# **FEDERAL RESERVE statistical release**



Mar. '20 to

G.17 (419)

For release at 9:15 a.m. (EDT) April 15, 2021

Percent change

2021

### INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

2020

In March, total industrial production increased 1.4 percent. The gain in March followed a drop of 2.6 percent in February, which largely resulted from widespread outages related to severe winter weather in the south central region of the country. For the first quarter as a whole, total industrial production rose 2.5 percent at

(over)

2020

2021

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

Seasonally adjusted

	2020			2021			2020			2021			1viui. 20 to
Industrial production	Oct. <sup>r</sup>	Nov. <sup>r</sup>	Dec.r	Jan. <sup>r</sup>	Feb. <sup>r</sup>	Mar. <sup>p</sup>	Oct.r	Nov. <sup>r</sup>	Dec.r	Jan. <sup>r</sup>	Feb. <sup>r</sup>	Mar. <sup>p</sup>	Mar. '21
Total index	103.9	104.8	105.9	106.9	104.1	105.6	1.1	.9	1.0	.9	-2.6	1.4	1.0
Previous estimates	103.8	104.8	105.8	107.1	104.7	100.0	1.0	.9	1.0	1.1	-2.2		1.0
Major market groups													
Final Products	99.6	100.2	101.4	102.1	100.7	101.3	.8	.6	1.2	.7	-1.4	.6	4.7
Consumer goods	104.5	104.8	106.6	106.6	105.7	105.1	.4	.3	1.7	.0	9	5	5.1
Business equipment	92.2	93.5	93.8	95.6	92.8	95.3	1.3	1.5	.3	1.9	-3.0	2.7	5.7
Nonindustrial supplies	103.7	104.1	105.4	105.8	103.3	105.1	2.3	.4	1.3	.4	-2.3	1.7	.5
Construction	113.9	114.8	116.1	117.2	113.1	118.1	2.5	.8	1.2	.9	-3.5	4.4	2.2
Materials	107.3	108.7	109.6	111.0	106.7	109.1	.9	1.3	.8	1.3	-3.8	2.2	-1.9
Major industry groups													
Manufacturing (see note below)	100.9	101.9	102.6	103.9	100.0	102.8	1.5	.9	.7	1.3	-3.7	2.7	3.1
Previous estimates	100.9	101.9	102.6	103.9	100.7	102.0	1.4	1.0	.7	1.2	-3.1	2.7	3.1
Mining	112.4	116.4	117.0	119.5	112.8	119.2	-1.7	3.6	.5	2.1	-5.6	5.7	-8.8
Utilities	104.2	101.6	105.5	102.1	111.5	98.8	1.5	-2.5	3.8	-3.1	9.2	-11.4	2
Chines	101.2	101.0	103.5	102.1	111.5	70.0	1.5	2.5	5.0	5.1	7.2	11.1	.2
													Capacity
					Perce	nt of cap	acity						growth
	Average	1988-	1990-	1994-									
a	1972-	89	91	. 95	2009	2020	2020			2021		3.5 0	Mar. '20 to
Capacity utilization	2020	high	low	high	low	Mar.	Oct.r	Nov.	Dec. <sup>r</sup>	Jan. <sup>r</sup>	Feb. <sup>r</sup>	Mar. <sup>p</sup>	Mar. '21
Total industry	79.6	85.1	78.8	85.0	66.7	73.6	73.2	73.9	74.7	75.3	73.4	74.4	1
Previous estimates	17.0	05.1	70.0	05.0	00.7	75.0	73.2	73.9	74.6	75.5	73.4	77.7	1
1 revious estimates							73.2	13.7	7 1.0	73.3	73.0		
Manufacturing (see note below)	78.1	85.5	77.3	84.6	63.7	71.4	72.4	73.1	73.7	74.6	71.9	73.8	3
Previous estimates						,	72.4	73.1	73.7	74.6	72.3	,	
Mining	87.0	86.3	84.3	88.6	78.3	87.7	76.7	79.7	80.2	82.1	77.7	82.2	-2.7
Utilities	84.9	93.2	84.7	93.2	78.2	71.1	73.4	71.3	73.9	71.4	77.8	68.8	3.1
Stage-of-process groups													
Crude	86.1	87.8	84.7	90.0	76.4	86.3	78.3	81.0	81.7	83.0	76.2	80.4	-2.1
Primary and semifinished	80.1	86.4	78.1	87.8	63.9	71.3	72.0	71.7	72.7	72.9	72.6	71.9	.2
Finished	76.6	83.3	77.3	80.6	66.5	70.1	72.0	72.9	73.5	74.5	72.6	74.4	.1
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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.

an annual rate. In March, manufacturing production and mining output increased 2.7 percent and 5.7 percent, respectively. The output of utilities dropped 11.4 percent, as the demand for heating fell because of a swing in temperatures from an unseasonably cold February to an unseasonably warm March.

At 105.6 percent of its 2012 average, total industrial production in March was 1.0 percent higher than its year-earlier level, but it was 3.4 percent below its pre-pandemic (February 2020) level. Capacity utilization for the industrial sector increased 1.0 percentage point in March to 74.4 percent, a rate that is 5.2 percentage points below its long-run (1972–2020) average.

## Market Groups

Almost all market groups posted gains in March. The indexes for defense and space equipment, for construction supplies, and for nondurable materials each increased more than 4 percent. In addition, durable consumer goods, non-energy nondurable consumer goods, business equipment, and durable materials all posted gains of between 1½ percent and 3 percent.

The step-down in utilities held back output for other market groups. The index for consumer energy products dropped about 10 percent, while the index for business supplies edged down. The index for energy materials rose 0.7 percent, as gains in crude oil and natural gas extraction offset the loss from utilities.

### **Industry Groups**

Manufacturing output increased 2.7 percent in March, following a decline of 3.7 percent in February. For the first quarter, factory output advanced 1.9 percent at an annual rate. In March, the indexes for durable and nondurable manufacturing increased 3.0 percent and 2.6 percent, respectively, while the index for other manufacturing (publishing and logging) was unchanged. All major categories of durables registered increases, most of which were between 2 percent and 3 percent. The output of motor vehicles and parts rose 2.8 percent in March after falling 10 percent in February. Shortages of semiconductors held down vehicle production in both months, while cold weather also curbed production in February.

Among nondurables, all major industry categories recorded gains except plastics and rubber products. The petroleum and coal products industry and the chemicals industry registered gains of 5.7 percent and 4.1 percent, respectively, after posting declines in February because of severe weather. The recovery in chemicals was incomplete in March, however, as some factories remained offline because of weather-related damage sustained during February. The indexes for all other nondurable goods industries increased between 0.9 percent and 3.0 percent in March.

The drop of 11.4 percent for utilities in March was the largest in the history of this index (since 1972). Mining production increased 5.7 percent; oil and gas extraction accounted for most of the gain.

Capacity utilization for manufacturing increased 1.9 percentage points in March to 73.8 percent. The operating rate for mining increased 4.5 percentage points to 82.2 percent, while the operating rate for utilities decreased 9.0 percentage points to 68.8 percent; both rates remained below their long-run averages.

### **Tables**

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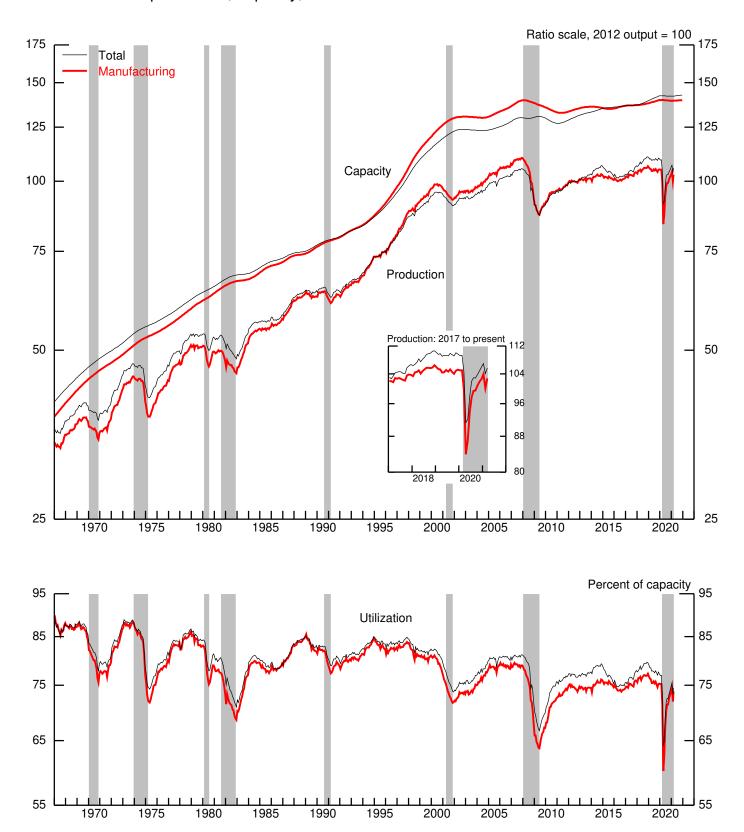
Further detail is available on the Board's website (www.federalreserve.gov/releases/G17/).

### **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 2021. New annual benchmark data for manufacturing for 2017 through 2019 will be incorporated, as well as other annual data, including information on the mining of metallic and nonmetallic minerals (except fuels). The weights for market-group splits of the industry-level indexes will be updated with information from the 2012 benchmark input-output accounts from the U.S. Bureau of Economic Analysis. The updated IP indexes will include revisions to the monthly production 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.

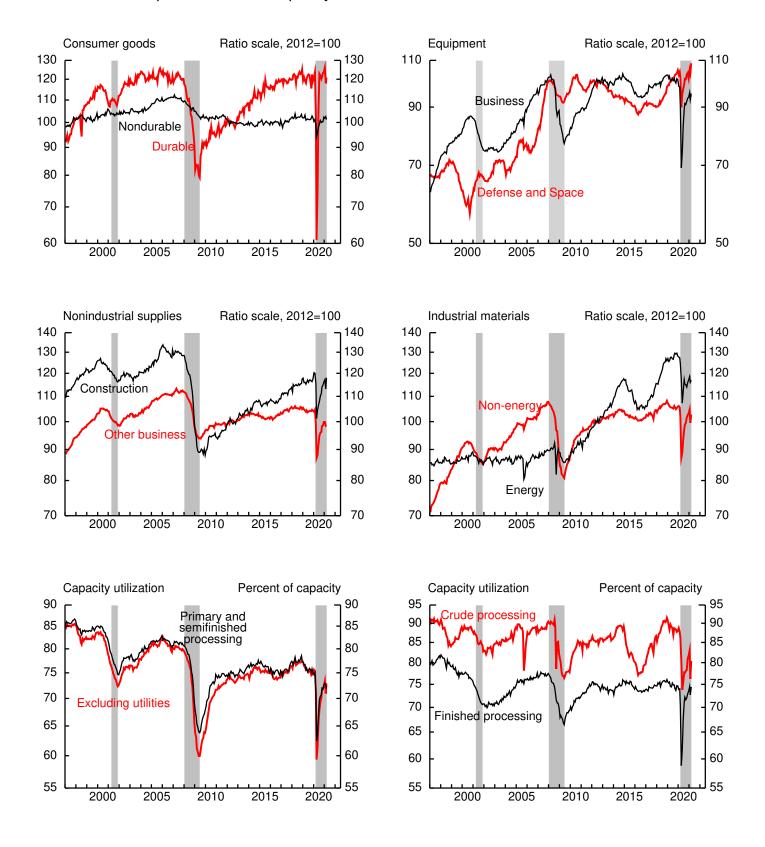
Capacity and capacity utilization will be revised to incorporate data for manufacturing through the fourth quarter of 2020 from the U.S. Census Bureau's Quarterly Survey of Plant Capacity Utilization, along with new data on capacity from the U.S. Geological Survey, the U.S. Department of Energy, and other organizations.

# 1. Industrial production, capacity, and utilization



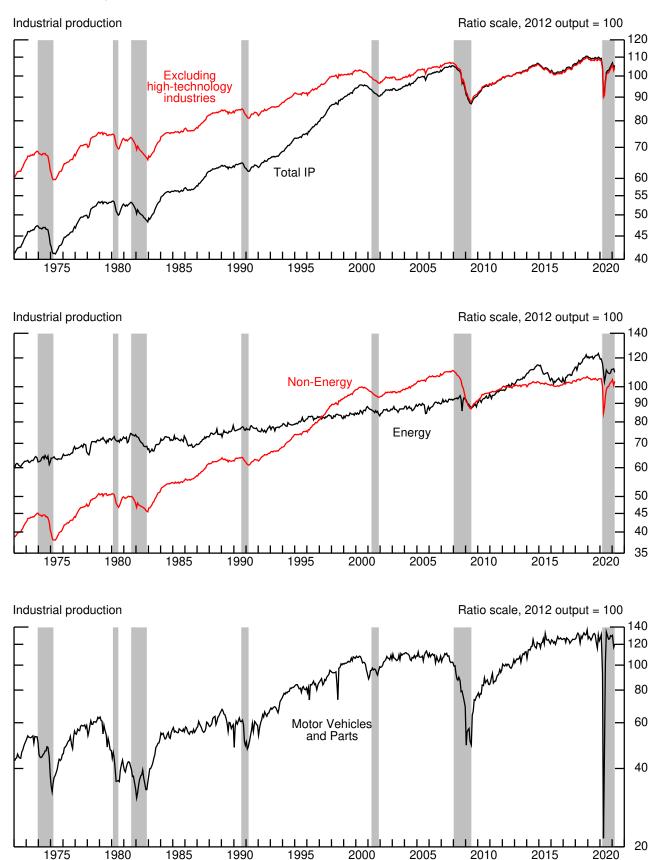
Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

