FEDERAL RESERVE statistical release



For release at 9:15 a.m. (EST)

January 14, 2022

G.17 (419)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production declined 0.1 percent in December. Losses of 0.3 percent for manufacturing and 1.5 percent for utilities were mostly offset by a gain of 2.0 percent for mining. For the fourth quarter as a whole, total industrial production rose at an annual rate of 4.0 percent. At 101.9 percent of its 2017 average, total

(over)

Industrial Production and Capacity Utilization: Summary

Seasonally adjusted

			2017=	100]	Percent	change		
	2021						2021						Dec. '20 to
Industrial production	July	Aug."	Sept. ^r	Oct."	Nov. ^r	Dec. ^p	July ^r	Aug."	Sept. ^r	Oct."	Nov. ^r	Dec. ^p	Dec. '21
Total index	101.2	101.0	100.0	101.3	102.0	101.9	.7	2	-1.0	1.2	.7	1	3.7
Previous estimates	101.2	101.0	100.0	101.5	102.0	101.9	.7	1	-1.0	1.7	.5	-,1	5.7
1 revious estimates	101.2	101.1	100.1	101.0	102.5		.0	.1	1.0	1.7			
Major market groups													
Final Products	101.5	100.9	100.4	100.8	101.8	101.1	1.6	6	5	.4	.9	7	2.4
Consumer goods	100.8	100.3	99.8	99.8	101.1	100.2	.9	5	5	.0	1.3	9	2
Business equipment	96.0	95.1	94.8	95.2	95.6	95.1	3.0	9	3	.4	.4	5	3.7
Nonindustrial supplies	97.2	97.6	98.2	98.5	99.5	99.2	.9	.4	.6	.3	1.0	3	3.4
Construction	99.3	99.6	101.2	101.9	104.0	104.3	1.3	.3	1.6	.6	2.1	.3	4.4
Materials	102.2	102.2	100.2	102.5	102.9	103.4	2	.0	-1.9	2.3	.5	.5	4.9
Major industry groups													
Manufacturing (see note below)	99.5	99.0	98.5	99.9	100.5	100.2	1.4	6	5	1.4	.6	3	3.5
Previous estimates	99.6	99.1	98.6	99.9	100.6		1.4	5	5	1.4	.7		
Mining	106.9	106.6	104.3	108.7	109.2	111.5	.1	4	-2.1	4.3	.5	2.0	11.0
Utilities	103.2	106.1	103.1	99.6	101.5	100.0	-3.0	2.8	-2.8	-3.4	1.9	-1.5	-3.4
													Capacity
					Perce	ent of cap	acity						growth
	Average	1988-	1990-	1994-									
	1972-	89	91	95	2009	2020	2021						Dec. '20 to
Capacity utilization	2020	high	low	high	low	Dec.	July ^r	Aug."	Sept. ^r	Oct. ^r	Nov. ^r	Dec. ^p	Dec. '21
Total induction	79.6	85.2	78.8	85.1	66.6	74.1	76.2	76.0	75.2	76.1	76.6	76.5	.4
Total industry Previous estimates	79.0	03.2	/0.0	63.1	00.0	/4.1	76.2	76.0	75.2	76.1	76.8	70.5	.4
Previous estimates							70.2	/0.1	15.5	70.5	/0.8		
Manufacturing (see note below)	78.2	85.6	77.3	84.7	63.5	74.4	76.6	76.1	75.7	76.8	77.2	77.0	.2
Previous estimates	76.2	05.0	11.5	04.7	05.5	/4.4	76.6	76.2	75.8	76.8	77.3	77.0	.2
Mining	86.2	86.0	83.8	88.3	78.3	70.6	75.8	75.6	73.8	70.8	77.5	79.1	-1.0
Utilities	80.2 85.0	93.1	84.6	93.2	78.0	75.4	74.0	76.0	74.0	71.0	72.2	79.1	2.5
Oundes	85.0	95.1	04.0	93.2	/8.0	75.4	74.0	70.0	15.1	/1.0	12.2	/1.0	2.5
Stage-of-process groups													
Crude	85.4	87.7	84.6	89.7	76.5	73.2	77.5	77.0	74.6	78.0	78.4	79.6	4
Primary and semifinished	80.2	86.5	78.1	87.9	63.5	74.1	75.1	75.4	74.9	75.0	75.7	75.2	.7
Finished	76.8	83.4	77.5	80.7	66.5	74.5	77.0	76.4	76.0	76.8	77.1	76.9	.1
r Revised p Preliminary				/									· · · · · · · · · · · · · · · · · · ·

r Revised. p Preliminary.

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

industrial production in December was 3.7 percent higher than it was at the end of 2020 and 0.6 percent above its pre-pandemic (February 2020) reading. Capacity utilization for the industrial sector edged down 0.1 percentage point in December to 76.5 percent, a rate that is 3.1 percentage points below its long-run (1972–2020) average.

Market Groups

Market groups posted mixed results in December. The production of consumer goods moved down nearly 1 percent, with decreases of 1 percent and 3 percent for durables and consumer energy products, respectively, and little change for non-energy nondurables. The indexes for business equipment and for business supplies each fell about 1/2 percent, while the indexes for defense and space equipment and for construction supplies each rose about 1/4 percent. The output of materials moved up 1/2 percent, with gains for nondurable materials and for energy materials.

Industry Groups

Manufacturing production declined 0.3 percent in December but was up 3½ percent over the past 12 months; in the fourth quarter, factory output rose nearly 5 percent at an annual rate. The index for motor vehicles and parts stepped down 1.3 percent in December and was about 6 percent lower than its year-earlier level. Excluding the motor vehicle sector, factory output dipped 0.2 percent, with similarly sized decreases for durables and nondurables. Within durables, miscellaneous manufacturing recorded the largest decrease (2.7 percent), while wood products and nonmetallic mineral products posted the largest increases (1.2 percent and 1.5 percent, respectively). Within nondurables, chemicals posted the largest gain (0.7 percent), but most other subcategories recorded losses of between 1 and 2 percent. The output of other manufacturing (publishing and logging) decreased 0.8 percent.

The index for mining increased 2.0 percent in December, primarily reflecting gains in the oil and gas sector. Mining output rose more than 15 percent at an annual rate in the fourth quarter and has risen more than 10 percent from its level of a year earlier. Even so, the index for mining in December was about 6 percent below its pre-pandemic level.

The decrease of 1.5 percent in the index for utilities in December primarily resulted from a drop in the output of gas utilities, as warmer-than-normal temperatures reduced demand for heating.

Capacity utilization for manufacturing decreased 0.2 percentage point in December to 77.0 percent, 1.5 percentage points higher than its pre-pandemic level but still 1.2 percentage points below its long-run average. The operating rates for mining and utilities increased to 79.1 percent and 71.0 percent, respectively, but both remained well below their long-run averages.

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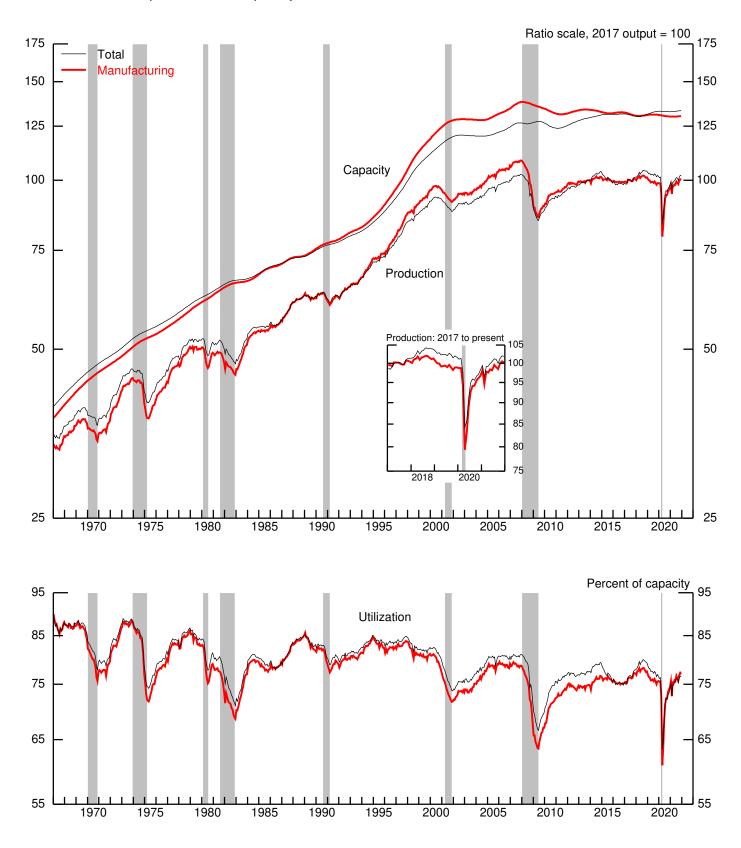
Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

Revision of Industrial Production and Capacity Utilization

The Federal Reserve Board plans to issue its annual revision to the indexes of industrial production (IP) and the related measures of capacity utilization in the second quarter of 2022. New annual benchmark data for manufacturing for 2020 will be incorporated, as well as other annual data, including information on the mining of metallic and nonmetallic minerals (except fuels). 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.

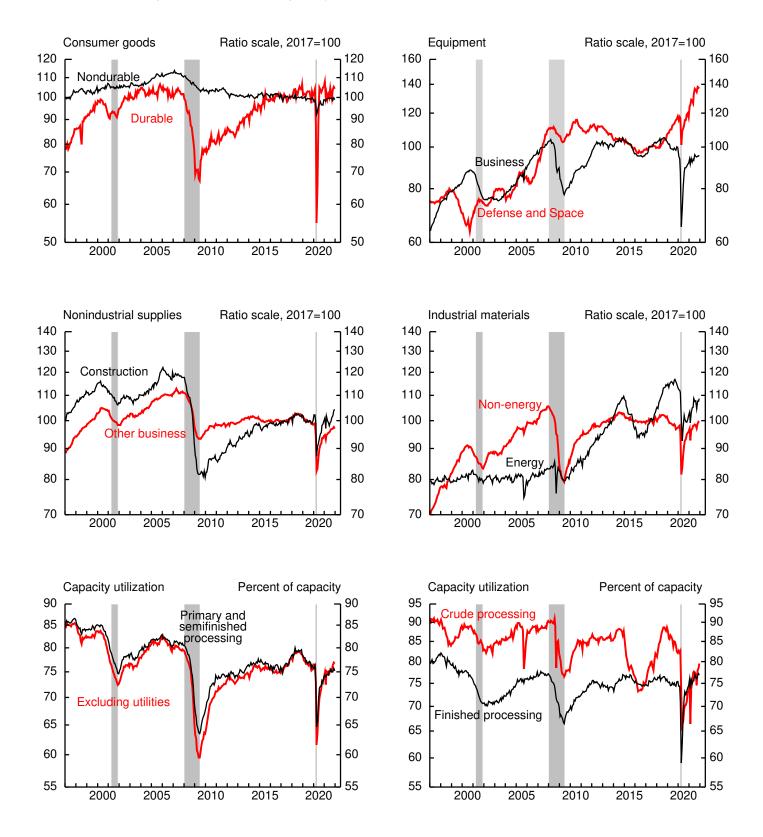
Capacity and capacity utilization will be revised to incorporate data for manufacturing through the fourth quarter of 2021 from the U.S. Census Bureau's Quarterly Survey of Plant Capacity Utilization, along with new data on capacity from the U.S. Geological Survey, the U.S. Department of Energy, and other organizations.

1. Industrial production, capacity, and utilization



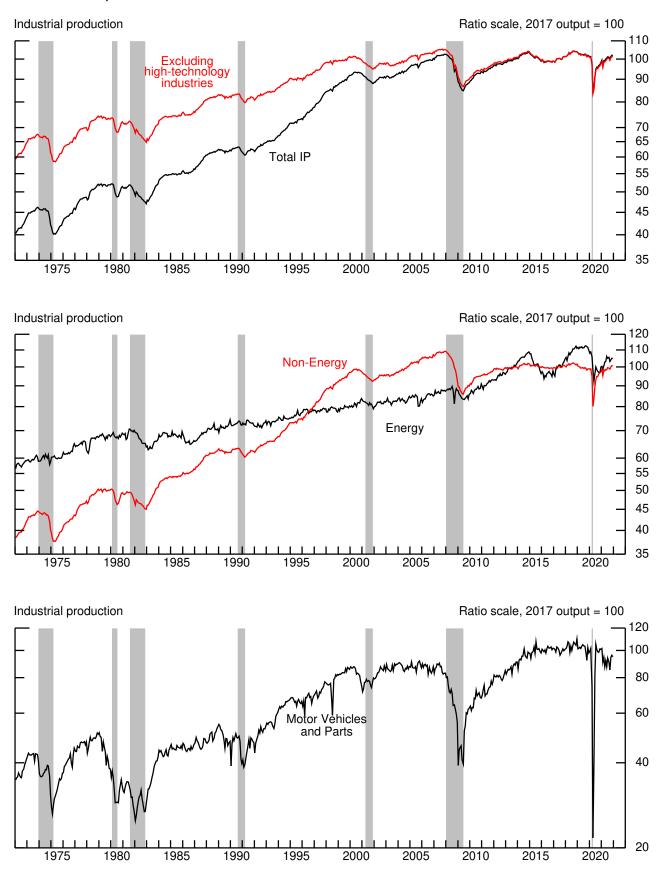
Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

