FEDERAL RESERVE statistical release



G.17 (419)

For release at 9:15 a.m. (EST) December 15, 2011

Percent change

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production decreased 0.2 percent in November after having advanced 0.7 percent in October. Factory output moved down 0.4 percent in November; excluding a drop of 3.4 percent in the output of motor vehicles and parts, manufacturing production declined 0.2 percent. Mining production edged up 0.1 percent,

(over)

Industrial Production and Capacity Utilization: Summary

Seasonally adjusted

			2007=	100						Percent	change		
	2011						2011						Nov. '10 to
Industrial production	June	July	Aug. ^r	Sept. ^r	Oct.r	Nov. ^p	June ^r	July	Aug. ^r	Sept. ^r	Oct.r	Nov. ^p	Nov. '11
m . 11 1	02.1	0.4.2	0.4.4	0.4.4	0.5.0	0.4.0			2	0	_	2	2.7
Total index	93.1	94.2	94.4	94.4	95.0	94.8	.1	1.1	.3	.0	.7	2	3.7
Previous estimates	93.0	94.1	94.1	94.1	94.7		.0	1.2	.0	1	.7		
Major market groups													
Final Products	94.7	95.5	96.1	96.2	96.9	96.6	.0	.9	.6	.1	.7	3	4.2
	94.7	93.3	94.1	93.9	94.3	93.9	1	.9	.3	1	.4	5 5	2.0
Consumer goods													
Business equipment	96.1	97.3	98.5	99.2	100.6	100.4	.3	1.2	1.2	.8	1.4	1	10.0
Nonindustrial supplies	83.9	84.6	84.9	84.9	84.9	84.3	3	.9	.3	.0	.0	6	1.6
Construction	76.3	77.3	76.9	77.2	77.4	77.7	.0	1.2	5	.4	.3	.4	3.7
Materials	94.9	96.2	96.2	96.1	96.9	96.9	.4	1.4	.0	1	.8	.0	4.0
Major industry groups													
	90.9	00.5	00.7	01.1	91.6	01.2	1	0	2	4	5	4	2.0
Manufacturing (see note below)	89.8	90.5	90.7	91.1		91.2	.1	.8	.3	.4	.5	4	3.8
Previous estimates	89.7	90.4	90.6	90.9	91.3		1	.8	.3	.3	.5		
Mining	106.1	107.7	108.9	109.0	111.3	111.5	.3	1.5	1.1	.1	2.1	.1	6.7
Utilities	101.0	104.3	103.1	100.0	99.7	99.9	.4	3.2	-1.1	-3.0	3	.2	7
					Dorce	ent of cap	acity						Capacity growth
	Augraga	1988-	1990-	1994-	1 0100	In or cap	acity						growth
	Average	89	91	95	2000	2010	2011						Nov. '10 to
G	1972-				2009			T 1 F	А Г	G . I	0.41	NT D	
Capacity utilization	2010	high	low	high	low	Nov.	June	July	Aug. ^r	Sept. ^r	Oct. ^r	Nov. ^p	Nov. '11
Total industry	80.4	85.2	78.8	85.1	67.3	75.8	76.7	77.5	77.7	77.6	78.0	77.8	1.1
Previous estimates	00.4	05.2	70.0	05.1	07.5	75.0	76.7	77.5	77.4	77.3	77.8	77.0	1.1
1 revious estimates							70.7	11.5	77.4	11.3	77.0		
Manufacturing (see note below)	79.0	85.5	77.3	84.7	64.4	73.1	74.4	74.9	75.0	75.3	75.6	75.3	.8
Previous estimates	, , ,	05.5	77.5	01.7	0	73.1	74.3	74.8	74.9	75.1	75.4	75.5	.0
Mining	87.4	86.3	83.8	88.5	79.0	88.9	89.1	90.2	91.1	91.1	92.9	92.9	2.1
Utilities	86.6	92.9	84.3	93.3	79.0	80.4	79.5	82.0	81.0	78.4	78.1	78.2	2.0
Offices	80.0	92.9	04.3	93.3	19.2	00.4	19.5	82.0	81.0	/0.4	/0.1	10.2	2.0
Stage-of-process groups													
Crude	86.4	87.7	84.3	89.6	77.6	86.8	87.2	88.5	89.0	89.6	90.9	90.5	1.5
Primary and semifinished	81.3	86.5	77.9	87.9	64.9	73.0	73.9	74.9	74.8	74.4	74.2	74.2	.2
Finished	77.3	83.3	77.4	80.7	66.8	74.5	75.8	76.1	76.4	76.4	77.1	76.7	2.0
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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.

while the output of utilities rose 0.2 percent. At 94.8 percent of its 2007 average, total industrial production for November was 3.7 percent above its year-earlier level. Capacity utilization for total industry decreased to 77.8 percent, a rate 2.0 percentage points above its level from a year earlier but 2.6 percentage points below its long-run (1972–2010) average.

Market Groups

The output of consumer goods declined 0.5 percent in November. The production of durable consumer goods fell 1.4 percent, as the indexes for automotive products and home electronics dropped 2.0 percent or more. The output of appliances, furniture, and carpeting decreased 0.2 percent, while the output of miscellaneous goods increased 0.6 percent. The production of nondurable consumer goods moved down 0.2 percent; an increase of 1.0 percent for consumer energy products was outweighed by a decrease of 0.7 percent for other nondurable consumer goods. The decline in non-energy nondurables reflected reduced output for each of its major categories.

In November, the index for business equipment edged down 0.1 percent; during the previous four months, the index had advanced, on average, more than 1.0 percent per month. The output of transit equipment was unchanged in November, as gains in the output of civilian aircraft and railroad equipment offset declines in the production of motor vehicles for businesses. Overall, the index for transit equipment remained more than 25 percent above its year-earlier level. The index for information processing equipment inched up 0.1 percent in November, and the production of industrial and other equipment decreased 0.3 percent.

The production of defense and space equipment climbed 1.4 percent in November after a similarly sized gain in October.

The output of construction supplies rose 0.4 percent in November, its third consecutive monthly increase. The index for business supplies fell 1.1 percent, with lower production in both its energy and non-energy components.

The index for materials to be further processed in the industrial sector was unchanged in November. The output of durable materials gained 0.4 percent for a second straight month and was up 5.9 percent from a year earlier. In November, among the major categories of durable materials, consumer parts moved down 0.2 percent, equipment parts were unchanged, and other durable materials advanced 0.7 percent. The production of nondurable materials decreased 0.5 percent; a gain in paper materials was outweighed by losses in both textile and chemical materials. The output of energy materials was unchanged.

Industry Groups

Manufacturing output decreased 0.4 percent in November, and the factory operating rate dipped to 75.3 percent, a rate 10.9 percentage points above its trough in June 2009 but still 3.7 percentage points below its long-run average.

The output of durable goods slipped 0.1 percent in November but was 7.1 percent above the level from 12 months ago. Decreases of more than 1.5 percent in November occurred for wood products; electrical equipment, appliances, and components; and motor vehicles and parts. Gains of more than 1.5 percent were recorded for primary metals and for aerospace and miscellaneous transportation equipment.

The index for nondurable manufacturing declined 0.4 percent in November. Among the major components of nondurables, losses of more than 0.5 percent were reported for textile and product mills, apparel

and leather, printing, and chemicals. Only the indexes for paper and for petroleum and coal products moved up.

The index for other manufacturing (non-NAICS), which consists of publishing and logging, dropped 2.2 percent in November; the index had registered gains in each of the previous four months.

The output of mines edged up 0.1 percent in November, after having climbed more than 2.0 percent in October. Capacity utilization in mining was unchanged at 92.9 percent in November, a rate 5.5 percentage points above its long-run average. The output of utilities gained 0.2 percent, and the operating rate for the sector moved up to 78.2 percent, a rate 8.4 percentage points below its long-run average.

Capacity utilization rates in November at industries by stage of process were as follows: At the crude stage, utilization decreased 0.4 percentage point to 90.5 percent, a rate 4.1 percentage points above its long-run average; at the primary and semifinished stages, utilization was unchanged at 74.2 percent, a rate 7.1 percentage points below its long-run average; and at the finished stage, utilization moved down 0.4 percentage point to 76.7 percent, a rate 0.6 percentage point below its long-run average.

Tables

- 1. Industrial Production: Market and Industry Group Summary; percent change
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- 14. Historical Statistics: Manufacturing Excluding Selected High-Technology Industries

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

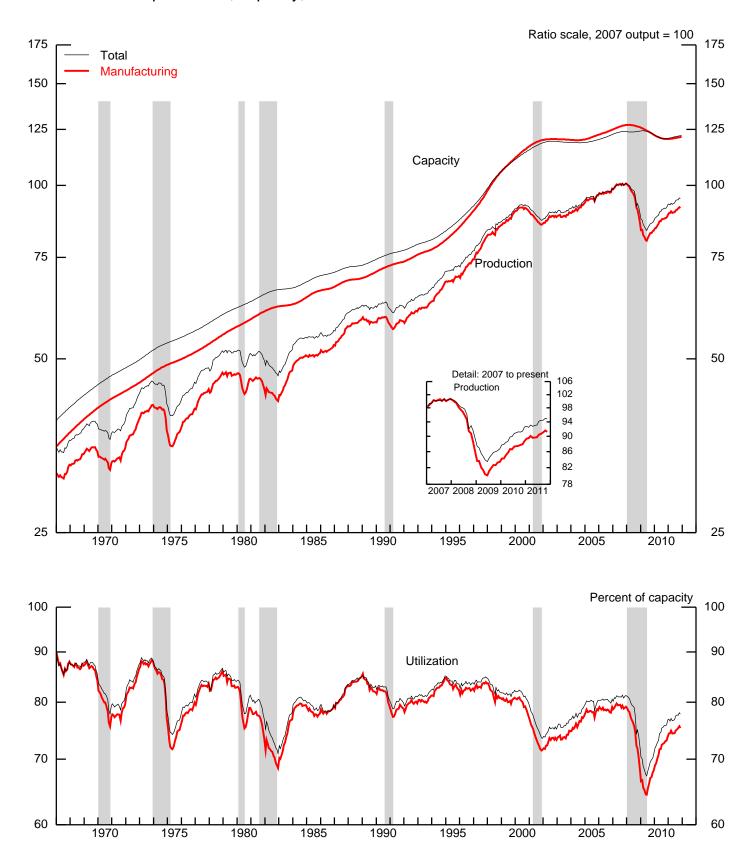
Revision of Industrial Production and Capacity Utilization

The Federal Reserve Board plans to issue its annual revision to the index of industrial production (IP) and the related measures of capacity utilization in late March 2012. The revised IP indexes will incorporate detailed data from the 2010 Annual Survey of Manufactures, conducted by the U.S. Census Bureau. Annual data from the U.S. Geological Survey regarding metallic and nonmetallic minerals (except fuels) for 2010 will also be incorporated. The update will include revisions to the monthly indicator (either product data or input data) and to seasonal factors for each industry. In addition, the estimation methods for some series may be changed. Any modifications to the methods for estimating the output of an industry will affect the index from 1972 to the present.

Capacity and capacity utilization will be revised to incorporate data through the fourth quarter of 2011 from the Census Bureau's Quarterly Survey of Plant Capacity, which covers manufacturing, along with new data on capacity from the U.S. Geological Survey, the Department of Energy, and other organizations.