# 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

Total IP	2020 -4.3 -3.0 -3.3 3.1 5.9 2.0 7 -2 -1.2 -2 1.1 -4.41 -3.1 -5.7 -7.7 -18.0 -9 -7.1 -1.1 -1.6 -5.1 -5.7 -2.8 -4.5 -4.5 -4.5 -4.5 -7.7 -2.8 -4.5 -7.7 -7.7 -7.8 -7.7 -7.8 -7.7 -7.8 -7.7 -7.8 -7.7 -7.8 -7.7 -7.8 -7.7 -7.8 -7.7 -7.8 -7.7 -7.8 -7.8	2020 Q3 43.3 54.7 59.5 437.8 2170.2 37.5 78.0 50.9 17.9 19.6 18.5 79.9 15.2 33.7 12.4 105.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	9.5  8.9 3.6 3.5 -6.9 20.2 10.9 19.3 3.7 7.3 8.2 33.2 5.3 5.4 -7.4 12.7 48.3 -8.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 17.1	2021 Q1 <sup>p</sup> 2.5 3.3 1.8 -3.6 -15.5 3.1 16.9 9.7 3.4 5.0 5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 4	2020 Oct. <sup>r</sup> 1.1 1.2 .4 .94 2.3 2.7 2.1 .3 .4 .4 5.1 .0 .0 1.3 4.62 .9 2.0 2.5 2.2 .9 2.1 1.5 .7 .8 2.2	Nov. <sup>r</sup> .9 .6 .3 1.7 3.4 1.3 -2.2 .61 .9 1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .3 .7 .8 .1 1.3 1.0 .7 1.1	Monthl  Dec. r  1.0  1.2 1.7 .48 .5 2.6 1.4 2.1 1.3 1.5 1.5 2.1 .3 -1.61 1.3 -2.3 1.2 1.3 .8 .6 .5 2.3 .0 .2	2021 Jan. F	Feb. <sup>r</sup> -2.6 -1.69 -6.3 -9.4 -1.1 -5.1 -2.1 -7 -1.3 -2.0 -1.7 -1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1 -1.0	Mar. <sup>p</sup> 1.4  .85 2.4 3.0 2.05 2.7 -1.3 1.5 1.4 2.1 1.7 2.7 .1 -10.1 2.7 2.7 2.5 3.3 4.4 4.41 2.2 3.1 2.4 2.0 3.0 2.2 4.2	Mar. '20 to Mar. '21   1.0   3.6   5.1   1.8   4.3   7.2   6.5   1.8   2.3   4.1   7.6   6   -7.2   1.8   6.4   2.2  7   -1.9   8   3.5   17.0   4.4  9   2.7
Total IP	-4.3  -3.0  -3.3  3.1  5.9  2.0  .7  -2  -1.2  2  1.1  -4.4  -1.1  -5.7  -7.7  -18.0  .9  -7.1  -1.1  -5.6  -5.1  -5.7  -2.8  -4.5  2.0  -4.2  -6.7  -2.2	43.3 54.7 59.5 437.8 2170.2 37.5 78.0 50.9 17.9 19.6 18.5 79.9 15.2 33.7 12.4 105.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	9.5 8.9 3.6 3.5 -6.9 20.2 10.9 19.3 3.7 7.3 8.2 33.2 5.4 -7.4 12.7 48.3 -8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 17.1	2.5  3.3 1.8 -3.6 -15.5 3.1 16.9 9.7 3.4 5.0 5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.24 1.47 7.55 12.7	1.1  1.2 .4 .94 2.3 2.7 2.1 .3 .4 .4 5.1 .0 2.0 .0  1.3 4.62 .9 2.0 2.5 2.2 .9 2.1 1.5 .7 .8	.9 .6 .3 1.7 3.4 1.3 -2.2 .61 .9 1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .3 .7 .8 .1 1.3 1.0 .7 1.1 .4	1.0  1.2 1.7 .48 .5 2.6 1.4 2.1 1.3 1.5 1.5 1.5 1.5 1.1 -5.8 5.1  -1.61 1.3 -2.3  1.2 1.3  8 .6 5 2.3 .0	.9 .6 .0 1.8 .8 .7 6.8 1.76 .5 .7 3.64 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0 1.3 1.4 1.8 1.5 2.7	-2.6 -1.69 -6.3 -9.4 .1 -5.1 -7 -1.3 -2.0 -1.7 -1.1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.0 -6.0 -1.1 -1.0	1.4  .8 5  2.4  3.0  2.0 5  2.7  -1.3  1.5  1.4  2.1  1.7  -10.1  2.7  1.7  2.5  3.3  4.4 1  2.2  3.1  2.4  2.0  3.0  2.2	1.0  3.6  5.1  18.4  32.3  8.3  7.2  6.5  1.8  2.3  4.1  7.6  -7.2  .1  5.7  27.9  .2  1.8  6.4  2.2 7  -1.9  .8  3.5  17.0  4.4 9
MARKET GROUPS	-3.03 3.1 5.9 2.0 .72 -1.2 2 1.1 -4.41 -3.1 -5.7 -7.7 -18.0 .9 -7.1 -1.1 -5.1 -5.7 -2.8 -4.5 -2.0 -4.2 -6.7 -2.2	54.7 59.5 437.8 2170.2 37.5 78.0 50.9 17.9 19.6 18.5 79.9 15.2 33.7 12.4 105.7 1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	8.9 3.6 3.5 -6.9 20.2 10.9 19.3 3.7 7.3 8.2 33.2 5.3 5.4 -7.4 12.7 48.3 -8.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 17.1	3.3 1.8 -3.6 -15.5 3.1 16.9 9.7 3.4 5.0 5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 4	1.2 .4 .9 4 2.3 2.7 2.1 .3 .4 .4 5.1 .0 2.0 .0 1.3 4.6 2 .9 2.0 2.0 2.0 2.0 2.0 2.0 3.0 4.0 2.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	.6 .3 1.7 3.4 1.3 -2.2 .6 1 .9 1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .7 .8 .1	1.2 1.7 .4 8 .5 2.6 1.4 2.1 1.3 1.5 1.5 2.1 -5.8 5.1 .3 -1.6 1 1.3 -2.3 1.2 1.3	.6 .0 1.8 .8 7 6.8 1.7 6 .5 .7 3.6 4 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0	-1.69 -6.3 -9.4 -1 -5.1 -7 -1.3 -2.0 -1.7 -1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.0 -6.0 -1.1 -1.0	.85 2.4 3.0 2.05 2.7 -1.3 1.5 1.4 2.1 1.7 -10.1 2.7 2.5 3.3 4.4 4.41 2.2 3.1 2.4 2.0 3.0 2.2	3.6 5.1 18.4 32.3 8.3 7.2 6.5 1.8 2.3 4.1 7.6 6.7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7
Final products and nonindustrial supplies	3 3.1 5.9 2.0 72 -1.2 2 1.1 -4.41 -5.7 -7.7 -18.0 9 -7.1 -1.1 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7 -2.2	59.5 437.8 2170.2 37.5 78.0 50.9 17.9 19.6 18.5 79.9 15.2 33.7 12.4 105.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	3.6 3.5 -6.9 20.2 10.9 19.3 3.7 7.3 8.2 33.2 5.3 5.4 -7.4 12.7 48.3 -8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 17.1	1.8 -3.6 -15.5 3.1 16.9 9.7 3.4 5.0 5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 4 1.4 7 7.5 5 12.7	.4 .9 4 2.3 2.7 2.1 .3 .4 .4 5.1 .0 2.0 .0 1.3 4.6 2 .9 2.0 2.0 2.0 2.0 2.0 1.3 4.6 2 .9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	3 1.7 3.4 1.3 -2.2 .6 1 .9 1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .3 .7	1.7 .4 8 .5 2.6 1.4 2.1 1.3 1.5 2.1 -5.8 5.1 -1.6 1 1.3 -2.3 1.2 1.3	.0 1.8 .8 .7 6.8 1.7 6 .5 .7 3.6 4 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0	9 -6.3 -9.4 -1 -5.1 -5.1 -7 -1.3 -2.0 -1.7 -1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.0 -6.0 -1.1 -1.0	5 2.4 3.0 2.0 5 2.7 -1.3 1.5 1.4 2.1 1.7 -10.1 2.7 1.7 2.5 3.3 4.4 1	5.1 18.4 32.3 8.3 7.2 6.5 1.8 2.3 4.1 7.6 .6 -7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7
Consumer goods	3 3.1 5.9 2.0 72 -1.2 2 1.1 -4.41 -5.7 -7.7 -18.0 9 -7.1 -1.1 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7 -2.2	59.5 437.8 2170.2 37.5 78.0 50.9 17.9 19.6 18.5 79.9 15.2 33.7 12.4 105.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	3.6 3.5 -6.9 20.2 10.9 19.3 3.7 7.3 8.2 33.2 5.3 5.4 -7.4 12.7 48.3 -8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 17.1	1.8 -3.6 -15.5 3.1 16.9 9.7 3.4 5.0 5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 4 1.4 7 7.5 5 12.7	.4 .9 4 2.3 2.7 2.1 .3 .4 .4 5.1 .0 2.0 .0 1.3 4.6 2 .9 2.0 2.0 2.0 2.0 2.0 1.3 4.6 2 .9 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	3 1.7 3.4 1.3 -2.2 .6 1 .9 1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .3 .7	1.7 .4 8 .5 2.6 1.4 2.1 1.3 1.5 2.1 -5.8 5.1 -1.6 1 1.3 -2.3 1.2 1.3	.0 1.8 .8 .7 6.8 1.7 6 .5 .7 3.6 4 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0	9 -6.3 -9.4 -1 -5.1 -5.1 -7 -1.3 -2.0 -1.7 -1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.0 -6.0 -1.1 -1.0	5 2.4 3.0 2.0 5 2.7 -1.3 1.5 1.4 2.1 1.7 -10.1 2.7 1.7 2.5 3.3 4.4 1	5.1 18.4 32.3 8.3 7.2 6.5 1.8 2.3 4.1 7.6 .6 -7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7
Durable	3.1 5.9 2.0 .7 -2 -1.2 .2 1.1 -4.4 -1.1 -5.7 -7.7 -18.0 .9 -7.1 -1.1 -5.1 -5.7 -2.8 -4.5	437.8 2170.2 37.5 78.0 50.9 17.9 19.6 18.5 79.9 15.2 33.7 12.4 105.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	3.5 -6.9 20.2 10.9 19.3 3.7 7.3 8.2 33.2 5.3 5.4 -7.4 12.7 48.3 -8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 17.1	-3.6 -15.5 3.1 16.9 9.7 3.4 5.0 5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 -4 -7 7.5 12.7	.94 2.3 2.7 2.1 .3 .4 4 5.1 .0 2.0 .0 1.3 4.62 .9 2.0 2.5 2.2 .9 2.1 1.5 .7 .8	1.7 3.4 1.3 -2.2 .6 -1 .9 1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .3 .7 .8 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	.48 .5 2.6 1.4 2.1 1.3 1.5 1.5 2.1 -5.8 5.1  -1.61 1.3 -2.3  1.2 1.3  8 .6 5 2.3 .0	1.8 .8 .7 6.8 1.7 .6 .5 .7 3.6 .4 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0 1.3 1.4 1.8 1.7 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	-6.3 -9.4 .1 -5.1 -7 -1.3 -2.0 -1.7 -1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.0 -1.0	2.4 3.0 2.0 5 2.7 -1.3 1.5 1.4 2.1 -10.1 -2.7 1.7 2.5 3.3 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	18.4 32.3 8.3 7.2 6.5 1.8 2.3 4.1 7.6 -7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7
Automotive products	5.9 2.0 .7 2 -1.2 2 1.1 -4.4 1 -5.7 -7.7 -18.0 .9 -7.1 -1.1 -5.1 -5.1 -2.8 -4.5 2.0 -4.2 -6.7 -2.2	2170.2 37.5 78.0 50.9 17.9 19.6 18.5 79.9 15.2 33.7 12.4 105.7 1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	-6.9 20.2 10.9 19.3 3.7 7.3 8.2 33.2 5.3 5.4 -7.4 12.7 48.3 -8.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 17.1	-15.5 3.1 16.9 9.7 3.4 5.0 5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 -4 1.4 -7 7.5 -5 12.7	4 2.3 2.7 2.1 3 .4 .4 5.1 .0 2.0 .0 1.3 4.62 .9 2.0 2.5 2.2 .9 2.1 1.5 .7 .8	3.4 1.3 -2.2 .6 1 .9 1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .3 .7	8 .5 2.6 1.4 2.1 1.3 1.5 1.5 2.1 -5.8 5.1 .3 -1.61 1.3 -2.3 1.2 1.3 .8 .6 .5 2.3 .0	.8 7 6.8 1.7 6 .5 .7 3.6 4 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0	-9.4 .1 -5.1 -2.1 .7 -1.3 -2.0 -1.7 -1.1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.0 -1.1	3.0 2.0 5 2.7 -1.3 1.5 1.4 2.1 1.7 -10.1 2.7 2.5 3.3 4.4 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	32.3 8.3 7.2 6.5 1.8 2.3 4.1 7.6 -7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Home electronics   1.13   5.77   8.4     Appliances, furniture, carpeting   8.84   -1.6   -3.2     Miscellaneous goods   2.08   4.0   -2.4     Nondurable   22.39   1.0   -5     Non-energy   17.24   -1   -2     Foods and tobacco   9.80   -2   1.6     Clothing   1.6   -5.0   -8.6     Chemical products   5.89   1.2   -1.5     Paper products   99   -5.4   -7.9     Energy   5.16   4.7   -1.7     Business equipment   8.82   3.9   -2.0     Transit   1.61   3.6   -8.4     Information processing   2.40   3.6   5.6     Industrial and other   4.81   4.2   -2.2     Defense and space equipment   2.44   6.7   8.4     Construction supplies   5.66   2.5   6     Business supplies   5.66   2.5   6     Business supplies   5.66   2.5   6     Rusiness supplies   5.66	2.0 .7 2 -1.2 2 1.1 -4.4 1 -5.7 -7.7 -18.0 .9 -7.11 -1.1 -5.1 -5.1 -2.8 -4.5 2.0 -4.2 -6.7 -2.2	37.5 78.0 50.9 17.9 19.6 18.5 79.9 15.2 33.7 12.4 105.7 1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	20.2 10.9 19.3 3.7 7.3 8.2 33.2 5.4 -7.4 12.7 48.3 -8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 9.5 17.1	3.1 16.9 9.7 3.4 5.0 5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 4	2.3 2.7 2.1 .3 .4 .4 5.1 .0 2.0 .0 1.3 4.6 2 .9 2.0 2.5 2.2	1.3 -2.2 .6 -1 .9 1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .7 .8 .1	.5 2.6 1.4 2.1 1.3 1.5 1.5 2.1 -5.8 5.1 .3 -1.6 1 1.3 -2.3 1.2 1.3	7 6.8 1.7 6 .5 .7 3.6 4 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0	.1 -5.1 -2.1 .7 -1.3 -2.0 -1.7 -1.1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1	2.0 5 2.7 -1.3 1.5 1.4 2.1 1.7 -10.1 2.7 2.5 3.3 4.4 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	8.3 7.2 6.5 1.8 2.3 4.1 7.6 .6 -7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Appliances, furniture, carpeting  Miscellaneous goods  Nondurable  2.23,9 1.05  Non-energy  Foods and tobacco  Clothing  Chemical products  Energy  Business equipment  Transit  Information processing Industrial and other  Construction supplies  Business upplies  Business upplies  Construction supplies  Business upplies  Construction supplies  Business wipplies  Construction supplies  Business upplies  Construction supplies  Business upplies  Business upplies  Transit  Construction supplies  Business upplies  Business upplies  Business upplies  Business upplies  Consumer parts  Construction supplies  Business upplies  Business uppli	.72 -1.2 .2 1.1 -4.41 -3.1 -5.7 -7.7 -18.0 .9 -7.1 -1.1 -1.6 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7 -2.2	78.0 50.9 17.9 19.6 18.5 79.9 15.2 33.7 12.4 105.7 1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	10.9 19.3 3.7 7.3 8.2 33.2 5.3 5.4 -7.4 12.7 48.3 -8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 9.5 17.1	16.9 9.7 3.4 5.0 5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.24 1.47 7.55 12.7	2.7 2.1 .3 .4 5.1 .0 2.0 .0 1.3 4.6 2 .9 2.0 2.0 2.0 2.0 .0 1.3 4.6 2 .9 2.0 2.0 2.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	-2.2 .6 1 .9 1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .3 .7 .8 .1 1.3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	2.6 1.4 2.1 1.3 1.5 2.1 -5.8 5.1 3 -1.6 1 1.3 -2.3 1.2 1.3	6.8 1.7 6 .5 .7 3.6 4 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0 1.3 1.4 1.5 2.7	-5.1 -2.1 .7 -1.3 -2.0 -1.7 1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.0 -1.1	5 2.7 -1.3 1.5 1.4 2.1 1.7 .1 -10.1 2.7 2.5 3.3 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	7.2 6.5 1.8 2.3 4.1 7.6 6.6 -7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Miscellaneous goods         2.08         4.0         -2.4           Nondurable         22.39         1.0         -5           Non-energy         17.24         -1         -2           Foods and tobacco         9.80         -2         1.6           Clothing         .16         -5.0         -8.6           Chemical products         5.89         1.2         -1.5           Paper products         99         -5.4         -7.9           Energy         5.16         4.7         -1.7           Business equipment         8.82         3.9         -2.0           Transit         1.61         3.6         8.4           Information processing         2.40         3.6         5.6           Industrial and other         4.81         4.2         -2.2           Defense and space equipment         2.44         6.7         8.4           Romanus         5.66         2.5         6           Business supplies         5.66	2 -1.2 .2 1.1 -4.4 1 -3.1 -5.7 -7.7 -18.0 .9 -7.1 -1.1 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7 -2.2	50.9 17.9 19.6 18.5 79.9 15.2 33.7 12.4 105.7 1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	19.3 3.7 7.3 8.2 33.2 5.3 5.4 -7.4 12.7 48.3 -8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 17.1	9.7 3.4 5.0 5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 4 1.4 7 7.5 5 12.7	2.1 .3 .4 .4 5.1 .0 2.0 .0 1.3 4.6 2 .9 2.0 2.5 2.2 .9 2.1 1.5 .7 .8	.6 1 .9 1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .3 .7 .8 .1 1.3 1.0 .7	1.4 2.1 1.3 1.5 2.1 -5.8 5.1 -1.6 1 1.3 -2.3 1.2 1.3 8 .6 5 .5	1.7 6 .5 .7 3.6 4 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0 1.3 1.4 1.8 1.5 2.7	-2.1 .7 -1.3 -2.0 -1.7 -1.1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1	2.7 -1.3 1.5 1.4 2.1 1.7 -10.1 2.7 1.7 2.5 3.3 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	6.5 1.8 2.3 4.1 7.6 .6 -7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Nondurable	-1.2 .2 1.1 -4.4 -1.1 -5.7 -7.7 -18.0 .9 -7.1 -1.1 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7 -2.2	17.9 19.6 18.5 79.9 15.2 33.7 12.4 105.7 1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	3.7 7.3 8.2 33.2 5.3 5.4 -7.4 12.7 48.3 -8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 17.1	3.4 5.0 5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 4 1.4 7 7.5 5.5	3 4 4 5.1 0 2.0 .0 1.3 4.6 2 .9 2.0 2.5 2.2 9 2.1 1.5	1 .9 1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .3 .7 .8 .1 1.3 1.0 .7	2.1 1.3 1.5 1.5 2.1 -5.8 5.1 -3 -1.6 1 1.3 -2.3 1.2 1.3 8 .6 5.5 2.3	6 .5 .7 3.6 4 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0	.7 -1.3 -2.0 -1.7 -1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.0 -6.0 -1.1 -1.0	-1.3 1.5 1.4 2.1 1.7 -10.1 -10.1 2.7 2.5 3.3 4.41 2.2 3.1 2.4 2.0 3.0 2.2	1.8 2.3 4.1 7.6 .6 -7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Non-energy	.2 1.1 -4.4 1 -5.7 -7.7 -18.0 .9 -7.1 -1.1 -5.1 -5.1 -5.2 -4.5 -4.5 -6.7 -2.8	19.6 18.5 79.9 15.2 33.7 12.4 105.7 1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	7.3 8.2 33.2 5.3 5.4 -7.4 12.7 48.3 -8.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 17.1	5.0 5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 4 1.4 7 7.5 5 12.7	.4 .4 5.1 .0 .0 2.0 .0 1.3 4.6 2 .9 2.0 2.5 2.2	.9 1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .3 .7 .8 .1 1.3 1.0 .7 1.1 .4	1.3 1.5 1.5 2.1 -5.8 5.1 .3 -1.6 1 1.3 -2.3 1.2 1.3 .8 .6 .5 2.3 .0	.5 .7 3.6 4 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0	-1.3 -2.0 -1.7 -1.1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1	1.5 1.4 2.1 1.7 .1 -10.1 2.7 2.5 3.3 4.4 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	2.3 4.1 7.6 .6 -7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Foods and tobacco	1.1 -4.4 1 -3.1 -5.7 -7.7 -18.0 .9 -7.1 -1.1 -1.6 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7	18.5 79.9 15.2 33.7 12.4 105.7 1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	8.2 33.2 5.3 5.4 -7.4 12.7 48.3 -8.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 9.5 17.1	5.8 15.9 7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 4 1.4 7 7.5 5 12.7	.4 5.1 .0 2.0 .0 1.3 4.6 2 .9 2.0 2.5 2.2 .9 2.1 1.5	1.6 -1.3 .6 -4.2 -3.3 1.5 4.6 1.3 .3 .7 .8 .1 1.3 1.0 .7	1.5 1.5 2.1 -5.8 5.1 .3 -1.6 1 1.3 -2.3 1.2 1.3 .8 .6 .5 2.3 .0	.7 3.6 4 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0	-2.0 -1.7 -1.1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -6.0 -1.1 -1.0	1.4 2.1 1.7 .1 -10.1 2.7 2.5 3.3 4.4 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	4.1 7.6 .6 -7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Chemical products	1 -3.1 -5.7 -7.7 -18.0 .9 -7.1 -1.1 -1.6 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7 -2.2	15.2 33.7 12.4 105.7 1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	5.3 5.4 -7.4 12.7 48.3 -8.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 9.5 17.1	7.1 -18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 4 1.4 7 7.5 5 12.7	.0 2.0 .0 1.3 4.6 2 .9 2.0 2.5 2.2 .9 2.1 1.5	.6 -4.2 -3.3 1.5 4.6 1.3 .3 .7 .8 .1 1.3 1.0 .7	2.1 -5.8 5.1 3 -1.6 1 1.3 -2.3 1.2 1.3 .8 .6 .5 .5 .0	4 2.5 -4.2 1.9 2.9 .4 2.3 3.7 .0 1.3 1.4 1.8 1.5 2.7	1 -2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1 -1.0	1.7 .1 -10.1 2.7 1.7 2.5 3.3 4.4 1 2.2 3.1 2.4 2.0 3.0 3.0	.6 -7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Paper products	-3.1 -5.7 -18.0 .9 -7.1 -1.1 -1.6 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7 -2	33.7 12.4 105.7 1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	5.4 -7.4 12.7 48.3 -8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 9.5 17.1	-18.0 -1.6 6.3 -1.7 1.9 11.8 12.0 4.2 -4 -7 7.5 -5 12.7	2.0 .0 1.3 4.6 2 .9 2.0 2.5 2.2 .9 2.1 1.5 .7	-4.2 -3.3 1.5 4.6 1.3 .7 .8 .1 1.3 1.0 .7 1.1	-5.8 5.1 .3 -1.6 1 1.3 -2.3 1.2 1.3 .8 .6 .5 2.3 .0	2.5 -4.2 1.9 2.9 .4 2.3 3.7 .9 .0 1.3 1.4 1.8 1.5 2.7	-2.9 8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1 -1.0	.1 -10.1 2.7 1.7 2.5 3.3 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	-7.2 .1 5.7 27.9 .2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Business equipment	-5.7 -7.7 -18.0 .9 -7.1 -1.1 -1.6 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7	12.4 105.7 1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	-7.4 12.7 48.3 -8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 9.5 17.1	-1.6 6.3 -1.7 1.9 11.8 12.0 4.2 4 1.4 7 7.5 5 12.7	.0 1.3 4.62 .9 2.0 2.5 2.2 .9 2.1 1.5 .7 .8	-3.3 1.5 4.6 1.3 .7 .8 .1 1.3 1.0 .7 1.1	5.1 .3 -1.6 -1.1 1.3 -2.3 1.2 1.3 .8 .6 .5 2.3 .0	-4.2 1.9 2.9 .4 2.3 3.7 .9 .0 1.3 1.4 1.8 1.5 2.7	8.1 -3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1 -1.0	-10.1 2.7 1.7 2.5 3.3 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	.1 5.7 27.9 .2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Business equipment	-7.7 -18.0 .9 -7.1 -1.1 -1.6 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7	105.7 1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	12.7 48.3 -8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 9.5 17.1	6.3 -1.7 1.9 11.8 12.0 4.2 4 1.4 7 7.5 5	1.3 4.6 2 .9 2.0 2.5 2.2 .9 2.1 1.5 .7	1.5 4.6 1.3 .3 .7 .8 .1 1.3 1.0 .7	.3 -1.6 1 1.3 -2.3 1.2 1.3 .8 .6 .5 2.3	1.9 2.9 .4 2.3 3.7 .9 .0 1.3 1.4 1.8 1.5 2.7	-3.0 -6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1 -1.0	2.7 1.7 2.5 3.3 4.4 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	5.7 27.9 .2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Transit	-18.0 .9 -7.1 -1.1 -1.6 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7	1637.7 19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	48.3 -8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 9.5 17.1	-1.7 1.9 11.8 12.0 4.2 4 1.4 7 7.5 5 12.7	4.6 2 .9 2.0 2.5 2.2 .9 2.1 1.5 .7	4.6 1.3 .3 .7 .8 .1 1.3 1.0 .7 1.1	-1.6 1 1.3 -2.3 1.2 1.3 .8 .6 .5 2.3 .0	2.9 .4 2.3 3.7 .9 .0 1.3 1.4 1.8 1.5 2.7	-6.3 -1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1 -1.0	1.7 2.5 3.3 4.4 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	27.9 .2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Information processing   2.40   3.6   5.6   Industrial and other   4.81   4.2   -2.2   2.2   2.44   6.7   8.4   4.81   4.2   -2.2   2.44   6.7   8.4   4.81   4.2   -2.2   2.44   6.7   8.4   4.81   4.2   -2.2   4.4   6.7   8.4   4.81   4.2   -2.2   4.4   6.7   8.4   4.81   4.2   -2.2   4.4   6.7   8.4   4.5   6.5	.9 -7.1 -1.1 -1.6 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7	19.0 53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	-8.8 12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 9.5 17.1	1.9 11.8 12.0 4.2 4 1.4 7 7.5 5 12.7	2 .9 2.0 2.5 2.2 .9 2.1 1.5 .7	1.3 .3 .7 .8 .1 1.3 1.0 .7 1.1 .4	1 1.3 -2.3 1.2 1.3 .8 .6 .5 2.3	.4 2.3 3.7 .9 .0 1.3 1.4 1.8 1.5 2.7	-1.7 -2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1 -1.0	2.5 3.3 4.4 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	.2 1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Industrial and other	-7.1 -1.6 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7	53.1 31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	12.8 10.2 20.3 14.5 10.1 17.2 13.4 9.5 9.5 17.1	11.8 12.0 4.2 4 1.4 7 7.5 5 12.7	.9 2.0 2.5 2.2 .9 2.1 1.5 .7	.3 .7 .8 .1 1.3 1.0 .7 1.1 .4	1.3 -2.3 1.2 1.3 .8 .6 .5 2.3	2.3 3.7 9 .0 1.3 1.4 1.8 1.5 2.7	-2.3 -1.4 -3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1 -1.0	3.3 4.4 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	1.8 6.4 2.2 7 -1.9 .8 3.5 17.0 4.4 9