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

			Four fou	rth quar		Ar	nual ra	te			Month	ly rate			Dec. '20
Item		2020 proportion ¹	2019	2020	2021	2021 Q2	Q3 ^r	Q4 ^p	2021 July ^r	Aug. ^r	Sept.r	Oct.r	Nov. ^r	Dec. ^p	to Dec. '21
Total IP		100.00	-2.1	-4.3	4.5	6.5	3.5	4.0	.7	2	-1.0	1.2	.7	1	3.7
MARKET GROUPS															
Final products and nonindustrial supplies		56.60	-1.9	-3.4	3.8	1.5	5.3	2.6	1.4	3	2	.4	1.0	6	2.7
Consumer goods		28.38	-1.3	8	1.4	.0	2.0	.2	.9	5	5	.0	1.3	9	2
Durable		6.01	-4.2	4.2	.0	-11.4	8.1	9.0	4.5	-1.9	-2.8	4.3	1.3	-1.0	-1.0
Automotive products		3.24	-5.2	5.1	-5.0	-21.2	10.2	12.2	8.2	-3.7	-5.7	7.8	1.9	-2.1	-6.4
Home electronics		.16	3.4	16.1	3.9	14.9	-8.8	1.5	-2.7	.3	-1.3	.4	.8	.7	3.1
Appliances, furniture, carpeting		.94	-2.9	5.2	.7	-13.5	2.7	4	.6	-1.6	5	.9	-1.6	2.9	1.9
Miscellaneous goods		1.67	-3.9	.7	9.9	9.9	8.7	9.0	.5	1.2	1.2	.2	1.7	-1.2	8.6
Nondurable		22.37	4	-2.2	1.9	3.5	.4	-2.1	.0	1	.1	-1.1	1.3	9	.0
Non-energy		16.87	.3	8	2.3	1.0	.4	3.6	.6	5	.6	.4	.5	1	1.2
Foods and tobacco		9.94	1.3	4	.2	-4.3	-2.9	4.2	1.0	-1.8	.1	1.0	.8	.1	8
Clothing		.20	1.9	-1.3	4.3	6.7	6.9	-5.0	.3	.7	1.1	9	-1.4	-1.4	2.6
Chemical products		5.33	.0	8	7.2	15.5	5.6	2.8	5	1.4	1.2	6	.2	2	5.5
Paper products		.97	-6.0	-4.3	-2.6	-17.9	.0	9.1	1.6	2.5	1.5	1.0	8	5	-1.3
Energy		5.50	-2.5	-6.6	.8	11.1	.6	-16.0	-1.6	1.0	-1.0	-5.1	3.5	-3.0	-3.2
Business equipment		9.20	-4.2	-8.4	4.7	.1	9.8	.0	3.0	9	3	.4	.4	5	3.7
Transit		2.12	-6.1	-23.7	-3.3	-28.2	9.2	7.3	6.2	-3.4	-3.2	5.8	.5	-2.5	-5.9
Information processing		2.09	1.5	3.6	7.7	19.3	9.4	-3.5	1.2	.5	-1.5	6	.4	.9	7.9
Industrial and other		4.99	-5.3	-4.5	7.5	8.8	10.2	-1.7	2.2	3	1.5	-1.5	.3	1	6.8
Defense and space equipment		2.80	10.9	1.9	16.0	10.2	21.2	6.6	2.8	8	-1.0	2.7	4	.3	17.4
Construction supplies Business supplies		4.98 10.67	-2.4 -3.0	4 -5.0	4.5 3.7	-3.0 5.5	3.7 5.2	13.9 2.4	1.3 .7	.3 .5	1.6 .1	.6 .2	2.1 .6	.3 6	4.4 2.8
Materials		43.40	-2.5	-5.5	5.3	13.2	1.2	5.7	2	.0	-1.9	2.3	.5	.5	4.9
Non-energy		43.40 27.45	-2.5	-3.5	3.3 4.2	9.8	1.2	6.1	2	2	-1.9	2.5 1.9	.5		4.9
Durable		16.71	-4.5	-2.8	4.0	9	4.1	5.7	1.2	2	-1.2	1.9	.7	1	3.6
Consumer parts		2.46	-10.7	1.1	.0	-16.9	5.0	10.1	3.7	-1.8	-4.2	5.7	.0	1.1	-1.1
Equipment parts		4.86	-1.6	-1.6	6.3	8.3	6.3	-1.5	1.7	-1.1	.7	1	4	5	5.6
Other		9.39	-5.2	-4.7	3.9	5	2.7	8.3	.3	.8	-1.0	1.4	1.6	2	3.9
Nondurable		10.74	-3.0	.2	4.5	29.2	-2.9	6.7	6	3	-1.6	2.3	.6	.5	4.7
Textile		.35	-3.8	-4.8	6.0	10.3	7	8.7	.8	-2.1	3.7	-1.5	2.8	.1	5.8
Paper		1.63	-1.3	-7.5	3.7	10.5	5.9	3.5	1.3	.6	.8	3	1.4	-1.4	3.4
Chemical		5.27	-5.6	3.0	6.4	61.7	-5.3	7.3	8	-1.3	-3.8	4.0	.8	1.0	6.9
Energy		15.95	.6	-12.3	7.3	19.0	1.2	5.2	-1.2	.3	-3.0	2.9	.0	1.0	6.5
INDUSTRY GROUPS											_				
Manufacturing	21.27	75.90	-2.6	-2.5	4.2	5.0	4.0	4.9	1.4	6	5	1.4	.6	3	3.5
Manufacturing (NAICS)	31-33	73.88	-2.4	-2.4	4.4	5.8	4.1	4.8	1.4	7	5	1.4	.7	3	3.7
Durable manufacturing		38.14	-3.3	-2.6	4.5	2	7.7	3.9	2.5	8	7	1.4	.6	4	3.8
Wood products	321	1.71	-1.1	.2	2.2	.3	-2.8	6.8	.8	-1.0	.7	.4	.9	1.2	.6
Nonmetallic mineral products	327	2.29	-2.2	.9	2	-7.9	5.0	7.1	1.2	.2	.2	-1.0	3.0	1.5	7
Primary metals	331	2.28 5.95	-7.5	-6.7	9.6	20.0	5.4	3.8	1.5	6	-1.0	1.9	1	2	9.4
Fabricated metal products	332		-3.9	-5.9	5.0	3.1	3.5	5.7	.1	.5	.7	.6	.9	-1.2	4.2
Machinery	333	5.40	-6.7	2	7.6	4.5	9.2	1.4	2.8	9	.5	.3	3	.7	8.0
Computer and electronic products	334	4.96	2.3	4.1	7.4	18.7	7.0	-2.2	.8	.4	-1.2	4	.3	.7	7.5
Electrical equip., appliances, and components	335	1.85	-3.3	-2.0	4.5	2.1	4.7	-2.3	3.2	-1.7	1.1	7	1	.0	3.8
Motor vehicles and parts	3361-3	4.89	-3.3	-2.0	-5.0	-24.6	4.7	-2.3	3.2 7.4	-1.7	-6.1	/	1	-1.3	-5.9
Aerospace and miscellaneous	5501-3	4.09	-0.4	2.0	-5.0	-24.0	4.0	23.1	/.4	-3.3	-0.1	10.8	1.7	-1.3	-3.9
transportation equipment	3364-9	4.76	3.8	-13.4	8.7	-5.6	21.3	-3.7	4.2	-2.1	7	.8	3	-1.0	7.9
Furniture and related products	3304-9	1.23	-3.9	-13.4	o./ 3.1	-2.1	5.8	-3.7	4	-2.1	/	.0 .0	5	-1.0	3.0
Miscellaneous	339	2.82	-4.7	-1.4	5.1	4.0	9.8	-4.9	1.7	.3	.1	-1.3	1.3	-2.7	2.5
		25 75	1.5	2.2	4.2	12.0	.3	57	2	E	2	1.2	0	2	3.6
Nondurable manufacturing Food, beverage, and tobacco products	311,2	35.75 12.42	-1.5	-2.2 3	4.3	12.9 -3.1	.3 -3.1	5.7 4.7	.3 .4	5 -1.2	3 .2	1.3 .9	.8	2 .2	4
Textile and product mills	311,2	.63	-3.8	3	.4 4.6	-3.1	-3.1	6.2	.4	-1.2	2.7	.9	.6 1.7	.2	4
Apparel and leather	313,4 315,6	.03	-5.8	-3.6 9	4.0	4.8 6.6	-5.4	-5.8	.0	-2.0	.6	/ 9	-1.2	-1.5	2.6
Apparei and leather Paper	313,0	2.40	-1.4	-3.6	4.5	4.7	0.4 .5	-3.8	.2	.5	0. 0.	9 1	-1.2	-1.5	2.0
Printing and support	322	1.34	-1.4	-8.3	.0 7.4	4.7	10.9	7.9	.1	4	2.5	1.3	3	-1.2	5.6
Petroleum and coal products	323	3.34	-3.7	-0.5	10.5	26.2	-4.8	4.5	2	4	2	1.5	5	-1.6	7.5
Chemicals	324	11.85	-1.2	-12.1	7.1	36.9	-4.0	7.6	2	-1.1	-1.6	2.3	.7	-1.0	7.2
Plastics and rubber products	325	3.53	-5.1	-2.2	4.2	-5.5	12.4	6.3	1.6	2	-1.0	.7	1.3	-1.8	3.1
Other manufacturing (non-NAICS)	1133,5111	2.01	-7.6	-9.1	-3.8	-21.4	.4	9.1	.5	3.5	2.0	1.3	-1.9	8	-2.5
Mining	21	12.17	.5	-16.6	10.7	22.1	8	15.6	.1	4	-2.1	4.3	.5	2.0	11.0
Utilities	2211,2	11.94	-1.7	-3.2	2	.3	5.4	-13.7	-3.0	2.8	-2.8	-3.4	1.9	-1.5	-3.4
					0		11	0.6	0.4	2.2	0.1	1.7	2		1.0
Electric Natural gas	2211 2212	10.29 1.64	-1.3 -4.1	-2.1 -9.9	.9	-2.0 15.3	6.6 -1.5	-9.6 -34.6	-3.4 4	3.2 .5	-3.1 -1.4	-1.5 -14.0	.3 12.6	4 -7.9	-1.9 -12.3

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/G17/20220114/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

T		2020		rth quart urth quar			nnual rat	e	2021		Month	ly rate			Dec. '20
Item		proportion	2019	2020	2021	2021 Q2	Q3 ^r	Q4 ^p	2021 July ^r	Aug. ^r	Sept. ^r	Oct. ^r	Nov. ^r	Dec. ^p	to Dec. '21
Total industry		100.00	-2.1	-4.3	4.5	6.5	3.5	4.0	.7	2	-1.0	1.2	.7	1	3.7
Energy		24.65	4	-11.8	6.7	16.8	2.4	.2	-1.1	.6	-2.2	.8	.9	.1	5.0
Consumer products		5.50	-2.5	-6.6	.8	11.1	.6	-16.0	-1.6	1.0	-1.0	-5.1	3.5	-3.0	-3.2
Commercial products	010111	2.69	.3	-9.5	7.0	12.1	7.3	-2.5	5	1.0	1	-1.4	.8	1	4.9
Oil and gas well drilling Converted fuel	213111	.50 5.11	-11.1	-48.3 -4.5	63.5 4.4	41.5 12.2	42.9 2.3	50.2 -4.1	6.1 -3.7	1.1 1.9	-1.2 -5.5	9.3 1.8	.7 .8	3.7 6	54.6 2.1
Primary energy		10.84	2.1	-4.5	4.4 8.6	22.5	.7	-4.1 9.4	-3.7	3	-2.0	3.4	.0 3	0	8.5
Non-energy		75.35	-2.7	-1.9	3.8	3.2	3.9	5.4	1.3	4	5	1.4	.7	2	3.3
Selected high-technology industries		2.17	6.1	9.2	5.8	14.0	-4.4	1.4	9	2	.4	3	.6	.3	5.5
Computers and peripheral equipment	3341	.28	12.2	19.0	6.8	12.1	-9.9	21.0	-3.8	1.3	1.2	.8	3.3	1.8	7.8
Communications equipment	3342	.60	4.3	13.0	1.4	9.8	-12.4	-11.4	-1.9	-1.2	-1.0	-1.8	2	.0	1
Semiconductors and related															
electronic components	3344	1.29	5.6	5.9	7.8	16.6	1.1	3.8	.3	1	.8	.1	.4	.1	7.7
Excluding selected high-technology industries		73.18	-3.0	-2.3	3.7	2.9	4.1	5.5	1.4	4	5	1.4	.7	2	3.2
Motor vehicles and parts	3361-3	4.89	-8.4	2.8	-5.0	-24.6	4.8	25.1	7.4	-3.3	-6.1	10.8	1.7	-1.3	-5.9
Motor vehicles	3361	2.46	-8.5	3.3	-10.8	-24.0	6	36.7	10.9	-5.5	-10.5	17.9	3.2	-1.5	-11.8
Motor vehicle parts	3363	2.00	-8.1	.6	-1.1	-14.1	1.8	15.6	2.9	7	-3.2	5.4	.8	-2.8	-1.1
Excluding motor vehicles and parts		68.29	-2.5	-2.6	4.4	5.3	4.1	4.2	1.0	2	1	.8	.6	1	3.9
Consumer goods		20.00	4	3	2.8	.9	1.9	2.9	.8	5	.5	.2	.6	2	1.8
Business equipment		7.79	-4.0	-10.8	6.1	3.2	12.3	-3.5	2.6	5	.4	9	.0	2	5.0
Construction supplies		4.96	-2.4	4	4.5	-3.1	3.7	14.0	1.3	.3	1.6	.6	2.1	.3	4.4
Business supplies Materials		7.58 25.14	-4.7 -4.2	-4.1 -2.1	2.3 4.5	2.6 11.6	4.6 1.3	4.2 5.4	1.1 .3	.3 1	.2 -1.1	.8 1.6	.5 .7	8 .1	1.9 4.3
Measures excluding selected high-technology industries															
Total industry		97.83	-2.3	-4.6	4.4	6.3	3.6	4.0	.7	2	-1.0	1.3	.7	1	3.6
Manufacturing ¹		73.72	-2.8	-2.9	4.1	4.8	4.2	5.0	1.5	6	5	1.4	.6	3	3.5
Durable		36.12	-3.8	-3.4	4.3	-1.1	8.5	4.0	2.6	9	7	1.5	.6	4	3.7
Measures excluding motor vehicles and parts															
Total industry		95.11	-1.8	-4.7	5.0	8.4	3.4	3.0	.4	.0	7	.8	.7	.0	4.2
Manufacturing ¹		71.00	-2.1	-2.9	4.9	7.6	3.9	3.6	1.0	4	1	.8	.5	2	4.3
Durable		33.41	-2.4	-3.4	6.0	3.9	8.1	1.1	1.8	5	.1	.2	.4	2	5.4
Measures excluding selected high-technology industries															
and motor vehicles and parts Total industry		92.93	-2.0	-5.0	5.0	8.3	3.6	3.0	.4	.0		8	7	.0	4.2
Manufacturing ¹		68.83	-2.0	-3.3	4.9	7.3	4.2	3.7	1.1	4	1	.8 .8	.7	2	4.2
Stage-of-process components of non-energy materials,															
measures of the input to Finished processors Primary and semifinished processors		9.29 18.15	-4.4	-1.9 -1.5	4.0	1.0 14.6	5.6 8	2.8 7.7	2.2	-1.0	5 -1.6	1.4 2.1	.1	2	3.3 4.4