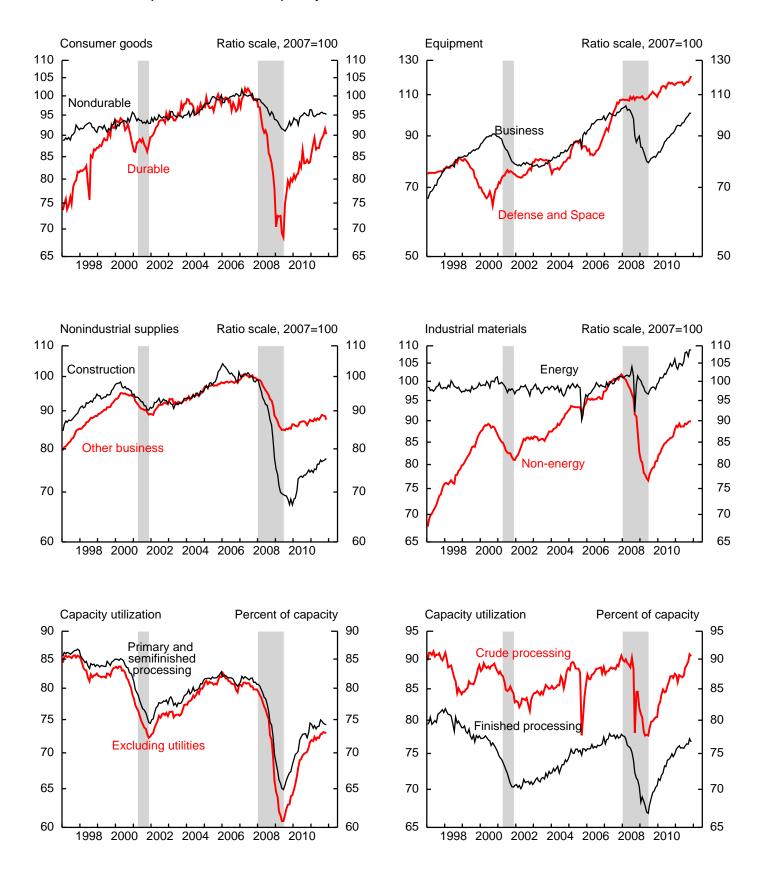
Once the revision is published, it will be available on the Board's website at www.federalreserve.gov/releases/G17. Further information on the revision can be obtained from the Board's Industrial Output Section (telephone number 202-452-3197).

1. Industrial production, capacity, and utilization

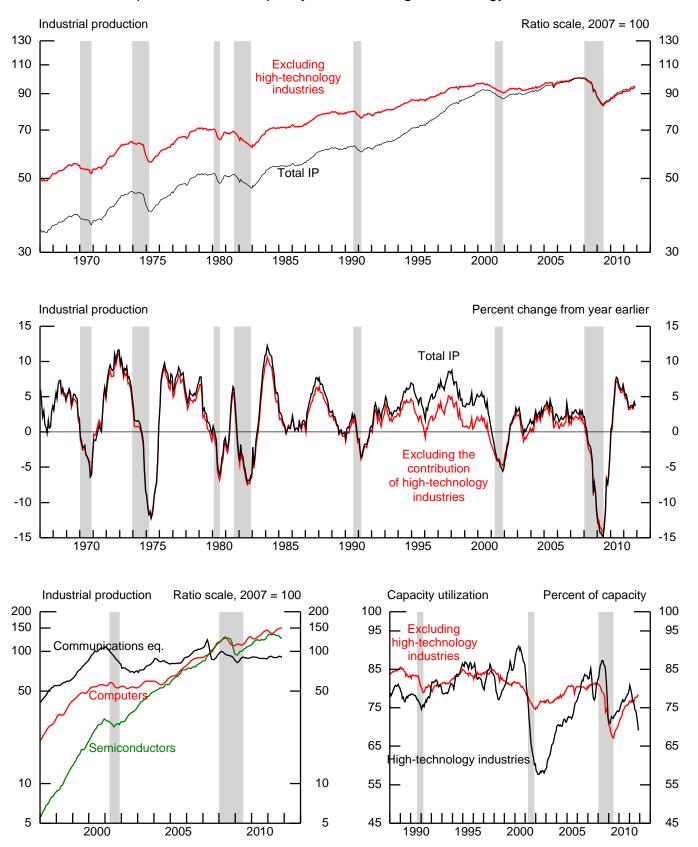


Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

2. Industrial production and capacity utilization



3. Industrial production and capacity utilization, high-technology industries



Notes: High-technology industries are defined as semiconductors and related electronic components (NAICS 334412-9), computers (NAICS 3341), and communications equipment (NAICS 3342).

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

Table 1 INDUSTRIAL PRODUCTION: MARKET AND INDUSTRY GROUP SUMMARY

Item			100	rth quart	er	Aı	ınual rat	e			Month	ly rate			Nov. '10
		2010 proportion ¹	2008	2009	2010	2011 Q1	Q2 ^r	Q3 ^r	2011 June ^r	July	Aug.r	Sept. ^r	Oct.r	Nov.p	to Nov. '11
Total IP		100.00	-9.1	-5.5	6.2	4.8	.7	6.1	.1	1.1	.3	.0	.7	2	3.7
MARKET GROUPS								- 0							
Final products and nonindustrial supplies		55.24	-9.1	-5.5	5.3	4.9	1.0	5.8	1	.9	.5	.1	.5	4	3.6
Consumer goods		29.07	-7.5	-2.1	3.3	3.4	-1.2	4.0	1	.7	.3	1	.4	5	2.0
Durable		6.17	-18.5	-1.7	5.6	20.0	-3.8	11.4	1	1.9	.7	.9	1.7	-1.4	8.1
Automotive products Home electronics		3.26	-22.2	9.1 2.5	6.1	29.2 -19.3	-7.5 -1.2	16.8 31.2	.6	2.4	1.4	.9 1.3	3.5	-2.7 -2.0	12.0
Appliances, furniture, carpeting		.23 .82	-0.3	-15.0	-6.8 3.2	11.3	-1.2 -1.1	-2.2	.6 7	-1.0	1.2	1.3 1	. / 6	-2.0	2
Miscellaneous goods		1.85	-12.7	-12.1	7.6	13.9	1.6	6.5	-1.0	2.1	9	1.2	5	2	5.9
Nondurable		22.91	-3.9	-2.2	2.6	7	5	2.0	-1.0	.4	.2	4	.1	2	.4
Non-energy		16.98	-5.7	-2.8	2.2	4	.5	-2.1	3	1	.0	1	.7	7	3
Foods and tobacco		9.43	-4.1	-1.2	4.8	6	8	7	1	.5	5	.1	.9	4	.6
Clothing		.21	-12.3	-23.8	7.6	5	-4.2	-10.7	6	.2	-3.0	-2.0	1.7	7	-5.0
Chemical products		5.26	-7.3	-3.5	6	1.2	6.8	-5.3	1	-1.1	.0	8	.3	8	6
Paper products		1.56	-9.8	-5.7	-3.2	-5.9	-13.2	7	-3.3	.0	2.7	1.7	.4	-2.3	-5.4
Energy		5.92	1.9	.1	3.9	-1.2	-3.6	14.0	.6	1.9	.8	-1.3	-1.6	1.0	2.3
Position and the second		0.06	12.0	7.0	12.2	12.4	4.2	12.5	2	1.0	1.0	0	1.4		10.0
Business equipment		9.06	-12.9 -35.4	-7.9 11.9	12.2	13.4 19.1	4.3	12.5 32.1	.3 1.4	1.2 3.0	1.2 2.9	.8	1.4	1	10.0
Transit Information processing		1.88 2.51	-35.4	11.9	10.5 11.3	9.1	-2.6	11.8	1.4 8	2.3	2.9	.8 1.3	.7	.0	25.3
Information processing Industrial and other		4.67	-8.4	-18.0	13.3	13.6	-2.6 .9	5.2	8 .4	.0	.9 .6	1.5	.4	3	5.9
Defense and space equipment		2.36	1.9	1.2	5.5	2.3	.9 4	1.5	-1.6	.0	.7	.1	1.3	1.4	3.9
					- 10			- 10		.,			- 10		
Construction supplies Business supplies		4.08 10.06	-17.0 -8.7	-17.3 -5.8	10.1 1.4	1.6 2.5	5.8 .9	6.5 4.6	.0 4	1.2	5 .7	.4 1	.3 2	.4 -1.1	3.7
Materials		44.76	-9.1	-5.5	7.5	4.6	.4	6.5	.4	1.4	.0	1	.8	.0	4.0
Non-energy		27.26	-14.1	-7.7	8.0	10.2	-1.2	3.5	.0	.8	2	.6	.2	.0	4.0
Durable		15.40	-13.7	-12.9	11.5	14.9	2.1	3.5	.0	.7	1	.1	.4	.4	5.9
Consumer parts		2.02	-26.0	-14.7	9.0	9.2	-10.9	9.7	2.7	1.2	5	.1	.1	2	1.3
Equipment parts		5.71	-7.3	-10.7	11.8	19.0	5.1	2.9	.8	7	.9	2	.4	.0	7.3
Other		7.67	-14.3	-14.0	12.0	13.3	3.4	2.5	-1.3	1.5	7	.3	.4	.7	6.0
Nondurable		11.87	-14.8	.0	3.5	4.2	-5.6	3.6	.0	.9	2	1.1	.1	5	1.6
Textile		.47	-16.9	-4.6	9.5	1.9	16.0	3.2	.7	.9	-2.1	1.6	.8	3	6.9
Paper		2.30	-11.0	-4.5	.5	2.7	-6.5	-4.9	1	.6	-2.2	.7	-1.2	.6	-2.9
Chemical		5.44	-21.1	2.9	4.9	8.2	-8.0	8.1	.0	1.9	5	2.6	5	8	3.3
Energy		17.50	8	-1.9	6.5	-3.6	3.0	11.4	1.1	2.5	.2	-1.1	1.7	.0	3.9
INDUSTRY GROUPS															
Manufacturing	24 22	74.67	-11.8	-6.1	6.1	7.2	.1	4.9	.1	.8	.3	.4	.5	4	3.8
Manufacturing (NAICS)	31–33	71.48	-11.8	-5.9	6.6	7.8	.6	4.9	.1	.8	.2	.4	.5	3	4.2
Durable manufacturing	224	35.68	-13.3	-9.1	9.6	13.7	2.0	7.5	.2	.9	.5	.5	.8	1	7.1
Wood products	321	.93	-22.5	-11.7	6.3	11.1	-5.1	-6.9	-2.7	3	-1.7	3.3	-1.1	-1.7	-1.5
Nonmetallic mineral products	327 331	1.57 2.19	-19.4 -19.9	-18.3 -8.3	7.0	-8.6 25.7	13.2	7.6	.1 -1.7	.9 1.5	.6 5	5 .9	-1.6 .9	.5 1.8	9.6
Primary metals Fabricated metal products	332	5.14	-19.9	-0.3 -19.3	14.0	9.1	12.7	8.1	1.6	.8	3 1	.9 5	.2	.6	7.7
Machinery	333	4.63	-9.0	-20.4	16.3	25.2	.8	6.0	1.6	.1	5	5	.7	.3	9.4
Computer and electronic products	334	6.51	-5.7	1.4	10.8	13.9	-1.9	5.4	9	1.1	9	.2	1	2	4.3
Electrical equip., appliances,	334	0.51	3.7	1.7	10.0	13.7	-1.7	5.4	,	1.1	.,	.2	1	2	7.5
and components	335	1.74	-10.5	-17.5	9.6	1.0	-8.1	-6.0	2	-2.1	.6	1.0	2.4	-1.8	-2.5
Motor vehicles and parts	3361–3	4.50	-28.7	2.3	10.2	29.1	-14.4	17.9	.2	2.9	1.7	.4	3.4	-3.4	9.0
Aerospace and miscellaneous															
transportation equipment	3364-9	4.20	-13.7	.8	.9	3.3	19.9	16.1	1.1	1.2	1.7	.9	2.2	2.1	15.5
Furniture and related products	337	1.04	-20.7	-21.3	6.5	8.4	5.6	3.2	-3.6	1.3	2.1	5	-1.4	.3	3.0
Miscellaneous	339	3.22	-1.1	-5.3	4.1	11.5	2.6	6.7	.8	.4	.0	1.4	1	9	4.9
		25.00	101	2.2	2.5	2.4				_					
Nondurable manufacturing	211.2	35.80	-10.1	-2.3	3.5	2.1	9	2.3	.0	.6	1	.3	.2	4	1.3
Food, beverage, and tobacco products Textile and product mills	311,2	11.70	-3.4 -16.7	5 10.5	4.4	7 2.9	9	3	1	.4	1 -1.4	2	1.2	4	.8
1	313,4	.74		-10.5	6.8		7.4	8	.4	.2		.6	.3	6 1 1	2.7
Apparel and leather Paper	315,6 322	.29 2.75	-18.6 -12.9	-18.9 3	6.8 2.2	5.1 2.9	7 -7.9	-6.9 -5.1	4 3	.3 2	-2.3 -1.4	-1.3 .9	2.1	-1.1 1.1	7 -1.8
Printing and support	322	1.57	-12.9	-13.5	-3.0	-2.8	-7.9	-3.1	-1.3	1.1	-1.4	9	6	-1.3	-1.8
Petroleum and coal products	323	3.81	-4.0	-15.5	4.3	-2.8 -7.0	3.9	17.2	1.2	1.1	-1.0	9	-1.1	-1.5	3.1
Chemicals	325	11.88	-14.6	5	1.9	7.5	-2.2	2.6	.2	.4	.1	1.0	2	9	2.0
Plastics and rubber products	326	3.06	-15.5	-7.3	9.8	5.4	2.4	2.7	9	1.5	6	.1	.7	3	3.1
Other manufacturing (non-NAICS)	1133,5111	3.19	-12.2	-10.0	-4.7	-7.2	-10.5	3.9	-2.3	.3	2.8	1.0	.2	-2.2	-4.2
Other manufacturing (non-1 (1100)			1												_
	21	13.94	4	-5.4	10.0	-3.9	8.3	11.4	3	1.5	1.1	.1	2.1	.1	6.7
Mining Utilities	21 2211,2	13.94 11.39	4 4	-5.4 -1.3	10.0	-3.9 .5	8.3 -4.8	11.4 8.2	.3 .4	1.5 3.2	1.1 -1.1	.1 -3.0	2.1	.1	6.7
Mining															