Defense and space equipment	-1.1 -1.6 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7 2	31.2 24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	10.2 20.3 14.5 10.1 17.2 13.4 9.5 9.5 17.1	12.0 4.2 4 1.4 7 7.5 5 12.7	2.0 2.5 2.2 .9 2.1 1.5 .7	.7 .8 .1 1.3 1.0 .7 1.1 .4	-2.3 1.2 1.3 .8 .6 .5 2.3	3.7 .9 .0 1.3 1.4 1.8 1.5 2.7	-1.4 -3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1 -1.0	4.4 4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	2.2 7 -1.9 .8 3.5 17.0 4.4 9
Construction supplies   S.66   Business supplies   8.56   .0   -1.0	-1.6 -5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7	24.3 33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	20.3 14.5 10.1 17.2 13.4 9.5 9.5 17.1	4.2 4 1.4 7 7.5 5 12.7	2.5 2.2 .9 2.1 1.5 .7	.8 .1 1.3 1.0 .7 1.1 .4	1.2 1.3 .8 .6 .5 2.3	.9 .0 1.3 1.4 1.8 1.5 2.7	-3.5 -1.5 -3.8 -4.9 -1.9 -6.0 -1.1 -1.0	4.4 1 2.2 3.1 2.4 2.0 3.0 2.2	2.2 7 -1.9 .8 3.5 17.0 4.4 9
Materials	-5.1 -5.7 -2.8 -4.5 2.0 -4.2 -6.7 2	33.3 30.9 43.6 69.2 668.0 26.3 30.1 15.5	14.5 10.1 17.2 13.4 9.5 9.5 17.1	4 1.4 7 7.5 5 12.7	2.2 .9 2.1 1.5 .7 .8	.1 1.3 1.0 .7 1.1 .4	1.3 .8 .6 .5 2.3	.0 1.3 1.4 1.8 1.5 2.7	-1.5 -3.8 -4.9 -1.9 -6.0 -1.1 -1.0	1 2.2 3.1 2.4 2.0 3.0 2.2	7 -1.9 .8 3.5 17.0 4.4 9
Materials	-5.7 -2.8 -4.5 2.0 -4.2 -6.7	30.9 43.6 69.2 668.0 26.3 30.1 15.5	10.1 17.2 13.4 9.5 9.5 17.1	1.4 7 7.5 5 12.7	.9 2.1 1.5 .7	1.3 1.0 .7 1.1 .4	.8 .6 .5 2.3	1.3 1.4 1.8 1.5 2.7	-3.8 -4.9 -1.9 -6.0 -1.1 -1.0	2.2 3.1 2.4 2.0 3.0 2.2	-1.9 .8 3.5 17.0 4.4 9
Non-energy   27.85   3.2   -2.0	-2.8 -4.5 2.0 -4.2 -6.7	43.6 69.2 668.0 26.3 30.1 15.5	17.2 13.4 9.5 9.5 17.1	7 7.5 5 12.7	2.1 1.5 .7 .8	1.0 .7 1.1 .4	.6 .5 2.3	1.4 1.8 1.5 2.7	-4.9 -1.9 -6.0 -1.1 -1.0	3.1 2.4 2.0 3.0 2.2	.8 3.5 17.0 4.4 9
Durable   16.04   3.9   -2.3	-4.5 2.0 -4.2 -6.7	69.2 668.0 26.3 30.1 15.5	13.4 9.5 9.5 17.1	7.5 5 12.7	1.5 .7 .8	.7 1.1 .4	.5 2.3 .0	1.8 1.5 2.7	-1.9 -6.0 -1.1 -1.0	2.4 2.0 3.0 2.2	3.5 17.0 4.4 9
Consumer parts   2.64   3.9   -8.7	2.0 -4.2 -6.7 2	668.0 26.3 30.1 15.5	9.5 9.5 17.1	5 12.7	.7	1.1	2.3	1.5 2.7	-6.0 -1.1 -1.0	2.0 3.0 2.2	17.0 4.4 9
Equipment parts	-4.2 -6.7 2	26.3 30.1 15.5	9.5 17.1	12.7	.8	.4	.0	2.7	-1.1 -1.0	3.0 2.2	4.4 9
Other         8.68         2.7         -1.8           Nondurable         11.81         2.2         -1.4           Textile         .35         5.4        3           Paper         1.77        3         -3.7           Chemical         6.47         4.3         -1.6           Energy         17.83         10.4         2.3           INDUSTRY GROUPS           Manufacturing         75.28         2.2         -1.2           Manufacturing (NAICS)         31-33         73.64         2.5         -1.1           Durable manufacturing         37.05         4.1         -1.3           Wood products         321         1.54        9         3.0           Nonmetallic mineral products         327         2.37         1.9        5           Primary metals         331         2.73         6.2         -4.1           Fabricated metal products         332         5.76         4.9         -1.3           Machinery         333         5.26         5.8         -4.0           Computer and electronic products         334         5.18         4.5         6.3           Electrical equip., appliances, and components	-6.7 2	30.1 15.5	17.1						-1.0	2.2	9
Textile Paper				7.4	2.2	.8		1.4		4.2	2.7
Paper			22.6	-11.1	2.8	1.5	.7	.9	-8.9	4.2	-2.7
Chemical   6.47   4.3   -1.6   Energy   17.83   10.4   2.3   2.3	-7.4	98.5	7.5	2.3	-1.4	-3.5	3.4	9	3	2.0	-2.5
INDUSTRY GROUPS   T5.28   2.2   -1.2	-6.1	-1.1	27.8	.5	4.7	3	1.0	6	2	1.0	-3.8
INDUSTRY GROUPS   T5.28   Z.2   -1.2	1.0 -10.3	10.6	29.5	-21.3 5.0	4.0 9	2.6	.4 1.1	1.4	-15.1 -2.1	6.6	-5.3 -6.2
Manufacturing         75.28         2.2         -1.2           Manufacturing (NAICS)         31-33         73.64         2.5         -1.1           Durable manufacturing         37.05         4.1         -1.3           Wood products         321         1.54        9         3.0           Nonmetallic mineral products         327         2.37         1.9        5           Primary metals         331         2.73         6.2         -4.1           Fabricated metal products         332         5.76         4.9         -1.3           Machinery         333         5.26         5.8         -4.0           Computer and electronic products         334         5.18         4.5         6.3           Electrical equip., appliances, and components         335         1.85         3.5         -2.1           Motor vehicles and parts         3361-3         4.93         5.5         -6.8           Aerospace and miscellaneous transportation equipment         3364-9         3.66         2.7         .5           Furniture and related products         337         1.15         1.6        7           Miscellaneous         339         2.62         2.2         .6	10.0	10		0.0	.,	117	111	1.2	2.1	• • •	0.2
Manufacturing (NAICS)         31–33         73.64         2.5         -1.1           Durable manufacturing         37.05         4.1         -1.3           Wood products         321         1.54        9         3.0           Nonmetallic mineral products         327         2.37         1.9        5           Primary metals         331         2.73         6.2         -4.1           Fabricated metal products         332         5.76         4.9         -1.3           Machinery         333         5.26         5.8         -4.0           Computer and electronic products         334         5.18         4.5         6.3           Electrical equip., appliances, and components         335         1.85         3.5         -2.1           Motor vehicles and parts         3361–3         4.93         5.5         -6.8           Aerospace and miscellaneous transportation equipment         3364–9         3.66         2.7         .5           Furniture and related products         337         1.15         1.6        7           Miscellaneous         339         2.62         2.2         .6           Nondurable manufacturing         36.59         .9        8	-2.7	57.5	12.4	1.9	1.5	.9	.7	1.3	-3.7	2.7	3.1
Durable manufacturing         37.05         4.1         -1.3           Wood products         321         1.54        9         3.0           Nonmetallic mineral products         327         2.37         1.9        5           Primary metals         331         2.73         6.2         -4.1           Fabricated metal products         332         5.76         4.9         -1.3           Machinery         333         5.26         5.8         -4.0           Computer and electronic products         334         5.18         4.5         6.3           Electrical equip., appliances,         335         1.85         3.5         -2.1           Motor vehicles and parts         3361-3         4.93         5.5         -6.8           Aerospace and miscellaneous         3364-9         3.66         2.7         .5           Furniture and related products         337         1.15         1.6        7           Miscellaneous         339         2.62         2.2         .6           Nondurable manufacturing         36.59         .9        8           Food, beverage, and tobacco products         311,2         11.88         .2         1.7	-2.6		12.4	2.4	1.4	1.0	.8	1.3	-3.7	2.8	3.4
Wood products         321         1.54        9         3.0           Nonmetallic mineral products         327         2.37         1.9        5           Primary metals         331         2.73         6.2         -4.1           Fabricated metal products         332         5.76         4.9         -1.3           Machinery         333         5.26         5.8         -4.0           Computer and electronic products         334         5.18         4.5         6.3           Electrical equip., appliances, and components         335         1.85         3.5         -2.1           Motor vehicles and parts         3361-3         4.93         5.5         -6.8           Aerospace and miscellaneous transportation equipment         3364-9         3.66         2.7         .5           Furniture and related products         337         1.15         1.6        7           Miscellaneous         339         2.62         2.2         .6           Nondurable manufacturing         36.59         .9        8           Food, beverage, and tobacco products         311,2         11.88         .2         1.7	-3.6		11.8	4.6	1.3	1.2	.4	1.8	-3.3	3.0	6.4
Primary metals         331         2.73         6.2         -4.1           Fabricated metal products         332         5.76         4.9         -1.3           Machinery         333         5.26         5.8         -4.0           Computer and electronic products         334         5.18         4.5         6.3           Electrical equip., appliances, and components         335         1.85         3.5         -2.1           Motor vehicles and parts         3361-3         4.93         5.5         -6.8           Aerospace and miscellaneous transportation equipment         3364-9         3.66         2.7         .5           Furniture and related products         337         1.15         1.6        7           Miscellaneous         339         2.62         2.2         .6           Nondurable manufacturing         36.59         .9        8           Food, beverage, and tobacco products         311,2         11.88         .2         1.7	.5	1	13.9	5.9	2.0	.5	3.6	2	-2.5	2.4	5.1
Fabricated metal products         332         5.76         4.9         -1.3           Machinery         333         5.26         5.8         -4.0           Computer and electronic products         334         5.18         4.5         6.3           Electrical equip., appliances, and components         335         1.85         3.5         -2.1           Motor vehicles and parts         3361-3         4.93         5.5         -6.8           Aerospace and miscellaneous transportation equipment         3364-9         3.66         2.7         .5           Furniture and related products         337         1.15         1.6        7           Miscellaneous         339         2.62         2.2         .6           Nondurable manufacturing         36.59         .9        8           Food, beverage, and tobacco products         311,2         11.88         .2         1.7	-1.3	30.8	15.0	-6.3	2.7	.9	3.0	-1.6	-5.2	3.9	7
Machinery         333         5.26         5.8         -4.0           Computer and electronic products         334         5.18         4.5         6.3           Electrical equip., appliances, and components         335         1.85         3.5         -2.1           Motor vehicles and parts         3361–3         4.93         5.5         -6.8           Aerospace and miscellaneous transportation equipment         3364–9         3.66         2.7         .5           Furniture and related products         337         1.15         1.6        7           Miscellaneous         339         2.62         2.2         .6           Nondurable manufacturing         36.59         .9        8           Food, beverage, and tobacco products         311,2         11.88         .2         1.7	-9.2	1	49.2	9.0	1.9	4.6	6	1.2	-1.6	2.8	.1
Computer and electronic products         334         5.18         4.5         6.3           Electrical equip., appliances, and components         335         1.85         3.5         -2.1           Motor vehicles and parts         3361–3         4.93         5.5         -6.8           Aerospace and miscellaneous transportation equipment         3364–9         3.66         2.7         .5           Furniture and related products         337         1.15         1.6        7           Miscellaneous         339         2.62         2.2         .6           Nondurable manufacturing         36.59         .9        8           Food, beverage, and tobacco products         311,2         11.88         .2         1.7	-6.1	16.3	11.5	9.3	1	1.0	.2	2.3	-2.8	4.2	.8
Electrical equip., appliances, and components   335   1.85   3.5   -2.1	-3.3	69.8	16.2	12.7	2.2	8	1.6	3.0	-2.5	2.9	5.5
and components         335         1.85         3.5         -2.1           Motor vehicles and parts         3361–3         4.93         5.5         -6.8           Aerospace and miscellaneous transportation equipment         3364–9         3.66         2.7         .5           Furniture and related products         337         1.15         1.6        7           Miscellaneous         339         2.62         2.2         .6           Nondurable manufacturing Food, beverage, and tobacco products         311,2         11.88         .2         1.7	1.8	18.3	.1	2.0	.5	.9	3	.5	-1.2	2.0	1.8
Motor vehicles and parts         3361–3         4.93         5.5         -6.8           Aerospace and miscellaneous transportation equipment         3364–9         3.66         2.7         .5           Furniture and related products         337         1.15         1.6        7           Miscellaneous         339         2.62         2.2         .6           Nondurable manufacturing         36.59         .9        8           Food, beverage, and tobacco products         311,2         11.88         .2         1.7	2 1	15.2	15 1	0 1	2.2	2	,	2.5	1.0	0	
Aerospace and miscellaneous transportation equipment         3364–9         3.66         2.7         .5           Furniture and related products         337         1.15         1.6        7           Miscellaneous         339         2.62         2.2         .6           Nondurable manufacturing         36.59         .9        8           Food, beverage, and tobacco products         311,2         11.88         .2         1.7	-3.4 3.8	15.3 2674.9	15.1 -4.0	8.1	3.3	3.0	.6 8	2.5	-1.8 -10.0	.9 2.8	.9 29.7
transportation equipment     3364–9     3.66     2.7     .5       Furniture and related products     337     1.15     1.6    7       Miscellaneous     339     2.62     2.2     .6       Nondurable manufacturing     36.59     .9    8       Food, beverage, and tobacco products     311,2     11.88     .2     1.7	5.6	2074.9	-4.0	-10.7	.5	3.0	0	1.0	-10.0	2.0	29.1
Furniture and related products         337         1.15         1.6        7           Miscellaneous         339         2.62         2.2         .6           Nondurable manufacturing         36.59         .9        8           Food, beverage, and tobacco products         311,2         11.88         .2         1.7	-12.0	102.0	26.1	21.3	2.2	1.2	-1.5	4.4	3	4.3	13.2
Miscellaneous         339         2.62         2.2         .6           Nondurable manufacturing         36.59         .9        8           Food, beverage, and tobacco products         311,2         11.88         .2         1.7	-10.9	47.7	.0	7.7	5	-1.1	1.6	2.7	-3.3	2.1	-4.5
Food, beverage, and tobacco products 311,2 11.88 .2 1.7	-4.9	74.8	12.8	12.4	2.3	1.6	.9	2.4	-2.0	2.3	6.3
Food, beverage, and tobacco products 311,2 11.88 .2 1.7		23.3	13.0	.1	1.6	.8	1.2	.8	-4.1	2.6	.4
	_1 6		7.4	5.7	.2	.8 1.5	1.3 1.4	.8 .8	-4.1	1.7	4.1
	-1.6 1.2	1	13.3	11.5	3	-1.9	2.8	.9	-2.0	2.0	2.4
Apparel and leather 315,6 .17 -5.2 -8.5	1.2		31.9	16.3	4.8	-1.1	1.3	3.9	-1.8	2.0	7.6
Paper 322 2.47 .0 -2.6			23.9	1.8	3.6	.1	1.1	4	4	.9	-1.6
Printing and support 323 1.16 -2.7 -3.2	1.2 -5.5	56.1	24.0	-7.0	3.9	6	.6	-1.6	-2.1	3.0	-4.5
Petroleum and coal products 324 3.05 -1.2 -1.6	1.2 -5.5 -3.8		15.8	23.6	2.6	.3	3.6	4.3	-4.7	5.7	.6
Chemicals 325 13.76 2.9 -1.5	1.2 -5.5 -3.8 -1.9 -9.5 -11.2		14.9	-10.5	2.2	1.2	.8	.4	-7.9	4.1	-2.9
Plastics and rubber products 326 3.50 .0 -2.6	1.2 -5.5 -3.8 -1.9 -9.5 -11.2 5	12.1	11.6	5.4	1.2	7	1.2	1.3	2	-1.1	3.5
Other manufacturing (non-NAICS)         1133,5111         1.63         -10.0         -8.0	1.2 -5.5 -3.8 -1.9 -9.5 -11.2 5 -1.7	12.1 79.8				-3.2	-4.5	1.2	-3.9	.0	-9.6
Mining         21         13.74         13.9         2.3           Utilities         2211,2         10.98         2.6         -1.0	1.2 -5.5 -3.8 -1.9 -9.5 -11.2 5 -1.7	12.1 79.8 42.0	14.3	-20.2	2.8			2.1	-5.6 9.2	5.7	-8.8 2
Electric 2211 9.15 .89	1.2 -5.5 -3.8 -1.9 -9.5 -11.2 5 -1.7 -8.2	12.1 79.8 42.0	14.3 4.4	6.8	-1.7	3.6	.5		7.2	-11.4	-1.0
Natural gas 2212 1.83 12.8 -2.1	1.2 -5.5 -3.8 -1.9 -9.5 -11.2 5 -1.7	12.1 79.8 42.0 1.8 16.3	14.3				.5 3.8 3.3	-3.1 -2.2	7.2	-y 1	-1.0