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

Table 3 MOTOR VEHICLE ASSEMBLIES

Millions of units, seasonally adjusted annual rate

minons of units, seasonany aujusted annual fate											
	2021	2021				2021					
Item	average	Q1	Q2	Q3	Q4	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total	9.13	9.71	8.98	8.51	9.33	9.14	8.70	7.69	9.15	9.58	9.28
Autos	1.56	1.76	1.53	1.39	1.61	1.69	1.47	1.01	1.51	1.55	1.78
Trucks	7.57	7.94	7.45	7.12	7.72	7.45	7.23	6.68	7.63	8.03	7.50
Light	7.29	7.65	7.18	6.85	7.41	7.18	6.97	6.41	7.33	7.71	7.20
Medium and heavy	.28	.29	.27	.27	.31	.27	.26	.26	.31	.32	.30
Memo											
Autos and light trucks	8.85	9.42	8.71	8.24	9.02	8.87	8.44	7.42	8.84	9.25	8.98

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

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

017 = 100, seasonally adjusted											
Item		2020 proportion	2021 Apr.	May	June	July ^r	Aug. ^r	Sept. ^r	Oct. ^r	Nov. ^r	Dec. ^p
Total IP		100.00	99.2	99.9	100.5	101.2	101.0	100.0	101.3	102.0	101.9
MARKET GROUPS											
Final products and nonindustrial supplies		56.60	98.4	98.9	98.9	100.3	100.0	99.8	100.2	101.1	100.6
Consumer goods		28.38	98.4 99.5	98.9	98.9	100.3	100.0	99.8 99.8	99.8	101.1	100.8
Durable		6.01	99.3 99.2	100.1	100.0	100.8	100.5	99.8 99.6	103.9	101.1	100.2
		3.24	99.2	98.1	94.5	104.3	98.5	99.0	103.9	103.5	99.9
Automotive products Home electronics		.16	161.9	161.3	163.3	158.9	159.4	157.2	157.9	159.2	160.3
Appliances, furniture, carpeting		.94	98.9	99.7	103.3	101.9	100.3	99.8	100.7	99.0	100.3
Miscellaneous goods		1.67	105.7	105.2	101.5	101.9	100.3	109.1	100.7	111.3	101.9
Nondurable		22.37	99.5	99.6	99.8	99.7	99.6	99.8	98.6	99.9	99.0
Non-energy		16.87	99.2	99.3	98.7	99.3	98.8	99.4	99.7	100.2	100.1
Foods and tobacco		9.94	99.2	98.8	98.2	99.2	97.4	97.5	98.4	99.3	99.4
Clothing		.20	97.2	100.3	99.6	99.8	100.5	101.6	100.8	99.4	98.0
Chemical products		5.33	101.9	103.2	103.3	102.8	104.3	105.6	104.9	105.1	104.9
Paper products		.97	85.2	82.2	79.1	80.4	82.4	83.7	84.5	83.9	83.5
Energy		5.50	100.0	100.3	102.4	100.7	101.7	100.7	95.5	98.8	95.8
Business equipment		9.20	92.3	93.8	93.2	96.0	95.1	94.8	95.2	95.6	95.1
Transit		2.12	65.2	66.2	65.2 120.2	69.3	66.9	64.8 120.5	68.6	68.9	67.2 121.3
Information processing		2.09 4.99	116.4 100.5	119.8 101.6	120.2 101.0	121.7 103.2	122.3 102.9	120.5 104.4	119.8 102.8	120.2 103.2	121.3
Industrial and other Defense and space equipment		2.80	128.3	126.5	133.0	103.2	135.7	104.4	102.8	103.2	103.1
Defense and space equipment		2.80	128.5	120.3	133.0	130.7	155.7	134.4	138.1	137.3	137.8
Construction supplies		4.98	100.1	99.2	98.1	99.3	99.6	101.2	101.9	104.0	104.3
Business supplies		10.67	95.0	95.5	95.6	96.3	96.7	96.8	97.0	97.6	97.0
Materials		43.40	100.2	101.1	102.3	102.2	102.2	100.2	102.5	102.9	103.4
Non-energy		27.45	96.9	98.1	98.0	98.5	98.3	97.1	98.9	99.6	99.8
Durable		16.71	95.9	96.9	96.7	97.9	97.8	96.8	98.3	99.1	99.1
Consumer parts		2.46	87.3	89.5	88.6	91.9	90.3	86.5	91.4	91.4	92.4
Equipment parts		4.86	104.5	106.2	105.8	107.6	106.5	107.2	107.1	106.7	106.2
Other		9.39	94.2	94.6	94.6	94.9	95.7	94.7	96.0	97.6	97.4
Nondurable		10.74	98.4	99.8	100.0	99.4	99.1	97.6	99.8	100.4	100.8
Textile		.35	94.2	93.8	92.9	93.6	91.7	95.1	93.7	96.2	96.4
Paper		1.63	90.2	91.9	90.3	91.4	92.0	92.8	92.5	93.7	92.4
Chemical		5.27	98.2	101.0	101.9	101.1	99.8	96.1	99.9	100.7	101.7
Energy		15.95	104.9	105.2	108.7	107.5	107.8	104.6	107.6	107.6	108.7
INDUSTRY GROUPS											
Manufacturing		75.90	97.6	98.4	98.2	99.5	99.0	98.5	99.9	100.5	100.2
Manufacturing (NAICS)	31-33	73.88	98.2	99.1	99.0	100.4	99.7	99.2	100.5	101.2	100.9
Durable manufacturing		38.14	98.7	99.6	99.4	101.9	101.0	100.3	101.7	102.4	102.0
Wood products	321	1.71	98.5	98.6	97.0	97.7	96.8	97.5	98.0	98.9	100.1
Nonmetallic mineral products	327	2.29	96.6	94.4	95.2	96.4	96.5	96.7	95.8	98.7	100.2
Primary metals	331	2.28	97.3	95.6	97.2	98.7	98.1	97.2	99.0	99.0	98.7
Fabricated metal products	332	5.95	97.1	98.1	97.9	98.0	98.4	99.2	99.7	100.6	99.4
Machinery	333	5.40	103.5	104.6	103.8	106.8	105.8	106.3	106.6	106.3	107.0
Computer and electronic products	334	4.96	116.5	119.8	119.8	120.9	121.3	119.9	119.5	119.9	120.8
Electrical equip., appliances,											
and components	335	1.85	102.3	101.7	100.0	103.3	101.6	102.7	102.0	101.9	101.8
Motor vehicles and parts	3361-3	4.89	87.5	92.0	87.4	93.9	90.8	85.3	94.6	96.2	94.9
Aerospace and miscellaneous		1									
transportation equipment									96.4	06.1	95.2
	3364–9	4.76	91.9	90.3	94.4	98.4	96.3	95.6		96.1	
Furniture and related products	337	1.23	89.2	91.4	91.3	91.0	91.7	93.2	93.2	93.7	94.2
Furniture and related products Miscellaneous											
Miscellaneous	337	1.23 2.82	89.2 101.1	91.4 101.9	91.3 102.2	91.0 104.0	91.7 104.2	93.2 104.3	93.2 102.9	93.7 104.2	94.2 101.4
Miscellaneous Nondurable manufacturing	337 339	1.23 2.82 35.75	89.2 101.1 97.5	91.4 101.9 98.5	91.3 102.2 98.4	91.0 104.0 98.6	91.7 104.2 98.1	93.2 104.3 97.8	93.2 102.9 99.2	93.7 104.2 99.9	94.2 101.4 99.7
Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products	337 339 311,2	1.23 2.82 35.75 12.42	89.2 101.1	91.4 101.9 98.5 99.9	91.3 102.2	91.0 104.0	91.7 104.2 98.1 98.6	93.2 104.3	93.2 102.9	93.7 104.2 99.9 100.3	94.2 101.4
Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills	337 339 311,2 313,4	1.23 2.82 35.75	89.2 101.1 97.5 100.3 94.3	91.4 101.9 98.5	91.3 102.2 98.4 99.3	91.0 104.0 98.6 99.8 92.9	91.7 104.2 98.1 98.6 91.0	93.2 104.3 97.8 98.8 93.4	93.2 102.9 99.2 99.7	93.7 104.2 99.9	94.2 101.4 99.7 100.6
Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather	337 339 311,2	1.23 2.82 35.75 12.42 .63 .22	89.2 101.1 97.5 100.3 94.3 97.7	91.4 101.9 98.5 99.9 93.1	91.3 102.2 98.4 99.3 92.3 99.8	91.0 104.0 98.6 99.8 92.9 100.0	91.7 104.2 98.1 98.6	93.2 104.3 97.8 98.8	93.2 102.9 99.2 99.7 92.8 100.8	93.7 104.2 99.9 100.3 94.3	94.2 101.4 99.7 100.6 94.4 98.0
Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper	337 339 311,2 313,4 315,6	1.23 2.82 35.75 12.42 .63	89.2 101.1 97.5 100.3 94.3	91.4 101.9 98.5 99.9 93.1 100.6	91.3 102.2 98.4 99.3 92.3	91.0 104.0 98.6 99.8 92.9	91.7 104.2 98.1 98.6 91.0 101.1	93.2 104.3 97.8 98.8 93.4 101.7	93.2 102.9 99.2 99.7 92.8	93.7 104.2 99.9 100.3 94.3 99.5	94.2 101.4 99.7 100.6 94.4
Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather	337 339 311,2 313,4 315,6 322	1.23 2.82 35.75 12.42 .63 .22 2.40	89.2 101.1 97.5 100.3 94.3 97.7 95.5	91.4 101.9 98.5 99.9 93.1 100.6 95.8	91.3 102.2 98.4 99.3 92.3 99.8 93.8	91.0 104.0 98.6 99.8 92.9 100.0 94.8	91.7 104.2 98.1 98.6 91.0 101.1 95.3	93.2 104.3 97.8 98.8 93.4 101.7 95.3	93.2 102.9 99.2 99.7 92.8 100.8 95.3	93.7 104.2 99.9 100.3 94.3 99.5 96.5	94.2 101.4 99.7 100.6 94.4 98.0 95.3
Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support	337 339 311,2 313,4 315,6 322 323	1.23 2.82 35.75 12.42 .63 .22 2.40 1.34	89.2 101.1 97.5 100.3 94.3 97.7 95.5 88.2	91.4 101.9 98.5 99.9 93.1 100.6 95.8 90.6	91.3 102.2 98.4 99.3 92.3 99.8 93.8 93.8 92.1	91.0 104.0 98.6 99.8 92.9 100.0 94.8 92.1	91.7 104.2 98.1 98.6 91.0 101.1 95.3 91.7	93.2 104.3 97.8 98.8 93.4 101.7 95.3 94.0	93.2 102.9 99.2 99.7 92.8 100.8 95.3 95.2	93.7 104.2 99.9 100.3 94.3 99.5 96.5 94.9	94.2 101.4 99.7 100.6 94.4 98.0 95.3 93.1
Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products	337 339 311,2 313,4 315,6 322 323 324	1.23 2.82 35.75 12.42 .63 .22 2.40 1.34 3.34	89.2 101.1 97.5 100.3 94.3 97.7 95.5 88.2 95.9	91.4 101.9 98.5 99.9 93.1 100.6 95.8 90.6 96.1	91.3 102.2 98.4 99.3 92.3 99.8 93.8 92.1 95.6	91.0 104.0 98.6 99.8 92.9 100.0 94.8 92.1 95.5	91.7 104.2 98.1 98.6 91.0 101.1 95.3 91.7 94.4	93.2 104.3 97.8 98.8 93.4 101.7 95.3 94.0 94.3	93.2 102.9 99.2 99.7 92.8 100.8 95.3 95.2 95.6	93.7 104.2 99.9 100.3 94.3 99.5 96.5 94.9 96.6	94.2 101.4 99.7 100.6 94.4 98.0 95.3 93.1 95.1
Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals	337 339 311,2 313,4 315,6 322 323 324 325	1.23 2.82 35.75 12.42 .63 .22 2.40 1.34 3.34 11.85	89.2 101.1 97.5 100.3 94.3 97.7 95.5 88.2 95.9 97.4	91.4 101.9 98.5 99.9 93.1 100.6 95.8 90.6 96.1 100.0	91.3 102.2 98.4 99.3 92.3 99.8 93.8 92.1 95.6 100.4	91.0 104.0 98.6 99.8 92.9 100.0 94.8 92.1 95.5 100.2	91.7 104.2 98.1 98.6 91.0 101.1 95.3 91.7 94.4 100.0	93.2 104.3 97.8 98.8 93.4 101.7 95.3 94.0 94.3 98.4	93.2 102.9 99.2 99.7 92.8 100.8 95.3 95.2 95.6 100.7	93.7 104.2 99.9 100.3 94.3 99.5 96.5 94.9 96.6 101.4	94.2 101.4 99.7 100.6 94.4 98.0 95.3 93.1 95.1 102.1
Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products Other manufacturing (non-NAICS)	337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111	1.23 2.82 35.75 12.42 .63 .22 2.40 1.34 3.34 11.85 3.53 2.01	89.2 101.1 97.5 100.3 94.3 97.7 95.5 88.2 95.9 97.4 95.3 78.6	91.4 101.9 98.5 99.9 93.1 100.6 95.8 90.6 96.1 100.0 95.9 75.1	91.3 102.2 98.4 99.3 92.3 99.8 93.8 92.1 95.6 100.4 96.7 73.1	91.0 104.0 98.6 99.8 92.9 100.0 94.8 92.1 95.5 100.2 98.2 73.4	91.7 104.2 98.1 98.6 91.0 101.1 95.3 91.7 94.4 100.0 98.8 76.0	93.2 104.3 97.8 98.8 93.4 101.7 95.3 94.0 94.3 98.4 99.4 77.5	93.2 102.9 99.2 99.7 92.8 100.8 95.3 95.2 95.6 100.7 100.1 78.5	93.7 104.2 99.9 100.3 94.3 99.5 96.5 94.9 96.6 101.4 101.4 77.0	94.2 101.4 99.7 100.6 94.4 98.0 95.3 93.1 95.1 102.1 99.6 76.4
Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products	337 339 311.2 313.4 315.6 322 323 324 325 326	1.23 2.82 35.75 12.42 .63 .22 2.40 1.34 3.34 11.85 3.53	89.2 101.1 97.5 100.3 94.3 97.7 95.5 88.2 95.9 97.4 95.3	91.4 101.9 98.5 99.9 93.1 100.6 95.8 90.6 96.1 100.0 95.9	91.3 102.2 98.4 99.3 92.3 99.8 93.8 92.1 95.6 100.4 96.7	91.0 104.0 98.6 99.8 92.9 100.0 94.8 92.1 95.5 100.2 98.2	91.7 104.2 98.1 98.6 91.0 101.1 95.3 91.7 94.4 100.0 98.8	93.2 104.3 97.8 98.8 93.4 101.7 95.3 94.0 94.3 98.4 99.4	93.2 102.9 99.2 99.7 92.8 100.8 95.3 95.2 95.6 100.7 100.1	93.7 104.2 99.9 100.3 94.3 99.5 96.5 94.9 96.6 101.4 101.4	94.2 101.4 99.7 100.6 94.4 98.0 95.3 93.1 95.1 102.1 99.6
Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products Other manufacturing (non-NAICS) Mining	337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111 21	1.23 2.82 35.75 12.42 .63 .22 2.40 1.34 3.34 11.85 3.53 2.01 12.17	89.2 101.1 97.5 100.3 94.3 97.7 95.5 88.2 95.9 97.4 95.3 78.6 104.9	91.4 101.9 98.5 99.9 93.1 100.6 95.8 90.6 96.1 100.0 95.9 75.1 106.7	91.3 102.2 98.4 99.3 92.3 99.8 93.8 92.1 95.6 100.4 96.7 73.1 106.8	91.0 104.0 98.6 99.8 92.9 100.0 94.8 92.1 95.5 100.2 98.2 73.4 106.9	91.7 104.2 98.1 98.6 91.0 101.1 95.3 91.7 94.4 100.0 98.8 76.0 106.6	93.2 104.3 97.8 98.8 93.4 101.7 95.3 94.0 94.3 98.4 99.4 77.5 104.3	93.2 102.9 99.2 99.7 92.8 100.8 95.3 95.2 95.6 100.7 100.1 78.5 108.7	93.7 104.2 99.9 100.3 94.3 99.5 96.5 94.9 96.6 101.4 101.4 101.4 77.0	94.2 101.4 99.7 100.6 94.4 98.0 95.3 93.1 95.1 102.1 99.6 76.4 111.5

