6 78.7 69.9 66.8	74.1 76.6 78.7 78.9 79.0 74.7 65.3
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010	74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8	73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8	73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5	73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5	73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6	74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1	73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3	74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5	74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7	75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8	75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3	74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2	73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2	74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3	75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9	74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4
2025 Utilization percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011	74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4	73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1	73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8	73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8	73.8 76.1 78.9 79.3 76.2 63.5 70.6 72.9	74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3	73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6	74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8	74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1	75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9	75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3 74.3	74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7	73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8	74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6	75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9 74.1	74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011	74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8	73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8	73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5	73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5	73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6	74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1	73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3	74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5	74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7	75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8	75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3	74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2	73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2	74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3	75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9	74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9	73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6	73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9	73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5	73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7	74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4	73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3	74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0	74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8	75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2	75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3 74.3 74.7	74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8	73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7	74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2	75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9 74.1 74.3	74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9	73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1 74.7	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 75.6	73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9	73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5	73.8 76.1 78.9 78.9 79.3 76.2 63.5 70.6 72.9 74.7 74.8 76.2	74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4 74.2 76.6	73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3	74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3	74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0 76.3	75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0 76.9	75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3 74.3 74.7 74.9 76.8	74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9	73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9	74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4	75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9 74.1 74.3	74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	74.0 75.1 78.6 79.5 78.7 65.7 67.8 72.4 74.9 74.5 74.2	73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1 74.7 74.9	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 75.6 76.3	73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6	73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.6 75.9	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	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	73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 74.8 76.2	74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3	74.5 77.7 78.6 78.3 78.5 71.8 66.3 71.7 74.1 73.8 75.0 76.3	75.2 77.7 79.2 78.2 78.8 70.1 67.0 71.8 73.9 74.2 75.0 76.9	75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3 74.3 74.7 74.9 76.8	74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9	128.6 130.3 73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9	74.1 77.0 78.3 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4	75.0 77.9 78.9 78.6 78.7 69.9 66.8 71.9 74.1 74.3 75.0 76.7	74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	74.0 75.1 78.6 79.5 78.7 65.7 67.8 72.4 74.9 74.5 76.5 76.2	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	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 75.6 76.3 75.8	73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6	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	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	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	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	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	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	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	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	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	128.6 130.3 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	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	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	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
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 74.2 76.2 75.8	73.9 75.7 79.1 79.2 78.8 78.2 65.7 67.8 72.6 75.1 74.7 74.9 75.9 75.8	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 75.6 75.6 75.6 75.8	73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.5	73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 74.5 74.6 75.9 76.5 75.5 76.5	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	74.1 76.8 78.4 78.5 79.1 75.5 64.6 71.1 73.3 74.4 74.2 76.6 75.7 76.5	73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 74.8 76.2 76.4	74.4 77.1 77.7 78.8 78.8 72.1 66.2 71.5 73.8 74.0 74.9 76.3 76.5	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	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	75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3 74.7 74.9 76.8 75.6 77.5	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 75.7	73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9 76.6	74.1 77.0 78.3 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4 75.5 76.5	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	74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 76.0 76.4 75.7 76.6