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<sup>1.</sup> 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 2012 North American Industry Classification System (NAICS) codes. The abbreviation pt denotes part of a NAICS code. Additional industry detail is available on the Board's website (www.federalreserve.gov/releases/G17/20210415/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

Percent change, seasonally adjusted															
				ırth quart											
_			fo	ourth quai	rter		nnual rat				Month	-			Mar. '20
Item		2020	2018	2019	2020	2020	Q4 <sup>r</sup>	2021 Q1 <sup>p</sup>	2020 Oct. <sup>r</sup>	Nov.r	Dec.r	2021 Jan. <sup>r</sup>	Feb.r	Mar. <sup>p</sup>	to Mar. '21
		proportion	2018	2019	2020	Q3	Q4	Q1 <sup>r</sup>	Oct.	NOV.	Dec.	Jan.	reb.	Mar.	Mar. 21
Total industry		100.00	4.0	7	-4.3	43.3	9.5	2.5	1.1	.9	1.0	.9	-2.6	1.4	1.0
,															
Energy		25.64	8.7	.8	-10.0	12.8	4	4.6	4	.6	2.2	.0	.3	-2.2	-5.4
Consumer products		5.16	4.7	-1.7	-5.7	12.4	-7.4	-1.6	.0	-3.3	5.1	-4.2	8.1	-10.1	.1
Commercial products	212111	2.36	2.6	1	-7.4	28.1	11.5	5.9	2.1	.0	3.9	1	1.1	-5.2	-1.9
Oil and gas well drilling Converted fuel	213111	.29 4.92	19.3	-22.1 -1.6	-60.2 -3.5	-80.1 44.3	96.6 -5.2	172.7 2.8	6.2	8.3 -2.8	10.7	11.3	6.4	3.1 -5.2	-45.4 -1.6
Primary energy		12.91	12.8	3.6	-12.7	3.5	1.5	5.9	-2.5	3.6	.8	1.3	-3.9	3.2	-1.0 -7.7
1 Illian y chergy		12.71	12.0	5.0	-12.7	3.3	1.5	3.7	-2.3	5.0	.0	1.5	-3.7	3.2	-7.7
Non-energy		74.36	2.2	-1.2	-2.2	55.9	12.9	1.8	1.5	1.0	.6	1.2	-3.6	2.7	3.3
Selected high-technology industries		1.81	5.4	6.9	5.1	17.7	12.7	5.3	1.9	.2	4	.8	.1	1.8	7.7
Computers and peripheral equipment	3341	.31	1.5	1	6.2	24.7	9.2	2.2	.0	.5	2	9	.3	3.9	5.2
Communications equipment	3342	.46	7.0	8.2	.8	1.0	15.6	6.0	1.8	1.3	.8	.6	9	1.6	7.7
Semiconductors and related															
electronic components	3344	1.04	5.9	8.4	6.7	23.6	12.5	5.9	2.4	4	9	1.4	.6	1.2	8.5
Excluding selected high-technology															
industries		72.54	2.1	-1.4	-2.4	57.1	13.0	1.7	1.5	1.0	.7	1.2	-3.7	2.7	3.2
		, 2.5					-2.0		1.0		• ·		2.,		
Motor vehicles and parts	3361-3	4.93	5.5	-6.8	3.8	2674.9	-4.0	-16.7	.3	3.0	8	1.0	-10.0	2.8	29.7
Motor vehicles	3361	2.35	9.5	-7.7	4.1	9225.3	-11.6	-31.8	1.1	4.6	-1.9	1	-15.3	3.5	34.4
Motor vehicle parts	3363	2.12	4.4	-5.6	1.4	1059.6	1.6	-7.8	3	.7	.7	.3	-5.4	2.2	21.5
Excluding motor vehicles and parts		67.62	1.8	9	-2.9	31.4	14.6	3.4	1.6	.9	.8	1.3	-3.1	2.7	1.5
Consumer goods		20.65	.3	7	.2	28.5	9.0	5.6	.7	.8	1.2	.9	-1.6	1.5	3.3
Business equipment		7.45	2.8	-1.4	-9.5	60.6	12.9	11.5	.9	.9	1.1	2.0	-1.9	2.9	3.2
Construction supplies		5.64	2.5	.5	-1.6	24.3	20.3	4.2	2.5	.8	1.2	.9	-3.5	4.4	2.2
Business supplies		5.96	-1.2	-1.8	-4.8	36.2	15.5	-3.3	2.2	.2	.4	.0	-2.7	2.0	7
Materials		25.44	3.0	-1.8	-3.3	26.5	18.8	1	2.2	1.1	.6	1.5	-4.9	3.2	5
Measures excluding selected															
high-technology industries															
Total industry		98.19	3.9	8	-4.5	43.9	9.4	2.4	1.0	.9	1.0	.9	-2.7	1.4	.9
Manufacturing <sup>1</sup>		73.46	2.1	-1.4	-2.9	58.8	12.4	1.8	1.5	1.0	.7	1.3	-3.8	2.8	3.0
Durable		35.41	4.0	-1.6	-4.1	108.9	11.9	4.5	1.3	1.3	.4	1.8	-3.5	3.0	6.3
Measures excluding motor vehicles															
and parts															
Total industry		95.07	3.9	3	-4.7	25.8	10.4	3.7	1.1	.8	1.1	.9	-2.2	1.4	2
Manufacturing <sup>1</sup>		70.35	1.9	8	-3.2	32.7	13.9	3.5	1.6	.8	.8	1.3	-3.2	2.7	1.6
Durable		32.29	3.9	2	-4.8	43.9	15.0	8.7	1.6	.9	.6	1.9	-2.2	3.0	3.4
Measures excluding selected															
high-technology industries															
and motor vehicles and parts															
Total industry		93.26	3.8	5	-4.9	25.9	10.3	3.7	1.1	.8	1.2	.9	-2.2	1.4	4
Manufacturing <sup>1</sup>		68.53	1.8	-1.0	-3.5	33.2	14.0	3.5	1.6	.8	.9	1.3	-3.3	2.8	1.4
Stage-of-process components															
of non-energy materials,															
measures of the input to															
Finished processors		9.48	4.1	-3.0	-2.8	95.5	12.4	6.0	1.4	.3	1.0	1.6	-2.4	2.3	5.9
Primary and semifinished processors		18.37	2.7	-1.4	-2.7	22.7	19.9	-4.1	2.4	1.4	.4	1.3	-6.2	3.6	-1.7

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

annons of units, seasonarry adjusted annual rate											
	2020	2020			2021	2020			2021		
Item	average	Q2	Q3	Q4	Q1	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total	8.83	3.61	11.44	10.79	9.61	10.54	10.98	10.84	10.66	8.88	9.29
Autos	1.94	.77	2.48	2.23	1.74	2.27	2.28	2.16	2.13	1.66	1.42
Trucks	6.89	2.84	8.96	8.56	7.87	8.27	8.71	8.69	8.53	7.21	7.87
Light	6.65	2.72	8.69	8.25	7.60	7.97	8.38	8.40	8.24	6.95	7.61
Medium and heavy	.24	.12	.27	.30	.27	.30	.32	.29	.29	.26	.26
Memo	0.50	2.50	11.17	10.40	0.24	10.24	10.66	10.56	10.27	0.61	0.02
Autos and light trucks	8.59	3.50	11.17	10.49	9.34	10.24	10.66	10.56	10.37	8.61	9.03

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 2012 = 100, seasonally adjusted

012 = 100, seasonally adjusted											
Item		2020 proportion	2020 July	Aug.	Sept.	Oct.r	Nov. <sup>r</sup>	Dec.r	2021 Jan. <sup>r</sup>	Feb.r	Mar. <sup>p</sup>
Total IP		100.00	101.9	102.9	102.8	103.9	104.8	105.9	106.9	104.1	105.6
Market Groups											
Final products and nonindustrial supplies		54.32	98.5	99.8	99.4	100.6	101.2	102.4	103.0	101.4	102.2
Consumer goods		28.45	104.1	105.1	104.0	104.5	104.8	106.6	106.6	105.7	105.1
Durable		6.06	122.9	121.9	120.1	121.2	123.2	123.7	125.9	118.0	120.8
Automotive products		3.01	146.0	140.9	136.5	136.0	140.5	139.4	140.5	127.2	131.0
Home electronics		.13	121.7	123.0	124.7	127.6	129.3	129.9	129.0	129.1	131.7
Appliances, furniture, carpeting		.84 2.08	101.0 102.1	103.9 104.5	103.3 105.6	106.1 107.8	103.8 108.5	106.4 110.0	113.7 111.9	107.9 109.6	107.3 112.5
Miscellaneous goods Nondurable		22.39	99.4	104.3	100.0	107.8	108.3	102.4	101.8	109.6	101.2
Non-energy		17.24	96.6	98.8	98.2	98.6	99.4	100.7	101.3	99.8	101.2
Foods and tobacco		9.80	105.8	108.5	107.1	107.5	109.3	111.0	111.8	109.6	111.1
Clothing		.16	52.2	57.2	56.9	59.7	58.9	59.9	62.0	61.0	62.3
Chemical products		5.89	90.8	92.0	91.7	91.7	92.2	94.2	93.8	93.7	95.3
Paper products		.99	67.4	70.0	73.1	74.6	71.4	67.3	69.0	67.0	67.0
Energy		5.16	108.1	107.2	105.4	105.5	102.0	107.2	102.7	111.0	99.7
Business equipment		8.82	89.0	91.3	90.9	92.2	93.5	93.8	95.6	92.8	95.3
Transit		1.61	75.2	77.2	79.6	83.2	87.1	85.7	88.1	82.6	84.0
Information processing Industrial and other		2.40 4.81	119.2 83.2	122.2 85.3	115.5 86.2	115.3 87.0	116.8 87.2	116.7 88.4	117.2 90.4	115.2 88.3	118.0 91.2
Defense and space equipment		2.44	99.1	101.5	101.5	103.5	104.2	101.8	105.6	88.3 104.1	108.7
		2.44	27.1	101.3	101.3	103.3	104.2	101.0	103.0	104.1	100.7
Construction supplies Business supplies		5.66 8.56	107.9 94.8	110.2 95.8	111.2 96.2	113.9 98.3	114.8 98.5	116.1 99.8	117.2 99.8	113.1 98.3	118.1 98.2
Materials		45.68	105.5	106.0	106.3	107.3	108.7	109.6	111.0	106.7	109.1
Non-energy		27.85	97.1	98.7	99.5	101.5	102.6	103.2	104.6	99.5	102.6
Durable		16.04	97.3	99.1	99.7	101.2	102.0	102.5	104.3	102.2	104.7
Consumer parts		2.64	103.3	104.1	103.8	104.5	105.7	108.1	109.7	103.1	105.2
Equipment parts		4.72	102.5	104.1	105.1	106.0	106.4	106.4	109.3	108.0	111.2
Other Nondurable		8.68 11.81	92.6 96.6	94.7 98.1	95.5 99.0	97.5 101.8	98.3 103.3	98.4 104.0	99.8 105.0	98.8 95.6	101.0 99.6
Textile		.35	85.9	90.3	94.2	92.9	89.7	92.7	91.9	91.6	93.4
Paper		1.77	77.8	79.1	80.2	83.9	83.6	84.5	83.9	83.8	84.6
Chemical		6.47	98.6	99.6	100.1	104.1	106.8	107.3	108.8	92.4	98.5
Energy		17.83	117.1	115.4	115.0	114.0	115.9	117.2	118.5	116.0	116.8
INDUSTRY GROUPS											
Manufacturing		75.28	97.7	99.4	99.4	100.9	101.9	102.6	103.9	100.0	102.8
Manufacturing (NAICS)	31–33	73.64	99.0	100.7	100.6	102.1	103.1	104.0	105.4	101.4	104.3
Durable manufacturing	221	37.05	100.3	101.7	101.8	103.2	104.4	104.8	106.6	103.1	106.2
Wood products Nonmetallic mineral products	321 327	1.54	126.6	125.3 114.3	125.4	128.0	128.6	133.3 120.4	133.0	129.7 112.3	132.8
Primary metals	331	2.37 2.73	114.0 75.1	79.2	112.8 83.7	115.9 85.3	116.9 89.1	88.6	118.5 89.7	88.3	116.7 90.8
Fabricated metal products	332	5.76	92.3	93.8	96.1	96.0	96.9	97.1	99.3	96.6	100.6
Machinery	333	5.26	83.2	86.0	86.6	88.5	87.8	89.2	91.9	89.6	92.2
Computer and electronic products	334	5.18	131.9	133.9	131.0	131.6	132.8	132.4	133.1	131.6	134.2
Electrical equip., appliances,											
and components	335	1.85	95.2	95.8	95.4	98.5	98.8	99.3	101.8	99.9	100.8
Motor vehicles and parts Aerospace and miscellaneous	3361–3	4.93	134.0	128.8	125.6	126.0	129.8	128.7	130.0	117.0	120.3
Aerospace and miscellaneous transportation equipment	3364–9	3.66	81.2	86.0	87.9	89.9	90.9	89.5	93.4	93.1	97.1
Furniture and related products	3304–9	1.15	94.1	95.3	95.7	95.2	90.9	95.7	98.3	95.1	97.1
Miscellaneous	339	2.62	92.8	94.6	92.8	94.9	96.5	97.3	99.7	97.7	99.9
Nondurable manufacturing		36.59	97.7	99.6	99.4	100.9	101.8	103.1	104.0	99.7	102.3
Food, beverage, and tobacco products	311,2	11.88	108.5	111.1	110.1	110.2	111.9	113.4	114.3	112.0	113.9
Textile and product mills	313,4	.60	85.9	88.4	92.2	91.9	90.2	92.8	93.6	93.5	95.4
Apparel and leather	315,6	.17	53.6	58.7	58.3	61.1	60.5	61.3	63.6	62.5	63.7
Paper	322	2.47	85.8	86.9	88.2	91.4	91.5	92.5	92.2	91.8	92.6
Printing and support	323	1.16	78.7	79.7	81.4	84.6	84.0	84.6	83.2	81.5	83.9
Petroleum and coal products Chemicals	324 325	3.05 13.76	89.7 95.6	90.3 96.9	89.6 96.6	91.9 98.7	92.2 99.9	95.5 100.8	99.6 101.1	94.9 93.1	100.3 96.9
Plastics and rubber products	325	3.50	100.2	104.3	104.8	106.0	105.3	100.8	107.9	107.7	106.5
Other manufacturing (non-NAICS)	1133,5111	1.63	59.6	62.9	65.3	67.1	65.0	62.1	62.8	60.4	60.4
Mining	21	13.74	114.5	113.3	114.3	112.4	116.4	117.0	119.5	112.8	119.2
	2211,2	10.98	106.7	104.9	102.6	104.2	101.6	105.5	102.1	111.5	98.8
Utilities											
Utilities Electric Natural gas	2211,2 2211 2212	9.15 1.83	104.8 119.5	103.0 117.5	99.7 121.4	101.1 124.0	100.0 112.3	103.3 119.8	101.0 110.5	108.3 132.2	98.2 104.3

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

Table 5
INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

2012 = 100, seasonally adjusted

012 = 100, seasonally adjusted											
		2020	2020						2021		
Item		proportion	July	Aug.	Sept.	Oct.r	Nov. <sup>r</sup>	Dec.r	Jan. <sup>r</sup>	Feb. <sup>r</sup>	Mar. <sup>p</sup>
Total industry		100.00	101.9	102.9	102.8	103.9	104.8	105.9	106.9	104.1	105.6
Total industry		100.00	101.9	102.9	102.6	105.9	104.6	103.9	100.9	104.1	105.0
Energy		25.64	111.1	109.5	108.9	108.5	109.1	111.6	111.6	111.9	109.5
Consumer products		5.16	108.1	107.2	105.4	105.5	102.0	107.2	102.7	111.0	99.7
Commercial products		2.36	102.6	100.1	100.3	102.5	102.5	106.4	106.3	107.6	102.0
Oil and gas well drilling	213111	.29	20.5	20.3	21.0	22.3	24.1	26.7	29.7	31.6	32.6
Converted fuel		4.92	102.2	100.9	96.9	100.0	97.2	98.9	99.6	101.9	96.6
Primary energy		12.91	120.6	118.7	120.0	117.1	121.3	122.3	123.9	119.1	122.8
Non-energy		74.36	98.2	99.9	100.0	101.5	102.5	103.2	104.5	100.7	103.4
		1.01	160.1	160.0	162.2	166.4	166.6	166.0	167.4	167.6	170.5
Selected high-technology industries	2241	1.81	160.1	160.9	163.3	166.4	166.6	166.0	167.4	167.6	170.5
Computers and peripheral equipment	3341	.31	135.1	137.8	140.4	140.5	141.2	140.8	139.5	139.9	145.4
Communications equipment	3342	.46	132.6	132.4	134.0	136.3	138.1	139.2	140.0	138.7	141.0
Semiconductors and related	2244	1.04	101.0	101.7	1044	100.0	100.1	106.4	100.0	100.1	100.4
electronic components	3344	1.04	181.0	181.7	184.4	188.9	188.1	186.4	189.0	190.1	192.4
Excluding selected high-technology											
industries		72.54	96.5	98.3	98.3	99.8	100.8	101.5	102.8	99.0	101.7
Motor vehicles and parts	3361-3	4.93	134.0	128.8	125.6	126.0	129.8	128.7	130.0	117.0	120.3
Motor vehicles	3361	2.35	141.6	129.7	123.1	124.4	130.2	127.7	127.6	108.0	111.8
Motor vehicle parts	3363	2.12	126.0	126.9	126.5	126.1	127.0	127.9	128.2	121.2	123.9
Excluding motor vehicles and parts		67.62	94.0	96.2	96.4	98.0	98.9	99.6	100.9	97.7	100.4
Consumer goods		20.65	97.3	99.7	99.3	100.0	100.8	102.0	102.9	101.2	102.8
Business equipment		7.45	83.9	87.1	87.0	87.8	88.6	89.6	91.4	89.7	92.3
Construction supplies		5.64	107.8	110.1	111.1	113.8	114.7	116.1	117.1	113.0	118.0
Business supplies		5.96	87.9	90.1	90.5	92.6	92.7	93.1	93.1	90.6	92.4
Materials		25.44	93.3	95.0	95.8	97.9	99.0	99.6	101.1	96.1	99.2
Measures excluding selected high-technology											
industries											
Total industry			1								
Manufacturing <sup>1</sup>		98.19	100.8	101.8	101.6	102.7	103.7	104.7	105.7	102.9	104.4
		98.19 73.46	100.8 96.1	101.8 97.8	101.6 97.8	102.7 99.2	103.7 100.2	104.7 100.9	105.7 102.2	102.9 98.3	104.4 101.0
Durable		73.46	96.1	97.8	97.8	99.2	100.2	100.9	102.2	98.3	101.0
Durable  Measures excluding motor vehicles and parts											
Measures excluding motor vehicles and parts		73.46 35.41	96.1 97.2	97.8 98.5	97.8 98.6	99.2 99.9	100.2 101.2	100.9 101.6	102.2 103.4	98.3 99.8	101.0 102.8
Measures excluding motor vehicles and parts Total industry		73.46 35.41 95.07	96.1 97.2 100.4	97.8 98.5	97.8 98.6 101.7	99.2 99.9 102.9	100.2 101.2	100.9 101.6 104.8	102.2 103.4 105.8	98.3 99.8 103.5	101.0 102.8 104.9
Measures excluding motor vehicles and parts		73.46 35.41	96.1 97.2	97.8 98.5	97.8 98.6	99.2 99.9	100.2 101.2	100.9 101.6	102.2 103.4	98.3 99.8	101.0 102.8
Measures excluding motor vehicles and parts Total industry Manufacturing <sup>1</sup> Durable Measures excluding selected high-technology		73.46 35.41 95.07 70.35	96.1 97.2 100.4 95.4	97.8 98.5 101.7 97.5	97.8 98.6 101.7 97.7	99.2 99.9 102.9 99.3	100.2 101.2 103.7 100.0	100.9 101.6 104.8 100.9	102.2 103.4 105.8 102.2	98.3 99.8 103.5 98.9	101.0 102.8 104.9 101.6
Measures excluding motor vehicles and parts Total industry Manufacturing¹ Durable Measures excluding selected high-technology industries and motor vehicles and parts		73.46 35.41 95.07 70.35 32.29	96.1 97.2 100.4 95.4 95.6	97.8 98.5 101.7 97.5 97.9	97.8 98.6 101.7 97.7 98.5	99.2 99.9 102.9 99.3 100.1	100.2 101.2 103.7 100.0 100.9	100.9 101.6 104.8 100.9 101.5	102.2 103.4 105.8 102.2 103.5	98.3 99.8 103.5 98.9 101.2	101.0 102.8 104.9 101.6 104.2
Measures excluding motor vehicles and parts Total industry Manufacturing <sup>1</sup> Durable Measures excluding selected high-technology		73.46 35.41 95.07 70.35	96.1 97.2 100.4 95.4	97.8 98.5 101.7 97.5	97.8 98.6 101.7 97.7	99.2 99.9 102.9 99.3	100.2 101.2 103.7 100.0	100.9 101.6 104.8 100.9	102.2 103.4 105.8 102.2	98.3 99.8 103.5 98.9	101.0 102.8 104.9 101.6
Measures excluding motor vehicles and parts Total industry Manufacturing¹ Durable Measures excluding selected high-technology industries and motor vehicles and parts Total industry Manufacturing¹ Stage-of-process components of non-energy		73.46 35.41 95.07 70.35 32.29	96.1 97.2 100.4 95.4 95.6	97.8 98.5 101.7 97.5 97.9	97.8 98.6 101.7 97.7 98.5	99.2 99.9 102.9 99.3 100.1	100.2 101.2 103.7 100.0 100.9	100.9 101.6 104.8 100.9 101.5	102.2 103.4 105.8 102.2 103.5	98.3 99.8 103.5 98.9 101.2	101.0 102.8 104.9 101.6 104.2
Measures excluding motor vehicles and parts  Total industry  Manufacturing¹ Durable  Measures excluding selected high-technology industries and motor vehicles and parts  Total industry Manufacturing¹  Stage-of-process components of non-energy materials, measures of the input to		73.46 35.41 95.07 70.35 32.29 93.26 68.53	96.1 97.2 100.4 95.4 95.6 99.2 93.6	97.8 98.5 101.7 97.5 97.9 100.5 95.7	97.8 98.6 101.7 97.7 98.5 100.5 95.9	99.2 99.9 102.9 99.3 100.1 101.6 97.4	100.2 101.2 103.7 100.0 100.9 102.4 98.2	100.9 101.6 104.8 100.9 101.5	102.2 103.4 105.8 102.2 103.5	98.3 99.8 103.5 98.9 101.2 102.2 97.1	101.0 102.8 104.9 101.6 104.2 103.6 99.7
Measures excluding motor vehicles and parts Total industry Manufacturing¹ Durable Measures excluding selected high-technology industries and motor vehicles and parts Total industry Manufacturing¹ Stage-of-process components of non-energy		73.46 35.41 95.07 70.35 32.29	96.1 97.2 100.4 95.4 95.6	97.8 98.5 101.7 97.5 97.9	97.8 98.6 101.7 97.7 98.5	99.2 99.9 102.9 99.3 100.1	100.2 101.2 103.7 100.0 100.9	100.9 101.6 104.8 100.9 101.5	102.2 103.4 105.8 102.2 103.5	98.3 99.8 103.5 98.9 101.2	101.0 102.8 104.9 101.6 104.2

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Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2019	45.8	43.5	47.8	43.5	50.5	53.2	47.2	59.2	47.8	39.1	57.5	50.5
2020	55.5	49.0	24.4	11.4	56.9	75.6	74.4	68.6	57.5	69.2	64.5	59.9
2021	65.2	33.4										
Three months earlier												
2019	48.5	44.1	43.8	38.8	41.8	51.2	49.2	55.9	48.5	49.8	48.5	50.5
2020	63.2	53.8	25.1	8.4	12.4	28.8	75.3	84.3	81.6	74.6	68.6	71.2
2021	70.2	52.2										
Six months earlier												
2019	51.2	45.2	42.5	35.8	40.1	43.1	37.8	47.8	46.5	46.2	50.2	49.2
2020	54.5	51.2	24.1	11.0	11.4	16.1	25.8	31.1	47.2	83.3	87.3	84.3
2021	78.3	64.2										

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

<sup>1.</sup> The composition of manufacturing is specified in a note for the summary table.