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

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

2020 2021 Oct.r Dec.^p Item proportion Apr. May June July Aug." Sept.r Nov.¹ **Total industry** 100.00 99.2 99.9 100.5 101.2 101.0 100.0 101.3 102.0 101.9 102.6 103.0 106.0 104 9 105 5 103.1 103.9 104.8 104.9 Energy 24 65 Consumer products 5.50 100.0 100.3 102.4 100.7 101.7 100.7 95.5 98.8 95.8 Commercial products 2.69 98.8 98.7 101.3 100.8 101.8 101.6 100.2 101.0 100.9 80.7 99.5 Oil and gas well drilling 213111 .50 84.2 85.8 91.1 92.1 91.0 100.2 103.9 104.0 Converted fuel 5.11 103.4 101.0 110.2 106.1 108.1102.2 104.9 104.3 104.9 Primary energy 10.84 106.5 107.4 107.4107.0 104.9 108.5 108.2 109.9 75.35 97.8 98.6 98.3 99.6 99.2 98.7 100.0 100.7 100.6 Non-energy Selected high-technology industries 2.17 134.8 1364 135.2 134.0 1337 134.2 133.8 134.6 135.0 3341 176.9 176.1 176.6 169.8 172.0174 1 175 5 181.2 184 4 Computers and peripheral equipment 28 Communications equipment 3342 .60 155.0 153.7 153.9 150.9 149.0 147.6 144.9 144.6 144.6 Semiconductors and related electronic components 3344 1.29 121.6 124.8 122.8 123.1 123.0 124.1 124.2 124.7 124.8 Excluding selected high-technology industries 73.18 96.8 97.5 97.3 98.6 98.2 97.7 99.1 99.8 99.6 Motor vehicles and parts 3361-3 4.89 87.5 92.0 87.4 93.9 90.8 85.3 94.6 96.2 94.9 93.3 90.6 92.2 95.1 92.5 Motor vehicles 3361 2.4684.5 84.187.3 78.2 3363 89.5 951 Motor vehicle parts 2.00 92.3 89.8 92.4 917 88.7 93 5 94 2 Excluding motor vehicles and parts 68.29 97.5 98.0 98.0 99.0 98.8 98.6 99.4 100.1 100.0 20.00 99.7 99.6 99.9 100.3 100.5 101.2 101.0 Consumer goods 99.9 100.47 7 9 89.8 90.7 90.9 92.9 933 92.4 Business equipment 933 92.4 92.2 Construction supplies 4.96 100.0 99.1 97.9 99.2 99.5 101.1 101.7 103.8 104.1 Business supplies 7.58 92.3 92.9 92.2 93.3 93.6 93.7 94.5 94.9 94.1 96.9 97.9 98.4 98.3 97.2 98.7 99.4 99.5 Materials 25.14 98.1 Measures excluding selected high-technology industries Total industry 97.83 98.5 99.2 99.7 100.5 100.3 99.3 100.6 101.3 101.2 Manufacturing 73 72 96.6 97.4 97.2 98.6 98.0 97 5 98.9 99.5 99.2 Durable 36.12 96.6 97.5 97.4 100.0 99.1 98.4 99.9 100.5 100.1 Measures excluding motor vehicles and parts 99.9 100.4 101.2 101.6 101.6 100.8 101.6 102.3 102.3 Total industry 95 11 Manufacturing 71.00 98.3 98.8 99.0 100.0 99.6 99.5 100.3 100.8 100.6 Durable 33.41 100.4 100.7 101.3 103.1 102.6 102.7 102.9 103.3 103.1 Measures excluding selected high-technology industries and motor vehicles and parts 92.93 99.1 99.6 100.4 100.8 100.8 100.1 100.9 101.6 101.5 Total industry Manufacturing 68.83 97.2 97.8 97.9 98.9 98.5 98.4 99.3 99.8 99.6 Stage-of-process components of non-energy materials, measures of the input to Finished processors 9.29 96.4 98.2 97.4 99.5 98.5 98.0 99.4 99.5 993 Primary and semifinished processors 18.15 98.0 98.3 98.2 96.6 98.6 99.6 99.9 97.1 97.9

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

Table 6 Diffusion Indexes of Industrial Production

Percent												
Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2019	43.6	42.2	48.6	43.2	55.4	52.0	42.9	57.4	43.6	35.1	57.8	53.0
2020	59.8	56.1	25.3	11.8	57.8	72.6	73.6	65.9	60.5	69.3	62.3	60.0
2021	65.9	33.8	76.4	49.8	56.1	51.5	56.1	49.7	48.3	60.8	55.7	
Three months earlier												
2019	39.9	32.8	41.6	38.9	45.6	49.0	46.3	47.0	41.6	44.6	41.9	45.9
2020	63.9	57.4	33.1	13.2	13.2	29.1	75.3	83.1	80.4	74.7	68.6	69.3
2021	70.6	50.0	62.5	54.4	68.2	49.0	59.1	52.0	51.0	56.8	61.8	
Six months earlier												
2019	40.2	34.5	34.1	30.1	40.5	41.6	36.8	45.6	43.6	39.9	42.9	45.3
2020	55.1	53.7	34.8	15.5	17.2	23.3	30.7	33.8	46.3	83.1	87.2	82.4
2021	77.0	61.8	71.6	65.2	63.2	62.5	56.4	68.9	49.7	57.4	59.5	

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

			1972-	1994-										
Item		2020	2020	95	2009	2021			2021					
		proportion	ave.	high	low	Q2	Q3 ^r	Q4 ^p	July ^r	Aug. ^r	Sept. ^r	Oct.r	Nov. ^r	Dec
Total industry		100.00	79.6	85.1	66.6	75.2	75.8	76.4	76.2	76.0	75.2	76.1	76.6	76
Manufacturing ¹		77.93	78.2	84.7	63.5	75.4	76.1	77.0	76.6	76.1	75.7	76.8	77.2	77.
Manufacturing (NAICS)	31-33	75.66	78.1	84.8	63.4	75.8	76.4	77.2	77.0	76.4	76.0	77.0	77.5	77.
Durable manufacturing		40.62	76.8	83.8	58.3	74.2	75.5	76.1	76.1	75.4	74.9	75.9	76.3	76.
Wood products	321	1.49	76.7	86.5	48.0	79.7	79.1	80.3	79.4	78.6	79.2	79.5	80.3	81
Nonmetallic mineral products	327	2.42	73.4	82.5	44.5	70.5	71.5	72.9	71.3	71.5	71.7	71.0	73.2	74
Primary metals	331	2.61	77.7	94.4	49.6	70.4	71.5	72.3	72.0	71.6	70.9	72.3	72.4	72
Fabricated metal products	332	5.94	77.6	84.7	62.2	76.2	76.9	78.0	76.5	76.8	77.4	77.9	78.6	77
Machinery	333	5.52	77.6	87.4	59.0	80.3	82.2	82.7	82.6	81.9	82.3	82.6	82.4	83
Computer and electronic products Electrical equip., appliances,	334	5.29	77.4	84.5	70.2	76.7	77.1	75.6	77.5	77.5	76.2	75.6	75.5	75
and components	335	1.89	81.6	92.7	66.9	78.2	79.4	79.2	79.9	78.7	79.7	79.2	79.2	79
Motor vehicles and parts	3361-3	5.80	75.1	87.7	33.1	65.4	66.2	70.1	69.1	66.8	62.7	69.6	70.8	69
Aerospace and miscellaneous	2201 2		, 5.1	0/./	22.1	00.1	00.2	, , , 1	0,11	00.0	02.7	07.0	, 0.0	0)
transportation equipment	3364-9	5.67	74.2	71.3	72.4	69.3	72.9	72.3	74.0	72.5	72.0	72.6	72.4	71
Furniture and related products	337	1.17	77.1	82.7	56.2	80.0	81.2	82.8	80.3	81.0	82.3	82.3	82.8	83
Miscellaneous	339	2.83	76.7	81.0	68.2	79.5	80.6	78.8	80.7	80.6	80.4	79.1	79.8	77
Nondurable manufacturing		35.04	79.9	86.1	68.8	77.6	77.6	78.5	77.9	77.5	77.2	78.2	78.8	78
Food, beverage, and tobacco products	311,2	12.20	80.3	85.3	75.3	76.1	75.2	75.8	75.9	74.9	75.0	75.6	75.9	76
Textile and product mills	313,4	.73	78.3	91.7	54.3	68.1	67.6	68.7	67.9	66.6	68.3	67.9	69.1	69
Apparel and leather	315,6	.24	76.2	87.8	59.5	78.7	80.4	79.7	79.5	80.5	81.2	80.6	79.8	78
Paper	322	2.14	86.7	92.6	72.7	83.9	83.7	84.0	83.5	83.9	83.8	83.7	84.7	83
Printing and support	323	1.43	79.4	85.4	58.7	73.6	75.6	77.1	75.2	74.9	76.8	77.8	77.5	76
Petroleum and coal products	324	3.08	84.7	91.2	76.1	77.9	76.8	77.4	77.5	76.5	76.3	77.3	78.1	76
Chemicals	325	11.91	76.6	82.1	64.8	77.8	78.3	80.0	78.7	78.6	77.5	79.3	80.0	80
Plastics and rubber products	326	3.32	82.0	93.2	57.1	80.7	82.6	83.4	82.3	82.6	83.0	83.4	84.3	82
Other manufacturing (non-NAICS)	1133,5111	2.27	79.5	83.2	65.4	64.5	65.5	67.9	63.3	65.8	67.5	68.7	67.7	67
Mining	21	10.52	86.2	88.3	78.3	75.1	75.1	77.9	75.8	75.6	74.0	77.2	77.5	79.
Utilities	2211,2	11.54	85.0	93.2	78.0	74.0	74.6	71.4	74.0	76.0	73.7	71.0	72.2	71.
Selected high-technology industries		2.28	77.4	86.4	71.6	80.4	77.7	76.2	78.3	77.6	77.2	76.4	76.2	75
Computers and peripheral equipment	3341	.29	78.0	87.5	84.3	85.7	83.2	86.8	82.3	83.2	84.1	84.6	87.2	88
Communications equipment	3342	.71	75.5	86.2	76.6	68.2	65.3	62.6	66.3	65.2	64.3	63.0	62.6	62
Semiconductors and related														
electronic components	3344	1.28	78.9	92.0	63.5	85.9	83.2	81.1	84.0	83.0	82.6	81.8	81.1	80
Measures excluding selected high-technology industries														
Total industry		97.72	79.7	85.0	66.3	75.1	75.7	76.4	76.1	75.9	75.1	76.0	76.6	76
Manufacturing ¹		75.65	78.2	84.6	63.0	75.3	76.1	77.0	76.5	76.0	75.7	76.7	77.2	77
STAGE-OF-PROCESS GROUPS														
Crude		13.84	85.4	89.7	76.5	76.7	76.3	78.7	77.5	77.0	74.6	78.0	78.4	79
Primary and semifinished		45.82	80.2	89.7	63.5	74.7	76.5	75.3	75.1	75.4	74.0	75.0	75.7	79
Finished		40.34	76.8	87.9	66.5	75.4	76.5	76.9	77.0	76.4	74.9	76.8	77.1	76.
1 IIIISIICU		40.34	/0.0	00.7	00.5	15.4	70.5	10.7	1 11.0	/0.4	/0.0	/0.8	//.1	70

Table 7 CAPACITY UTILIZATION Percent of capacity, seasonally adjusted

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

Table 8 INDUSTRIAL CAPACITY Percent change

		Average a	nnual rate		Fourth	quarter to	o fourth c	uarter		Annual	rate		Monthly rate
Item	1972- 79	1980- 88	1989- 94	1995-	2019	2010	2020	2021	2021	02	02	04	2021 Dec
	/9	88	94	2021	2018	2019	2020	2021	Q1	Q2	Q3	Q4	Dec.
Total industry	3.1	1.9	2.3	1.7	.5	1.4	1	.4	.0	.3	.5	.7	.1
Manufacturing ¹	3.2	2.2	2.6	1.6	.1	.2	7	.1	3	.0	.3	.3	.0
Mining	.7	.2	6	1.3	2.9	7.4	.3	-1.1	-2.0	-1.5	7	2	.0
Utilities	4.4	2.2	1.8	1.7	.6	1.7	2.9	2.6	2.7	2.5	2.5	2.5	.2
Selected high-technology industries	18.6	16.6	16.1	16.6	6.4	10.4	3.1	8.2	5.6	8.0	9.6	9.9	.8
Manufacturing ¹ ex. selected high-technology industries	2.6	1.3	1.6	.5	1	2	8	1	4	2	.0	.1	.0
STAGE-OF-PROCESS GROUPS													
Crude	1.5	.5	4	1.1	1.3	5.2	.1	5	-1.3	8	2	.1	.0
Primary and semifinished	3.0	1.3	2.5	1.8	3	.3	1	.6	.4	.6	.8	.8	.1
Finished	3.9	3.2	2.8	1.5	1.2	.5	4	.1	2	.0	.2	.3	.0

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

Table 9 GROSS VALUE OF FINAL PRODUCTS AND NONINDUSTRIAL SUPPLIES Billions of 2012 dollars at annual rate, seasonally adjusted 2021