r Revised. p Preliminary.

NOTE. Under the industry groups, the figures to the right of the series descriptions are 2002 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 web site (www.federalreserve.gov/releases/G17). Under market groups, in the products category, miscellaneous consumer nondurables, oil and gas drilling, and manufactured homes are not shown separately; in the nondurable materials category, containers and miscellaneous nondurable materials are not shown

^{1.} The proportion data are the relative weights for the rates of change for each series in the computation of the change in total industrial production in the following year.

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

refeelit change, seasonarry adjusted																
			Fou	rth quarte	er to											
			fo	urth quar	ter	A	nnual rat	e			Month	nly rate			Nov. '10	
Item		2010				2011			2011			-			to	
		proportion	2008	2009	2010	Q1	$Q2^{r}$	Q3 ^r	June ^r	July ^r	Aug.r	Sept.r	Oct.r	Nov.p	Nov. '11	
Total industry		100.00	-9.1	-5.5	6.2	4.8	.7	6.1	.1	1.1	.3	.0	.7	2	3.7	
•																
Energy		27.15	1	-2.4	6.0	-2.4	1.9	11.5	.8	2.1	.5	-1.2	.7	.1	3.2	
Consumer products		5.92	1.9	.1	3.9	-1.2	-3.6	14.0	.6	1.9	.8	-1.3	-1.6	1.0	2.3	
Commercial products		3.17	6	2	1.7	-1.9	1.5	4.6	.1	.3	1.5	-2.1	9	8	-1.6	
Oil and gas well drilling	213111	.56	6.8	-42.4	44.7	20.7	28.0	23.8	.3	2.4	2.2	.8	1.9	7	21.2	
Converted fuel	-	4.37	-5.7	-1.3	3.4	-1.0	7.1	4.9	.9	3.2	-2.9	-2.5	.8	.2	1.5	
Primary energy		13.12	.7	-2.1	7.6	-4.4	1.7	13.6	1.1	2.3	1.2	7	2.0	1	4.6	
															1.0	
Non-energy		72.85	-12.1	-6.5	6.3	7.6	.3	4.2	1	.8	.2	.5	.7	4	3.9	
Selected high-technology industries		3.56	-5.5	6.1	10.5	16.1	-1.7	.9	.1	4	1.0	7	-1.3	8	1.3	
	2241	1	-1.5			-9.8			2.4			1.2			4.3	
Computers and peripheral equipment	3341	.77	1	15.7	12.1		-2.3	26.8	1	2.5	1.5		.6	1		
Communications equipment	3342	.73	-3.1	.1	-1.4	15.7	-5.7	4.3	1	.5	.8	1.1	4	-1.8	2.0	
Semiconductors and related	224412 0	2.06	7.0	4.0	111	27.4	2	0.2		1.7	0	2.1	2.4	-		
electronic components	334412–9	2.06	-7.8	4.3	14.4	27.4	2	-8.2	6	-1.7	.8	-2.1	-2.4	7	2	
Evaluding calcuted high technology																
Excluding selected high-technology		60.20	12.6	7.2	6.1	7.1	4	4.4	1	0	1	_	7	2	1.0	
industries		69.29	-12.6	-7.2	6.1	7.1	.4	4.4	1	.8	.1	.5	.7	3	4.0	
Motor vehicles and parts	3361-3	4.50	-28.7	2.3	10.2	29.1	-14.4	17.9	.2	2.9	1.7	.4	3.4	-3.4	9.0	
Motor vehicles	3361	2.36	-32.0	10.9	15.4	41.4	-17.2	34.3	.8	4.3	3.4	1.5	4.8	-5.5	15.6	
Motor vehicle parts	3363	1.84	-23.0	-7.3	2.8	3.9	-14.5	6.2	.1	1.5	.3	.4	.9	-1.1	-1.1	
Wotor venicle parts	3303	1.04	-23.0	-7.5	2.0	3.7	-14.5	0.2		1.5	.5		.,	-1.1	-1.1	
Excluding motor vehicles and parts	i .	64.79	-11.4	-7.8	5.8	5.7	1.5	3.5	2	.7	.0	.5	.6	1	3.7	
Consumer goods		20.21	-7.7	-4.8	2.8	1.3	1.3	-1.4	3	.0	1	.1	.6	5	.7	
Business equipment		7.29	-13.0	-9.7	10.4	12.1	6.0	12.7	.3	1.3	1.0	.9	1.0	.4	10.4	
Construction supplies		4.06	-17.1	-17.4	10.2	1.4	5.9	6.5	.0	1.2	5	.4	.3	.4	3.7	
Business supplies		6.64	-11.7	-8.4	.9	3.8	.6	5.0	6	1.1	.3	.9	.2	-1.2	1.9	
Materials		24.22	-13.4	-8.5	7.7	9.1	1	4.0	.0	.9	3	.7	.4	.1	4.6	
Marana and Parada da I																
Measures excluding selected high-technology industries																
Total industry		96.44	-9.3	-5.9	6.1	4.4	.8	6.3	.1	1.2	.2	.0	.7	2	3.8	
Manufacturing ¹		71.11	-12.3	-6.8	5.8	6.7	.2	5.0	.0	.8	.3	.5	.6	3	3.9	
Durable		32.26	-14.3	-10.8	9.5	13.3	2.4	8.2	.3	1.1	.5	.6	1.0	1	7.6	
Durable		32.20	-14.3	-10.6	7.3	13.3	2.4	0.2		1.1	.5	.0	1.0	1	7.0	
Measures excluding motor vehicles																
and parts																
Total industry		95.50	-8.1	-5.8	6.1	3.7	1.5	5.6	.1	1.1	.2	.0	.5	1	3.5	
Manufacturing ¹		70.17	-10.7	-6.6	5.8	5.9	1.2	4.1	.0	.6	.2	.4	.3	2	3.5	
Durable		31.31	-10.7	-0.6 -10.6	3.8 9.5	11.6	4.6	6.1	.0	.0 .7	.2	.5	.s .5	2 .4	6.8	
Duraule		31.31	-11.1	-10.0	7.3	11.0	+.0	0.1		. /	.3	.5	.5	.4	0.0	
Measures excluding selected																
high-technology industries																
and motor vehicles and parts																
Total industry		91.94	-8.2	-6.3	5.9	3.3	1.6	5.8	1	1.1	2	0	.6	.0	3.6	
Manufacturing ¹		66.61	-11.1	-7.3	5.6	5.3	1.3	4.2	.0	.7	.2	.5	.4	1	3.6	
1414111114Cturing		00.01	-11.1	-1.5	J.U	3.3	1.3	7.4	.0	.,				1	5.0	
Stage-of-process components																
of non-energy materials,																
measures of the input to																
Finished processors		10.49	-12.8	-10.0	8.7	12.7	1	2.5	.9	.0	2	.1	.0	.1	3.9	
Primary and semifinished processors		16.77	-15.0	-6.1	7.6	8.6	-1.9	4.2	6	1.3	2	.8	.4	1	4.1	
		10.77	15.0	0.1	7.0	3.0	1.7	1.2		1.0		.0		••		

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

withous of units, seasonarry adjusted aimual rate												
	2010	2010	2011			2011						
Item	average	Q4	Q1	Q2	Q3	June	July	Aug.	Sept.	Oct.	Nov.	
Total	7.74	7.79	8.42	7.94	8.64	8.04	8.47	8.71	8.73	9.15	8.66	
Autos	2.73	2.54	2.70	2.75	2.87	2.80	2.68	3.03	2.90	3.17	3.11	
Trucks	5.01	5.25	5.73	5.18	5.76	5.24	5.78	5.68	5.82	5.98	5.55	
Light	4.87	5.09	5.54	4.94	5.52	4.98	5.55	5.43	5.57	5.71	5.29	
Medium and heavy	.15	.16	.19	.24	.25	.26	.24	.25	.25	.27	.26	
Memo												
Autos and light trucks	7.60	7.63	8.23	7.69	8.39	7.79	8.23	8.46	8.48	8.88	8.40	

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

r Revised. p Preliminary.