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017	74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 76.5 76.2 75.8	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	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 75.6 75.6 75.8 75.8	73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.5	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	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	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	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	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	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	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	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	74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9 75.7	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	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	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	74.1 76.6 78.7 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0 76.4 75.7 76.6
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 76.2 75.8 77.4 78.0	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	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 75.6 76.3 75.8 75.6	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	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	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	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	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	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	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	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	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	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 75.7 77.9	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	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	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	74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 76.0 76.4 75.7 76.6
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	74.0 75.1 78.6 79.5 78.7 65.7 67.8 72.4 74.9 74.5 76.2 75.8 77.4 78.0 76.9	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	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 75.6 76.3 75.8 75.6 78.1 77.4	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	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	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	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	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	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	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 74.8	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	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	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	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	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	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	74.1 76.6 78.7 79.0 74.7 65.3 70.4 73.3 74.5 76.0 76.4 75.7 76.6
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021	74.0 75.1 78.6 79.5 78.7 65.7 67.8 72.4 74.9 74.5 76.2 75.8 77.4 78.0 76.9 76.8	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	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 75.6 76.3 75.8 75.6 78.1 77.4 73.6	73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.5 78.7 77.0 62.3 76.3	73.5 76.6 78.9 78.9 79.2 76.7 63.6 70.5 72.8 74.5 74.5 75.5 76.5 75.5 76.5	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 77.4 70.2	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	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	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	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 74.8 78.3	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	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	74.0 75.5 78.8 79.3 78.9 78.3 65.3 65.2 72.7 74.8 74.6 74.9 76.3 75.9 75.7	73.6 76.2 78.9 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	74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4 76.5 76.5 77.1 73.6 77.7	75.0 77.9 78.9 78.7 69.9 66.8 71.9 74.1 74.3 75.0 76.7 75.6 77.5 78.6 76.8 75.4 78.8	74.1 76.6 78.7 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0 76.4 77.2 72.7
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022	74.0 75.1 78.6 79.5 78.7 65.7 67.8 72.4 74.9 74.5 76.2 75.8 77.4 78.0 76.9	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	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 75.6 76.3 75.8 75.6 78.1 77.4	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	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	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	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	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	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	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 74.8	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	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	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	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	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	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	74.1 76.6 78.7 79.0 74.7 65.3 70.4 73.3 74.5 74.7 76.0 76.4 77.2 72.7
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023	74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 76.2 75.8 77.4 78.0 76.9 76.8 78.6	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	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 75.6 76.3 75.8 75.6 78.1 77.4 73.6 76.2 80.1	73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.5 78.7 77.0 62.3 76.3 80.0	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 77.0 65.1 77.2 79.8 78.5	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 77.4 70.2 77.3 79.5 78.0	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 79.5 78.0 79.5	73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 76.2 76.6 75.4 76.4 77.4 77.8 79.6	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	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 74.8 78.3 79.8	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	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	74.0 75.5 78.8 79.3 78.9 78.3 65.3 68.2 72.7 74.8 74.6 74.9 75.7 77.9 75.7 77.9 77.7 75.9 75.6 79.3	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	74.1 77.0 78.3 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4 76.5 76.5 78.9 77.1 73.6 77.7 79.6	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 76.8 77.5	74.1 76.6 78.7 78.9 79.0 74.7 65.3 70.4 73.3 74.5 76.0 76.4 75.7 76.6 78.4 77.2 79.4 78.2
2025 Utilization (percent) 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025	74.0 75.1 78.6 79.5 78.7 78.7 65.7 67.8 72.4 74.9 74.5 76.2 75.8 77.4 78.0 76.8 77.4 78.0 76.8	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 78.1 77.6 77.1 73.8 79.3	74.0 75.7 78.6 79.0 79.2 77.9 64.6 68.8 73.1 74.6 75.6 75.8 75.6 78.1 77.4 73.6 76.2 80.1	73.4 76.0 78.8 79.2 79.5 77.1 64.2 69.5 72.8 74.9 74.4 75.6 76.5 78.7 77.0 62.3 76.3 80.0	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 77.0 65.1 77.2 79.8	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 70.5 77.3	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	73.8 77.1 78.7 78.9 78.7 74.6 65.4 71.3 73.6 74.3 74.8 76.2 75.4 76.4 77.4 77.4 77.8	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	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 74.8 78.3 79.8	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	75.2 78.2 79.1 79.2 78.9 67.8 67.0 72.3 74.3 74.7 74.9 75.6 77.5 78.7 77.1 76.0 79.1	74.0 75.5 78.8 79.3 65.3 68.2 72.7 74.8 74.6 74.9 75.7 77.9 77.7 75.9 75.6 79.3	73.6 76.2 78.9 79.0 79.3 76.7 63.8 70.2 72.8 74.7 74.6 75.9 76.6 76.6 78.5 77.1 65.9 76.9 76.9	74.1 77.0 78.3 78.8 78.8 74.1 65.4 71.3 73.6 74.2 74.6 76.4 76.5 76.5 76.5	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	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