Simons of 2012 donars at annual rate, seasona	ing adjusted										
			2021			2021					
Item	2012	2021	Q2	Q3 ^r	Q4 ^p	July ^r	Aug. ^r	Sept. ^r	Oct. ^r	Nov. ^r	Dec. ^p
Final products and nonindustrial supplies	4,006.0	4,043.2	4,003.4	4,045.5	4,081.2	4,081.6	4,046.6	4,008.5	4,059.1	4,107.2	4,077.4
Final products	2,985.7	3,011.5	2,978.2	3,009.4	3,027.9	3,051.7	3,010.5	2,965.9	3,011.4	3,050.3	3,022.0
Consumer goods	2,176.0	2,254.4	2,239.7	2,248.3	2,252.5	2,278.7	2,250.5	2,215.6	2,238.0	2,272.6	2,246.9
Durable	415.6	483.4	465.4	470.1	489.5	495.3	473.6	441.4	484.4	493.9	490.2
Automotive products	269.2	322.2	306.9	310.0	326.7	333.0	313.4	283.5	322.4	331.2	326.6
Other durable goods	146.4	164.5	162.8	164.5	166.0	164.9	164.2	164.4	165.5	165.5	167.0
Nondurable	1,760.4	1,767.1	1,771.7	1,775.3	1,758.3	1,778.5	1,773.7	1,773.6	1,749.2	1,774.0	1,751.8
Equipment, total	809.8	761.2	741.7	765.4	780.4	777.4	764.2	754.5	778.5	782.4	780.3
Business and defense	774.5	741.7	723.5	745.2	757.1	757.5	744.0	734.2	755.9	759.5	756.0
Business	645.7	581.2	567.9	580.6	588.2	591.7	579.7	570.4	586.8	591.0	586.7
Defense and space	128.8	156.9	152.1	160.7	164.7	161.9	160.4	159.7	164.8	164.4	165.0
Nonindustrial supplies	1,020.3	1,032.4	1,025.6	1,036.6	1,053.1	1,031.5	1,036.5	1,041.8	1,047.5	1,056.9	1,055.0
Construction supplies	243.9	269.6	265.3	267.3	277.2	265.4	265.6	270.8	273.1	278.8	279.5
Business supplies	776.4	760.3	758.4	767.4	773.1	764.2	769.2	768.7	772.1	775.1	772.3
Commercial energy products	274.9	288.1	288.2	292.9	293.1	290.8	294.3	293.5	292.4	293.1	293.6

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

			rth quarte											
		fo	urth quar	ter	1	Annual 1	ate			Month	ly rate			Dec. '20
Item	2020				2021			2021						to
	gross value1	2019	2020	2021	Q2	Q3 ^r	Q4 ^p	July ^r	Aug. ^r	Sept. ^r	Oct.r	Nov. ^r	Dec. ^p	Dec. '21
Finished	2,120.7	-1.4	-2.3	2.3	-5.0	5.9	7.8	3.6	-2.0	-1.9	3.3	1.0	3	1.6
Semifinished	1,856.5	-3.0	-2.6	2.9	-3.3	5.8	2.1	.6	.7	5	.2	.7	2	1.8
Primary	1,713.8	-3.7	-8.1	5.0	21.6	8	-1.7	9	1	-1.2	.1	1.1	-1.2	3.5
Crude	874.2	-2.5	-7.9	5.9	33.1	-3.6	12.2	7	6	-3.3	4.5	.8	1.1	6.3

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1. Billions of 2012 dollars.

Seasonally adjusted			_						,					2			
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ¹																	
1999	.4	.6	.2	.2	.6	1	.6	.4	4	1.3	.5	.8	4.6	3.8	3.6	7.3	4.4
2000	1	.4	.4	.6	.3	.1	2	3	.4	4	.0	3	4.1	5.0	4	-1.1	3.8
2001 2002	6	7	2 .8	3 .5	6 .4	6 .8	6 .0	1 1	5 .1	3 3	6 .6	.0 5	-5.1 2.9	-5.0 6.4	-5.5 2.5	-4.3	-3.1
2002	.7	.0	3	6	.4	.0	.0	2	.7	.1	.0	.1	2.5	-3.0	2.8	3.9	1.3
2004	.2	.6	4	.4	.7	8	.7	.1	.1	.9	.2	.7	2.8	2.3	2.3	5.8	2.7
2005	.4	.7	2	.2	.1	.4	3	.4	-1.9	1.2	1.1	.5	5.8	2.2	-1.7	3.6	3.4
2006 2007	.1	.0 1.0	.3 .2	.3 .7	.0 .1	.3 .0	1 1	.4 .2	2 .2	1 3	1 .6	1.0 .0	3.8 4.0	2.4 5.0	1.5 .6	.9 1.2	2.2 2.6
2007	1	4	3	7	6	2	5	-1.6	-4.3	.9	-1.3	-2.8	-1.3	-5.8	-12.4	-16.1	-3.5
2009	-2.5	7	-1.6	8	-1.0	3	1.1	1.1	.8	.3	.4	.3	-20.8	-10.8	6.5	6.4	-11.5
2010	1.1	.3	.7	.4	1.4	.2	.4	.3	.2	2	.0	1.0	8.0	8.2	5.4	1.6	5.5
2011 2012	2	4 .3	1.0 5	3 .8	.2 .2	.3 .0	.5 .2	.6 4	1 1	.6 .3	.0 .5	.5 .2	2.1	1.5 2.6	4.6 1	4.0 2.1	3.1 3.0
2012	.0	.5	.4	1	.1	.1	3	.6	.6	1	.3	.2	2.9	1.9	1.6	2.7	2.0
2014	3	.8	1.0	.1	.4	.3	.3	2	.3	.0	.7	1	2.9	5.4	2.4	2.3	3.0
2015 2016	7 .7	6 5	3 8	6 .3	4 2	3 .4	.7 .2	3 2	3 1	4 .1	7 4	6 .7	-4.2 -2.3	-5.5 -1.6	.0 1.0	-5.5 6	-1.4 -2.2
2010	2	3	0	.9	2	.4	1	2	.0	1.2	4	.7	-2.3	5.9	-1.1	5.4	1.3
2018	.0	.3	.6	1.1	8	.7	.2	.6	.0	1	1	.0	2.2	5.3	3.4	1	3.2
2010	_	-		-	-		-	-		-	_				-	. .	_
2019	5	6	.1 -3.8	6 -13.6	.2 1.9	1 6.2	3 4.1	.6 1.1	4 3	8 1.1	.5 .5	4 1.2	-3.6	-2.3 -42.4	.0	-2.6	8
2020 2021	5 1.1	.2 -3.0	-3.8	-13.6	.7	.5	4.1	2	3	1.1	.3	1	4.0	-42.4 6.5	44.5 3.5	8.2 4.0	-7.2 5.6
2021	1.1	-5.0	2.7	.1	.,	.5	.,	2	-1.0	1.2	. /	1	4.0	0.5	5.5	4.0	5.0
IP (2017=100)																	
2019	103.3	102.7	102.9	102.3	102.5	102.4	102.1	102.7	102.3	101.5	102.0	101.6	103.0	102.4	102.4	101.7	102.3
2020 2021	101.1 99.4	101.3 96.4	97.4 99.2	84.2 99.2	85.8 99.9	91.2 100.5	94.9 101.2	95.9 101.0	95.6 100.0	96.6 101.3	97.2 102.0	98.3 101.9	100.0 98.3	87.1 99.9	95.5 100.7	97.4 101.7	95.0 100.3
Capacity (percent of 2017 output) 2019 2020	131.3	131.5	131.7	131.9	132.1	132.2	132.4	132.5	132.6	132.7	132.7	132.8	131.5	132.1	132.5	132.7	132.2
2020 2021	132.8 132.6	132.8 132.6	132.8 132.7	132.8 132.7	132.8 132.7	132.7 132.8	132.7 132.8	132.7 132.9	132.7 133.0	132.6 133.1	132.6 133.1	132.6 133.2	132.8 132.6	132.8 132.7	132.7 132.9	132.6 133.1	132.7 132.9
2021	152.0	152.0	152.7	152.7	152.7	152.0	152.0	152.9	155.0	155.1	155.1	155.2	152.0	152.7	152.7	100.1	152.9
Utilization																	
(percent)	82.0	00.1	91.0	01.0	82.0	016	01.0	91.0	01.0	82.0	92.1	025	82.0	01.0	016	00.0	91.0
1999 2000	82.0 82.2	82.1 82.2	81.9 82.2	81.8 82.4	82.0 82.4	81.6 82.2	81.8 81.7	81.9 81.3	81.2 81.3	82.0 80.8	82.1 80.5	82.5 80.0	82.0 82.2	81.8 82.3	81.6 81.4	82.2 80.4	81.9 81.6
2000	79.3	78.5	78.1	77.6	76.9	76.3	75.6	75.3	74.8	74.4	73.8	73.7	78.6	76.9	75.3	74.0	76.2
2002	74.0	73.9	74.4	74.7	75.0	75.5	75.5	75.4	75.5	75.3	75.7	75.3	74.1	75.1	75.5	75.4	75.0
2003	75.9	76.1	75.9	75.4	75.4	75.5	75.9	75.8	76.3	76.4	76.9	77.0	76.0	75.4	76.0	76.8	76.0
2004	77.1	77.6	77.3	77.7	78.2	77.6	78.2	78.3	78.4	79.1	79.2	79.8	77.4	77.8	78.3	79.4	78.2
2004	80.0	80.5	80.3	80.4	80.4	80.6	80.2	80.4	78.4	79.1	80.3	80.6	80.3	80.5	78.5	80.2	80.2
2006	80.6	80.5	80.6	80.8	80.6	80.7	80.5	80.7	80.4	80.1	79.9	80.5	80.6	80.7	80.6	80.2	80.5
2007	80.0	80.6	80.5	80.9	80.8	80.7	80.5	80.6	80.7	80.5	80.9	80.9	80.4	80.8	80.6	80.8	80.6
2008	80.9	80.6	80.4	79.9	79.5	79.3	79.0	77.7	74.3	74.9	73.9	71.7	80.6	79.6	77.0	73.5	77.7
2009	69.8	69.3	68.1	67.5	66.8	66.6	67.3	68.1	68.7	69.0	69.4	69.7	69.1	67.0	68.1	69.4	68.4
2010	70.6	71.0	71.7	72.1	73.3	73.6	74.1	74.5	74.7	74.7	74.8	75.6	71.1	73.0	74.4	75.0	73.4
2011	75.5	75.1	75.9	75.6	75.7	75.8	76.2	76.5	76.4	76.7	76.6	76.9	75.5	75.7	76.4	76.7	76.1
2012	77.2	77.3	76.8	77.2	77.2	77.0	77.1	76.6	76.5	76.6	76.8	76.9	77.1	77.1	76.7	76.8	76.9
2013	76.7	77.0	77.2	77.1	77.0	77.1	76.8	77.2	77.5	77.3	77.5	77.6	77.0	77.1	77.1	77.5	77.2
2014	77.3	77.8	78.5	78.5	78.7	78.9	79.0	78.8	78.9	78.9	79.3	79.2	77.8	78.7	78.9	79.1	78.6
2014	78.6	78.0	77.8	77.3	76.9	76.6	77.2	77.0	76.7	76.4	75.8	75.4	78.1	76.9	76.9	75.9	77.0
-010	75.9	75.5	74.9	75.1	74.9	75.2	75.4	75.2	75.1	75.1	74.8	75.3	75.4	75.1	75.2	75.1	75.2
2016			755	76.3	76.5	76.6	76.6	76.3	76.5	77.5	77.8	77.9	75.2	76.5	76.5	77.7	76.5
2016 2017	75.2	74.9	75.5			— • •								m • •	B C E	BC 1	
2016		74.9 78.2	73.3	79.5	78.8	79.4	79.5	79.9	79.8	79.5	79.4	79.2	78.3	79.3	79.7	79.4	79.2
2016 2017 2018	75.2 77.9	78.2	78.7	79.5	78.8												
2016 2017	75.2					79.4 77.4 68.7	79.5 77.1 71.5	79.9 77.5 72.3	79.8 77.2 72.1	79.5 76.5 72.9	79.4 76.8 73.3	79.2 76.5 74.1	78.3 78.3 75.3	79.3 77.5 65.6	79.7 77.2 71.9	79.4 76.6 73.4	79.2 77.4 71.6
2016 2017 2018 2019	75.2 77.9 78.7	78.2 78.1	78.7 78.1	79.5 77.5	78.8 77.6	77.4	77.1	77.5	77.2	76.5	76.8	76.5	78.3	77.5	77.2	76.6	77.4