1. Refer to note on cover page.

 Table 4

 INDUSTRIAL PRODUCTION INDEXES: MARKET AND INDUSTRY GROUP SUMMARY

 2007 = 100, seasonally adjusted

007 = 100, seasonally adjusted											
Item		2010 proportion	2011 Mar.	Apr.	May	June ^r	July ^r	Aug.r	Sept. ^r	Oct.r	Nov. ^p
Total IP		100.00	93.1	92.7	93.0	93.1	94.2	94.4	94.4	95.0	94.8
		100.00	, , , , ,	,2.,	75.0	75.1	,	<i>,</i>	,	75.0	,
MARKET GROUPS Final products and nonindustrial supplies		55.24	91.4	91.2	91.8	91.7	92.5	93.0	93.1	93.6	93.2
Consumer goods		29.07	93.2	92.8	93.2	93.1	93.8	94.1	93.9	94.3	93.9
Durable		6.17	89.4	86.7	87.0	87.0	88.6	89.2	90.0	91.5	90.3
Automotive products		3.26	97.1	92.8	92.5	93.0	95.3	96.6	97.5	100.9	98.2
Home electronics		.23	88.7	88.1	94.9	95.5	98.1	99.3	100.6	101.3	99.3
Appliances, furniture, carpeting		.82	72.1	69.0	69.2	68.7	68.1	68.9	68.8	68.4	68.3
Miscellaneous goods		1.85	84.3	83.9	84.9	84.1	85.8	85.0	86.0	85.6	86.1
Nondurable		22.91	94.6	94.9	95.2	95.2	95.6	95.8	95.4	95.4	95.2
Non-energy		16.98 9.43	92.2 97.5	93.0 98.3	92.5 97.5	92.2 97.4	92.1 97.8	92.1 97.4	92.0 97.4	92.6 98.3	92.0
Foods and tobacco Clothing		.21	65.1	98.3 65.8	65.9	65.5	65.6	63.7	62.4	63.4	98.0 63.0
Chemical products		5.26	89.3	90.3	90.3	90.3	89.3	89.3	88.6	88.9	88.2
Paper products		1.56	77.2	76.9	76.2	73.7	73.7	75.7	77.0	77.3	75.0
Energy		5.92	102.9	101.8	104.7	105.3	107.3	108.1	106.8	105.1	106.
Business equipment		9.06	94.6	94.5	95.8	96.1	97.3	98.5	99.2	100.6	100.4
Transit		1.88	90.3	90.2	92.7	94.0	96.8	99.6	100.5	104.5	104.5
Information processing		2.51	111.1	110.1	110.4	109.5	111.9	112.9	114.4	115.2	115.4
Industrial and other		4.67	88.1	88.3	89.6	89.9	89.9	90.5	90.9	91.3	91.
Defense and space equipment		2.36	116.8	116.8	117.1	115.3	116.3	117.1	117.2	118.7	120.
Construction supplies		4.08	75.2	75.0	76.3	76.3	77.3	76.9	77.2	77.4	77.
Business supplies		10.06	87.8	87.4	87.9	87.5	88.2	88.8	88.7	88.5	87.
Materials		44.76	95.1	94.6	94.5	94.9	96.2	96.2	96.1	96.9	96.
Non-energy		27.26	89.3	88.5	88.6	88.6	89.3	89.1	89.6	89.9	89.
Durable		15.40	88.9	88.5	89.2	89.1	89.7	89.6	89.7	90.1	90.
Consumer parts		2.02 5.71	69.6 103.0	66.2 102.5	65.6 103.6	67.4 104.4	68.2 103.7	67.8 104.6	67.9 104.4	67.9 104.8	67. 104.
Equipment parts Other		7.67	85.7	86.1	87.0	85.9	87.2	86.5	86.8	87.2	87.
Nondurable		11.87	89.9	88.8	88.0	88.0	88.8	88.6	89.6	89.7	89.
Textile		.47	82.5	86.1	86.8	87.4	88.2	86.4	87.7	88.4	88.
Paper		2.30	85.7	85.6	84.3	84.2	84.7	82.9	83.4	82.4	82.
Chemical		5.44	88.8	86.8	85.6	85.5	87.2	86.7	89.0	88.5	87.
Energy		17.50	104.9	104.9	104.3	105.4	108.0	108.2	107.0	108.8	108.
INDUSTRY GROUPS		74.67	00.1	90.6	90.7	90.9	00.5	00.7	01.1	01.6	01.
Manufacturing Manufacturing (NAICS)	31–33	74.67 71.48	90.1 91.1	89.6 90.6	89.7 90.8	89.8 90.9	90.5 91.6	90.7 91.8	91.1 92.2	91.6 92.6	91. 92.
Durable manufacturing	31-33	35.68	91.3	90.5	91.2	91.4	92.2	92.7	93.1	93.9	93.
Wood products	321	.93	73.2	71.4	72.1	70.1	69.9	68.8	71.0	70.3	69.
Nonmetallic mineral products	327	1.57	68.2	68.8	70.1	70.1	70.8	71.2	70.9	69.7	70.
Primary metals	331	2.19	91.7	91.1	90.4	88.9	90.2	89.8	90.6	91.5	0.2
Fabricated metal products	332	~ 1.4			, , , ,				70.0	91.5	93.
Maahinam.		5.14	84.9	85.7	86.5	87.9	88.6	88.5	88.1	88.3	88.
Machinery	333	4.63	89.1	88.6	86.5 90.0	87.9 91.4	91.5	91.0	88.1 91.5	88.3 92.1	88. 92.
Computer and electronic products					86.5	87.9			88.1	88.3	88. 92.
Computer and electronic products Electrical equip., appliances,	333 334	4.63 6.51	89.1 115.3	88.6 114.7	86.5 90.0 115.4	87.9 91.4 114.3	91.5 115.5	91.0 116.6	88.1 91.5 116.8	88.3 92.1 116.7	88. 92. 116.
Computer and electronic products	333	4.63	89.1	88.6	86.5 90.0	87.9 91.4	91.5	91.0	88.1 91.5	88.3 92.1	88. 92. 116. 79.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous	333 334 335	4.63 6.51 1.74	89.1 115.3 81.5	88.6 114.7 79.9	86.5 90.0 115.4 79.6	87.9 91.4 114.3	91.5 115.5 77.8	91.0 116.6 78.3	88.1 91.5 116.8 79.1	88.3 92.1 116.7 81.0	88. 92. 116. 79.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment	333 334 335 3361–3 3364–9	4.63 6.51 1.74 4.50 4.20	89.1 115.3 81.5 85.0 96.0	88.6 114.7 79.9 79.4 98.2	86.5 90.0 115.4 79.6 79.0	87.9 91.4 114.3 79.4 79.2	91.5 115.5 77.8 81.5	91.0 116.6 78.3 82.9	88.1 91.5 116.8 79.1 83.2	88.3 92.1 116.7 81.0 86.1	88. 92. 116. 79. 83.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products	333 334 335 3361–3 3364–9 337	4.63 6.51 1.74 4.50 4.20 1.04	89.1 115.3 81.5 85.0 96.0 70.0	88.6 114.7 79.9 79.4 98.2 69.0	86.5 90.0 115.4 79.6 79.0 99.5 70.5	87.9 91.4 114.3 79.4 79.2 100.6 68.0	91.5 115.5 77.8 81.5 101.8 68.9	91.0 116.6 78.3 82.9 103.5 70.3	88.1 91.5 116.8 79.1 83.2 104.4 70.0	88.3 92.1 116.7 81.0 86.1 106.7 69.0	88. 92. 116. 79. 83. 108. 69.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous	333 334 335 3361–3 3364–9	4.63 6.51 1.74 4.50 4.20 1.04 3.22	89.1 115.3 81.5 85.0 96.0 70.0 100.5	88.6 114.7 79.9 79.4 98.2 69.0 100.5	86.5 90.0 115.4 79.6 79.0 99.5 70.5 101.1	87.9 91.4 114.3 79.4 79.2 100.6 68.0 101.9	91.5 115.5 77.8 81.5 101.8 68.9 102.4	91.0 116.6 78.3 82.9 103.5 70.3 102.3	88.1 91.5 116.8 79.1 83.2 104.4 70.0 103.8	88.3 92.1 116.7 81.0 86.1 106.7 69.0 103.7	88.92.4 116.4 79.4 83. 108.4 69.2
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing	333 334 335 3361–3 3364–9 337 339	4.63 6.51 1.74 4.50 4.20 1.04 3.22 35.80	89.1 115.3 81.5 85.0 96.0 70.0 100.5	88.6 114.7 79.9 79.4 98.2 69.0 100.5 91.0	86.5 90.0 115.4 79.6 79.0 99.5 70.5 101.1 90.6	87.9 91.4 114.3 79.4 79.2 100.6 68.0 101.9 90.7	91.5 115.5 77.8 81.5 101.8 68.9 102.4 91.2	91.0 116.6 78.3 82.9 103.5 70.3 102.3	88.1 91.5 116.8 79.1 83.2 104.4 70.0 103.8 91.4	88.3 92.1 116.7 81.0 86.1 106.7 69.0 103.7 91.6	88. 92. 116. 79. 83. 108. 69. 102.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products	333 334 335 3361–3 3364–9 337 339	4.63 6.51 1.74 4.50 4.20 1.04 3.22 35.80 11.70	89.1 115.3 81.5 85.0 96.0 70.0 100.5 91.2 99.0	88.6 114.7 79.9 79.4 98.2 69.0 100.5 91.0 99.7	86.5 90.0 115.4 79.6 79.0 99.5 70.5 101.1 90.6 98.9	87.9 91.4 114.3 79.4 79.2 100.6 68.0 101.9 90.7 98.8	91.5 115.5 77.8 81.5 101.8 68.9 102.4 91.2 99.2	91.0 116.6 78.3 82.9 103.5 70.3 102.3 91.1 99.1	88.1 91.5 116.8 79.1 83.2 104.4 70.0 103.8 91.4 98.9	88.3 92.1 116.7 81.0 86.1 106.7 69.0 103.7 91.6 100.0	88. 92. 116. 79. 83. 108. 69. 102. 91.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills	333 334 335 3361–3 3364–9 337 339 311,2 313,4	4.63 6.51 1.74 4.50 4.20 1.04 3.22 35.80 11.70	89.1 115.3 81.5 85.0 96.0 70.0 100.5 91.2 99.0 76.5	88.6 114.7 79.9 79.4 98.2 69.0 100.5 91.0 99.7 78.1	86.5 90.0 115.4 79.6 79.0 99.5 70.5 101.1 90.6 98.9 78.2	87.9 91.4 114.3 79.4 79.2 100.6 68.0 101.9 90.7 98.8 78.5	91.5 115.5 77.8 81.5 101.8 68.9 102.4 91.2 99.2 78.7	91.0 116.6 78.3 82.9 103.5 70.3 102.3 91.1 99.1 77.6	88.1 91.5 116.8 79.1 83.2 104.4 70.0 103.8 91.4 98.9 78.0	88.3 92.1 116.7 81.0 86.1 106.7 69.0 103.7 91.6 100.0 78.3	88. 92. 116. 79. 83. 108. 69. 102. 91. 99.