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

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

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent				-			•		-								
change) ²																	
2003	.8	.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	.2	.6	2	.1	.0	.4	4	.2	-2.2	1.2	1.1	.4	4.7	1.3	-2.9	2.5	2.6
2006 2007	.1 4	.0	.2	.3	1 .1	.3	1 2	.3	3 .1	2 5	1 .4	1.0	3.3	1.8 3.8	.8	.2 4	1.4
2007		.,	.0	.5	.1	.1	2	.1	.1	5		1	3.3	5.0	.5		1.0
2008	2	5	5	8	7	3	4	-1.6	-4.5	1.3	-1.1	-2.7	-2.3	-6.9	-12.5	-14.9	-4.3
2009	-2.5	7	-1.7	9	-1.1	4	1.2	1.1	.8	.2	.3	.3	-20.6	-11.5	6.7	5.8	-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 2012	3	4	1.1 6	3 .7	.1	.3	.5	.6 4	1 1	.7	.0	.5	1.6 3.6	1.6 2.1	4.5 2	4.2 1.7	2.8
2012	.0	.5	0	. /	.2	.0	.2		1	.5		.5	3.0	2.1	2	1.7	2.0
2013	1	.5	.4	2	.1	.2	4	.6	.5	2	.2	.2	2.9	1.5	1.2	2.5	1.7
2014	4	.7	1.0	.1	.4	.3	.2	2	.3	.0	.6	.0	2.6	5.3	2.1	2.3	2.8
2015 2016	8 .5	7 5	4 8	6 .3	5 3	3 .5	.7	2 1	3 1	5 .0	7 4	5 .7	-4.5 -2.9	-5.7 -1.6	.3	-5.5	-1.5 -2.4
2017	2	3 4	o .6	1.0	3 .1	.2	.1 2	1 5	1 .1	1.2	.2	.2	.3	5.6	.o -1.4	6 5.6	1.1
2017	.2		.0	1.0	••	.2	.2	.5		1.2	.2	.2		5.0	1	5.0	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	7	6	.0	6	.1	.1	5	.8	3	9	.5	2	-4.0	-2.4	1	-2.1	8
2020 2021	6 .6	-3.4	-4.1 2.8	-13.5 .1	1.6	6.7	3.7	1.0	1 -1.1	.6 1.4	.4	1.3 1	-6.6 1.0	-42.6 6.4	43.7	6.5 4.9	-7.3 4.3
2021	.0	-3.4	.8	.1	.0	2	.2	.1	-1.1	1.4 1	3	-1.2	3.8	3.9	1.2	-1.8	3.4
		.0	.0		.0	.2	.2				.5	1.2		3.7	1.2	1.0	3.1
2023	.9	.0	.0	.4	3	6	.7	.0	.2	8	.3	3	.0	.0	1.0	-2.0	.1
2024	-1.1	1.3	2	2	.6	.3	7	.5	4	4	2	1.1	-1.9	2.2	7	-1.4	4
2025	2	1.0	3	.0	.0	.6	5	.1					3.8	1.3			
IP (2017=100)																	
2023	102.1	102.1	102.1	102.5	102.2	101.6	102.3	102.3	102.5	101.8	102.0	101.8	102.1	102.1	102.4	101.9	102.1
2024	100.6	101.9	101.7	101.4	102.0	102.3	101.6	102.1	101.6	101.2	101.0	102.0	101.4	101.9	101.8	101.4	101.7
2025	101.8	102.8	102.5	102.5	102.5	103.1	102.6	102.7					102.4	102.7			
Capacity (percent of 2017 output)																	
2023	128.0	128.3	128.6	128.9	129.1	129.4	129.6	129.8	129.9	130.1	130.2	130.3	128.3	129.1	129.8	130.2	129.4
2024	130.4	130.5	130.6	130.7	130.8	130.9	131.0	131.1	131.2	131.4	131.5	131.7	130.5	130.8	131.1	131.5	131.0
2025	131.8	132.0	132.1	132.3	132.4	132.6	132.7	132.9					132.0	132.4			
Utilization																	
(percent) 2003	77.3	77.3	77.1	76.5	76.5	76.5	76.8	76.5	77.0	77.0	77.5	77.6	77.2	76.5	76.8	77.4	77.0
2004	77.6	78.1	77.8	78.2	78.8	78.2	78.8	78.9	79.0	79.7	79.9	80.5	77.9	78.4	78.9	80.0	78.8
2005	80.7	81.2	81.0	81.0	81.0	81.3	80.8	80.9	79.1	79.9	80.7	80.9	80.9	81.1	80.3	80.5	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	69.8	69.3	68.0	67.4	66.6	66.4	67.2	68.0	68.7	68.9	69.3	69.6	69.1	66.8	68.0	69.3	68.3
2010	70.5	70.8	71.5	71.9	73.0	73.4	73.8	74.2	74.5	74.4	74.5	75.3	70.9	72.8	74.2	74.8	73.2
2011	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
2013	77.1	77.4	77.6	77.5	77.4	77.5	77.2	77.6	78.0	77.8	78.0	78.1	77.4	77.5	77.6	78.0	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	79.0	78.5	78.2	77.7	77.3	77.1	77.6	77.5	77.3	76.9	76.4	76.0	78.5	77.3	77.4	76.4	77.4
2016	76.4	76.0	75.4	75.6	75.4	75.8	75.9	75.8	75.6	75.6	75.3	75.9	75.9	75.6	75.8	75.6	75.7
2017	75.7	75.4	75.9	76.7	76.8	77.0	76.9	76.6	76.8	77.8	78.1	78.3	75.7	76.8	76.8	78.1	76.9
2018	78.4	78.7	79.1	80.1	79.3	80.0	80.0	80.6	80.6	80.4	80.5	80.4	78.7	79.8	80.4	80.4	79.8
2019	79.8	79.3	79.2	78.7	78.8	78.8	78.3	78.8	78.5	77.8	78.2	77.9	79.5	78.8	78.5	78.0	78.7
	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
2020		740	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
2020 2021	76.5	74.0						90.0	81.0	80.8	90 A	79.2	1 90 4	910			80.6
2020		80.3	81.0	81.1	81.1	80.9	81.0	80.9	01.0	80.8	80.4	19.2	80.4	81.0	81.0	80.1	00.0
2020 2021 2022	76.5 79.8	80.3	81.0														
2020 2021	76.5			81.1 79.5 77.6	81.1 79.2 78.0	78.5 78.2	78.9 77.5	78.8 77.8	78.9 77.4	78.2 77.0	78.4 76.8	78.1 77.5	79.6 77.7	79.1 77.9	78.9 77.6	78.2 77.1	78.9 77.6
2020 2021 2022 2023	76.5 79.8 79.8	80.3 79.6	81.0 79.4	79.5	79.2	78.5	78.9	78.8	78.9	78.2	78.4	78.1	79.6	79.1	78.9	78.2	78.9