Table 7 CAPACITY UTILIZATION Percent of capacity, seasonally adjusted

1 3, 3			1972-	1994-										
Item		2020	2020	95	2009	2020		2021	2020			2021		
110111		proportion	ave.	high	low	O3	O4 <sup>r</sup>	O1 <sup>p</sup>	Oct.r	Nov.r	Dec.r	Jan. <sup>r</sup>	Feb.r	Mar.p
		proportion	u v c i		1011	- Qu	Ψ.	Α.	000	11011		o carri	100.	
Total industry		100.00	79.6	85.0	66.7	72.2	73.9	74.4	73.2	73.9	74.7	75.3	73.4	74.4
y														
Manufacturing <sup>1</sup>		76.85	78.1	84.6	63.7	70.9	73.1	73.4	72.4	73.1	73.7	74.6	71.9	73.8
Manufacturing (NAICS)	31-33	74.64	78.0	84.7	63.5	71.5	73.6	74.0	72.9	73.7	74.3	75.3	72.4	74.4
manufacturing (Filliag)	01 00	,	70.0	0	00.0	, 110	75.0	,	/ 2.7	,,,,,	,	70.0	,	,
Durable manufacturing		38.84	76.6	83.7	58.4	70.1	72.2	72.9	71.5	72.4	72.6	73.9	71.4	73.5
Wood products	321	1.48	76.6	86.6	47.8	74.1	76.5	77.6	75.4	75.8	78.5	78.3	76.3	78.1
Nonmetallic mineral products	327	2.64	73.6	82.5	46.5	63.2	65.4	64.1	64.4	64.9	66.9	65.7	62.2	64.5
Primary metals	331	3.12	77.5	94.1	48.7	59.2	65.7	67.4	63.8	66.8	66.5	67.4	66.4	68.4
Fabricated metal products	332	5.45	77.6	84.8	62.0	74.2	76.5	78.5	75.9	76.7	77.0	78.8	76.7	80.0
Machinery	333	5.33	77.4	87.3	59.8	72.1	75.0	77.4	74.9	74.4	75.6	77.9	76.0	78.2
Computer and electronic products	334	5.26	77.1	84.2	70.1	72.0	71.6	71.3	71.4	71.8	71.5	71.6	70.6	71.7
Electrical equip., appliances,														
and components	335	1.88	81.5	92.8	67.0	69.1	71.9	73.4	71.5	71.8	72.3	74.1	72.7	73.4
Motor vehicles and parts	3361-3	5.53	74.9	87.6	33.7	77.3	76.5	73.1	75.2	77.4	76.8	77.6	69.8	71.8
Aerospace and miscellaneous			,											
transportation equipment	3364-9	4.23	74.0	70.9	72.7	62.9	66.7	70.0	66.5	67.3	66.3	69.2	69.0	71.9
Furniture and related products	337	1.19	76.8	82.8	56.4	69.2	69.7	71.2	69.7	69.1	70.3	72.2	69.9	71.5
Miscellaneous	339	2.73	76.5	81.1	67.9	69.6	71.5	73.3	70.6	71.7	72.2	73.9	72.3	73.8
17110COTTAITO GAS	007	2.75	, 0.5	01.1	07.5	07.0	, 110	70.0	70.0	,	, _,_	,,,,	, 2.0	75.0
Nondurable manufacturing		35.80	79.8	86.1	68.8	72.8	75.1	75.2	74.4	75.0	76.0	76.6	73.5	75.4
Food, beverage, and tobacco products	311,2	11.56	80.2	85.3	75.6	74.7	76.0	77.0	74.9	76.0	77.0	77.6	76.0	77.3
Textile and product mills	313,4	.69	78.3	91.8	53.9	63.2	65.3	67.2	65.4	64.3	66.1	66.7	66.7	68.1
Apparel and leather	315,6	.21	75.4	87.0	56.6	56.8	61.6	64.7	61.6	61.1	62.2	64.8	63.8	65.4
Paper	322	2.14	86.6	92.7	72.9	79.7	84.3	84.6	83.9	84.0	85.0	84.6	84.3	85.0
Printing and support	323	1.33	79.1	85.4	58.8	61.7	65.6	64.7	65.6	65.4	66.0	64.9	63.6	65.5
Petroleum and coal products	324	3.20	84.6	91.2	76.1	67.8	70.3	74.1	69.3	69.5	72.0	75.1	71.6	75.6
Chemicals	325	13.16	76.6	82.0	64.7	73.2	75.9	73.9	75.1	76.0	76.7	77.0	70.9	73.8
Plastics and rubber products	326	3.52	81.7	93.2	57.6	72.5	74.8	75.8	74.8	74.4	75.3	76.2	76.1	75.2
Other manufacturing (non-NAICS)	1133,5111	2.21	78.9	83.3	68.0	52.2	54.6	52.4	56.4	54.8	52.5	53.5	51.7	52.0
Mining	21	12.39	87.0	88.6	78.3	77.5	78.9	80.7	76.7	79.7	80.2	82.1	77.7	82.2
Utilities	2211,2	10.76	84.9	93.2	78.2	74.2	72.9	72.7	73.4	71.3	73.9	71.4	77.8	68.8
Selected high-technology industries		1.90	77.1	86.2	71.1	71.9	73.3	73.3	73.6	73.5	73.0	73.2	73.0	73.9
Computers and peripheral equipment	3341	.31	77.6	86.8	82.9	75.6	77.3	76.7	77.1	77.5	77.2	76.0	75.8	78.4
Communications equipment	3342	.60	75.4	86.1	77.1	55.6	56.7	57.1	56.4	56.8	57.0	57.3	56.6	57.4
Semiconductors and related														
electronic components	3344	.98	78.7	92.0	62.9	80.2	81.9	81.8	82.6	82.0	81.1	81.6	81.6	82.1
Measures excluding selected														
high-technology industries					,									
Total industry		98.10	79.7	84.9	66.5	72.2	73.9	74.4	73.2	73.9	74.7	75.4	73.4	74.4
Manufacturing <sup>1</sup>		74.95	78.1	84.5	63.3	70.9	73.1	73.4	72.4	73.1	73.7	74.7	71.8	73.8
STAGE-OF-PROCESS GROUPS				000	<b>-</b>		06.5	<b>=</b> 0.0		0	0: -	00.0		06 :
Crude		16.69	86.1	90.0	76.4	77.7	80.3	79.8	78.3	81.0	81.7	83.0	76.2	80.4
Primary and semifinished		45.02	80.1	87.8	63.9	70.3	72.1	72.5	72.0	71.7	72.7	72.9	72.6	71.9
Finished		38.29	76.6	80.6	66.5	71.6	72.8	73.8	72.0	72.9	73.5	74.5	72.6	74.4
			1											

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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
		Average a	nnual rate		Fourth	quarter to	o fourth o	luarter		Annua	al rate		rate
Item	1972-	1980-	1989-	1995-					2020			2021	2021
	79	88	94	2021	2018	2019	2020	2021	Q2	Q3	Q4	Q1	Mar.
Total industry	3.0	1.9	2.3	1.9	1.5	2.1	.0	.5	1	3	2	.2	.0
Manufacturing <sup>1</sup>	3.2	2.2	2.6	1.8	.7	1.4	2	.2	2	4	4	1	.0
Mining	.7	.1	7	1.2	7.4	5.8	-2.1	-1.7	-2.3	-3.2	-2.9	-2.3	2
Utilities	4.4	2.2	1.8	1.8	1.7	2.5	3.2	2.6	3.2	3.3	3.2	2.9	.2
61.4.11.1.4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	10.6	167	16.1	16.2	2.0	7.1	4.7	(1	4.0	1.2	1.0	5.2	-
Selected high-technology industries	18.6	16.7	16.1	16.3	3.0	7.1	4.7	6.1	4.8	4.2	4.0	5.3	.5
Manufacturing <sup>1</sup> ex. selected high-technology industries	2.6	1.3	1.6	.7	.6	1.2	3	.1	3	5	6	2	.0
STAGE-OF-PROCESS GROUPS													
Crude	1.5	.4	5	1.1	5.3	4.4	-1.7	-1.1	-1.8	-2.5	-2.3	-1.7	1
Primary and semifinished	3.0	1.4	2.5	2.0	.8	1.6	.3	.7	.3	.1	.1	.4	.0
Finished	3.9	3.3	2.8	1.7	1.0	1.6	.3	.4	.4	.1	.1	.2	.0

<sup>1.</sup> 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

mions of 2012 donars at aimaar rate, seaso	narry adjusted										
			2020		2021	2020			2021		
Item	2012	2020	Q3	Q4 <sup>r</sup>	Q1 <sup>p</sup>	Oct.r	Nov. <sup>r</sup>	Dec.r	Jan. <sup>r</sup>	Feb.r	Mar. <sup>p</sup>
Final products and nonindustrial supplies	4,020.4	3,981.0	4,089.8	4,162.2	4,186.1	4,128.8	4,157.1	4,200.7	4,241.9	4,137.6	4,178.7
Final products	3,059.0	2,997.8	3,118.0	3,148.0	3,162.5	3,126.1	3,145.3	3,172.7	3,204.5	3,129.0	3,153.9
Consumer goods	2,238.8	2,293.0	2,393.9	2,397.3	2,400.9	2,382.0	2,388.5	2,421.3	2,433.1	2,384.1	2,385.4
Durable	436.9	477.9	548.6	546.2	531.7	538.8	550.0	549.8	557.6	513.5	524.0
Automotive products	272.6	308.0	377.2	368.0	348.2	361.1	373.0	369.7	371.6	332.7	340.5
Other durable goods	164.3	169.9	172.0	178.6	183.6	178.1	177.4	180.4	186.3	180.8	183.6
Nondurable	1,801.9	1,817.5	1,842.3	1,848.5	1,868.3	1,841.0	1,835.4	1,869.1	1,872.6	1,871.4	1,861.0
Equipment, total	820.2	712.4	732.7	758.1	768.6	751.5	763.8	759.2	778.5	752.4	775.0
Business and defense	784.9	694.7	718.3	742.4	750.6	736.2	748.2	742.8	760.9	734.6	756.4
Business	654.7	564.4	586.9	607.8	611.5	600.8	612.1	610.5	623.0	598.1	613.5
Defense and space	130.2	129.3	130.7	133.9	138.2	134.6	135.4	131.7	137.2	135.6	141.9
Nonindustrial supplies	961.4	983.4	972.1	1,014.4	1,023.8	1,002.9	1,012.1	1,028.2	1,037.6	1,008.7	1,025.0
Construction supplies	274.1	304.1	300.1	315.8	319.7	312.4	315.1	320.1	322.5	311.9	324.9
Business supplies	687.3	675.5	668.4	694.1	699.2	686.1	692.6	703.7	710.7	693.0	694.0
Commercial energy products	264.8	256.2	251.1	261.7	269.2	255.2	260.3	269.6	276.7	269.8	261.0

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

Percent change, seasonally adjusted														
		Fou	rth quarte	er to										
		fo	urth quar	ter	1	Annual 1	ate			Month	ıly rate			Mar. '20
Item	2020				2020		2021	2020			2021			to
	gross value1	2018	2019	2020	Q3	Q4 <sup>r</sup>	Q1 <sup>p</sup>	Oct.r	Nov.r	Dec.r	Jan. <sup>r</sup>	Feb.r	Mar.p	Mar. '21
Finished	2,231.4	2.8	-1.1	-1.1	109.7	6.8	2.7	.9	1.4	.4	1.5	-3.3	2.1	7.3
Semifinished	1,907.2	2.2	-1.4	-2.3	61.7	10.2	4.3	1.7	1	1.7	.4	6	2	3.4
Primary	1,740.8	2.3	-2.3	-7.6	36.8	8.3	2.0	1.2	.1	.9	1.3	-2.2	.2	9
Crude	976.6	7.8	.2	-5.9	9.6	15.3	-11.3	1.7	2.7	.2	1.4	-10.4	5.9	-7.0

r Revised. p Preliminary.

<sup>1.</sup> Billions of 2012 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	Annu
P (percent																	
change) <sup>1</sup>																	
1999	.5	.5	.2	.3	.7	2	.6	.4	4	1.3	.5	.8	4.5	3.9	3.6	7.3	4.
2000	.0	.3	.4	.7	.2	.1	2	3	.4	3	.0	3	4.1	4.9	4	8	3.
2001	6	6	2	3	6	6	6	1	4	4	5	.0	-5.2	-5.0	-5.4	-4.1	-3
2002	.6	.0	.8	.4	.4	1.0	2	.0	.1	3	.5	5	3.0	6.4	2.4	1	
2003	.8	.1	2	7	.0	.2	.4	1	.6	.1	.8	1	2.5	-3.0	2.7	4.0	1.
.004	.3	.6	5	.5	.8	8	.8	.1	.1	1.0	.2	.7	2.8	2.3	2.2	5.8	2
2005	.5	.7	2	.2	.1	.4	3	.3	-1.9	1.3	1.0	.6	5.9	2.0	-1.8	3.9	3
006	.1	.0	.2	.4	1	.4	.0	.4	2	1	1	1.0	3.8	2.4	1.5	.9	2
007	5	1.0	.2	.7	.0	.0	.0	.2	.4	4	.6	.0	3.6	5.0	1.1	1.2	2
008	3	3	2	8	6	2	5	-1.5	-4.3	1.0	-1.3	-2.9	-1.5	-5.8	-12.5	-16.0	-3
009	-2.4	6	-1.6	8	-1.0	4	1.1	1.1	.8	.3	.4	.3	-20.6	-10.9	6.1	6.4	-11
010	1.2	.4	.7	.4	1.5	.1	.4	.3	.2	3	.0	1.0	8.1	8.1	5.3	1.3	5
011	1	4	1.0	4	.2	.3	.5	.6	.0	.7	1	.6	2.3	1.6	4.8	4.0	3
012	.6	.2	5	.8	.2	.0	.3	5	.0	.2	.5	.4	3.9	2.6	.0	2.1	3
013	1	.6	.4	2	.1	.2	4	.7	.5	2	.3	.3	3.2	1.7	1.4	2.8	2
014	4	.8	1.0	.0	.4	.4	.2	1	.3	.0	.8	1	3.1	5.5	2.4	2.7	3
014	4	.8 5	3	6	4	3	.6	1	4	4	7	1 6	-3.0	-5.3	1	-5.1	-1
016	.8	7	8	.1	1	.4	.3	1	.0	.2	2	.9	-2.1	-2.3	1.8	1.3	-2
017	.1	4	.7	.9	.1	.2	.0	5	.0	1.5	.5	.3	2.4	5.6	8	7.5	2
018	3	.4	.6	.9	8	.8	.4	.8	.1	.2	.5	.0	2.3	4.6	5.2	3.9	3
)19	4	5	.1	6	.2	.0	2	.7	3	4	.9	4	-1.9	-2.3	1.1	.4	
020	4	.1	-4.4	-12.7	.9	6.2	4.2	1.0	1	1.1	.9	1.0	-6.8	-42.6	43.3	9.5	-(
)21	.9	-2.6	1.4		.,	U.L		2.0			.,	1.0	2.5	.2.0	10.0	7.0	
P (2012=100)																	
)19	110.1	109.6	109.7	109.0	109.2	109.3	109.1	109.9	109.5	109.0	110.0	109.7	109.8	109.2	109.5	109.6	109
)20	109.2	109.3	104.5	91.3	92.1	97.8	101.9	102.9	102.8	103.9	104.8	105.9	107.7	93.7	102.5	104.9	101
021	106.9	104.1	105.6										105.5				
Capacity																	
percent of																	
012 output)																	
019	139.4	139.6	139.9	140.2	140.4	140.6	140.9	141.1	141.4	141.6	141.9	142.1	139.6	140.4	141.1	141.9	140
020	142.0	142.1	142.1	142.1	142.0	142.0	142.0	141.9	141.9	141.9	141.8	141.8	142.1	142.0	141.9	141.8	142
021	141.9	141.9	141.9										141.9				
tilization																	
percent)																	
999	81.9	82.0	81.8	81.7	81.9	81.5	81.7	81.7	81.1	81.9	82.0	82.3	81.9	81.7	81.5	82.1	81
000	82.1	82.0	82.0	82.3	82.2	82.0	81.6	81.1	81.2	80.7	80.4	80.0	82.0	82.2	81.3	80.4	81
001	79.2	78.4	78.0	77.6	76.9	76.2	75.6	75.3	74.8	74.3	73.8	73.7	78.6	76.9	75.2	74.0	76
002	74.0	73.9	74.4	74.6	74.9	75.5	75.3	75.3	75.4	75.2	75.6	75.2	74.1	75.0	75.3	75.3	74
003	75.8	75.9	75.8	75.3	75.3	75.5	75.8	75.8	76.2	76.3	76.9	76.9	75.9	75.4	75.9	76.7	7
004	77.1	77.6	77.2	77.6	78.2	77.6	78.2	78.2	78.3	79.0	79.1	79.7	77.3	77.8	78.2	79.3	7
005	80.0	80.5	80.3	80.3	80.3	80.5	80.2	80.3	78.7	79.6	80.3	80.7	80.2	80.4	79.7	80.2	80
006	80.7	80.6	80.6	80.8	80.6	80.8	80.6	80.8	80.5	80.2	80.0	80.6	80.6	80.7	80.6	80.3	80
007	80.0	80.6	80.6	81.0	80.9	80.8	80.6	80.7	81.0	80.6	81.1	81.1	80.4	80.9	80.8	80.9	80
008	80.9	80.7	80.6	80.0	79.6	79.5	79.0	77.8	74.4	75.0	74.0	71.7	80.8	79.7	77.1	73.6	73
009	70.0	69.4	68.3	67.7	67.0	66.7	67.4	68.2	68.8	69.1	69.5	69.9	69.2	67.1	68.2	69.5	68
010	70.8	71.2	71.8	72.3	73.5	73.8	74.2	74.6	74.9	74.8	74.9	75.6	71.3	73.2	74.6	75.1	7.
011	75.6	75.3	76.0	75.7	75.8	75.9	76.2	76.6	76.4	76.8	76.6	76.9	75.6	75.8	76.4	76.8	76
012	77.2	77.2	76.7	77.2	77.2	77.0	77.1	76.6	76.5	76.6	76.8	77.0	77.1	77.1	76.7	76.8	76
013	76.7	77.1	77.3	77.1	77.0	77.1	76.7	77.2	77.5	77.3	77.4	77.6	77.0	77.1	77.1	77.5	73
014	77.2	77.8	78.5	78.4	78.6	78.8	78.9	78.7	78.8	78.7	79.2	79.0	77.8	78.6	78.8	79.0	78
)15	78.6	78.1	77.8	77.3	76.9	76.6	77.0	76.9	76.6	76.3	75.7	75.3	78.1	76.9	76.8	75.8	7.
)16	75.9	75.3	74.7	77.3 74.7	74.6	74.9	75.1	75.0	74.9	75.0	74.9	75.5 75.5	75.3	74.8	75.0	75.8	7:
)17	75.5	75.2	75.7	76.4	76.5	76.6	76.5	76.2	76.1	77.3	77.6	77.9	75.5	76.5	76.3	77.6	7.
)18	77.6	77.8	78.2	78.8	78.1	78.6	78.8	79.3	79.3	79.3	79.6	79.5	77.9	78.5	79.1	79.4	7:
)19	79.0	78.5	78.4	77.8	77.8	77.7	77.4	77.8	77.4	77.0	77.6	77.2	78.6	77.8	77.6	77.2	7
)20	76.9	76.9	73.6	64.2	64.8	68.9	71.8	72.5	72.5	73.2	73.9	74.7	75.8 74.4	66.0	72.2	73.9	72
021	75.3	73.4	74.4														