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather	333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6	4.63 6.51 1.74 4.50 4.20 1.04 3.22 35.80 11.70 .74	89.1 115.3 81.5 85.0 96.0 70.0 100.5 91.2 99.0 76.5 63.4	88.6 114.7 79.9 79.4 98.2 69.0 100.5 91.0 99.7 78.1 64.2	86.5 90.0 115.4 79.6 79.0 99.5 70.5 101.1 90.6 98.9 78.2 64.5	87.9 91.4 114.3 79.4 79.2 100.6 68.0 101.9 90.7 98.8 78.5 64.3	91.5 115.5 77.8 81.5 101.8 68.9 102.4 91.2 99.2 78.7 64.4	91.0 116.6 78.3 82.9 103.5 70.3 102.3 91.1 99.1 77.6 63.0	88.1 91.5 116.8 79.1 83.2 104.4 70.0 103.8 91.4 98.9 78.0 62.2	88.3 92.1 116.7 81.0 86.1 106.7 69.0 103.7 91.6 100.0 78.3 63.5	88. 92. 116. 79. 83. 108. 69. 102. 91. 99. 77. 62.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper	333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322	4.63 6.51 1.74 4.50 4.20 1.04 3.22 35.80 11.70 .74 .29 2.75	89.1 115.3 81.5 85.0 96.0 70.0 100.5 91.2 99.0 76.5 63.4 89.4	88.6 114.7 79.9 79.4 98.2 69.0 100.5 91.0 99.7 78.1 64.2 88.6	86.5 90.0 115.4 79.6 79.0 99.5 70.5 101.1 90.6 98.9 78.2 64.5 87.7	87.9 91.4 114.3 79.4 79.2 100.6 68.0 101.9 90.7 98.8 78.5 64.3 87.5	91.5 115.5 77.8 81.5 101.8 68.9 102.4 91.2 99.2 78.7 64.4 87.3	91.0 116.6 78.3 82.9 103.5 70.3 102.3 91.1 99.1 77.6 63.0 86.1	88.1 91.5 116.8 79.1 83.2 104.4 70.0 103.8 91.4 98.9 78.0 62.2 86.9	88.3 92.1 116.7 81.0 86.1 106.7 69.0 103.7 91.6 100.0 78.3 63.5 86.2	88. 92. 116. 79. 83. 108. 69. 102. 91. 99. 77. 62. 87.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support	333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6	4.63 6.51 1.74 4.50 4.20 1.04 3.22 35.80 11.70 .74 .29 2.75 1.57	89.1 115.3 81.5 85.0 96.0 70.0 100.5 91.2 99.0 76.5 63.4	88.6 114.7 79.9 79.4 98.2 69.0 100.5 91.0 99.7 78.1 64.2	86.5 90.0 115.4 79.6 79.0 99.5 70.5 101.1 90.6 98.9 78.2 64.5	87.9 91.4 114.3 79.4 79.2 100.6 68.0 101.9 90.7 98.8 78.5 64.3 87.5 73.6	91.5 115.5 77.8 81.5 101.8 68.9 102.4 91.2 99.2 78.7 64.4	91.0 116.6 78.3 82.9 103.5 70.3 102.3 91.1 99.1 77.6 63.0 86.1 73.7	88.1 91.5 116.8 79.1 83.2 104.4 70.0 103.8 91.4 98.9 78.0 62.2 86.9 73.0	88.3 92.1 116.7 81.0 86.1 106.7 69.0 103.7 91.6 100.0 78.3 63.5	88. 92. 116. 79. 83. 108. 69. 102. 91. 92. 77. 62. 87.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper	333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323	4.63 6.51 1.74 4.50 4.20 1.04 3.22 35.80 11.70 .74 .29 2.75	89.1 115.3 81.5 85.0 96.0 70.0 100.5 91.2 99.0 76.5 63.4 89.4 74.4	88.6 114.7 79.9 79.4 98.2 69.0 100.5 91.0 99.7 78.1 64.2 88.6 74.7	86.5 90.0 115.4 79.6 79.0 99.5 70.5 101.1 90.6 98.9 78.2 64.5 87.7 74.6	87.9 91.4 114.3 79.4 79.2 100.6 68.0 101.9 90.7 98.8 78.5 64.3 87.5	91.5 115.5 77.8 81.5 101.8 68.9 102.4 91.2 99.2 78.7 64.4 87.3 74.4	91.0 116.6 78.3 82.9 103.5 70.3 102.3 91.1 99.1 77.6 63.0 86.1	88.1 91.5 116.8 79.1 83.2 104.4 70.0 103.8 91.4 98.9 78.0 62.2 86.9	88.3 92.1 116.7 81.0 86.1 106.7 69.0 103.7 91.6 100.0 78.3 63.5 86.2 72.6	88. 92. 116. 79. 83. 108. 69. 102. 91. 99. 77. 62. 87. 71.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products	333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 323 324	4.63 6.51 1.74 4.50 4.20 1.04 3.22 35.80 11.70 .74 .29 2.75 1.57 3.81	89.1 115.3 81.5 85.0 96.0 70.0 100.5 91.2 99.0 76.5 63.4 89.4 74.4 97.5	88.6 114.7 79.9 79.4 98.2 69.0 100.5 91.0 99.7 78.1 64.2 88.6 74.7 95.4	86.5 90.0 115.4 79.6 79.0 99.5 70.5 101.1 90.6 98.9 78.2 64.5 87.7 74.6 97.4	87.9 91.4 114.3 79.4 79.2 100.6 68.0 101.9 90.7 98.8 78.5 64.3 87.5 73.6 98.6	91.5 115.5 77.8 81.5 101.8 68.9 102.4 91.2 99.2 78.7 64.4 87.3 74.4 100.4	91.0 116.6 78.3 82.9 103.5 70.3 102.3 91.1 99.1 77.6 63.0 86.1 73.7 101.2	88.1 91.5 116.8 79.1 83.2 104.4 70.0 103.8 91.4 98.9 78.0 62.2 86.9 73.0 101.7	88.3 92.1 116.7 81.0 86.1 106.7 69.0 103.7 91.6 100.0 78.3 63.5 86.2 72.6 100.6	88. 92. 116. 79. 83. 108. 69. 102. 91. 99. 77. 62. 87. 71. 100. 88.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals	333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325	4.63 6.51 1.74 4.50 4.20 1.04 3.22 35.80 11.70 .74 .29 2.75 1.57 3.81 11.88	89.1 115.3 81.5 85.0 96.0 70.0 100.5 91.2 99.0 76.5 63.4 89.4 74.4 97.5 89.5	88.6 114.7 79.9 79.4 98.2 69.0 100.5 91.0 99.7 78.1 64.2 88.6 74.7 95.4 88.6	86.5 90.0 115.4 79.6 79.0 99.5 70.5 101.1 90.6 98.9 78.2 64.5 87.7 74.6 97.4 87.8	87.9 91.4 114.3 79.4 79.2 100.6 68.0 101.9 90.7 98.8 78.5 64.3 87.5 73.6 98.6 87.9	91.5 115.5 77.8 81.5 101.8 68.9 102.4 91.2 99.2 78.7 64.4 87.3 74.4 100.4 88.3	91.0 116.6 78.3 82.9 103.5 70.3 102.3 91.1 99.1 77.6 63.0 86.1 73.7 101.2 88.4	88.1 91.5 116.8 79.1 83.2 104.4 70.0 103.8 91.4 98.9 78.0 62.2 86.9 73.0 101.7 89.3	88.3 92.1 116.7 81.0 86.1 106.7 69.0 103.7 91.6 100.0 78.3 63.5 86.2 72.6 100.6 89.1	88. 92. 116. 79. 83. 108. 69. 102. 91. 99. 77. 62. 87. 71. 100. 88. 87.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products Other manufacturing (non-NAICS) Mining	333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111	4.63 6.51 1.74 4.50 4.20 1.04 3.22 35.80 11.70 .74 .29 2.75 1.57 3.81 11.88 3.06 3.19	89.1 115.3 81.5 85.0 96.0 70.0 100.5 91.2 99.0 76.5 63.4 89.4 74.4 97.5 89.5 86.2 70.3	88.6 114.7 79.9 79.4 98.2 69.0 100.5 91.0 99.7 78.1 64.2 88.6 74.7 95.4 88.6 86.9 69.9	86.5 90.0 115.4 79.6 79.0 99.5 70.5 101.1 90.6 98.9 78.2 64.5 87.7 74.6 97.4 87.8 87.2 69.9 105.8	87.9 91.4 114.3 79.4 79.2 100.6 68.0 101.9 90.7 98.8 78.5 64.3 87.5 73.6 98.6 87.9 86.5 68.3	91.5 115.5 77.8 81.5 101.8 68.9 102.4 91.2 99.2 78.7 64.4 87.3 74.4 100.4 88.3 87.8 68.5	91.0 116.6 78.3 82.9 103.5 70.3 102.3 91.1 99.1 77.6 63.0 86.1 73.7 101.2 88.4 87.2 70.4	88.1 91.5 116.8 79.1 83.2 104.4 70.0 103.8 91.4 98.9 78.0 62.2 86.9 73.0 101.7 89.3 87.3 71.1	88.3 92.1 116.7 81.0 86.1 106.7 69.0 103.7 91.6 100.0 78.3 63.5 86.2 72.6 100.6 89.1 87.9 71.3	88.9 92.4 116.4 79.6 83.1 108.9 69.2 91.2 99.6 77.9 62.8 87.2 110 88.3
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous transportation equipment Furniture and related products Miscellaneous Nondurable manufacturing Food, beverage, and tobacco products Textile and product mills Apparel and leather Paper Printing and support Petroleum and coal products Chemicals Plastics and rubber products	333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111	4.63 6.51 1.74 4.50 4.20 1.04 3.22 35.80 11.70 .74 .29 2.75 1.57 3.81 11.88 3.06 3.19	89.1 115.3 81.5 85.0 96.0 70.0 100.5 91.2 99.0 76.5 63.4 89.4 74.4 97.5 89.5 86.2 70.3	88.6 114.7 79.9 79.4 98.2 69.0 100.5 91.0 99.7 78.1 64.2 88.6 74.7 95.4 88.6 86.9	86.5 90.0 115.4 79.6 79.0 99.5 70.5 101.1 90.6 98.9 78.2 64.5 87.7 74.6 97.4 87.8 87.2 69.9	87.9 91.4 114.3 79.4 79.2 100.6 68.0 101.9 90.7 98.8 78.5 64.3 87.5 73.6 98.6 87.9 86.5	91.5 115.5 77.8 81.5 101.8 68.9 102.4 91.2 99.2 78.7 64.4 87.3 74.4 100.4 88.3 87.8 68.5	91.0 116.6 78.3 82.9 103.5 70.3 102.3 91.1 99.1 77.6 63.0 86.1 73.7 101.2 88.4 87.2	88.1 91.5 116.8 79.1 83.2 104.4 70.0 103.8 91.4 98.9 78.0 62.2 86.9 73.0 101.7 89.3 87.3 71.1	88.3 92.1 116.7 81.0 86.1 106.7 69.0 103.7 91.6 100.0 78.3 63.5 86.2 72.6 100.6 89.1 87.9 71.3	93.1 88.9 92.4 116.4 79.6 83.1 108.9 91.2 91.2 87.7 77.8 87.2 100.1 88.3 99.6 91.1 99.9