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

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

Seasonally adjusted														0			
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ²																	
1999	.3	.9	.0	.3	.8	2	.4	.6	4	1.5	.7	.7	5.2	4.3	3.2	8.7	5.1
2000	0.	.3	.6	.6	.0	.2	.1	6	.5	4	3	6	4.5	4.9	4	-2.7	4.1
2001	5	7	2	4	6	6	5	4	4	5	4	.2	-5.9	-5.3	-5.9	-4.0	-3.7
2002 2003	.6	.0 1	.7	.3 8	.5 .0	1.0 .5	1 .3	.1 4	.1	4 .1	.5 .8	6 .0	3.5	5.9 -2.4	3.3 2.5	5 4.4	.4 1.3
2003	.0	1	.1	0	.0	.5	.5	4	.9	.1	.0	.0	2.0	-2.4	2.5	4.4	1.5
2004	1	.7	.0	.3	.7	7	.9	.5	.0	1.0	.0	.7	2.6	3.3	4.0	5.5	3.1
2005	.7	.9	5	.4	.3	.1	3	.6	-1.1	1.4	.9	.1	6.4	2.5	6	6.1	4.1
2006	.8	3	.0	.4	3	.3	3	.7	.1	5	.1	1.5	3.9	.8	1.0	1.5	2.6
2007 2008	4	.3 7	.9 4	.7 -1.0	1 6	.3 7	.0 -1.1	3 -1.2	.3 -3.4	2 7	.5 -2.5	.1 -3.3	4.4	5.8 -8.2	.4 -13.7	1.2 -21.9	2.8 -4.8
2000	2	/		-1.0	0	/	-1.1	-1.2	-5.4	/	-2.5	-5.5	-2.5	-0.2	-13.7	-21.)	-4.0
2009	-3.2	1	-1.9	7	-1.1	2	1.6	1.1	1.0	.1	1.0	2	-24.7	-10.5	8.6	7.1	-13.8
2010	1.1	1	1.3	.8	1.3	.0	.6	.1	.0	.1	.1	.5	6.7	10.5	4.3	1.5	5.9
2011 2012	.1	.2 .3	.6 5	5 .5	.0 4	.1 .3	.6 2	.5 1	.3 2	.5 2	2 .6	.7 .7	2.9 5.3	2 .6	4.4 -1.3	3.8 1.1	2.9 2.6
2012	3	.3	1	3		.1	2	1	2	2	0. 0.	2	2.6	.0	-1.5	1.1	.9
2014	-1.0	.9	.8	0.	.3	.3	.5	6	.0	1	.7	2	-1.0	4.6	1.6	.2	1.1
2015 2016	5 .5	7 3	.3 1	.0 2	0. 0.	4 .2	.8 .2	5 5	3 .2	1 .1	3 1	3 .0	-3.2	7 -1.3	.6 .1	-2.9 .1	6 8
2010	.3	1	3	1.1	1	.0	2	3	.0	1.0	.0	2	.3	3.2	-1.8	3.6	8
2018	4	.9	.1	.6	8	.5	.2	.2	.0	5	4	.2	.5	2.7	1.9	-2.4	1.3
2010	_	-		0		2	4	~	-	~	~	0	1.2	2.5	~	1.0	2.0
2019 2020	7 2	5 .0	1 -4.4	8 -15.8	.1 4.6	.2 7.3	4 4.0	.5 1.6	6 .1	7 1.5	.7	.0 .6	-4.3	-3.5 -44.7	5 55.8	-1.9 11.1	-2.0 -6.6
2020	1.5	-3.7	3.4	-15.8	4.0	2	1.4	6	5	1.5	.0	3	2.8	5.0	4.0	4.9	-0.0
IP (2017=100)																	
2019	100.6	100.0	99.9	99.2	99.2	99.4	99.0	99.5	98.9	98.2	98.9	98.9	100.2	99.3	99.2	98.7	99.3
2020 2021	98.7 98.2	98.7 94.6	94.3 97.8	79.4 97.6	83.1 98.4	89.1 98.2	92.7 99.5	94.1 99.0	94.2 98.5	95.6 99.9	96.2 100.5	96.8 100.2	97.2 96.8	83.8 98.0	93.7 99.0	96.2 100.2	92.7 98.7
Capacity (percent of 2017 output) 2019	130.9	130.9	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	130.9	130.8	130.9	131.0	131.0	130.9	131.0
2020	130.8	130.7	130.6	130.5	130.4	130.4	130.3	130.2	130.1	130.1	130.0	130.0	130.7	130.4	130.2	130.0	130.3
2021	130.0	129.9	129.9	129.9	129.9	130.0	130.0	130.0	130.1	130.1	130.1	130.2	129.9	129.9	130.0	130.1	130.0
Utilization																	
(percent)																	
1999	80.8	81.1	80.7	80.6	80.9	80.3	80.3	80.5	79.8	80.7	80.9	81.1	80.9	80.6	80.2	80.9	80.6
2000	80.8	80.7	80.9	81.0	80.7	80.5	80.3	79.4	79.5	78.9	78.4	77.6	80.8	80.8	79.7	78.3	79.9
2001 2002	76.9	76.1 72.0	75.7 72.4	75.2 72.6	74.5 73.0	73.9 73.7	73.3 73.6	72.9 73.6	72.5 73.7	72.0 73.4	71.6 73.8	71.7 73.4	76.3	74.5 73.1	72.9 73.6	71.8 73.5	73.9 73.1
2002	74.0	73.9	73.9	73.4	73.4	73.7	74.0	73.7	74.3	74.4	75.1	75.1	73.9	73.5	74.0	74.9	74.1
2004	75.0	75.6	75.6	75.9	76.5	76.0	76.6	77.0	76.9	77.6	77.5	78.0	75.4	76.1	76.9	77.7	76.5
2005 2006	78.4 79.4	79.0 79.1	78.5 79.0	78.7 79.1	78.7 78.8	78.7 78.9	78.3 78.5	78.5 78.9	77.5 78.8	78.5 78.2	79.0 78.1	78.9 79.1	78.6 79.2	78.7 78.9	78.1 78.7	78.8 78.5	78.6 78.8
2000	78.5	78.6	79.0	79.1	78.8	79.1	78.9	78.5	78.6	78.4	78.7	79.1	79.2	79.2	78.7	78.6	78.8
2008	78.4	77.9	77.6	76.9	76.5	76.0	75.3	74.5	72.1	71.7	70.0	67.7	78.0	76.5	73.9	69.8	74.5
2000	657	657	64 5	64.0	62.6	() E	CA C	CE A	66.1	66.2	(7.0	(7.0	(5.2	(2.0	65 4	667	65.0
2009 2010	65.7 67.8	65.7 67.8	64.5 68.8	64.2 69.5	63.6 70.5	63.5 70.6	64.6 71.2	65.4 71.4	66.1 71.5	66.2 71.7	67.0 71.9	67.0 72.3	65.3 68.1	63.8 70.2	65.4 71.3	66.7 71.9	65.3 70.4
2010	72.4	72.6	73.1	72.8	72.8	72.9	73.3	73.6	73.8	74.1	73.9	74.4	72.7	72.8	73.6	74.1	73.3
2012	74.9	75.1	74.6	74.9	74.6	74.7	74.4	74.2	74.0	73.8	74.2	74.6	74.9	74.7	74.2	74.2	74.5
2013	74.4	74.6	74.5	74.3	74.5	74.6	74.0	74.6	74.7	74.8	74.8	74.7	74.5	74.5	74.5	74.8	74.6
2014	74.0	74.7	75.4	75.4	75.6	75.9	76.4	76.0	76.0	76.0	76.6	76.5	74.7	75.6	76.1	76.4	75.7
2014 2015	76.2	74.7	76.0	76.1	76.2	75.9	76.6	76.2	76.0	75.9	75.7	75.4	76.0	75.0	76.3	75.7	76.0
2016	75.8	75.5	75.4	75.2	75.1	75.2	75.3	74.9	75.0	75.1	75.1	75.2	75.5	75.2	75.1	75.1	75.2
2017	75.4	75.4	75.3	76.2	76.2	76.3	76.2	76.1	76.2	77.1	77.2	77.0	75.4	76.2	76.2	77.1	76.2
2018	76.8	77.5	77.6	78.1	77.5	77.9	78.0	78.2	78.1	77.7	77.3	77.5	77.3	77.8	78.1	77.5	77.7
2019	76.8	76.4	76.3	75.7	75.7	75.9	75.6	76.0	75.5	75.0	75.6	75.6	76.5	75.8	75.7	75.4	75.8
2019	75.5	75.5	72.2	60.8	63.7	68.3	71.2	72.3	72.4	73.5	74.0	74.4	74.4	64.3	71.9	74.0	71.1
2021	75.6	72.8	75.3	75.1	75.7	75.5	76.6	76.1	75.7	76.8	77.2	77.0	74.5	75.4	76.1	77.0	75.8

Table 12 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing¹ Seasonally adjusted

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

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

Seasonally adjusted																	
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent change) ²																	
1999	.1	.2	1	1	.4	4	.2	.4	5	1.2	.3	.6	.8	.1	.9	5.6	1.2
2000 2001	4 6	.1 6	.1 3	.4 2	.0 5	1 4	5 4	4 1	.3 5	5 4	2 6	5 1	.5 -5.7	1.5 -4.2	-3.2 -4.4	-2.8 -4.5	1.0 -3.9
2001	0	0	3	2	5	4	4	1	.1	4	0	6	2.6	-4.2	2.0	-4.3	.2
2003	.8	1	4	8	2	.0	.3	3	.6	.0	.6	.0	1.5	-4.7	.8	2.6	.2
2004	.1	.5	5	.4	.7	8	.8	.0	.0	.9	.2	.7	1.9	2.1	2.0	5.4	1.7
2005 2006	.3	.6 1	2 .2	.1 .3	.0 1	.4	4 1	.2 .3	-2.2 3	1.1 2	1.1 1	.5 1.0	4.7	1.3 1.8	-2.9 .7	2.4	2.6
2007	5	.9	.0	.6	.1	.1	1	.2	.1	5	.4	1	3.2	4.0	.6	5	1.8
2008	2	5	5	8	7	2	4	-1.6	-4.4	1.2	-1.1	-2.7	-2.5	-6.8	-12.5	-15.0	-4.3
2009 2010	-2.5 1.0	7 .2	-1.7 .6	8 .3	-1.1 1.4	4 .2	1.1 .4	1.2 .3	.8 .2	.2 3	.3 .0	.3 .9	-20.6 6.9	-11.6 7.4	6.4 5.1	6.0 1.0	-11.4 4.9
2010	2	5	1.1	3	.1	.2	.4	.5	1	3	.0	.5	1.6	1.6	4.5	3.9	2.8
2012	.6	.2	5	.7	.1	1	.2	4	1	.3	.5	.2	3.6	2.1	2	1.8	2.8
2013	1	.5	.4	1	.0	.1	3	.6	.6	2	.2	.2	2.9	1.6	1.3	2.5	1.8
2014 2015	3 8	.7 6	1.0 3	.0 6	.4 4	.3 3	.3 .7	2 3	.3 4	.0 4	.7 7	.0 6	2.8 -4.3	5.1 -5.8	2.3	2.3 -5.7	2.8
2015 2016	8	6 5	3 8	0	4 2	3 .4	.7	3	4	4	7	6 .7	-4.3	-3.8 -1.7	.1	-3.7	-1.5
2017	1	4	.8	.9	.1	.2	1	5	.0	1.2	.3	.1	.6	5.7	-1.2	5.1	1.1
2018	0.	.3	.6	1.1	9	.7	.2	.6	.0	1	.0	.0	2.2	5.1	3.2	.1	3.0
2019	6	6	.1	6	.2	1	3	.6	4	8	.5	4	-3.8	-2.5	3	-2.8	9
2020	5	.2	-3.9	-13.9	2.0	6.3	4.1	1.1	4	1.1	.5	1.2	-7.0	-43.2	45.4	7.9	-7.5
2021	1.1	-3.1	2.9	.1	.7	.6	.7	2	-1.0	1.3	.7	1	3.8	6.3	3.6	4.0	5.5
IP (2017=100)	102.1	102 5	102.7	102.0	102.2	102.2	101.0	102.4	102.0	101.2	101 7	101.2	102.0	102.1	102.1	101 4	102.1
2019 2020	103.1	102.5 101.0	102.7 97.0	102.0 83.5	102.2 85.2	102.2 90.6	101.8 94.3	102.4 95.4	102.0 95.0	101.2 96.0	101.7 96.5	101.3 97.7	102.8 99.5	102.1 86.4	102.1 94.9	101.4 96.7	102.1 94.4
2021	98.8	95.7	98.5	98.5	99.2	99.7	100.5	100.3	99.3	100.6	101.3	101.2	97.6	99.1	100.0	101.0	99.6
Capacity (percent of 2017 output)																	
2017 <i>Sulpul)</i> 2019	131.0	131.2	131.3	131.5	131.6	131.8	131.9	132.0	132.1	132.1	132.2	132.2	131.2	131.6	132.0	132.2	131.7
2020	132.2	132.2	132.2	132.2	132.1	132.1	132.1	132.0	132.0	132.0	132.0	131.9	132.2	132.1	132.0	132.0	132.1
2021	131.9	131.9	132.0	132.0	132.0	132.0	132.1	132.1	132.2	132.2	132.3	132.3	131.9	132.0	132.1	132.3	132.1
Utilization (percent)																	
(<i>percent</i>) 1999	82.0	82.0	81.7	81.4	81.6	81.2	81.2	81.4	80.8	81.7	81.8	82.1	81.9	81.4	81.1	81.9	81.6
2000	81.7	81.6	81.6	81.8	81.7	81.5	81.0	80.5	80.7	80.2	80.0	79.5	81.7	81.7	80.7	79.9	81.0
2001	79.0	78.4	78.0	77.8	77.3	76.9	76.4	76.3	75.8	75.5	75.0	74.8	78.5	77.3	76.2	75.1	76.8
2002 2003	75.3 77.3	75.1 77.3	75.7 77.0	76.0 76.5	76.3 76.4	76.9 76.4	76.8 76.7	76.7 76.5	76.8 77.0	76.6 77.0	77.0 77.5	76.6 77.5	75.4 77.2	76.4 76.4	76.8 76.7	76.7 77.3	76.3 76.9
2004	77.6	78.0	77.7	78.1	78.7	78.1	78.7	78.8	78.8	79.6	79.7	80.3	77.8	78.3	78.8	79.9	78.7
2005	80.5	81.0	80.8	80.8	80.8	81.1	80.6	80.8	78.9	79.7	80.5	80.8	80.8	80.9	80.1	80.3	80.5
2006 2007	80.8 79.9	80.6 80.5	80.6 80.5	80.8 80.8	80.6 80.9	80.6 80.9	80.4 80.8	80.6 81.0	80.2 81.1	79.9 80.7	79.7 81.1	80.4 81.1	80.7	80.7	80.4 81.0	80.0 81.0	80.4
2007 2008	81.0	80.5	80.5 80.4	80.8 79.8	80.9 79.3	80.9 79.1	80.8 78.7	81.0 77.4	81.1 73.9	80.7 74.7	81.1 73.7	81.1 71.6	80.3 80.7	80.9 79.4	81.0 76.7	81.0 73.3	80.8 77.5
2009	69.7	69.2	67.9	67.3	66.5	66.3	67.1	67.9	68.5	68.8	69.2	69.6	68.9	66.7	67.8	69.2	68.2
2010	70.4	70.8	71.4	71.8	73.0	73.4	73.8	74.2	74.5	74.4	74.5	75.3	70.9	72.7	74.2	74.8	73.1
2011	75.2	74.9	75.8	75.5	75.6	75.8	76.2	76.5	76.4	76.8	76.7	77.0	75.3	75.6	76.4	76.8	76.0
2012 2013	77.3 76.9	77.4 77.2	76.9 77.5	77.3 77.3	77.3 77.3	77.1 77.3	77.2 77.0	76.8 77.4	76.6 77.8	76.7 77.6	77.0 77.7	77.1 77.8	77.2 77.2	77.3 77.3	76.9 77.4	76.9 77.7	77.1 77.4
2014	77.5	78.0	78.7	78.7	78.9	79.1	79.2	79.0	79.1	79.0	79.5	79.4	78.1	78.9	79.1	79.3	78.8
2015	78.7	78.2	77.9	77.4	77.0	76.7	77.3	77.1	76.8	76.5	76.0	75.5	78.3	77.0	77.1	76.0	77.1
2016	76.0	75.6	75.0	75.3	75.1	75.4	75.5	75.4	75.3	75.3	74.9	75.4	75.6	75.3	75.4	75.2	75.4
2017 2018	75.3 77.9	75.1 78.2	75.7 78.7	76.4 79.5	76.5 78.8	76.7 79.4	76.7 79.5	76.4 79.9	76.5 79.8	77.5 79.6	77.8 79.4	77.9 79.3	75.4 78.3	76.6 79.2	76.5 79.7	77.7 79.4	76.5 79.2
2019	78.7	78.2	78.2	77.6	77.7	77.5	77.2	77.6	77.3	76.6	76.9	76.6	78.4	77.6	77.3	76.7	77.5
2020	76.2	76.4	73.4	63.2	64.5	68.6	71.4	72.2	72.0	72.8	73.1	74.0	75.3	65.4	71.9	73.3	71.5
2021	74.9	72.5	74.6	74.6	75.1	75.5	76.1	75.9	75.1	76.0	76.6	76.5	74.0	75.1	75.7	76.4	75.3