<sup>1.</sup> 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 <sup>1</sup> Seasonally adjusted

easonally adjusted																	
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annua
<b>IP</b> (percent change) <sup>2</sup>																	
1999	.3	.8	1	.4	.9	3	.5	.6	4	1.5	.6	.7	5.1	4.5	3.2	8.7	5.1
2000	.1	.2	.6	.7	1	.2	.1	7	.4	3	3	6	4.5	4.8	4	-2.4	4.1
2001	6	6	2	3	6	7	5	5	2	6	3	.3	-6.0	-5.2	-5.8	-3.8	-3.7
2002	.6	.0	.8	.2	.5	1.1	3	.2	.1	4	.5	5	3.6	5.8	3.1	3	
2003	.7	1	.1	9	.1	.5	.2	4	.8	.1	1.0	2	2.1	-2.2	2.5	4.4	1.3
2004 2005	.0	.8 .8	2 5	.4 .4	.8	7 .1	.9 3	.5 .5	.0 -1.0	1.0 1.5	1 .8	.7 .2	2.6 6.6	3.3 2.3	4.0 7	5.5 6.4	3.1
2006	.8	3	.0	.5	4	.4	3	.7	.1	4	.0	1.4	3.8	.8	1.0	1.5	2.6
2007	5	.4	.9	.7	1	.3	.1	3	.5	3	.6	.1	4.0	5.9	1.1	1.2	2.3
2008	4	6	3	-1.1	5	7	-1.2	-1.2	-3.5	6	-2.4	-3.5	-2.6	-8.2	-14.0	-21.9	-4.8
2009	-3.0	1	-1.9	7	-1.1	3	1.5	1.1	.9	.2	1.0	2	-24.4	-10.6	8.1	7.1	-13.8
2010	1.1	.0	1.2	.8	1.4	1	.6	.1	.0	.1	.0	.5	6.9	10.4	4.2	1.2	5.8
2011	.2	.1	.6	6	.1	.1	.6	.4	.3	.5	3	.7	3.1	1	4.5	3.8	2.9
2012	.8	.3	5	.5	4	.2	1	2	1	4	.7	.8	5.2	.6	-1.1	1.2	2.0
2013	3	.5	1	4	.3	.2	9	.9	.1	.1	.0	.0	2.9	1	1	1.7	2.
2014	-1.1	1.0	.8	2	.3	.4	.4 .7	5	.0	1	.8	3	8	4.3	1.6	.5	1.1
2015 2016	4 .7	7 6	.3 2	1 4	.0 .0	4 .3	.7	3 4	4 .4	.0 .3	3 .1	3 .3	-2.9 3	-1.2 -2.4	.2 1.2	-2.8 2.5	: :
2017	.6	0	3	1.1	2	.1	2	3	2	1.3	.3	1	3.0	3.4	-1.6	5.3	2.0
2018	4	1.1	.0	.4	8	.7	.4	.4	.0	1	.2	.6	1.6	2.0	3.6	1.5	2.3
2019	6	5	1	9	.1	.6	4	.6	6	6	.9	.2	-1.8	-3.3	.7	5	2
2020	1	.0	-5.0	-15.8	3.8	7.7	4.2	1.7	.1	1.5	.9	.7	-5.5	-46.5	57.5	12.4	-6.8
2021	1.3	-3.7	2.7										1.9				
<b>IP</b> (2012=100)																	
2019	105.8	105.3	105.2	104.3	104.4	105.0	104.6	105.2	104.5	103.9	104.9	105.1	105.5	104.6	104.8	104.6	104.
2020	105.0 103.9	104.9 100.0	99.6 102.8	83.9	87.0	93.8	97.7	99.4	99.4	100.9	101.9	102.6	103.2	88.2	98.8	101.8	97.1
2021  Capacity (percent of	103.9	100.0	102.8										102.2				
2012 output) 2019	137.9	138.0	138.2	138.3	138.5	138.7	138.8	139.0	139.2	139.3	139.5	139.7	138.0	138.5	139.0	139.5	138.8
2020	137.9	139.6	139.6	139.6	139.6	139.5	139.5	139.4	139.4	139.3	139.3	139.7	139.6	139.6	139.0	139.3	139.5
2020	139.0	139.0	139.0	139.0	139.0	139.3	139.3	137.4	137.4	139.3	139.3	139.2	139.0	139.0	137.4	139.3	139
Utilization																	
(nercent)																	
	80.7	81.0	80.5	80.5	80.8	80.2	80.2	80.4	79.7	80.6	80.7	80.9	80.7	80.5	80.1	80.7	80
(percent) 1999 2000	80.7 80.7	81.0 80.5	80.5 80.7	80.5 80.9	80.8 80.5	80.2 80.3	80.2 80.1	80.4 79.3	79.7 79.3	80.6 78.8	80.7 78.3	80.9 77.6	80.7 80.6	80.5 80.6	80.1 79.6	80.7 78.2	80 79.
1999 2000																	79.
1999 2000 2001 2002	80.7 76.8 72.1	80.5 76.1 71.9	80.7 75.7 72.4	80.9 75.2 72.5	80.5 74.5 72.9	80.3 73.8 73.6	80.1 73.3 73.4	79.3	79.3 72.5 73.6	78.8 71.9 73.3	78.3 71.6 73.6	77.6 71.7 73.3	80.6 76.2 72.1	80.6 74.5 73.0	79.6 72.9 73.5	78.2 71.8 73.4	79. 73. 73.
1999 2000 2001 2002	80.7 76.8	80.5 76.1	80.7 75.7	80.9 75.2	80.5 74.5	80.3 73.8	80.1 73.3	79.3 72.8	79.3 72.5	78.8 71.9	78.3 71.6	77.6 71.7	80.6 76.2	80.6 74.5	79.6 72.9	78.2 71.8	79. 73. 73.
1999 2000 2001 2002 2003 2004	80.7 76.8 72.1 73.8 75.0	80.5 76.1 71.9 73.7 75.6	80.7 75.7 72.4 73.8 75.5	80.9 75.2 72.5 73.2 75.8	80.5 74.5 72.9 73.3 76.4	80.3 73.8 73.6 73.7 75.9	80.1 73.3 73.4 73.9 76.6	79.3 72.8 73.5 73.6 76.9	79.3 72.5 73.6 74.2 76.9	78.8 71.9 73.3 74.3	78.3 71.6 73.6 75.1 77.5	77.6 71.7 73.3 75.0 77.9	80.6 76.2 72.1 73.8 75.4	80.6 74.5 73.0 73.4 76.1	79.6 72.9 73.5 73.9 76.8	78.2 71.8 73.4 74.8 77.7	79. 73. 73. 74.
1999 2000 2001 2002 2003 2004 2005	80.7 76.8 72.1 73.8 75.0 78.4	80.5 76.1 71.9 73.7 75.6 79.0	80.7 75.7 72.4 73.8 75.5 78.4	80.9 75.2 72.5 73.2 75.8 78.6	80.5 74.5 72.9 73.3 76.4 78.7	80.3 73.8 73.6 73.7 75.9 78.6	80.1 73.3 73.4 73.9 76.6 78.2	79.3 72.8 73.5 73.6 76.9 78.4	79.3 72.5 73.6 74.2 76.9 77.5	78.8 71.9 73.3 74.3 77.6 78.5	78.3 71.6 73.6 75.1 77.5 78.9	77.6 71.7 73.3 75.0 77.9 78.9	80.6 76.2 72.1 73.8 75.4 78.6	80.6 74.5 73.0 73.4 76.1 78.6	79.6 72.9 73.5 73.9 76.8 78.0	78.2 71.8 73.4 74.8 77.7 78.8	79. 73. 73. 74. 76. 78.
1999 2000 2001 2002 2003 2004 2005 2006	80.7 76.8 72.1 73.8 75.0 78.4 79.4	80.5 76.1 71.9 73.7 75.6 79.0 79.1	80.7 75.7 72.4 73.8 75.5 78.4 78.9	80.9 75.2 72.5 73.2 75.8 78.6 79.2	80.5 74.5 72.9 73.3 76.4 78.7 78.7	80.3 73.8 73.6 73.7 75.9 78.6 78.9	80.1 73.3 73.4 73.9 76.6 78.2 78.5	79.3 72.8 73.5 73.6 76.9 78.4 78.9	79.3 72.5 73.6 74.2 76.9 77.5 78.8	78.8 71.9 73.3 74.3 77.6 78.5 78.3	78.3 71.6 73.6 75.1 77.5 78.9 78.2	77.6 71.7 73.3 75.0 77.9 78.9 79.1	80.6 76.2 72.1 73.8 75.4 78.6 79.1	80.6 74.5 73.0 73.4 76.1 78.6 78.9	79.6 72.9 73.5 73.9 76.8 78.0 78.7	78.2 71.8 73.4 74.8 77.7 78.8 78.5	79. 73. 73. 74. 76. 78.
1999 2000 2001 2002 2003 2004 2005 2006 2007	80.7 76.8 72.1 73.8 75.0 78.4	80.5 76.1 71.9 73.7 75.6 79.0	80.7 75.7 72.4 73.8 75.5 78.4	80.9 75.2 72.5 73.2 75.8 78.6	80.5 74.5 72.9 73.3 76.4 78.7	80.3 73.8 73.6 73.7 75.9 78.6	80.1 73.3 73.4 73.9 76.6 78.2	79.3 72.8 73.5 73.6 76.9 78.4	79.3 72.5 73.6 74.2 76.9 77.5	78.8 71.9 73.3 74.3 77.6 78.5	78.3 71.6 73.6 75.1 77.5 78.9	77.6 71.7 73.3 75.0 77.9 78.9	80.6 76.2 72.1 73.8 75.4 78.6	80.6 74.5 73.0 73.4 76.1 78.6	79.6 72.9 73.5 73.9 76.8 78.0	78.2 71.8 73.4 74.8 77.7 78.8	79. 73. 73. 74. 76. 78. 78.
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	80.7 76.8 72.1 73.8 75.0 78.4 79.4 78.5 78.6	80.5 76.1 71.9 73.7 75.6 79.0 79.1 78.6 78.1	80.7 75.7 72.4 73.8 75.5 78.4 78.9 79.1 77.8	80.9 75.2 72.5 73.2 75.8 78.6 79.2 79.4 77.0	80.5 74.5 72.9 73.3 76.4 78.7 78.7 79.1 76.7	80.3 73.8 73.6 73.7 75.9 78.6 78.9 79.2 76.2	80.1 73.3 73.4 73.9 76.6 78.2 78.5 79.1 75.4	79.3 72.8 73.5 73.6 76.9 78.4 78.9 78.7 74.6	79.3 72.5 73.6 74.2 76.9 77.5 78.8 78.9 72.1	78.8 71.9 73.3 74.3 77.6 78.5 78.3 78.6 71.8	78.3 71.6 73.6 75.1 77.5 78.9 78.2 78.9 70.2	77.6 71.7 73.3 75.0 77.9 78.9 79.1 78.9 67.8	80.6 76.2 72.1 73.8 75.4 78.6 79.1 78.7 78.2	80.6 74.5 73.0 73.4 76.1 78.6 78.9 79.3 76.6	79.6 72.9 73.5 73.9 76.8 78.0 78.7 78.9 74.1	78.2 71.8 73.4 74.8 77.7 78.8 78.5 78.8 69.9	79. 73. 73. 74. 76. 78. 78. 74.
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	80.7 76.8 72.1 73.8 75.0 78.4 79.4 78.5 78.6	80.5 76.1 71.9 73.7 75.6 79.0 79.1 78.6	80.7 75.7 72.4 73.8 75.5 78.4 78.9 79.1	80.9 75.2 72.5 73.2 75.8 78.6 79.2 79.4 77.0	80.5 74.5 72.9 73.3 76.4 78.7 78.7 79.1 76.7	80.3 73.8 73.6 73.7 75.9 78.6 78.9 79.2 76.2	80.1 73.3 73.4 73.9 76.6 78.2 78.5 79.1 75.4	79.3 72.8 73.5 73.6 76.9 78.4 78.9 78.7 74.6	79.3 72.5 73.6 74.2 76.9 77.5 78.8 78.9 72.1	78.8 71.9 73.3 74.3 77.6 78.5 78.3 78.6 71.8	78.3 71.6 73.6 75.1 77.5 78.9 78.2 78.9	77.6 71.7 73.3 75.0 77.9 78.9 79.1 78.9	80.6 76.2 72.1 73.8 75.4 78.6 79.1 78.7 78.2	80.6 74.5 73.0 73.4 76.1 78.6 78.9 79.3	79.6 72.9 73.5 73.9 76.8 78.0 78.7 78.9 74.1	78.2 71.8 73.4 74.8 77.7 78.8 78.5 78.8 69.9	79. 73. 73. 74. 76. 78. 78.
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	80.7 76.8 72.1 73.8 75.0 78.4 79.4 78.5 78.6	80.5 76.1 71.9 73.7 75.6 79.0 79.1 78.6 78.1	80.7 75.7 72.4 73.8 75.5 78.4 78.9 79.1 77.8	80.9 75.2 72.5 73.2 75.8 78.6 79.2 79.4 77.0	80.5 74.5 72.9 73.3 76.4 78.7 78.7 79.1 76.7	80.3 73.8 73.6 73.7 75.9 78.6 78.9 79.2 76.2	80.1 73.3 73.4 73.9 76.6 78.2 78.5 79.1 75.4	79.3 72.8 73.5 73.6 76.9 78.4 78.9 78.7 74.6	79.3 72.5 73.6 74.2 76.9 77.5 78.8 78.9 72.1	78.8 71.9 73.3 74.3 77.6 78.5 78.3 78.6 71.8	78.3 71.6 73.6 75.1 77.5 78.9 78.2 78.9 70.2	77.6 71.7 73.3 75.0 77.9 78.9 79.1 78.9 67.8	80.6 76.2 72.1 73.8 75.4 78.6 79.1 78.7 78.2	80.6 74.5 73.0 73.4 76.1 78.6 78.9 79.3 76.6	79.6 72.9 73.5 73.9 76.8 78.0 78.7 78.9 74.1	78.2 71.8 73.4 74.8 77.7 78.8 78.5 78.8 69.9	79. 73. 73. 74. 76. 78. 78. 78. 74.
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	80.7 76.8 72.1 73.8 75.0 78.4 79.4 78.5 78.6 65.9 68.0	80.5 76.1 71.9 73.7 75.6 79.0 79.1 78.6 78.1	80.7 75.7 72.4 73.8 75.5 78.4 78.9 79.1 77.8 64.7 69.0	80.9 75.2 72.5 73.2 75.8 78.6 79.2 79.4 77.0 64.4 69.7	80.5 74.5 72.9 73.3 76.4 78.7 79.1 76.7 63.8 70.8	80.3 73.8 73.6 73.7 75.9 78.6 78.9 79.2 76.2	80.1 73.3 73.4 73.9 76.6 78.2 78.5 79.1 75.4 64.7 71.4	79.3 72.8 73.5 73.6 76.9 78.4 78.9 78.7 74.6	79.3 72.5 73.6 74.2 76.9 77.5 78.8 78.9 72.1 66.2 71.7	78.8 71.9 73.3 74.3 77.6 78.5 78.3 78.6 71.8	78.3 71.6 73.6 75.1 77.5 78.9 78.2 78.9 70.2	77.6 71.7 73.3 75.0 77.9 78.9 79.1 78.9 67.8	80.6 76.2 72.1 73.8 75.4 78.6 79.1 78.7 78.2 65.5 68.4	80.6 74.5 73.0 73.4 76.1 78.6 78.9 79.3 76.6 64.0 70.5	79.6 72.9 73.5 73.9 76.8 78.0 78.7 78.9 74.1 65.5 71.6	78.2 71.8 73.4 74.8 77.7 78.8 78.5 78.8 69.9 66.9 72.1	79. 73. 73. 74. 76. 78. 78. 74. 65. 70.
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	80.7 76.8 72.1 73.8 75.0 78.4 79.4 78.5 78.6 65.9 68.0 72.7	80.5 76.1 71.9 73.7 75.6 79.0 79.1 78.6 78.1 65.9 68.1 72.8	80.7 75.7 72.4 73.8 75.5 78.4 78.9 79.1 77.8 64.7 69.0 73.3	80.9 75.2 72.5 73.2 75.8 78.6 79.2 79.4 77.0 64.4 69.7 72.9	80.5 74.5 72.9 73.3 76.4 78.7 79.1 76.7 63.8 70.8 73.0	80.3 73.8 73.6 73.7 75.9 78.6 78.9 79.2 76.2 63.7 70.9 73.1	80.1 73.3 73.4 73.9 76.6 78.2 78.5 79.1 75.4 64.7 71.4 73.5	79.3 72.8 73.5 73.6 76.9 78.4 78.9 78.7 74.6 65.6 71.6	79.3 72.5 73.6 74.2 76.9 77.5 78.8 78.9 72.1 66.2 71.7 74.0	78.8 71.9 73.3 74.3 77.6 78.5 78.3 78.6 71.8 66.5 71.9	78.3 71.6 73.6 75.1 77.5 78.9 78.2 78.9 70.2 67.2 72.0 74.0	77.6 71.7 73.3 75.0 77.9 78.9 79.1 78.9 67.8 67.2 72.5 74.5	80.6 76.2 72.1 73.8 75.4 78.6 79.1 78.7 78.2 65.5 68.4 72.9	80.6 74.5 73.0 73.4 76.1 78.6 78.9 79.3 76.6 64.0 70.5 73.0	79.6 72.9 73.5 73.9 76.8 78.0 78.7 78.9 74.1 65.5 71.6 73.8	78.2 71.8 73.4 74.8 77.7 78.8 78.5 78.8 69.9 66.9 72.1 74.3	79. 73. 73. 74. 76. 78. 78. 74. 65. 70. 73.