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

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

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

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ³ 2003 2004 2005 2006 2007	.7 2 .5 .8 4	3 .7 .8 4	.0 1 6 1	9 .4 .3 .3	1 .7 .2 4	.3 7 .1 .2 .5	.1 .9 5 4 1	7 .4 .4 .6 4	.7 1 -1.4 1	1 .9 1.4 5 4	.8 1 .9 .1 .3	2 .7 .0 1.5	.8 1.5 5.1 3.2 3.7	-4.2 3.2 1.4 2 4.4	.2 3.8 -2.1 .0	2.7 4.9 4.7 .6 -1.0	.0 2.0 3.1 1.5 1.8
2008 2009 2010 2011 2012	3 -3.3 .9 .0	9 1 3 .1	6 -2.0 1.2 .7 6	-1.2 8 .8 6	7 -1.1 1.3 .0 4	8 3 .0 .1	-1.0 1.6 .5 .6	-1.3 1.1 .1 .4 1	-3.5 1.0 .0 .3 3	4 .0 .0 .6 3	-2.3 .9 .0 2	-3.2 2 .4 .6	-3.9 -24.8 5.1 2.2 4.9	-9.9 -11.5 9.6 3 1	-14.1 8.8 3.8 4.1 -1.5	-20.8 6.5 .9 3.9 .6	-5.9 -13.9 5.1 2.5 2.3
2013 2014 2015 2016 2017	3 -1.1 6 .4 .2	.4 .9 8 4 1	1 .8 .4 1 4	4 1 1 2 1.1	.3 .2 .0 1 2	.2 .3 4 .2 .1	9 .4 .8 .0 4	.9 6 3 4 2	.1 .0 3 .1 .0	.1 1 2 .1 1.1	.0 .7 2 1 .0	2 2 3 .0 3	2.5 -1.4 -3.6 9	4 4.3 8 -1.4 2.7	4 1.2 .8 4 -2.2	1.4 .2 -2.8 1 3.8	.5 .8 7 -1.0
2018 2019 2020 2021 2022	4 -1.0 3 1.0 6	.9 6 .2 -4.1	1 3 -4.8 3.2 1.0	.7 7 -15.8 .0	9 .1 4.6 1.1 3	.6 .5 8.0 .1 4	.0 8 3.6 .9	.2 .7 1.6 3	.0 7 .0 -1.0	5 9 .8 1.4	2 .8 .6 .9 7	.3 .1 .7 .0 -1.8	.2 -5.1 -5.4 7 2.5	2.2 -3.3 -44.5 5.6 2.4	1.2 9 55.6 3.5 3	-1.7 -2.2 7.9 5.1 -3.0	1.1 -2.2 -6.8 4.8 2.6
2023 2024 2025	1.9 -1.3 5	1 1.4 1.2	7 .2 .5	.6 8 5	1 .7 .1	6 .0 .3	.2 7 2	.1 .5 .2	.1 3	8 7	.5 .1	1 .4	.4 -1.0 3.0	6 .9 1.6	6 9	-1.7 -1.9	7 7
IP (2017=100) 2023 2024 2025	99.0 96.7 97.0	98.9 98.1 98.2	98.2 98.3 98.7	98.9 97.5 98.2	98.7 98.2 98.3	98.1 98.2 98.6	98.3 97.5 98.4	98.4 98.0 98.6	98.5 97.7	97.7 97.0	98.2 97.2	98.0 97.6	98.7 97.7 98.0	98.5 97.9 98.4	98.4 97.7	98.0 97.3	98.4 97.7
Capacity (percent of 2017 output) 2023 2024 2025	125.4 126.7 128.0	125.5 126.8 128.1	125.6 126.9 128.2	125.7 127.0 128.3	125.8 127.1 128.4	125.9 127.2 128.5	126.0 127.3 128.6	126.1 127.4 128.6	126.2 127.5	126.4 127.6	126.5 127.8	126.6 127.9	125.5 126.8 128.1	125.8 127.1 128.4	126.1 127.4	126.5 127.8	126.0 127.3