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

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

Seasonally adjusted	0.5												-				
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ³																	
1999	1	.5	4	1	.6	6	.0	.6	5	1.4	.4	.4	.8	.1	.0	6.9	1.3
2000	4	1	.3	.3	4	.0	3	9	.4	6	6	8	.3	.8	-3.8	-4.9	.7
2001	5	7	2	2	5	5	3	4	4	5	3	.1	-6.8	-4.4	-4.5	-4.2	-4.7
2002	.7	2	.7	.3	.5	1.0	2	.0	.0	4	.5	7	3.2	5.6	2.7	-1.1	.4
2003	.7	3	.0	9	2	.3	.1	6	.8	1	.8	1	.8	-4.3	.2	2.8	.0
2004	2	.7	1	.4	.7	7	1.0	.4	1	.9	1	.7	1.5	3.2	3.8	4.9	2.0
2004	.5	.8	6	.3	.2	.1	5	.4	-1.3	1.3	.8	.0	5.1	1.4	-2.0	4.7	3.1
2006	.8	4	.0	.4	4	.2	4	.6	.0	6	.1	1.5	3.2	1	1	.6	1.5
2007	5	.2	.6	.5	.0	.5	1	4	.2	5	.3	.0	3.5	4.5	.3	-1.1	1.8
2008	3	9	6	-1.1	7	7	-1.0	-1.3	-3.5	4	-2.3	-3.2	-4.1	-9.7	-14.0	-20.8	-5.9
2000	2.2	2	2.0	0	1.0	2	1.6	1.1	0	0	1.0	2	24.7	11.6	0.5	(5	12.0
2009 2010	-3.3	2 3	-2.0 1.2	8 .8	-1.2 1.3	3 .0	1.6 .5	1.1 .0	.9 .0	0. 0.	1.0 .0	2 .3	-24.7 5.2	-11.6 9.6	8.5 3.7	6.5 .7	-13.9 5.1
2010	.9	3	.7	6	.0	.0	.6	.0	.0	.0	2	.6	2.3	1	4.2	3.8	2.5
2012	.9	.3	6	.5	4	.2	2	1	3	3	.7	.7	4.9	1	-1.5	.6	2.3
2013	3	.4	1	4	.3	.1	9	.9	.1	.1	.0	2	2.5	4	4	1.3	.5
2014	-1.1	.9	.8	1	.2	.3	.5	7	.0	1	.7	2	-1.4	4.2	1.4	.1	.8
2015 2016	5 .5	8 4	.4 1	1 2	.0 1	4 .2	.9 .2	5 5	3 .1	1 .1	3 1	4 .0	-3.4 5	9 -1.5	.7 2	-3.0 4	7 -1.0
2018	.3	4	1	2	1 1	.2	2	3	.1	1.0	1 .0	3	5	-1.5	-1.9	4	-1.0
2018	4	.9	.1	.6	8	.5	.2	.2	.0	5	4	.2	.4	2.4	1.5	-2.2	1.1
2019	8	6	1	8	.1	.2	5	.5	6	7	.7	.0	-4.6	-3.7	8	-2.2	-2.2
2020	2	.0	-4.6	-16.3	4.8	7.5	4.1	1.6	.0	1.4	.6	.6	-6.1	-45.7	57.5	10.8	-7.0
2021	1.5	-3.8	3.5	3	.8	2	1.5	6	5	1.4	.6	3	2.5	4.8	4.2	5.0	6.3
IP (2017=100)																	
2019	100.3	99.7	99.6	98.8	98.9	99.1	98.6	99.1	98.5	97.7	98.4	98.4	99.9	98.9	98.7	98.2	98.9
2020	98.2	98.1	93.6	78.4	82.2	88.3	91.9	93.4	93.4	94.7	95.3	95.9	96.6	82.9	92.9	95.3	91.9
2021	97.3	93.6	96.8	96.6	97.4	97.2	98.6	98.0	97.5	98.9	99.5	99.2	95.9	97.0	98.0	99.2	97.7
Capacity																	
(percent of																	
2017 output)	130.4	130.4	130.4	130.4	130.4	130.4	130.4	130.3	130.3	130.2	120.1	120.0	130.4	130.4	130.3	120.1	130.3
2019 2020	129.9	129.9	130.4	129.7	129.6	129.5	129.4	129.3	129.2	129.1	130.1 129.1	130.0 129.0	129.9	129.6	129.3	130.1 129.1	130.3
2020	129.0	129.9	129.0	128.9	129.0	129.9	128.9	129.9	129.2	128.9	129.1	129.0	129.0	129.0	128.9	128.9	128.9
Utilization																	
(percent)																	
1999	80.7	80.9	80.3	80.1	80.3	79.7	79.5	79.8	79.2	80.2	80.4	80.6	80.6	80.0	79.5	80.4	80.1
2000 2001	80.1 76.3	79.9 75.8	80.0 75.5	80.2 75.3	79.7 74.8	79.6 74.4	79.2 74.1	78.4 73.8	78.6 73.4	78.1 73.0	77.5 72.8	76.8 72.9	80.0 75.9	79.8 74.8	78.7 73.8	77.5 72.9	79.0 74.3
2001	73.4	73.2	73.7	74.0	74.3	75.1	75.0	75.0	75.1	74.8	75.2	74.7	73.4	74.8	75.0	74.9	74.5
2003	75.3	75.1	75.1	74.5	74.4	74.7	74.8	74.3	75.0	75.0	75.6	75.5	75.2	74.5	74.7	75.4	74.9
2004	75.4	76.0	76.0	76.3	76.9	76.4	77.1	77.5	77.4	78.1	78.1	78.6	75.8	76.5	77.3	78.3	77.0
2005	78.9	79.5	78.9	79.1	79.2	79.1	78.6	78.9	77.7	78.6	79.1	79.0	79.1	79.1	78.4	78.9	78.9
2006 2007	79.5 78.4	79.0 78.4	78.9 78.8	79.0 79.1	78.6 79.0	78.6 79.3	78.2 79.2	78.6 78.9	78.4 79.0	77.9 78.6	77.8 78.8	78.9 78.8	79.2 78.6	78.8 79.2	78.4 79.0	78.2 78.7	78.6 78.9
2007	78.4	78.4	78.8	79.1	79.0	79.5	79.2	73.9	79.0	78.0	69.6	67.5	78.0	79.2	73.4	69.4	78.9
					. 0.0							2710		. 0.0		37.1	
	70.5	77.0															
2009	65.4	65.3	64.1	63.7	63.1	63.0	64.2	65.0	65.7	65.9	66.7	66.7	64.9	63.3	65.0	66.4	64.9
2010	65.4 67.4	65.3 67.4	64.1 68.3	69.0	70.1	70.2	70.7	70.9	71.0	71.2	71.4	71.8	67.7	69.7	70.9	71.5	70.0
2010 2011	65.4 67.4 71.9	65.3 67.4 72.2	64.1 68.3 72.8	69.0 72.5	70.1 72.6	70.2 72.7	70.7 73.2	70.9 73.5	71.0 73.7	71.2 74.1	71.4 73.9	71.8 74.4	67.7 72.3	69.7 72.6	70.9 73.5	71.5 74.1	70.0 73.1
2010 2011 2012	65.4 67.4 71.9 75.0	65.3 67.4 72.2 75.1	64.1 68.3 72.8 74.7	69.0 72.5 75.0	70.1 72.6 74.6	70.2 72.7 74.7	70.7 73.2 74.5	70.9 73.5 74.4	71.0 73.7 74.1	71.2 74.1 73.8	71.4 73.9 74.3	71.8 74.4 74.8	67.7 72.3 74.9	69.7 72.6 74.8	70.9 73.5 74.3	71.5 74.1 74.3	70.0 73.1 74.6
2010 2011	65.4 67.4 71.9	65.3 67.4 72.2	64.1 68.3 72.8	69.0 72.5	70.1 72.6	70.2 72.7	70.7 73.2	70.9 73.5	71.0 73.7	71.2 74.1	71.4 73.9	71.8 74.4	67.7 72.3	69.7 72.6	70.9 73.5	71.5 74.1	70.0 73.1
2010 2011 2012 2013	65.4 67.4 71.9 75.0 74.5	65.3 67.4 72.2 75.1 74.9	64.1 68.3 72.8 74.7 74.8	69.0 72.5 75.0 74.5	70.1 72.6 74.6 74.7	70.2 72.7 74.7 74.8	70.7 73.2 74.5 74.2	70.9 73.5 74.4 74.8	71.0 73.7 74.1 74.9	71.2 74.1 73.8 75.0	71.4 73.9 74.3 75.0	71.8 74.4 74.8 75.0	67.7 72.3 74.9 74.7	69.7 72.6 74.8 74.7	70.9 73.5 74.3 74.7	71.5 74.1 74.3 75.0	70.0 73.1 74.6 74.8
2010 2011 2012	65.4 67.4 71.9 75.0	65.3 67.4 72.2 75.1	64.1 68.3 72.8 74.7	69.0 72.5 75.0	70.1 72.6 74.6	70.2 72.7 74.7	70.7 73.2 74.5	70.9 73.5 74.4	71.0 73.7 74.1	71.2 74.1 73.8	71.4 73.9 74.3	71.8 74.4 74.8	67.7 72.3 74.9	69.7 72.6 74.8	70.9 73.5 74.3	71.5 74.1 74.3	70.0 73.1 74.6
2010 2011 2012 2013 2014	65.4 67.4 71.9 75.0 74.5 74.2	65.3 67.4 72.2 75.1 74.9 74.9	64.1 68.3 72.8 74.7 74.8 75.6	69.0 72.5 75.0 74.5 75.6	70.1 72.6 74.6 74.7 75.8	70.2 72.7 74.7 74.8 76.1	70.7 73.2 74.5 74.2 76.5	70.9 73.5 74.4 74.8 76.1	71.0 73.7 74.1 74.9 76.2	71.2 74.1 73.8 75.0 76.2	71.4 73.9 74.3 75.0 76.8	71.8 74.4 74.8 75.0 76.7	67.7 72.3 74.9 74.7 74.9	69.7 72.6 74.8 74.7 75.8	70.9 73.5 74.3 74.7 76.3	71.5 74.1 74.3 75.0 76.5	70.0 73.1 74.6 74.8 75.9
2010 2011 2012 2013 2014 2015 2016 2017	65.4 67.4 71.9 75.0 74.5 74.2 76.4 76.0 75.6	65.3 67.4 72.2 75.1 74.9 74.9 75.8 75.7 75.6	64.1 68.3 72.8 74.7 74.8 75.6 76.2 75.6 75.4	69.0 72.5 75.0 74.5 75.6 76.2 75.4 76.3	70.1 72.6 74.6 74.7 75.8 76.3 75.3 76.3	70.2 72.7 74.7 74.8 76.1 76.0 75.4 76.4	70.7 73.2 74.5 74.2 76.5 76.7 75.5 76.3	70.9 73.5 74.4 74.8 76.1 76.4 75.1 76.2	71.0 73.7 74.1 74.9 76.2 76.2 75.2 76.2	71.2 74.1 73.8 75.0 76.2 76.1 75.3 77.1	71.4 73.9 74.3 75.0 76.8 75.9 75.3 77.1	71.8 74.4 74.8 75.0 76.7 75.6 75.3 77.0	67.7 72.3 74.9 74.7 74.9 76.1 75.7 75.5	69.7 72.6 74.8 74.7 75.8 76.2 75.4 76.3	70.9 73.5 74.3 74.7 76.3 76.4 75.3 76.2	71.5 74.1 74.3 75.0 76.5 75.9 75.3 77.1	70.0 73.1 74.6 74.8 75.9 76.1 75.4 76.3
2010 2011 2012 2013 2014 2015 2016	65.4 67.4 71.9 75.0 74.5 74.2 76.4 76.0	65.3 67.4 72.2 75.1 74.9 74.9 75.8 75.7	64.1 68.3 72.8 74.7 74.8 75.6 76.2 75.6	69.0 72.5 75.0 74.5 75.6 76.2 75.4	70.1 72.6 74.6 74.7 75.8 76.3 75.3	70.2 72.7 74.7 74.8 76.1 76.0 75.4	70.7 73.2 74.5 74.2 76.5 76.7 75.5	70.9 73.5 74.4 74.8 76.1 76.4 75.1	71.0 73.7 74.1 74.9 76.2 76.2 75.2	71.2 74.1 73.8 75.0 76.2 76.1 75.3	71.4 73.9 74.3 75.0 76.8 75.9 75.3	71.8 74.4 74.8 75.0 76.7 75.6 75.3	67.7 72.3 74.9 74.7 74.9 76.1 75.7	69.7 72.6 74.8 74.7 75.8 76.2 75.4	70.9 73.5 74.3 74.7 76.3 76.4 75.3	71.5 74.1 74.3 75.0 76.5 75.9 75.3	70.0 73.1 74.6 74.8 75.9 76.1 75.4
2010 2011 2012 2013 2014 2015 2016 2017 2018	65.4 67.4 71.9 75.0 74.5 74.2 76.4 76.0 75.6 76.7	65.3 67.4 72.2 75.1 74.9 74.9 75.8 75.7 75.6 77.5	64.1 68.3 72.8 74.7 74.8 75.6 76.2 75.6 75.4 77.6	69.0 72.5 75.0 74.5 75.6 76.2 75.4 76.3 78.1	70.1 72.6 74.6 74.7 75.8 76.3 75.3 76.3 77.4	70.2 72.7 74.7 74.8 76.1 76.0 75.4 76.4 77.8	70.7 73.2 74.5 74.2 76.5 76.7 75.5 76.3 78.0	70.9 73.5 74.4 74.8 76.1 76.4 75.1 76.2 78.1	71.0 73.7 74.1 74.9 76.2 76.2 75.2 76.2 78.1	71.2 74.1 73.8 75.0 76.2 76.1 75.3 77.1 77.7	71.4 73.9 74.3 75.0 76.8 75.9 75.3 77.1 77.4	71.8 74.4 74.8 75.0 76.7 75.6 75.3 77.0 77.5	67.7 72.3 74.9 74.7 74.9 76.1 75.7 75.5 77.3	69.7 72.6 74.8 74.7 75.8 76.2 75.4 76.3 77.8	70.9 73.5 74.3 74.7 76.3 76.4 75.3 76.2 78.0	71.5 74.1 74.3 75.0 76.5 75.9 75.3 77.1 77.5	70.0 73.1 74.6 74.8 75.9 76.1 75.4 76.3 77.7
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	65.4 67.4 71.9 75.0 74.5 74.2 76.4 76.0 75.6 76.7 76.9	65.3 67.4 72.2 75.1 74.9 74.9 75.8 75.7 75.6 77.5 76.4	64.1 68.3 72.8 74.7 74.8 75.6 75.6 75.6 75.6 75.4 77.6 76.4	69.0 72.5 75.0 74.5 75.6 76.2 75.4 76.3 78.1 75.8	70.1 72.6 74.6 74.7 75.8 76.3 75.3 76.3 77.4 75.8	70.2 72.7 74.7 74.8 76.1 76.0 75.4 76.4 77.8 76.0	70.7 73.2 74.5 74.2 76.5 76.7 75.5 76.3 78.0 75.6	70.9 73.5 74.4 74.8 76.1 76.4 75.1 76.2 78.1 76.0	71.0 73.7 74.1 74.9 76.2 76.2 75.2 76.2 78.1 75.6	71.2 74.1 73.8 75.0 76.2 76.1 75.3 77.1 77.7 75.1	71.4 73.9 74.3 75.0 76.8 75.9 75.3 77.1 77.4 75.6	71.8 74.4 74.8 75.0 76.7 75.6 75.3 77.0 77.5 75.6	67.7 72.3 74.9 74.7 74.9 76.1 75.7 75.5 77.3 76.6	69.7 72.6 74.8 74.7 75.8 76.2 75.4 76.3 77.8 75.8	70.9 73.5 74.3 74.7 76.3 76.4 75.3 76.2 78.0 75.7	71.5 74.1 74.3 75.0 76.5 75.9 75.3 77.1 77.5 75.4	70.0 73.1 74.6 74.8 75.9 76.1 75.4 76.3 77.7 75.9
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	65.4 67.4 71.9 75.0 74.5 74.2 76.4 76.0 75.6 76.7 76.9 75.5	65.3 67.4 72.2 75.1 74.9 74.9 75.8 75.7 75.6 77.5 76.4 75.6	64.1 68.3 72.8 74.7 74.8 75.6 76.2 75.6 75.4 77.6 76.4 72.1	69.0 72.5 75.0 74.5 75.6 76.2 75.4 76.3 78.1 75.8 60.4	70.1 72.6 74.6 74.7 75.8 76.3 75.3 76.3 77.4 75.8 63.4	70.2 72.7 74.7 74.8 76.1 76.0 75.4 76.4 77.8 76.0 68.2	70.7 73.2 74.5 74.2 76.5 76.7 75.5 76.3 78.0 75.6 71.0	70.9 73.5 74.4 74.8 76.1 76.4 75.1 76.2 78.1 76.0 72.2	71.0 73.7 74.1 74.9 76.2 76.2 76.2 75.2 76.2 78.1 75.6 72.3	71.2 74.1 73.8 75.0 76.2 76.1 75.3 77.1 77.7 75.1 73.4	71.4 73.9 74.3 75.0 76.8 75.9 75.3 77.1 77.4 75.6 73.8	71.8 74.4 74.8 75.0 76.7 75.6 75.3 77.0 77.5 75.6 74.3	67.7 72.3 74.9 74.7 76.1 75.7 75.5 77.3 76.6 74.4	69.7 72.6 74.8 74.7 75.8 76.2 75.4 76.3 77.8 75.8 64.0	70.9 73.5 74.3 74.7 76.3 76.4 75.3 76.2 78.0 75.7 71.9	71.5 74.1 74.3 75.0 76.5 75.9 75.3 77.1 77.5 75.4 73.8	70.0 73.1 74.6 74.8 75.9 76.1 75.4 76.3 77.7 75.9 71.0
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	65.4 67.4 71.9 75.0 74.5 74.2 76.4 76.0 75.6 76.7 76.9	65.3 67.4 72.2 75.1 74.9 74.9 75.8 75.7 75.6 77.5 76.4	64.1 68.3 72.8 74.7 74.8 75.6 75.6 75.6 75.6 75.4 77.6 76.4	69.0 72.5 75.0 74.5 75.6 76.2 75.4 76.3 78.1 75.8	70.1 72.6 74.6 74.7 75.8 76.3 75.3 76.3 77.4 75.8	70.2 72.7 74.7 74.8 76.1 76.0 75.4 76.4 77.8 76.0	70.7 73.2 74.5 74.2 76.5 76.7 75.5 76.3 78.0 75.6	70.9 73.5 74.4 74.8 76.1 76.4 75.1 76.2 78.1 76.0	71.0 73.7 74.1 74.9 76.2 76.2 76.2 75.2 76.2 78.1 75.6	71.2 74.1 73.8 75.0 76.2 76.1 75.3 77.1 77.7 75.1	71.4 73.9 74.3 75.0 76.8 75.9 75.3 77.1 77.4 75.6	71.8 74.4 74.8 75.0 76.7 75.6 75.3 77.0 77.5 75.6	67.7 72.3 74.9 74.7 74.9 76.1 75.7 75.5 77.3 76.6	69.7 72.6 74.8 74.7 75.8 76.2 75.4 76.3 77.8 75.8	70.9 73.5 74.3 74.7 76.3 76.4 75.3 76.2 78.0 75.7	71.5 74.1 74.3 75.0 76.5 75.9 75.3 77.1 77.5 75.4	70.0 73.1 74.6 74.8 75.9 76.1 75.4 76.3 77.7 75.9