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013	80.7 76.8 72.1 73.8 75.0 78.4 79.4 78.5 78.6 65.9 68.0 72.7 75.0 74.4	80.5 76.1 71.9 73.7 75.6 79.0 79.1 78.6 78.1 65.9 68.1 72.8 75.1 74.7	80.7 75.7 72.4 73.8 75.5 78.4 78.9 79.1 77.8 64.7 69.0 73.3 74.7 74.5	80.9 75.2 72.5 73.2 75.8 78.6 79.2 79.4 77.0 64.4 69.7 72.9 75.0 74.2	80.5 74.5 72.9 73.3 76.4 78.7 79.1 76.7 63.8 70.8 73.0 74.6 74.4	80.3 73.8 73.6 73.7 75.9 78.6 78.9 79.2 76.2 63.7 70.9 73.1 74.7 74.5	80.1 73.3 73.4 73.9 76.6 78.2 78.5 79.1 75.4 64.7 71.4 73.5 74.5 73.8	79.3 72.8 73.5 73.6 76.9 78.4 78.9 78.7 74.6 65.6 71.6 73.8 74.2 74.4	79.3 72.5 73.6 74.2 76.9 77.5 78.8 78.9 72.1 66.2 71.7 74.0 74.1 74.5	78.8 71.9 73.3 74.3 77.6 78.5 78.6 71.8 66.5 71.9 74.3 73.8 74.5	78.3 71.6 73.6 75.1 77.5 78.9 78.2 78.9 70.2 67.2 72.0 74.0 74.2 74.5	77.6 71.7 73.3 75.0 77.9 78.9 79.1 78.9 67.8 67.2 72.5 74.5 74.7 74.5	80.6 76.2 72.1 73.8 75.4 78.6 79.1 78.7 78.2 65.5 68.4 72.9 74.9 74.5	80.6 74.5 73.0 73.4 76.1 78.6 78.9 79.3 76.6 64.0 70.5 73.0 74.8 74.4	79.6 72.9 73.5 73.9 76.8 78.0 78.7 78.9 74.1 65.5 71.6 73.8 74.3 74.2	78.2 71.8 73.4 74.8 77.7 78.8 78.5 78.8 69.9 66.9 72.1 74.3 74.2 74.5	79. 73. 73. 74. 76. 78. 78. 74. 65. 70. 73. 74. 74.
999 9000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015	80.7 76.8 72.1 73.8 75.0 78.4 79.4 78.5 78.6 65.9 68.0 72.7 75.0 74.4 73.6 75.7	80.5 76.1 71.9 73.7 75.6 79.0 79.1 78.6 78.1 65.9 68.1 72.8 75.1 74.7	80.7 75.7 72.4 73.8 75.5 78.4 78.9 79.1 77.8 64.7 69.0 73.3 74.7 74.5	80.9 75.2 72.5 73.2 75.8 78.6 79.2 79.4 77.0 64.4 69.7 72.9 75.0 74.2 74.9	80.5 74.5 72.9 73.3 76.4 78.7 79.1 76.7 63.8 70.8 73.0 74.6 74.4	80.3 73.8 73.6 73.7 75.9 78.6 78.9 79.2 76.2 63.7 70.9 73.1 74.7 74.5	80.1 73.3 73.4 73.9 76.6 78.2 78.5 79.1 75.4 64.7 71.4 73.5 74.5 73.8	79.3 72.8 73.5 73.6 76.9 78.4 78.9 78.7 74.6 65.6 71.6 73.8 74.2 74.4	79.3 72.5 73.6 74.2 76.9 77.5 78.8 78.9 72.1 66.2 71.7 74.0 74.1 74.5	78.8 71.9 73.3 74.3 77.6 78.5 78.3 78.6 71.8 66.5 71.9 74.3 73.8 74.5	78.3 71.6 73.6 75.1 77.5 78.9 78.2 78.9 70.2 67.2 72.0 74.0 74.2 74.5	77.6 71.7 73.3 75.0 77.9 78.9 79.1 78.9 67.8 67.2 72.5 74.5 74.7 74.5	80.6 76.2 72.1 73.8 75.4 78.6 79.1 78.7 78.2 65.5 68.4 72.9 74.5 74.3	80.6 74.5 73.0 73.4 76.1 78.6 78.9 79.3 76.6 64.0 70.5 73.0 74.8 74.4	79.6 72.9 73.5 73.9 76.8 78.0 78.7 78.9 74.1 65.5 71.6 73.8 74.3 74.2	78.2 71.8 73.4 74.8 77.7 78.8 78.5 78.8 69.9 66.9 72.1 74.3 74.2 74.5	79 73 73 74 76 78 78 74 65 70 73 74 74 75
999 9000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016	80.7 76.8 72.1 73.8 75.0 78.4 79.4 78.5 78.6 65.9 68.0 72.7 75.0 74.4 73.6 75.7 75.1	80.5 76.1 71.9 73.7 75.6 79.0 79.1 78.6 78.1 65.9 68.1 72.8 75.1 74.7	80.7 75.7 72.4 73.8 75.5 78.4 78.9 79.1 77.8 64.7 69.0 73.3 74.7 74.5	80.9 75.2 72.5 73.2 75.8 78.6 79.2 79.4 77.0 64.4 69.7 72.9 75.0 74.2 74.9 75.5 74.0	80.5 74.5 72.9 73.3 76.4 78.7 79.1 76.7 63.8 70.8 73.0 74.6 74.4 75.2 75.5 73.9	80.3 73.8 73.6 73.7 75.9 78.6 78.9 79.2 76.2 63.7 70.9 73.1 74.7 74.5 75.5 75.2 74.0	80.1 73.3 73.4 73.9 76.6 78.2 78.5 79.1 75.4 64.7 71.4 73.5 74.5 73.8 75.8 75.8	79.3 72.8 73.5 73.6 76.9 78.4 78.9 78.7 74.6 65.6 71.6 73.8 74.2 74.4 75.5 75.5 73.8	79.3 72.5 73.6 74.2 76.9 77.5 78.8 78.9 72.1 66.2 71.7 74.0 74.1 74.5 75.5 75.2 74.0	78.8 71.9 73.3 74.3 77.6 78.5 78.3 78.6 71.8 66.5 71.9 74.3 73.8 74.5	78.3 71.6 73.6 75.1 77.5 78.9 78.2 78.9 70.2 67.2 72.0 74.0 74.2 74.5	77.6 71.7 73.3 75.0 77.9 78.9 79.1 78.9 67.8 67.2 72.5 74.5 74.7 74.5	80.6 76.2 72.1 73.8 75.4 78.6 79.1 78.7 78.2 65.5 68.4 72.9 74.9 74.5 74.3	80.6 74.5 73.0 73.4 76.1 78.6 78.9 79.3 76.6 64.0 70.5 73.0 74.8 74.4 75.2 75.4 74.0	79.6 72.9 73.5 73.9 76.8 78.0 78.7 78.9 74.1 65.5 71.6 73.8 74.3 74.2 75.6 75.5 74.0	78.2 71.8 73.4 74.8 77.7 78.8 78.5 78.8 69.9 66.9 72.1 74.3 74.2 74.5	79 73 73 74 76 78 78 78 74 65 70 73 74 74 75 75
2000 2000 2001 2002 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2011 2012 2013 2014 2015 2016 2017	80.7 76.8 72.1 73.8 75.0 78.4 79.4 78.5 78.6 65.9 68.0 72.7 75.0 74.4 73.6 75.7	80.5 76.1 71.9 73.7 75.6 79.0 79.1 78.6 78.1 65.9 68.1 72.8 75.1 74.7	80.7 75.7 72.4 73.8 75.5 78.4 78.9 79.1 77.8 64.7 69.0 73.3 74.7 74.5	80.9 75.2 72.5 73.2 75.8 78.6 79.2 79.4 77.0 64.4 69.7 72.9 75.0 74.2 74.9	80.5 74.5 72.9 73.3 76.4 78.7 79.1 76.7 63.8 70.8 73.0 74.6 74.4	80.3 73.8 73.6 73.7 75.9 78.6 78.9 79.2 76.2 63.7 70.9 73.1 74.7 74.5	80.1 73.3 73.4 73.9 76.6 78.2 78.5 79.1 75.4 64.7 71.4 73.5 74.5 73.8	79.3 72.8 73.5 73.6 76.9 78.4 78.9 78.7 74.6 65.6 71.6 73.8 74.2 74.4	79.3 72.5 73.6 74.2 76.9 77.5 78.8 78.9 72.1 66.2 71.7 74.0 74.1 74.5	78.8 71.9 73.3 74.3 77.6 78.5 78.3 78.6 71.8 66.5 71.9 74.3 73.8 74.5	78.3 71.6 73.6 75.1 77.5 78.9 78.2 78.9 70.2 67.2 72.0 74.0 74.2 74.5	77.6 71.7 73.3 75.0 77.9 78.9 79.1 78.9 67.8 67.2 72.5 74.5 74.7 74.5	80.6 76.2 72.1 73.8 75.4 78.6 79.1 78.7 78.2 65.5 68.4 72.9 74.5 74.3	80.6 74.5 73.0 73.4 76.1 78.6 78.9 79.3 76.6 64.0 70.5 73.0 74.8 74.4	79.6 72.9 73.5 73.9 76.8 78.0 78.7 78.9 74.1 65.5 71.6 73.8 74.3 74.2	78.2 71.8 73.4 74.8 77.7 78.8 78.5 78.8 69.9 66.9 72.1 74.3 74.2 74.5	79 73 73 74 76 78 78 78 74 65 70 73 74 74 75 75 74
1999 2000 2001 2001 2002 2003 2004 2005 2006 2007 2008 2010 2011 2012 2013 2014 2015 2016 2016 2017 2018	80.7 76.8 72.1 73.8 75.0 78.4 79.4 78.5 78.6 65.9 68.0 72.7 75.0 74.4 73.6 75.7 75.1 74.8	80.5 76.1 71.9 73.7 75.6 79.0 79.1 78.6 78.1 65.9 68.1 72.8 75.1 74.7 74.4 75.2 74.6 74.7	80.7 75.7 72.4 73.8 75.5 78.4 78.9 79.1 77.8 64.7 69.0 73.3 74.7 74.5 75.0 75.5 74.3 74.5 76.3	80.9 75.2 72.5 73.2 75.8 78.6 79.2 79.4 77.0 64.4 69.7 72.9 75.0 74.2 74.9 75.5 74.0 75.3 76.6	80.5 74.5 72.9 73.3 76.4 78.7 79.1 76.7 63.8 70.8 73.0 74.6 74.4 75.2 75.5 73.9 75.1 76.0	80.3 73.8 73.6 73.7 75.9 78.6 78.9 79.2 76.2 63.7 70.9 73.1 74.5 75.5 75.2 74.0 75.2 76.5	80.1 73.3 73.4 73.9 76.6 78.2 78.5 79.1 75.4 64.7 71.4 73.8 75.8 75.8 75.8 75.1 76.7	79.3 72.8 73.5 73.6 76.9 78.4 78.9 74.6 65.6 71.6 73.8 74.2 74.4 75.5 75.5 73.8 74.8 77.0	79.3 72.5 73.6 74.2 76.9 77.5 78.8 78.9 72.1 66.2 71.7 74.0 74.1 74.5 75.5 75.2 74.0 74.7	78.8 71.9 73.3 74.3 77.6 78.5 78.3 78.6 71.8 66.5 71.9 74.3 73.8 74.5 75.5 75.1 76.8	78.3 71.6 73.6 75.1 77.5 78.9 78.2 78.9 70.2 67.2 72.0 74.0 74.5 76.1 74.9 74.1 75.9 76.9	77.6 71.7 73.3 75.0 77.9 78.9 79.1 78.9 67.8 67.2 72.5 74.5 74.5 75.9 74.6 74.4 75.8 77.3	80.6 76.2 72.1 73.8 75.4 78.6 79.1 78.7 78.2 65.5 68.4 72.9 74.5 74.3 75.5 74.7 74.6 76.1	80.6 74.5 73.0 73.4 76.1 78.6 78.9 79.3 76.6 64.0 70.5 73.0 74.8 74.4 75.2 75.4 74.0 75.2 76.4	79.6 72.9 73.5 73.9 76.8 78.0 78.7 74.1 65.5 71.6 73.8 74.3 74.2 75.6 75.5 74.0 74.9	78.2 71.8 73.4 74.8 77.7 78.8 78.5 78.8 69.9 66.9 72.1 74.3 74.5 75.8 74.9 74.2 75.8	79. 73. 74. 76. 78. 78. 74. 65. 70. 73. 74. 74. 75. 75. 76.
1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018	80.7 76.8 72.1 73.8 75.0 78.4 79.4 78.5 78.6 65.9 68.0 72.7 75.0 74.4 73.6 75.7 75.1 74.8 75.5 76.7	80.5 76.1 71.9 73.7 75.6 79.0 79.1 78.6 78.1 65.9 68.1 72.8 75.1 74.7 74.4 75.2 74.6 74.7 76.3	80.7 75.7 72.4 73.8 75.5 78.4 78.9 79.1 77.8 64.7 69.0 73.3 74.7 74.5 75.0 75.5 74.3 74.5 76.3	80.9 75.2 72.5 73.2 75.8 78.6 79.2 79.4 77.0 64.4 69.7 72.9 75.0 74.2 74.9 75.5 74.0 75.3 76.6 75.4	80.5 74.5 72.9 73.3 76.4 78.7 79.1 76.7 63.8 70.8 73.0 74.6 74.4 75.2 75.5 73.9 75.1 76.0	80.3 73.8 73.6 73.7 75.9 78.6 78.9 79.2 76.2 63.7 70.9 73.1 74.7 74.5 75.5 75.2 74.0 75.2 76.5	80.1 73.3 73.4 73.9 76.6 78.2 78.5 79.1 75.4 64.7 71.4 73.5 74.5 73.8 75.8 74.1 75.1 76.7	79.3 72.8 73.5 73.6 76.9 78.4 78.9 78.7 74.6 65.6 71.6 73.8 74.2 74.4 75.5 73.8 74.8 77.0	79.3 72.5 73.6 74.2 76.9 77.5 78.8 78.9 72.1 66.2 71.7 74.0 74.1 74.5 75.5 75.2 74.0 74.7 76.9	78.8 71.9 73.3 74.3 77.6 78.5 78.6 71.8 66.5 71.9 74.3 73.8 74.5 75.5 75.1 74.1 75.7 76.8	78.3 71.6 73.6 75.1 77.5 78.9 78.2 78.9 70.2 67.2 72.0 74.0 74.2 74.5 76.1 74.9 74.1 75.9 76.9	77.6 71.7 73.3 75.0 77.9 78.9 79.1 78.9 67.8 67.2 72.5 74.5 74.7 74.5 75.9 74.6 74.4 75.8 77.3	80.6 76.2 72.1 73.8 75.4 78.6 79.1 78.7 78.2 65.5 68.4 72.9 74.5 74.3 75.5 74.7 74.6 76.1	80.6 74.5 73.0 73.4 76.1 78.6 78.9 79.3 76.6 64.0 70.5 73.0 74.8 74.4 75.2 75.4 74.0 75.2 76.4	79.6 72.9 73.5 73.9 76.8 78.0 78.7 74.1 65.5 71.6 73.8 74.2 75.6 75.5 74.0 74.9 76.9	78.2 71.8 73.4 74.8 77.7 78.8 78.5 78.8 69.9 66.9 72.1 74.3 74.2 74.5 75.8 74.9 74.2 75.8 77.0	79. 73. 73. 74. 76. 78. 78. 74. 65. 70. 73. 74. 74. 75. 75. 76. 75. 76.
1999 2000 2001 2002 2003 2004 2005 2006 2007	80.7 76.8 72.1 73.8 75.0 78.4 79.4 78.5 78.6 65.9 68.0 72.7 75.0 74.4 73.6 75.7 75.1 74.8	80.5 76.1 71.9 73.7 75.6 79.0 79.1 78.6 78.1 65.9 68.1 72.8 75.1 74.7 74.4 75.2 74.6 74.7	80.7 75.7 72.4 73.8 75.5 78.4 78.9 79.1 77.8 64.7 69.0 73.3 74.7 74.5 75.0 75.5 74.3 74.5 76.3	80.9 75.2 72.5 73.2 75.8 78.6 79.2 79.4 77.0 64.4 69.7 72.9 75.0 74.2 74.9 75.5 74.0 75.3 76.6	80.5 74.5 72.9 73.3 76.4 78.7 79.1 76.7 63.8 70.8 73.0 74.6 74.4 75.2 75.5 73.9 75.1 76.0	80.3 73.8 73.6 73.7 75.9 78.6 78.9 79.2 76.2 63.7 70.9 73.1 74.5 75.5 75.2 74.0 75.2 76.5	80.1 73.3 73.4 73.9 76.6 78.2 78.5 79.1 75.4 64.7 71.4 73.8 75.8 75.8 75.8 75.1 76.7	79.3 72.8 73.5 73.6 76.9 78.4 78.9 74.6 65.6 71.6 73.8 74.2 74.4 75.5 75.5 73.8 74.8 77.0	79.3 72.5 73.6 74.2 76.9 77.5 78.8 78.9 72.1 66.2 71.7 74.0 74.1 74.5 75.5 75.2 74.0 74.7	78.8 71.9 73.3 74.3 77.6 78.5 78.3 78.6 71.8 66.5 71.9 74.3 73.8 74.5 75.5 75.1 76.8	78.3 71.6 73.6 75.1 77.5 78.9 78.2 78.9 70.2 67.2 72.0 74.0 74.5 76.1 74.9 74.1 75.9 76.9	77.6 71.7 73.3 75.0 77.9 78.9 79.1 78.9 67.8 67.2 72.5 74.5 74.5 75.9 74.6 74.4 75.8 77.3	80.6 76.2 72.1 73.8 75.4 78.6 79.1 78.7 78.2 65.5 68.4 72.9 74.5 74.3 75.5 74.7 74.6 76.1	80.6 74.5 73.0 73.4 76.1 78.6 78.9 79.3 76.6 64.0 70.5 73.0 74.8 74.4 75.2 75.4 74.0 75.2 76.4	79.6 72.9 73.5 73.9 76.8 78.0 78.7 74.1 65.5 71.6 73.8 74.3 74.2 75.6 75.5 74.0 74.9	78.2 71.8 73.4 74.8 77.7 78.8 78.5 78.8 69.9 66.9 72.1 74.3 74.5 75.8 74.9 74.2 75.8	79. 73. 73. 74. 76. 78. 78. 74. 65. 70. 73. 74. 74. 75. 75. 76.