Utilization (percent) 2003 2004 2005 2006 2007	75.4 75.5 79.2 79.7 78.7	75.2 76.1 79.7 79.3 78.8	75.2 76.1 79.2 79.1 79.2	74.6 76.4 79.3 79.2 79.5	74.5 77.0 79.4 78.8 79.4	74.7 76.5 79.4 78.8 79.7	74.9 77.3 78.9 78.4 79.6	74.4 77.6 79.1 78.8 79.2	75.0 77.6 77.9 78.6 79.3	75.0 78.3 78.8 78.1 78.9	75.7 78.3 79.4 78.1 79.2	75.6 78.8 79.2 79.1 79.1	75.3 75.9 79.3 79.4 78.9	74.6 76.7 79.4 78.9 79.5	74.8 77.5 78.6 78.6 79.4	75.4 78.5 79.1 78.4 79.1	75.0 77.1 79.1 78.8 79.2
2008 2009 2010 2011 2012	78.9 65.4 67.4 71.9 74.9	78.2 65.4 67.3 72.1 75.2	77.7 64.2 68.3 72.7 74.7	76.8 63.7 69.0 72.4 75.0	76.3 63.1 70.0 72.5 74.6	75.8 63.0 70.1 72.6 74.8	75.0 64.2 70.6 73.1 74.5	74.1 65.0 70.8 73.4 74.4	71.5 65.8 71.0 73.6 74.2	71.3 65.9 71.2 74.1 74.0	69.7 66.7 71.4 73.9 74.4	67.6 66.7 71.8 74.4 74.9	78.3 65.0 67.7 72.2 74.9	76.3 63.3 69.7 72.5 74.8	73.6 65.0 70.8 73.4 74.4	69.5 66.4 71.4 74.1 74.4	74.4 64.9 69.9 73.1 74.6
2013 2014 2015 2016 2017	74.7 74.4 76.6 76.4 75.9	75.0 75.2 76.1 76.1 75.9	74.9 75.8 76.5 76.0 75.7	74.6 75.9 76.5 75.8 76.6	74.9 76.1 76.6 75.7 76.5	75.0 76.4 76.4 75.9 76.7	74.4 76.8 77.0 75.9 76.5	75.1 76.4 76.8 75.6 76.4	75.2 76.5 76.6 75.7 76.5	75.3 76.5 76.5 75.7 77.4	75.3 77.1 76.4 75.7 77.6	75.2 77.0 76.1 75.8 77.5	74.9 75.1 76.4 76.1 75.9	74.9 76.1 76.5 75.8 76.6	74.9 76.6 76.8 75.7 76.5	75.3 76.8 76.3 75.7 77.5	75.0 76.2 76.5 75.8 76.6
2018 2019 2020 2021 2022	77.3 78.0 77.0 76.8 78.5	78.1 77.6 77.2 73.7 79.2	78.1 77.4 73.6 76.1 80.0	78.7 77.0 62.0 76.1 80.0	78.0 77.0 64.9 77.0 79.7	78.6 77.4 70.2 77.2 79.4	78.6 76.9 72.8 78.0 79.4	78.9 77.4 74.0 77.8 79.5	78.9 76.9 74.1 77.1 79.7	78.6 76.3 74.8 78.2 79.7	78.4 77.0 75.3 79.0 79.1	78.8 77.1 76.0 79.0 77.6	77.8 77.7 75.9 75.5 79.3	78.4 77.1 65.7 76.8 79.7	78.8 77.1 73.7 77.6 79.5	78.6 76.8 75.4 78.7 78.8	78.4 77.2 72.7 77.2 79.3
2023 2024 2025	78.9 76.4 75.8	78.8 77.4 76.6	78.2 77.5 77.0	78.6 76.8 76.6	78.5 77.2 76.6	77.9 77.2 76.7	78.0 76.6 76.5	78.0 76.9 76.6	78.0 76.6	77.3 76.0	77.6 76.1	77.5 76.3	78.7 77.1 76.5	78.3 77.1 76.6	78.0 76.7	77.5 76.1	78.1 76.7