Table 14 HISTORICAL STATISTICS FOR INDUSTRIAL PRODUCTION, CAPACITY, AND UTILIZATION: Manufacturing¹ Excluding Selected High-Technology Industries² Seasonally adjusted

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

Table 15 INDUSTRIAL PRODUCTION: RELIABILITY ESTIMATES Seasonally adjusted

		ualized									_				
		ange	2017=100							Percent change					
	2021		2021						2021						
Item	Q3	Q4	July	Aug.	Sept.	Oct.	Nov.	Dec.	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Total index															
85th percentile	3.67	5.02	101.17	101.06	100.13	101.46	102.38	102.32	.69	11	88	1.41	1.07	.30	
Current estimate	3.45	3.97	101.17	101.00	100.02	101.25	102.00	101.89	.69	16	98	1.23	.74	10	
15th percentile	3.28	3.18	101.17	100.96	99.93	101.09	101.74	101.50	.69	20	-1.05	1.13	.50	45	
Manufacturing (SIC)															
85th percentile	4.26	5.96	99.55	99.03	98.65	100.08	100.81	100.61	1.40	52	36	1.51	.80	01	
Current estimate	3.99	4.86	99.55	98.96	98.51	99.87	100.49	100.20	1.40	59	46	1.39	.62	29	
15th percentile	3.82	3.85	99.55	98.91	98.41	99.68	100.22	99.79	1.40	64	56	1.27	.46	59	
Mining															
85th percentile	27	19.01	106.93	106.66	104.53	109.26	110.42	112.88	.09	25	-1.89	4.75	1.33	2.99	
Current estimate	84	15.59	106.93	106.55	104.27	108.75	109.24	111.47	.09	35	-2.14	4.30	.46	2.04	
15th percentile	-1.32	12.61	106.93	106.40	103.94	108.20	108.16	109.98	.09	49	-2.43	3.93	28	1.11	
Electric and gas utilities															
85th percentile	5.48	-8.70	103.18	106.11	103.13	100.21	103.47	102.00	-2.98	2.84	-2.79	-2.76	3.78	.49	
Current estimate	5.38	-13.69	103.18	106.10	103.08	99.61	101.50	99.96	-2.98	2.83	-2.85	-3.37	1.90	-1.52	
15th percentile	5.23	-15.65	103.18	106.08	102.99	99.36	100.33	98.82	-2.98	2.81	-2.95	-3.58	.54	-3.19	

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

EXPLANATORY NOTE

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

INDUSTRIAL PRODUCTION

Coverage. The industrial production (IP) index measures the real output of the manufacturing, mining, and electric and gas utilities industries; the reference period for the index is 2017. Manufacturing consists of those industries included in the North American Industry Classification System, or NAICS, definition of manufacturing plus those industries-logging and newspaper, periodical, book, and directory publishing-that have traditionally been considered to be manufacturing and included in the industrial sector. For the period since 2012, the total IP index has been constructed from 296 individual series based on the 2017 NAICS codes. These individual series are classified in two ways: (1) market groups, and (2) industry groups. Market groups consist of products and materials. Total products are the aggregate of final products, such as consumer goods and equipment, and nonindustrial supplies (which are inputs to nonindustrial sectors). Materials are inputs in the manufacture of products. Major industry groups include three-digit NAICS industries and aggregates of these industries-for example, durable and nondurable manufacturing, mining, and utilities. A complete description of the market and industry structures, including details regarding series classification, relative importance weights, and data sources, is available on the Board's website at www.federalreserve.gov/releases/G17/About.htm.

Source Data. On a monthly basis, the individual indexes of industrial production are constructed from two main types of source data: (1) output measured in physical units and (2) data on inputs to the production process, from which output is inferred. Data on physical products, such as tons of steel or barrels of oil, are typically obtained from private trade associations and from government agencies; data of this type are used to estimate monthly IP wherever possible and appropriate. Production indexes for a few industries are derived by dividing estimated nominal output (calculated using unit production and unit values or sales) by a corresponding Fisher price index; the most notable of these fall within the high-technology grouping and include semiconductors. When suitable data on physical product are not available, estimates of output are based on production-worker hours by industry. Data on hours worked by production workers are collected in the monthly establishment survey conducted by the Bureau of Labor Statistics. The factors used to convert inputs into estimates of production are based on historical relationships between the inputs and the comprehensive annual data used to benchmark the IP indexes; these factors also may be influenced by technological or cyclical developments. The annual data used in benchmarking the individual IP indexes are constructed from a variety of source data, such as the quinquennial Censuses of Manufactures and Mineral Industries and the Annual Survey of Manufactures, prepared by the Bureau of the Census; the Minerals Yearbook, prepared by the U.S. Geological Survey of the Department of the Interior; and publications of the Department of Energy.

Aggregation Methodology and Weights. The aggregation method for the IP index is a version of the Fisher-ideal index formula. (For a detailed discussion of the aggregation method, see the *Federal Reserve Bulletin* February 1997 and March 2001.) In the IP index, series that measure the output of an individual industry are combined using weights derived from their proportion in the total value-added output of all industries. The IP index, which extends back to 1919, is built as a chain-type index since 1972. The current formula for the growth in monthly IP (or any of the sub-aggregates) since 1972 is the geometric mean of the change in output (*I*), and, as can be seen below, is computed using the unit value added estimate for the current month (p_m) and the estimate for previous month:

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

The IP proportions (typically shown in the first column of the relevant tables in the monthly G.17 release) are estimates of the industries' relative contributions to overall growth in the following year. For example, the relative importance weight of the motor vehicles and parts industry is about 6 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by 6/10 percentage point (0.06 x 10% = 0.6%). To assist users with calculations, the Federal Reserve's website provides supplemental monthly statistics that represent the exact proportionate contribution of a monthly change in a component index to the monthly change in the total index (www.federalreserve.gov/releases/G17/ipdisk/ipweightssa.txt).

Timing. The first estimate of output for a month is published around the 15th of the following month. The estimate is preliminary (denoted by the superscript "p" in tables) and subject to revision in each of the subsequent five months as new source data become available. (Revised estimates are denoted by the superscript "r" in tables.) For the first estimate of output for a given month, about 74 percent of the source data (in value-added terms) are available; the fraction of available source data increases to 83 percent for estimates in the second month that the estimate is published, 93 percent in the third month, 97 percent in the fourth month, 98 percent in the fifth month, and 98 percent in the sixth month. Data availability by data type in 2020 is summarized in the table below:

Availability of Monthly IP Data in Publication Window (Percent of value added in 2020: the numbers may not sum be

(Percent of value added	in 2020; the numbers may not sum because of
rounding.)	

	Mon	th of es	timate			
Type of data	1st	2nd	3rd	4th	5th	6th
Physical product	31	40	50	54	55	55
Production-worker hours	43	43	43	43	43	43
IP data received	74	83	93	97	98	98
IP data estimated	26	17	7	3	2	2

The physical product group includes series based on either monthly or quarterly data. As can be seen in the first row of the table, in the first month, a physical product indicator is available for more than one-half of the series (in terms of value added) that ultimately are based on physical product data (31 percent out of a total of 55 percent). Of the 31 percent, about three-quarters (26 percent of total IP) include series that are derived from weekly physical product data and for which actual monthly data may lag up to several months. On average, quarterly product data are received for the fourth estimate of industrial production. Specifically, quarterly data are available for the third estimate of the last month of a quarter, the fourth estimate of the second month of a quarter, and the fifth estimate of the first month of a quarter.

Seasonal Adjustment. Individual series are seasonally adjusted using Census X-13 ARIMA. For series based on production-worker hours, the current seasonal factors were estimated with data through January 2021; for other series, the factors were estimated with data through at least December 2020. 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

0.29 percent during the 1987–2020 period. The average revision to the *percent change* in total IP, without regard to sign, from the first to the fourth estimates was 0.23 percentage point during the 1987-2020 period. In most cases (about 86 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 68 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 6 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 1972–2020 period, the average total industry utilization rate was 79.6 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 May 28, 2021, is available on the Board's website (www.federal reserve.gov/releases/g17/revisions/Current/DefaultRev.htm). A summary of the annual revision that incorporated back to 1972 production and capacity indexes reclassified according to the North American Industry Classification System is available in an article in the Federal Reserve Bulletin, vol. 89 (April 2003), pp. 151-176. A description of the aggregation methods for industrial production and capacity utilization is included in an article in the Federal Reserve Bulletin, vol. 83 (February 1997), pp. 67–92. The Federal Reserve methodology for constructing industry-level measures of capital is detailed in "Capital Stock Estimates for Manufacturing Industries: Methods and Data" by Mike Mohr and Charles Gilbert (1996), which can be obtained at

www.federalreserve.gov/releases/g17/CapitalStockDocLatest.pdf.

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

www.federalreserve.gov/releases/g17/articles/rev2012/industrial12.pdf, www.federalreserve.gov/releases/g17/articles/rev2013/industrial13.pdf).

Release Schedule

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

2021: January 15, February 17, March 16, April 15, May 14, June 15, July 15, August 17, September 15, October 18, November 16, December 16.

2022: January 14, February 16, March 17, April 15, May 17, June 17, July 15, August 16, September 15, October 18, November 16, December 15

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