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 Industries<sup>1</sup>
Seasonally adjusted

IP (percent change) <sup>2</sup> 1999 2000 2001 2002 2003 2004 2005 2006	.1 3 7 .7	.2	1 .1	Apr1	.5			Aug.						Q2	Q3		
1999 2000 2001 2002 2003 2004 2005	3 7	.0		1	5												
2000 2001 2002 2003 2004 2005	3 7	.0		1	5												
2001 2002 2003 2004 2005	7 .7		1			5	.3	.4	5	1.2	.2	.6	.6	.3	.9	5.6	1.1
2002 2003 2004 2005	.7			.5	2	1	5	5	.3	4	2	5	.6	1.5	-3.2	-2.6	1.0
2003 2004 2005		6	3	2	6	5	4	1	4	5	4	1	-5.9	-4.3	-4.3	-4.4	-3.9
2004 2005		2	.8	.4	.4	.9	3	1	.1	3	.5	6	2.6	6.0	1.8	6	.3
2005	./	.0	3	9	1	.0	.3	3	.5	.0	.7	1	1.5	-4.7	.7	2.7	.2
	.1	.6 .6	6 2	.5 .1	.8	9 .4	.8 4	.0	.0 -2.1	.9 1.2	.2 1.0	.7 .6	1.9 4.8	2.1	1.9 -3.0	5.3 2.7	1.7 2.6
	.1	1	.2	.4	2	.3	4 1	.3	-2.1	1	1	1.0	3.2	1.8	-5.0	.1	1.4
2007	6	1.0	.0	.5	.1	.2	1	.2	.3	6	.4	1	2.8	4.0	1.1	5	1.8
2008	3	5	4	8	7	3	5	-1.6	-4.5	1.2	-1.0	-2.8	-2.6	-6.8	-12.8	-14.9	-4.3
2009	-2.4	7	-1.7	9	-1.1	4	1.1	1.1	.7	.3	.3	.3	-20.4	-11.7	6.1	6.0	-11.5
2010	1.1	.2	.6	.3	1.5	.1	.4	.3	.2	3	.0	.9	7.0	7.5	5.1	.8	4.9
2011	2	5	1.1	4	.2	.3	.5	.5	.0	.7	1	.5	1.7	1.6	4.6	4.1	2.8
2012	.6	.2	5	.7	.2	1	.3	5	.0	.2	.5	.4	3.6	2.1	1	1.8	2.8
2013	2	.6	.4	2	.1	.2	5	.6	.5	2	.3	.3	3.1	1.4	1.1	2.6	1.8
2014	4	.8	.9	.0	.3	.4	.2	1	.3	.0	.8	1	3.0	5.2	2.3	2.7	2.9
2015 2016	5 .8	5 7	3 8	6 .1	4 1	4 .4	.6 .2	2 1	4 .0	4 .2	7 2	6 .9	-3.1 -2.4	-5.5 -2.4	1 1.7	-5.3 1.1	-1.1 -2.1
2017	.1	<i>1</i>	8	.9	1	.2	.0	5	.0	1.5	.5	.3	2.6	5.7	7	7.4	2.3
2018	3	.4	.6	.9	8	.7	.4	.8	.1	.2	.6	.0	2.2	4.5	4.9	4.0	3.9
2019	4	5	.1	6	.2	.0	2	.7	4	4	.9	4	-2.1	-2.3	.9	.2	.7
2020	4	.1	-4.5	-12.9	.9	6.3	4.2	1.0	1	1.0	.9	1.0	-6.9	-43.2	43.9	9.4	-7.1
2021	.9	-2.7	1.4										2.4				
<b>IP</b> (2012=100)																	
	109.2	108.6	108.7	108.1	108.3	108.3	108.1	108.9	108.5	108.0	109.0	108.6	108.9	108.2	108.5	108.5	108.5
	108.2	108.3	103.4	90.1	90.9	96.7	100.8	101.8	101.6	102.7	103.7	104.7	106.6	92.6	101.4	103.7	100.8
2021 1	105.7	102.9	104.4										104.3				
Capacity																	
(percent of																	
2012 output)																	
	138.0	138.3	138.5	138.8	139.0	139.2	139.5	139.7	139.9	140.1	140.4	140.6	138.3	139.0	139.7	140.4	139.3
	140.5 140.3	140.6 140.3	140.6 140.3	140.5	140.5	140.4	140.4	140.4	140.3	140.3	140.2	140.2	140.5 140.3	140.5	140.4	140.2	140.4
Utilization (percent)																	
1999	82.0	81.9	81.6	81.3	81.6	81.0	81.1	81.3	80.7	81.6	81.7	82.0	81.8	81.3	81.0	81.8	81.5
2000	81.6	81.5	81.5	81.8	81.5	81.4	80.9	80.4	80.6	80.2	79.9	79.5	81.5	81.6	80.6	79.9	80.9
2001	78.9	78.3	78.0	77.8	77.3	76.8	76.4	76.3	75.8	75.4	75.0	74.8	78.4	77.3	76.2	75.1	76.7
2002	75.3	75.1	75.7	75.9	76.2	76.9	76.7	76.6	76.7	76.5	76.9	76.6	75.3	76.3	76.7	76.7	76.3
2003	77.2	77.2	77.0	76.4	76.3	76.4	76.6	76.5	76.9	76.9	77.5	77.4	77.1	76.4	76.7	77.3	76.9
2004	77.6	78.0	77.6	78.0	78.7	78.0	78.7	78.7	78.7	79.5	79.7	80.2	77.7	78.2	78.7	79.8	78.6
2005	80.5	80.9	80.7	80.8	80.8	81.0	80.6	80.7	78.9	79.7	80.4	80.8	80.7	80.9	80.1	80.3	80.5
2006	80.8 79.9	80.6	80.6	80.8	80.6	80.7	80.5	80.6	80.2	80.0	79.8	80.5	80.7	80.7	80.5	80.1	80.5
2007 2008	81.1	80.6 80.8	80.5 80.6	80.9 79.9	80.9 79.4	81.0 79.2	81.0 78.8	81.1 77.5	81.4 74.0	80.9 74.8	81.3 73.9	81.3 71.7	80.4 80.8	81.0 79.5	81.1 76.8	81.2 73.5	80.9 77.6
2009	69.9	69.3	68.1	67.5	66.7	66.5	67.2	68.1	68.7	69.0	69.3	69.7	69.1	66.9	68.0	69.3	68.3
	70.6 75.3	70.9 75.0	71.5 75.8	72.0	73.2	73.5	74.0	74.3	74.6	74.5	74.6 76.8	75.4	71.0 75.4	72.9	74.3	74.8 76.9	73.3
2011 2012	77.4	77.4	76.9	75.6 77.3	75.7 77.3	75.9 77.2	76.3 77.3	76.6 76.8	76.5 76.7	77.0 76.7	77.0	77.1 77.1	77.3	75.7 77.3	76.5 76.9	76.9	76.1 77.1
2012	76.9	77.3	77.5	77.3	77.3	77.4	76.9	77.4	77.7	77.5	77.7	77.9	77.3	77.3	77.3	77.7	77.4
2014	77.5	78.0	78.7	78.6	78.8	79.0	79.0	78.8	78.9	78.8	79.4	79.1	78.1	78.8	78.9	79.1	78.7
2015	78.6	78.2	77.9	77.3	76.9	76.6	77.0	76.9	76.6	76.3	75.8	75.3	78.2	77.0	76.9	75.8	77.0
	75.9	75.3	74.7	74.8	74.7	75.0	75.1	75.0	75.0	75.1	74.9	75.5	75.3	74.8	75.1	75.2	75.1
2017	75.6	75.3	75.8	76.5	76.6	76.7	76.7	76.3	76.3	77.4	77.8	78.0	75.6	76.6	76.4	77.7	76.6
2018	77.7	78.0	78.3	79.0	78.2	78.7	78.9	79.4	79.3	79.4	79.7	79.6	78.0	78.6	79.2	79.6	78.8
2010			<b>50.5</b>	77.0	77.0	77.0	77.5	77.0	77.5	77.1		77.0	<b>50.5</b>				77.0
	79.1	78.6	78.5	77.9	77.9	77.8	77.5	77.9	77.5	77.1	77.7	77.3	78.7	77.9	77.7	77.3	77.9
2019 2020	79.1 77.0 75.4	78.6 77.0 73.4	78.5 73.6 74.4	64.1	77.9 64.7	68.8	71.8	72.5	72.4	73.2	77.7	74.7	78.7 75.9 74.4	65.9	77.7 72.2	77.3 73.9	77.9

<sup>1.</sup> 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<sup>2</sup>

Seasonally adjusted Year Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Q1 Q2 Q3 Q4 Annual IP (percent change)3 1999 6.8 1.3 -.3 -.6 -.2 .3 .4 -.2 -.3 -.2 .3 -.2 -.4 -.6 -.5 -.2 -3.8 -4.5 2000 -.6 .0 -1.0-.8 .4 .8 -4.6.7 -7.0 -.6 -4.7 2001 -.6 - 5 -44 -.4 -1 -4.12002 -.2 .8 .2 .5 1.1 -.4 .1 .4 3.2 5.4 2.5 .4 -.4 -.6 2003 -.3 .0 -1.0 .0 .0 .9 -.3 -4.3 2.9 .0 -.6 .8 .0 .7 2004 7 - 2 1.0 37 2.0 - 1 4 8 - 8 4 - 1 1.0 - 1 15 3 1 48 2005 .6 .7 -.6 .3 .3 .1 -.5 .3 -1.3 1.4 .8 .1 5.3 1.3 -2.25.0 3.1 2006 .5 .0 1.5 3.1 1.5 .8 -.4 -.1 -.5 .3 -.4 .5 -.1 -.5 -.1 .6 2007 .5 .0 -.4 .3 .3 .0 3.0 4.7 1.1 1.8 -.6 .6 -.6 -1.120.8 1.2 2.2 -4.2 -9.8 -5.9 2008 -.5 -.8 -.5 1.3 -.7 -.7 1.1 3.6 -.4 -3.3 14.4 2009 -3.1-.2 -2.0-.8 -1.11.5 1.2 -.2 -24.3 -11.6 8.1 6.5 -13.92010 1.0 -.3 1.1 .8 1.4 -.1 .0 .0 -.1 .3 5.4 9.7 3.8 5.1 .6 2011 2.3 3.9 2.5 .1 .1 .6 -.6 .1 .1 .3 .4 -.3 .7 4.3 .6 2012 .5 .8 4.8 2.3 .8 .2 -.2 -.2 -.2 -.5 .8 -.2 -1.4.3 -.6 -.5 .5 .2 .9 -1.0 .1 2013 -.4 -.5 .3 0. 2.8 -.7 1.5 .5 -.1 .1 -.1 -.6 2014 1.2 1.0 -.6 3.8 1.5 .8 2015 .3 .0 -.4 -3.0 -3.0 -.4 -.7 -.4 -.3 -.5 .0 -.3 -1.3 -.1 .3 2016 .6 -.6 -.2 .3 .2 .3 .4 -.7 -2.6 1.1 2.3 -1.0 -.4 .0 -.4 .1 2017 1.1 .6 .0 -.3 .2 .1 -.2 -.3 -.2 1.3 .2 -.1 3.2 3.4 -1.55.0 1.9 2018 -.4 1.1 .0 .4 -.8 .6 .4 .4 .0 .2 .6 1.5 1.9 3.3 1.7 2.2 2019 -.6 -.5 -.1 -.9 .1 .5 -.4 .6 -.7 -.6 .9 .2 -2.1 -3.3 .4 -.7 -.4 2020 4.3 7.9 47.3 12.4 .0 -5.216.2 3.9 1.7 1.5 1.0 .7 -5.6 58.8 -7.1 2021 1.3 -3.8 2.8 1.8 **IP** (2012=100) 2019 104.5 103.9 103.8 103.0 103.1 103.6 103.2 103.7 103.1 102.5 103.4 103.6 104.1 103.2 103.3 103.1 103.4 103 5 97.8 101.7 2020 103 5 98 1 82.2 85.4 92.2 96.1 97.8 99.2 100.2 100.9 86.6 97.2 100.1 96.1 101.0 102.2 2021 98.3 100.5 Capacity (percent of 2012 output) 2019 136.0 136.1 136.2 136.3 136.5 136.6 136.8 136.9 137.1 137.2 137.3 137.5 136.1 136.5 136.9 137.3 136.7 2020 137.4 137.4 137.4 137.4 137.3 137.3 137.2 137.4 137.3 137.1 137.2 137.1 137.1 137.0 137.0 136.9 137.0 2021 136.9 136.9 136.9 136.9 Utilization (percent) 1999 80.6 80.8 80.2 80.0 80.3 79.5 80.1 80.2 80.4 80.5 80.0 79.1 79.4 2000 79.5 79.1 79.9 80.0 79.8 79.9 80.1 79.4 78.3 78.4 78.0 77.5 76.8 79.7 78.6 77.4 78.9 2001 76.2 75.7 75.4 75.2 74.7 74.3 73.7 73.5 73.0 72.8 72.9 75.8 74.7 73.7 72.9 74.3 74.1 74.4 2002 73.3 73.2 73.7 73.8 74.2 75.1 74.8 74.9 75.0 74.7 75.1 74.7 73.4 74.4 749 74.8 2003 75.2 75.0 75.1 74.4 74.4 74.6 74.7 74.3 74.9 74.9 75.6 75.4 75.1 74.5 74.6 75.3 74.9 75.4 75.9 77.1 77.3 78.5 2004 76.0 76.2 76.9 76.3 77.4 78.1 78.0 75.8 76.5 77.3 78.2 76.9 2005 2006 78.9 79.4 78.9 79.0 79.1 79.1 78.7 78.6 79.1 79.0 79.1 79.1 78.3 78.9 78.8 78.677.6 79.5 79 1 79 1 78.8 79 1 78.6 78.7 78.3 78.6 78 4 78.0 77 9 78 9 78.8 78 4 78 3 78.7 2007 78.3 78.5 78.9 79.2 79.1 79.4 79.4 79.1 79.3 78.8 79.0 79.0 78.6 79.2 79.3 79.0 79.0 2008 78.6 78.0 74.9 74.0 74.3 77.7 76.7 76.2 75.7 71.5 71.3 69.8 67.6 78.1 76.2 73.5 69.6 2009 65.6 65.6 63.4 63.3 64 3 65.2 65 9 66 9 66 9 65.2 65.2 65.1 64 4 64.0 66.1 63.5 66.6 2010 67.7 68.5 69.2 70.4 71.2 71.5 72.067.9 70.0 67.6 70.4 71.0 713 716 71.1 717 70.2 2011 72.2 72.4 73.0 72.7 72.8 72.9 73.5 73.7 74.0 74.4 74.1 74.6 72.5 72.8 74.4 73.3 73.7 2012 75.2 75.3 74.8 75.1 74.7 74.8 74.6 74.4 74.2 73.8 74.3 74.9 75.1 74.9 74.4 74.3 74.7 2013 74.6 74.9 74.8 74.4 74.6 74.7 74.6 74.7 74.7 74.7 74.7 74.7 74.6 74.4 74.7 74.6 74.0 2014 74.5 73.8 74.6 75.5 75.9 75.5 75.5 76.2 76.0 75.3 75.6 75.9 75.3 2015 75.7 75.2 75.5 75.5 75.5 75.2 75.8 75.5 75.2 75.1 74.9 74.6 75.5 75.4 75.5 74.9 75.3 2016 75.1 74.5 74.3 74.0 73.9 74.0 74.2 73.8 74.0 74.2 74.2 74.4 74.6 74.0 74.0 74.3 74.2 74.9 74.6 75.0 74.9 74.8 76.0 75.3 2017 74.8 75.4 75.3 75.4 75.2 75.9 76.0 76.0 75.3 75.0 2018 75.6 76.5 76.5 76.8 76.1 76.5 76.877.077.076.9 77.0 77.476.276.5 76.9 77.176.7 2019 76.8 76.4 76.2 75.5 75.5 75.8 74.7 75.3 75.3 75.6 75.5 75.1 75.7 75.8 75.4 75.2 76.5 2020 75.3 75.3 71.4 59.8 62.2 67.1 70.0 72.4 73.1 73.7 74.0 63.1 70.9 73.1 70.3 71.3 71.3 73.4 2021 74.7 71.8 73.8

<sup>1.</sup> The composition of manufacturing is specified in a note for the summary table.

<sup>2.</sup> Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.

<sup>3.</sup> Quarterly percentage changes are at annual rates. Annual percentage changes are calculated from annual averages.

Table 15
INDUSTRIAL PRODUCTION: RELIABILITY ESTIMATES
Seasonally adjusted Annualized Annualized

		alized									_			
	cha				2012						Percen	t change	;	
	2020	2021	2020			2021			2020			2021		
Item	Q4	Q1	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar
Total index														
85th percentile	9.68	3.48	103.90	104.89	106.01	107.08	104.43	105.99	1.06	.95	1.11	1.08	-2.32	1.81
Current estimate	9.46	2.47	103.90	104.83	105.90	106.89	104.08	105.58	1.06	.90	1.02	.93	-2.62	1.44
15th percentile	9.30	1.73	103.90	104.79	105.81	106.72	103.82	105.18	1.06	.86	.94	.82	-2.86	1.10
Manufacturing (SIC)														
85th percentile	12.70	2.84	100.90	101.92	102.70	104.12	100.33	103.18	1.47	1.01	.81	1.42	-3.55	3.0
Current estimate	12.43	1.86	100.90	101.85	102.58	103.92	100.04	102.78	1.47	.94	.71	1.31	-3.73	2.73
15th percentile	12.27	.88	100.90	101.80	102.48	103.73	99.77	102.36	1.47	.89	.62	1.20	-3.88	2.43
Mining														
85th percentile	4.93	10.15	112.36	116.54	117.31	120.05	114.03	120.61	-1.69	3.72	.75	2.58	-4.74	6.6
Current estimate	4.37	6.80	112.36	116.41	117.01	119.52	112.80	119.19	-1.69	3.61	.51	2.15	-5.62	5.60
15th percentile	3.91	3.83	112.36	116.28	116.66	119.00	111.67	117.72	-1.69	3.49	.23	1.80	-6.35	4.78
Electric and gas utilities														
85th percentile	-3.65	6.61	104.20	101.57	105.51	102.72	113.50	100.69	1.55	-2.52	3.90	-2.54	11.00	-9.50
Current estimate	-3.74	1.66	104.20	101.56	105.46	102.15	111.53	98.83	1.55	-2.54	3.84	-3.14	9.18	-11.39
15th percentile	-3.89	27	104.20	101.54	105.37	101.88	110.35	97.75	1.55	-2.55	3.75	-3.36	7.88	-13.1

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 2012. Manufacturing consists of those industries included in the North American Industry Classification System, or NAICS, definition of manufacturing plus those industries—logging and newspaper, periodical, book, and directory publishing—that have traditionally been considered to be manufacturing and included in the industrial sector. For the period since 2012, the total IP index has been constructed from 299 individual series based on the 2012 NAICS codes. These individual series are classified in two ways: (1) market groups, and (2) industry groups. Market groups consist of products and materials. Total products are the aggregate of final products, such as consumer goods and equipment, and nonindustrial supplies (which are inputs to nonindustrial sectors). Materials are inputs in the manufacture of products. Major industry groups include three-digit NAICS industries and aggregates of these industries—for example, durable and nondurable manufacturing, mining, and utilities. A complete description of the market and industry structures, including details regarding series classification, relative importance weights, and data sources, is available on the Board's website at www.federalreserve.gov/releases/G17/About.htm.

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

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

month  $(p_m)$  and the estimate for previous month:

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

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

**Timing.** The first estimate of output for a month is published around the 15th of the following month. The estimate is preliminary (denoted by the superscript "p" in tables) and subject to revision in each of the subsequent five months as new source data become available. (Revised estimates are denoted by the superscript "r" in tables.) For the first estimate of output for a given month, about 75 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, 95 percent in the fourth month, 96 percent in the fifth month, and 96 percent in the sixth month. Data availability by data type in 2018 is summarized in the table below:

**Availability of Monthly IP Data in Publication Window** (Percent of value added in 2018; the numbers may not sum because of rounding.)

	Month of estimate								
Type of data	1st	2nd	3rd	4th	5th	6th			
Physical product	34	44	54	54	56	56			
Production-worker hours	40	40	40	40	40	40			
IP data received	75	85	94	95	96	96			
IP data estimated	25	15	6	5	4	4			

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 (34 percent out of a total of 56 percent). Of the 34 percent, about three-quarters (25 percent of total IP) include series that are derived from weekly physical product data and for which actual monthly data may lag up to several months. On average, quarterly product data are received for the fourth estimate of industrial production. Specifically, quarterly data are available for the third estimate of the last month of a quarter, the fourth estimate of the second month of a quarter, and the fifth estimate of the first month of a quarter.

Seasonal Adjustment. Individual series are seasonally adjusted using Census X-13 ARIMA. For series based on production-worker hours, the current seasonal factors were estimated with data through January 2019; for other series, the factors were estimated with data through at least December 2018. 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

0.28 percent during the 1987–2018 period. The average revision to the percent change in total IP, without regard to sign, from the first to the fourth estimates was 0.22 percentage point during the 1987–2018 period. In most cases (about 85 percent), the direction of the change in output indicated by the first estimate for a given month is the same as that shown by the fourth estimate.

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

#### CAPACITY UTILIZATION

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

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

Source Data. The monthly rates of capacity utilization are designed to be consistent with both the monthly data on production and the periodically available data on capacity and utilization. Because there is no direct monthly information on overall industrial capacity or utilization rates, the Federal Reserve first estimates annual capacity indexes from the source data. Capacity data reported in physical units from government sources (primarily from the U.S. Geological Survey and the Department of Energy's Energy Information Administration) and trade sources are available for portions of several industries in manufacturing (for example, paper, industrial chemicals, petroleum refining, motor vehicles), as well as for electric utilities and mining; these industries represent about 27 percent of total industrial capacity. When physical product data are unavailable for manufacturing industries, capacity indexes are based on responses to the Bureau of the Census's Quarterly Survey of Plant Capacity (QSPC); these industries account for about 64 percent of total industry capacity. In the absence of utilization data for a few mining and petroleum series, capacity is based on trends through peaks in production (roughly 9 percent of total industry capacity). A detailed description of the methodology used to construct the capacity indexes is available on the

Board's website (www.federalreserve.gov/releases/G17/Meth/MethCap.htm).

Aggregation Methodology. Monthly capacity aggregates are calculated in three steps: (1) utilization aggregates are calculated on an annual basis through the most recent full year as capacity-weighted aggregates of individual utilization rates; (2) the annual aggregate capacity is derived from the corresponding production and utilization aggregates; (3) the monthly capacity aggregate is obtained by interpolating with a Fisher index of its constituent monthly capacity series. Utilization rates for the individual series and aggregates are calculated by dividing the pertinent monthly production index by the related capacity index.

Consistency. A major aim is that the Federal Reserve utilization rates be consistent over time so that, for example, a rate of 85 percent means about the same degree of tightness that it meant in the past. A major task for the Federal Reserve in developing reasonable and consistent time series of capacity and utilization is dealing with

inconsistencies between the movements of the industrial production index and the survey-based utilization rates. The McGraw-Hill/DRI Survey, now discontinued, was the primary source of manufacturing utilization rates for many years. This survey of large companies reported, on average, higher utilization rates than those reported by establishments covered by the annual Survey of Plant Capacity (the primary source of factory operating rates through 2006, after which it was discontinued) for the fourteen years they overlapped. Adjustments have been made to keep the industry utilization rates currently reported by the Federal Reserve (now based on the QSPC) roughly in line with rates formerly reported by McGraw-Hill. As a consequence, the rates reported by the Federal Reserve tend to be higher than the rates reported in the Census utilization surveys.

**Perspective.** Over the 1972–2018 period, the average total industry utilization rate was 79.8 percent; for manufacturing, the average factory operating rate was 78.3 percent. Industrial plants usually operate at capacity utilization rates that are well below 100 percent: none of the broad aggregates has ever reached 100 percent. For total manufacturing, utilization rates have exceeded 90 percent only in wartime. The highs and lows in capacity utilization are specific to each series and do not all occur in the same month.

### REFERENCES AND RELEASE DATES

**References.** The release for the annual revision that was published on March 27, 2019, 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:

2020: January 17, February 14, March 17, April 15, May 15, June 16, July 15, August 14, September 15, October 16, November 17, December 15.

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.

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