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

	Annua				2017	100	Paraant ahanga							
	chai	nge	2025		2017	=100			Percent change					
	2025		2025						2025					
Item	Q1	Q2	Mar.	Apr.	May	June	July	Aug.	Mar.	Apr.	May	June	July	Aug.
Total index														
85th percentile	4.08	1.97	103.54	103.67	103.77	104.40	104.14	104.31	32	.13	.13	.69	08	.40
Current estimate	4.08	1.55	103.54	103.62	103.66	104.21	103.82	103.92	32	.08	.03	.53	38	.10
15th percentile	4.08	1.09	103.54	103.56	103.54	104.03	103.50	103.49	32	.02	07	.41	63	28
Manufacturing (SIC)														
85th percentile	3.37	2.39	100.18	99.80	100.01	100.34	100.27	100.63	.52	38	.24	.38	.07	.52
Current estimate	3.37	1.91	100.18	99.74	99.89	100.15	100.04	100.28	.52	44	.15	.26	11	.24
15th percentile	3.37	1.37	100.18	99.68	99.76	99.92	99.73	99.75	.52	50	.04	.11	31	11
Mining														
85th percentile	.05	7.95	121.37	121.31	121.86	122.61	121.57	122.92	1.55	05	.58	.86	54	1.86
Current estimate	.05	7.02	121.37	121.18	121.54	122.07	120.28	121.39	1.55	16	.30	.44	-1.47	.93
15th percentile	.05	6.07	121.37	120.99	121.17	121.55	119.05	119.70	1.55	31	.02	.10	-2.20	06
Electric and gas utilities														
85th percentile	14.60	-6.34	103.52	107.80	106.63	109.91	110.37	108.23	-8.20	4.14	-1.06	3.14	1.02	12
Current estimate	14.60	-7.42	103.52	107.78	106.57	109.37	108.57	106.38	-8.20	4.12	-1.13	2.63	73	-2.01
15th percentile	14.60	-7.76	103.52	107.77	106.50	109.21	107.33	105.11	-8.20	4.11	-1.21	2.42	-2.25	-3.78

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

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

INDUSTRIAL PRODUCTION

Coverage. The industrial production (IP) index measures the real output of the manufacturing, mining, and electric and gas utilities industries; the reference period for the index is 2017. Manufacturing consists of those industries included in the North American Industry Classification System, or NAICS, definition of manufacturing plus those industries—logging and newspaper, periodical, book, and directory publishing—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.)

	Month 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.

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.

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

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