r Revised. p Preliminary. NOTE. Refer to notes on table 1.

 Table 5

 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

 2007 = 100, seasonally adjusted

Total industry	proportion 100.00 27.15 5.92 3.17 11 .56 4.37 13.12	93.1 103.8 102.9 102.3 91.8 97.1	92.7 103.3 101.8 100.2 95.1	93.0 103.8 104.7	93.1 104.7	94.2				Nov. ^p 94.8
Total industry	100.00 27.15 5.92 3.17 11 .56 4.37 13.12	93.1 103.8 102.9 102.3 91.8 97.1	92.7 103.3 101.8 100.2 95.1	93.0 103.8 104.7	93.1 104.7	94.2				
Part	27.15 5.92 3.17 11 .56 4.37 13.12	103.8 102.9 102.3 91.8 97.1	103.3 101.8 100.2 95.1	103.8 104.7	104.7		94.4	94.4	95.0	94.8
Stage-of-products	5.92 3.17 11 .56 4.37 13.12	102.9 102.3 91.8 97.1	101.8 100.2 95.1	104.7		106.0				
Semiconductors 3,17 102.3 100.2 101.6 101.8 102.1 103.6 101.4 100.5 101 103	3.17 11 .56 4.37 13.12	102.3 91.8 97.1	100.2 95.1		105.0	100.9	107.4	106.1	106.8	107.0
Odi and gas well drilling 213111 56 91.8 95.1 98.2 98.4 100.9 103.0 103.9 105.8 100.0 Converted fuel 4.37 97.1 98.3 99.1 100.0 103.2 100.2 97.7 98.5 99.1 Primary energy 13.12 107.4 106.9 105.9 107.0 109.5 110.8 110.0 112.2 112.0 Non-energy 2.85 89.6 89.2 89.4 89.3 90.0 90.1 90.6 91.2 91.0 Selected high-technology industries 77. 137.3 136.5 138.5 141.8 145.4 147.6 149.4 150.3 150.0 Computers and peripheral equipment 3341 77 137.3 136.5 138.5 141.8 145.4 147.6 149.4 150.3 150.0 Communications equipment 3342 73 91.7 90.4 89.7 89.6 90.0 90.8 91.8 91.4 81.5 Excluding selected high-technology industries 69.29 87.8 87.4 87.6 87.5 88.2 88.4 88.8 89.5 89.4 Motor vehicles and parts 3361 34.5 3361 34.5 34.4 34.5 34.5 34.5 34.5 34.5 Motor vehicles and parts 3363 1.84 72.5 69.4 68.6 68.7 69.9 70.2 70.8 70.0 Consumer goods 20.21 88.8 90.4 90.1 89.8 89.8 89.7 89.8 90.4 90.2 90.8 Excluding motor vehicles and parts 20.21 88.8 90.4 90.1 89.8 89.8 89.7 89.8 90.4 90.4 90.1 89.8 89.8 89.7 89.8 90.4 90.4 90.1 90.3 89.8 89.8 89.7 89.8 90.8	11 .56 4.37 13.12	91.8 97.1	95.1	101 6	105.3	107.3	108.1	106.8	105.1	106.1
Odi and gas well drilling Odi and gas well drilling Converted fuel A 377 97.1 98.3 99.1 100.0 103.2 100.2 97.7 98.5 99. Primary energy 13.12 107.4 106.9 105.9 107.0 109.5 110.8 110.0 112.2 112. Non-energy 72.85 89.6 89.2 89.4 89.3 90.0 90.1 90.6 91.2 99. Selected high-technology industries Computers and peripheral equipment A 341 77 137.3 136.5 138.5 141.8 145.4 147.6 149.4 150.3 150.	4.37 13.12	97.1		0.101	101.8	102.1	103.6	101.4	100.5	99.7
A37 97.1 98.3 99.1 100.0 103.2 100.2 97.7 98.5 99.5	4.37 13.12			98.2	98.4	100.9	103.0	103.9	105.8	105.1
Non-energy 72.85 89.6 89.2 89.4 89.3 90.0 90.1 90.6 91.2 99.5		107.4	98.3	99.1	100.0	103.2	100.2	97.7	98.5	98.7
Selected high-technology industries 3.56 124.2 123.9 124.4 124.5 124.1 125.3 124.4 122.7 12 12 12 13 13 13 14 15 15 15 15 15 15 15	72.85	1		105.9	107.0	109.5	110.8	110.0		112.1
Computers and peripheral equipment 3344 77 137.3 136.5 138.5 141.8 145.4 147.6 149.4 150.3 158.5 158.5 159	12.63	89.6	89.2	89.4	89.3	90.0	90.1	90.6	91.2	90.8
Computers and peripheral equipment 3344 77 137.3 136.5 138.5 141.8 145.4 147.6 149.4 150.3 158	3 56	124.2	123.0	124.4	124.5	124.1	125.3	124.4	122.7	121.7
Semiconductors equipment 3342 73 91.7 90.4 89.7 89.6 90.0 90.8 91.8 91.4 88										150.2
Semiconductors and related electronic components 334412-9 2.06 133.5 133.9 134.4 133.5 131.3 132.4 129.6 126.5 125.5										89.7
Excluding selected high-technology industries	+2 ./3	91.7	90.4	09.7	09.0	90.0	90.0	91.0	91.4	09.1
Motor vehicles and parts 3361-3 4.50 85.0 79.4 79.0 79.2 81.5 82.9 83.2 86.1 88.	-9 2.06	133.5	133.9	134.4	133.5	131.3	132.4	129.6	126.5	125.6
Motor vehicles and parts 3361-3 4.50 85.0 79.4 79.0 79.2 81.5 82.9 83.2 86.1 88.6 80.5 88.6 80.5										
Motor vehicles and parts 3361-3 4.50 85.0 79.4 79.0 79.2 81.5 82.9 83.2 86.1 81	69.29	87.8	87.4	87.6	87.5	88.2	88.4	88.8	89.5	89.2
Motor vehicles 3361 2.36 94.9 86.0 85.8 86.5 90.2 93.3 94.6 99.2 99.2 99.5		05.0		70.0	70.2	01.5			061	02
Motor vehicle parts 3363 1.84 72.5 69.4 68.6 68.7 69.7 69.9 70.2 70.8 70.8 70.2 Excluding motor vehicles and parts 64.79 88.0 88.0 88.0 88.3 88.2 88.8 88.8 89.2 89.7 89.8 90.4 90.1 89.8 89.8 89.7 89.8 90.4 90.4 90.1 89.8 89.8 89.7 89.8 90.4 90.4 90.1 89.8 89.8 89.7 89.8 90.4 90.4 90.1 89.8 89.8 89.7 89.8 90.4 90.4 90.1 89.8 89.8 89.7 89.8 90.4 90.4 90.1 89.8 89.8 89.7 89.8 90.4 90.4 90.1 89.8 89.8 89.8 89.7 89.8 90.4 90.4 90.1 89.8 89.8 89.8 89.7 89.8 90.4 90.4 90.4 90.1 89.8 89.8 89.8 89.7 89.8 90.4 90.4 90.4 90.1 89.8 89.8 89.8 89.7 89.8 90.4 90.4 90.3 90.3 90.3 90.2 90.3 90.3 90.2 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3										83.
Excluding motor vehicles and parts 64.79										93.8
Consumer goods 20.21 89.8 90.4 90.1 89.8 89.8 89.7 89.8 90.4 90.8	63 1.84	72.5	69.4	68.6	68.7	69.7	69.9	70.2	70.8	70.
Business equipment 7.29 91.2 91.8 93.3 93.6 94.8 95.7 96.6 97.6 97.6 97.6 Onstruction supplies 4.06 75.0 74.8 76.2 77.1 76.7 77.0 77.2 77.0 77.2 78.8 Materials 6.64 81.5 81.7 81.8 81.3 82.2 82.4 83.1 83.3 82.8 Materials 24.22 88.2 87.6 87.8 87.8 87.8 88.5 88.3 88.9 89.3 88.9 89.3 89.3 89.3 89.3										89.0
Construction supplies										90.0
Business supplies										97.9
Materials Mate										77.5
Measures excluding selected high-technology industries 96.44 91.9 91.5 91.8 91.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0 93.2 93.3 93.9 93.0										82.3
industries Total industry 96.44 91.9 91.5 91.8 91.9 93.0 93.2 93.3 93.9 93.9 93.0 93.2 93.3 93.9 93.9 93.0 93.2 93.3 93.9 93.9 93.0 93.2 93.3 93.9 93.9 93.0 93.2 93.3 93.9 93.9 93.0 93.2 93.3 93.9 93.9 93.8 94.8 95.0 95.50 93.5 93.4 93.7 93.8 94.8 95.0 95.5 95.6 95.7 95.9 95.8 95.9	24.22	88.2	87.6	87.8	87.8	88.5	88.3	88.9	89.3	89.4
Total industry 96.44 91.9 91.5 91.8 91.9 93.0 93.2 93.3 93.9 93.9 93.0 Manufacturing 1 71.11 88.4 87.9 88.0 88.0 88.8 89.0 89.4 89.9 89.0 Measures excluding motor vehicles and parts Total industry 95.50 93.5 93.4 93.7 93.8 94.8 95.0 95.0 95.5 93.0 Manufacturing 1 70.17 90.4 90.3 90.5 90.5 91.1 91.3 91.7 91.9 95.0 Measures excluding selected high-technology industries and motor vehicles and parts Total industry 91.94 92.3 92.2 92.5 92.6 93.6 93.8 93.8 94.3 94.3 94.3 94.3 95.0 95.0 95.5 95.0 95.0										
Manufacturing Manufacturin	06.14	01.0	01.5	01.9	01.0	02.0	02.2	02.2	02.0	93.7
Durable 32.26 87.7 87.0 87.6 87.8 88.7 89.2 89.7 90.6 90.6 90.6										
Measures excluding motor vehicles and parts 95.50 93.5 93.4 93.7 93.8 94.8 95.0 95.5 95										89.0
Stage-of-process components of non-energy materials, measures of the input to 95.50 95.50 95.50 93.5 93.4 93.7 93.8 94.8 95.0 95.0 95.5 9	32.26	87.7	87.0	8/.6	87.8	88.7	89.2	89.7	90.6	90.
Manufacturing 1 70.17 90.4 90.3 90.5 90.5 91.1 91.3 91.7 91.9 9 Durable 31.31 92.0 92.0 92.8 93.1 93.7 94.0 94.4 94.9 92 Measures excluding selected high-technology industries and motor vehicles and parts Total industry 91.94 92.3 92.2 92.5 92.6 93.6 93.8 93.8 94.3 94.3 94. Manufacturing 1 66.61 88.6 88.5 88.7 88.7 89.3 89.4 89.9 90.2 90. Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.49 90.3 89.4 89.5 90.3 90.3 90.2 90.3 90.3 90.3 90.3	05.50	02.5	02.4	02.7	02.0	04.0	05.0	05.0	05.5	0.5
Durable 31.31 92.0 92.0 92.8 93.1 93.7 94.0 94.4 94.9 93.5 94.0 94.4 94.9 93.5 94.0 94.4 94.9 93.5 94.0 94.4 94.9 93.5 94.0 94.4 94.9 93.5 94.0 94.4 94.9 93.5 94.0 94.4 94.9 93.5 94.0 94.4 94.9 93.5 94.0 94.4 94.9 93.5 94.0 94.4 94.9 93.5 94.0 94.4 94.9 94.5 94.										95.4
Measures excluding selected high-technology industries and motor vehicles and parts 91.94 92.3 92.2 92.5 92.6 93.6 93.8 93.8 94.3										91.8 95.2
Total industry 91.94 92.3 92.2 92.5 92.6 93.6 93.8 93.8 94.3 94.3 94.4 89.9 90.2 96.5 88.6 88.5 88.7 88.7 89.3 89.4 89.9 90.2 96.5 88.6 88.5 88.7 89.3 89.4 89.9 90.2 96.5 89.4 89.9 90.2 96.5 88.6 88.5 88.7 89.3 89.4 89.9 90.2 96.5 89.4 89.5 90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3										
Manufacturing ¹ 66.61 88.6 88.5 88.7 88.7 89.3 89.4 89.9 90.2 90 Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.49 90.3 89.4 89.5 90.3 90.3 90.2 90.3 90.3 90.3 90.3										
Stage-of-process components of non-energy materials, measures of the input to Finished processors 10.49 90.3 89.4 89.5 90.3 90.3 90.2 90.3 90.3 90.3 90.3	91.94	92.3	92.2	92.5	92.6	93.6	93.8	93.8	94.3	94.3
materials, measures of the input to 10.49 90.3 89.4 89.5 90.3 90.3 90.2 90.3 <th< td=""><td>66.61</td><td>88.6</td><td>88.5</td><td>88.7</td><td>88.7</td><td>89.3</td><td>89.4</td><td>89.9</td><td>90.2</td><td>90.1</td></th<>	66.61	88.6	88.5	88.7	88.7	89.3	89.4	89.9	90.2	90.1
materials, measures of the input to 10.49 90.3 89.4 89.5 90.3 90.3 90.2 90.3 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>										
Finished processors 10.49 90.3 89.4 89.5 90.3 90.3 90.2 90.3 90.3 90.3										
	10.49	90.3	89.4	89.5	90.3	90.3	90.2	90.3	90.3	90.4
		88.6	88.0	88.0	87.5	88.6	88.4	89.2	89.5	89.4
Timaly and commission processors		41 .77 .42 .73 .79 .2.06 69.293 .4.50 .61 .2.36 .63 .1.84 .64.79 .20.21 .7.29 .4.06 .6.64 .24.22	41	41	41 .77 137.3 136.5 138.5 42 .73 91.7 90.4 89.7 -9 2.06 133.5 133.9 134.4 69.29 87.8 87.4 87.6 -3 4.50 85.0 79.4 79.0 61 2.36 94.9 86.0 85.8 63 1.84 72.5 69.4 68.6 64.79 88.0 88.0 88.3 20.21 89.8 90.4 90.1 7.29 91.2 91.8 93.3 4.06 75.0 74.8 76.2 6.64 81.5 81.7 81.8 24.22 88.2 87.6 87.8 95.50 93.5 93.4 93.7 70.17 90.4 90.3 90.5 31.31 92.0 92.0 92.8 91.94 92.3 92.2 92.5 66.61 88.6 88.5 88.7 10.49 90.3 89.4 89.5	41 .77 137.3 136.5 138.5 141.8 42 .73 91.7 90.4 89.7 89.6 -9 2.06 133.5 133.9 134.4 133.5 69.29 87.8 87.4 87.6 87.5 -3 4.50 85.0 79.4 79.0 79.2 61 2.36 94.9 86.0 85.8 86.5 63 1.84 72.5 69.4 68.6 68.7 64.79 88.0 88.0 88.3 88.2 20.21 89.8 90.4 90.1 89.8 7.29 91.2 91.8 93.3 93.6 4.06 75.0 74.8 76.2 76.2 6.64 81.5 81.7 81.8 81.3 24.22 88.2 87.6 87.8 87.8 95.50 93.5 93.4 93.7 93.8 70.17 90.4 90.3 90.5 90.5 31.31 92.0 92.0 92.8 93.1 91.94 92.3 92.2 92.5 92.6 66.61 88.6 88.5 88.7 88.7 88.6 88.6	41 .77 137.3 136.5 138.5 141.8 145.4 42 .73 91.7 90.4 89.7 89.6 90.0 -9 2.06 133.5 133.9 134.4 133.5 131.3 69.29 87.8 87.4 87.6 87.5 88.2 -3 4.50 85.0 79.4 79.0 79.2 81.5 61 2.36 94.9 86.0 85.8 86.5 90.2 63 1.84 72.5 69.4 68.6 68.7 69.7 64.79 88.0 88.0 88.3 88.2 88.8 20.21 89.8 90.4 90.1 89.8 89.8 7.29 91.2 91.8 93.3 93.6 94.8 4.06 75.0 74.8 76.2 76.2 77.1 6.64 81.5 81.7 81.8 81.3 82.2 24.22 88.2 87.6 87.8 87.8 88.6 95.50 93.5 93.4 93.7 93.8 94.8 70.17 90.4 90.3 90.5 90.5 91.1 31.31 92.0 92.0 92.8 9	41 .77 137.3 136.5 138.5 141.8 145.4 147.6 42 .73 91.7 90.4 89.7 89.6 90.0 90.8 -9 2.06 133.5 133.9 134.4 133.5 131.3 132.4 69.29 87.8 87.4 87.6 87.5 88.2 88.4 -3 4.50 85.0 79.4 79.0 79.2 81.5 82.9 661 2.36 94.9 86.0 85.8 86.5 90.2 93.3 63 1.84 72.5 69.4 68.6 68.7 69.7 69.9 64.79 88.0 88.0 88.3 88.2 88.8 88.8 20.21 89.8 90.4 90.1 89.8 89.8 89.7 7.29 91.2 91.8 93.3 93.6 94.8 95.7 4.06 75.0 74.8 76.2 76.2 77.1 76.7 6.64 81.5 81.7 81.8 81.3 82.2 82.4	41 .77 137.3 136.5 138.5 141.8 145.4 147.6 149.4 42 .73 91.7 90.4 89.7 89.6 90.0 90.8 91.8 -9 2.06 133.5 133.9 134.4 133.5 131.3 132.4 129.6 69.29 87.8 87.4 87.6 87.5 88.2 88.4 88.8 -3 4.50 85.0 79.4 79.0 79.2 81.5 82.9 83.2 661 2.36 94.9 86.0 85.8 86.5 90.2 93.3 94.6 63 1.84 72.5 69.4 68.6 68.7 69.7 69.9 70.2 64.79 88.0 88.0 88.3 88.2 88.8 88.8 89.2 20.21 89.8 90.4 90.1 89.8 89.8 89.7 89.8 7.29 91.2 91.8 93.3 93.6 94.8 95.7 96.6 4.06 75.0 74.8 76.2 77.1 76.7 77.0 6.64 81.5 81.7 81.8 81.3 82.2 82.4 83.1 24.22 88.2 <td>41 .77 137.3 136.5 138.5 141.8 145.4 147.6 149.4 150.3 42 .73 91.7 90.4 89.7 89.6 90.0 90.8 91.8 91.4 -9 2.06 133.5 133.9 134.4 133.5 131.3 132.4 129.6 126.5 69.29 87.8 87.4 87.6 87.5 88.2 88.4 88.8 89.5 -3 4.50 85.0 79.4 79.0 79.2 81.5 82.9 83.2 86.1 61 2.36 94.9 86.0 85.8 86.5 90.2 93.3 94.6 99.2 63 1.84 72.5 69.4 68.6 68.7 69.7 69.9 70.2 70.8 64.79 88.0 88.0 88.3 88.2 88.8 88.8 89.2 89.7 20.21 89.8 90.4 90.1 89.8 89.8 89.7 89.8 99.7 4.06 75.0 74.8 76.2 77.1 <td< td=""></td<></td>	41 .77 137.3 136.5 138.5 141.8 145.4 147.6 149.4 150.3 42 .73 91.7 90.4 89.7 89.6 90.0 90.8 91.8 91.4 -9 2.06 133.5 133.9 134.4 133.5 131.3 132.4 129.6 126.5 69.29 87.8 87.4 87.6 87.5 88.2 88.4 88.8 89.5 -3 4.50 85.0 79.4 79.0 79.2 81.5 82.9 83.2 86.1 61 2.36 94.9 86.0 85.8 86.5 90.2 93.3 94.6 99.2 63 1.84 72.5 69.4 68.6 68.7 69.7 69.9 70.2 70.8 64.79 88.0 88.0 88.3 88.2 88.8 88.8 89.2 89.7 20.21 89.8 90.4 90.1 89.8 89.8 89.7 89.8 99.7 4.06 75.0 74.8 76.2 77.1 <td< td=""></td<>

Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

ercent												
Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2009	34.3	43.6	33.0	40.4	41.3	42.0	59.9	63.5	59.6	52.9	60.3	53.2
2010	64.7	52.6	65.7	68.6	66.7	53.2	60.3	52.9	51.6	57.7	54.8	59.3
2011	61.2	51.3	56.4	45.5	51.0	47.1	58.8	56.4	51.9	57.7		
Three months earlier												
2009	17.6	23.4	32.4	37.5	33.3	37.8	46.2	58.7	63.5	60.3	62.2	58.3
2010	70.2	62.2	65.7	63.8	74.0	65.4	62.5	57.7	58.3	53.8	55.4	58.3
2011	64.1	61.5	59.9	51.3	54.5	51.6	55.4	53.5	59.6	54.2		
Six months earlier												
2009	15.7	18.9	22.8	21.2	22.4	29.5	36.2	42.0	51.6	53.8	59.0	66.0
2010	68.6	67.6	67.6	75.0	72.8	72.4	67.9	68.3	64.7	61.5	57.4	60.9
2011	60.3	61.5	65.1	57.7	60.6	58.3	54.5	51.6	51.3	57.7		

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.

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1. Refer to note on cover page.

Table 7
CAPACITY UTILIZATION
Percent of capacity, seasonally adjusted

Item		2010	1972- 2010	1994- 95	2009	2011			2011					
Item		proportion	ave.	high	low	Q1	$Q2^{r}$	Q3 ^r	Juner	July ^r	Aug.r	Sept.r	Oct.r	Nov.I
Total industry		100.00	80.4	85.1	67.3	76.8	76.7	77.6	76.7	77.5	77.7	77.6	78.0	77.8
Manufacturing ¹		77.87	79.0	84.7	64.4	74.5	74.4	75.1	74.4	74.9	75.0	75.3	75.6	75.3
Manufacturing (NAICS)	31–33	74.31	78.8	84.8	64.2	74.9	74.9	75.6	74.9	75.4	75.5	75.8	76.1	75.8
Durable manufacturing		39.68	77.2	83.8	59.0	72.8	72.8	73.8	73.0	73.6	73.9	74.1	74.6	74.4
Wood products	321	1.19	77.8	87.1	50.9	62.9	62.5	61.7	61.7	61.6	60.7	62.9	62.3	61.4
Nonmetallic mineral products	327	2.39	75.9	82.7	45.6	51.0	53.0	54.4	53.5	54.1	54.6	54.5	53.7	54.
Primary metals	331	2.37	79.4	94.0	49.4	72.4	72.2	72.4	71.2	72.3	72.0	72.8	73.5	74.
Fabricated metal products	332	5.62	77.2	85.6	60.5	74.9	77.5	79.4	78.7	79.5	79.5	79.2	79.5	80.
Machinery	333	4.99	78.1	87.1	61.1	78.6	78.8	79.8	80.0	80.0	79.5	79.9	80.4	80.
Computer and electronic products	334	6.72	78.1	84.9	68.6	79.9	77.8	76.9	76.9	77.1	77.1	76.6	75.9	75
Electrical equip., appliances,														
and components	335	1.78	82.7	92.9	66.8	76.6	75.3	74.4	75.2	73.7	74.3	75.1	77.0	75.
Motor vehicles and parts	3361-3	5.69	75.3	87.4	34.8	65.1	62.2	64.4	62.1	63.7	64.7	64.8	66.9	64
Aerospace and miscellaneous														
transportation equipment	3364-9	4.45	73.0	68.9	70.6	71.7	74.8	77.4	75.6	76.4	77.6	78.3	79.9	81
Furniture and related products	337	1.21	77.5	82.5	59.2	68.3	69.5	70.4	68.4	69.4	71.0	70.8	69.9	70
Miscellaneous	339	3.26	76.0	80.6	68.8	78.5	78.6	79.3	79.0	79.2	79.0	79.9	79.6	78
Nondurable manufacturing		34.63	81.1	86.1	69.8	77.4	77.2	77.5	77.1	77.6	77.4	77.7	77.8	77
Food, beverage, and tobacco products	311,2	11.15	81.2	86.1	74.5	78.5	78.0	77.4	77.6	77.7	77.5	77.1	77.9	77
Textile and product mills	313,4	.89	80.4	92.4	53.2	64.9	66.4	66.6	66.7	67.0	66.2	66.7	67.0	66
Apparel and leather	315,6	.33	78.2	87.3	62.7	70.3	70.4	69.2	70.3	70.6	69.0	68.1	69.6	68
Paper	322	2.48	87.1	92.6	71.7	83.9	82.4	81.4	82.0	81.9	80.8	81.6	81.0	82
Printing and support	323	1.85	82.2	85.8	63.4	63.8	63.9	63.6	63.4	64.1	63.6	63.1	62.7	61
Petroleum and coal products	324	3.03	85.8	90.9	78.3	84.2	84.9	88.0	86.1	87.6	88.1	88.4	87.4	87
Chemicals Plastics and rubber products	325 326	11.59 3.32	78.0 82.3	81.8 92.5	66.2 57.5	77.7 73.1	77.2 74.0	77.7 75.0	77.1 73.8	77.4 75.1	77.5 74.8	78.2 75.1	78.1 75.8	77 75
Other manufacturing (non-NAICS)	1133,5111	3.56	83.4	83.2	69.0	65.4	63.8	64.5	62.8	63.1	64.8	65.5	65.7	64.
Mining	21	11.73	87.4	88.5	79.0	87.7	88.9	90.8	89.1	90.2	91.1	91.1	92.9	92.
Utilities	2211,2	10.40	86.6	93.3	79.2	80.6	79.2	80.5	79.5	82.0	81.0	78.4	78.1	78.
Selected high-technology industries		3.74	78.3	86.9	70.9	79.7	76.6	73.7	75.8	74.5	74.2	72.6	70.7	69.
Computers and peripheral equipment	3341	.74	78.5	87.3	82.5	77.4	75.2	78.8	76.3	77.9	78.8	79.5	79.7	79
Communications equipment	3342	.75	76.7	83.8	78.8	76.4	74.0	73.5	73.4	73.3	73.5	73.8	73.1	71
Semiconductors and related									,					
electronic components	334412-9	2.25	80.3	92.2	63.1	81.9	78.4	72.5	76.8	74.1	73.2	70.3	67.3	65
Measures excluding selected high-technology industries														
Total industry		96.26	80.5	85.0	67.1	76.7	76.7	77.7	76.8	77.6	77.8	77.7	78.3	78
Manufacturing ¹		74.13	79.0	84.5	64.0	74.2	74.3	75.1	74.3	74.9	75.1	75.4	75.8	75.
Crucia of program analysis														
STAGE-OF-PROCESS GROUPS		15 20	86.4	80 <i>c</i>	77 6	86.9	Q7 1	80.0	87.2	88.5	80.0	89.6	90.9	90
Crude Primary and camifinished		15.38 45.86	86.4	89.6 87.9	77.6 64.9	74.0	87.1 73.8	89.0 74.7	73.9	88.5 74.9	89.0 74.8	89.6 74.4	74.2	74
Primary and semifinished Finished		45.86 38.77	77.3	87.9	66.8	75.9	75.8	76.3	75.8	76.1	74.8	76.4	77.1	76.
1 IIIISIICU		36.77	11.3	00.7	00.8	13.7	13.0	70.3	15.0	70.1	70.4	70.4	//.1	70.

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1. Refer to note on cover page.

Table 8 INDUSTRIAL CAPACITY

Percent change

													Monthly
	1	Average aı	nnual rate		Fourth	quarter to	o fourth q	uarter		Annua	l rate		rate
Item	1972-	1980-	1989-	1995-					2011				2011
	79	88	94	2011	2008	2009	2010	2011	Q1	Q2	Q3	Q4	Nov.
Total industry	3.1	1.9	2.2	2.3	.2	-1.1	-1.8	1.1	.9	1.3	1.3	1.1	.1
Manufacturing ¹	3.3	2.2	2.5	2.5	6	-2.8	-2.0	.8	.3	.8	1.1	1.0	.1
Mining Utilities	.7 4.2	.1 2.1	6 1.8	.0 2.2	2.6 2.4	3.4 .5	9 3.6	2.1 2.0	2.3 3.1	2.5 2.1	2.1 1.4	1.5 1.2	.1 .1
Selected high-technology industries	19.6	17.3	15.6	20.9	1	10.0	4.1	15.2	10.4	14.9	17.6	17.9	1.4
Manufacturing ¹ ex. selected high-technology industries	2.6	1.3	1.6	.9	7	-3.6	-2.3	.1	2	.2	.3	.3	.0
STAGE-OF-PROCESS GROUPS Crude	1.6	.4	5	.1	2.3	.9	9	1.5	1.9	1.9	1.4	.9	.1
Primary and semifinished	3.0	1.3	2.5	2.7	.0	-2.3	-2.1	.2	1	.3	.4	.3	.0
Finished	3.9	3.3	2.6	2.4	8	-2.1	7	2.0	1.4	1.9	2.2	2.2	.2

^{1.} Refer to note on cover page.

Table 9
GROSS VALUE OF FINAL PRODUCTS AND NONINDUSTRIAL SUPPLIES

Billions of 2005 dollars at annual rate, season	nally adjusted			-							
			2011			2011					
Item	2005	2010	Q1	Q2 ^r	Q3 ^r	June ^r	July ^r	Aug. ^r	Sept.r	Oct.r	Nov. ^p
Final products and nonindustrial											
supplies	3,336.9	3,159.9	3,246.5	3,250.4	3,312.6	3,266.5	3,292.8	3,320.1	3,324.9	3,336.0	3,326.8
Final products	2,477.7	2,428.8	2,504.5	2,504.7	2,556.2	2,518.9	2,541.0	2,562.5	2,565.2	2,579.0	2,578.3
Consumer goods	1,835.2	1,775.2	1,807.8	1,801.7	1,835.9	1,811.9	1,827.7	1,840.1	1,839.9	1,841.9	1,841.8
Durable	495.3	416.6	443.4	438.3	452.5	439.1	447.4	453.5	456.5	467.7	459.8
Automotive products	288.3	262.1	283.4	278.4	290.9	279.5	286.1	292.4	294.1	306.1	297.9
Other durable goods	207.0	154.9	160.6	160.5	162.2	160.2	161.9	161.8	163.1	162.4	162.6
Nondurable	1,339.9	1,351.8	1,361.3	1,359.4	1,380.8	1,368.5	1,377.0	1,384.0	1,381.4	1,374.9	1,380.8
Equipment, total	642.5	652.6	698.8	706.4	724.4	710.3	716.7	726.5	730.0	743.5	742.9
Business and defense	619.1	634.1	678.8	684.9	701.5	688.2	694.4	703.6	706.6	719.4	718.9
Business	539.2	524.5	568.3	574.5	591.1	579.1	584.2	592.9	596.1	607.7	605.3
Defense and space	79.9	107.0	108.7	108.7	109.1	107.7	108.8	109.4	109.3	110.6	112.2
Nonindustrial supplies	859.2	734.7	746.2	749.7	760.7	751.7	756.1	762.0	764.0	761.6	753.4
Construction supplies	270.2	200.2	207.3	209.2	212.0	210.0	212.2	211.3	212.6	214.0	214.3
Business supplies	589.1	534.7	539.1	540.7	548.9	541.9	544.1	550.9	551.6	547.8	539.5
Commercial energy products	210.9	213.0	212.6	214.1	218.4	216.5	215.0	220.8	219.3	215.3	211.0

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

		Fou	rth quarte	er to										
		fo	urth quar	ter	1	Annual 1	ate			Month	nly rate			Nov. '10
Item	2010				2011			2011						to
	gross value1	2008	2009	2010	Q1	$Q2^{r}$	Q3 ^r	June ^r	July ^r	Aug.r	Sept.r	Oct.r	Nov.p	Nov. '11
Finished	1882.5	-10.5	-3.0	7.1	9.5	1.1	6.3	.2	.5	1.0	.3	1.5	6	6.0
Semifinished	1522.1	-11.4	-9.3	6.0	6.4	2.8	2.8	.2	.7	2	8	.6	2	3.0
Primary	1305.0	-8.6	-3.4	5.4	2	-3.9	9.5	.6	1.6	.2	.2	-1.3	.4	1.3
Crude	623.9	-10.0	4	5.0	4.4	-2.7	10.0	.4	1.8	.2	1.2	1.1	4	5.1

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^{1.} Billions of 2005 dollars.

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

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ¹																	
1989	.3	4	.3	.0	7	.1	-1.0	.9	3	1	.3	.6	1.7	-1.4	-2.6	1.6	.9
1990	6	.9	.5	1	.2	.3	1	.2	.2	8	-1.2	7	2.9	3.0	1.7	-6.2	1.0
1991	4	7	5	.2	1.0	1.0	.0	.1	.9	2	1	3	-7.4	2.5	5.5	.8	-1.5
1992 1993	6 .5	.8 .4	.8	.7	.3 4	.0	.9 .3	5 .0	.2 .5	.7 .7	.4 .4	.0	4 3.6	7.2 1.0	2.9 2.0	4.1 6.1	2.8
1994	.4	.0	1.0	.5	.5	.7	.2	.6	.2	.8	.6	1.1	5.2	7.4	5.1	8.2	5.3
1995	.3	.0	.2	1	.2	.3	4	1.3	.3	2	.2	.4	5.1	1.2	3.7	3.0	4.7
1996	6	1.6	1	.8	.7	.9	1	.6	.5	.0	.8	.6	3.0	8.5	5.4	5.4	4.4
1997	.1	1.2	.8	.0	.7	.5	.6	1.3	.9	.7	.9	.4	7.8	6.5	9.6	10.1	7.2
1998	.5	.1	.1	.4	.7	6	4	2.2	3	.8	1	.3	4.4	2.9	3.0	5.7	5.8
1999	.4	.4	.2	.2	.8	1	.7	.4	3	1.3	.5	.8	3.8	3.9	4.1	7.5	4.3
2000	.1	.4	.4	.6	.1	.1	3	2	.5	4	.0	3	4.7	4.5	6	-1.1	4.0
2001	7	6	3	2	7	6	5	3	4	5	5	.0	-5.5	-5.2	-5.7	-4.7	-3.4
2002	.6	.0	.8	.4	.6	.9	3	.2	.1	4	.5	5	2.8	6.7	2.6	4	.2
2003	.8	.3	2	8	.0	.0	.3	1	.6	.0	.8	.0	3.0	-3.1	2.0	3.4	1.3
2004 2005	.3	.6 .7	6 1	.4	.7 .2	9 .4	.7 2	.3	.0 -2.0	1.0 1.2	.2 1.0	.7 .6	2.8 6.1	1.7 1.7	2.1 -1.7	5.8 3.1	2.3 3.2
2006	.2	.1	.2	.4	2	.4	.2	.2	-2.0	.0	1	1.1	4.0	2.4	1.8	1.0	2.2
2007	3	1.1	.0	.8	1	.0	.1	.0	.5	6	.4	.2	4.5	4.5	1.1	.1	2.7
2008	3	2	4	9	6	3	4	-1.7	-4.1	.9	-1.3	-2.6	-1.2	-6.6	-12.2	-15.7	-3.7
2009	-2.1	5	-1.7	9	-1.1	4	1.1	.9	.7	.3	.2	.6	-18.9	-11.5	5.3	5.6	-11.2
2010	1.2	.2	.5	.4	1.3	.1	.9	.2	.3	1	.3	1.3	8.1	7.1	6.7	3.1	5.3
2011	.2	4	.7	4	.3	.1	1.1	.3	.0	.7	2		4.8	.7	6.1		
IP (2007=100)																	
2009	87.5	87.0	85.5	84.8	83.9	83.5	84.4	85.2	85.8	86.0	86.2	86.7	86.7	84.1	85.2	86.3	85.5
2010 2011	87.7 92.8	87.9 92.5	88.4 93.1	88.7 92.7	89.9 93.0	90.0 93.1	90.8 94.2	91.0 94.4	91.2 94.4	91.1 95.0	91.4 94.8	92.6	88.0 92.8	89.5 92.9	91.0 94.3	91.7	90.1
Capacity (percent of 2007 output) 2009	124.2	124.3	124.3	124.3	124.2	124.1	123.9	123.6	123.4	123.1	122.8	122.4	124.3	124.2	123.6	122.8	123.7
2010	122.1	121.8	121.5	121.2	121.0	120.8	120.6	120.5	120.5	120.5	120.5	120.6	121.8	121.0	120.6	120.5	121.0
2011	120.7	120.8	120.9	121.0	121.2	121.3	121.5	121.6	121.7	121.8	121.9		120.8	121.2	121.6		
Utilization																	
(percent) 1989	85.2	84.7	84.8	84.7	84.0	83.9	82.9	83.4	83.0	82.7	82.8	83.1	84.9	84.2	83.1	82.9	83.8
1990	82.5	83.0	83.3	83.0	83.0	83.1	82.9	82.9	83.0	82.2	81.1	80.4	82.9	83.0	82.9	81.2	82.5
1991	79.9	79.3	78.8	78.8	79.5	80.2	80.1	80.1	80.7	80.5	80.3	79.9	79.3	79.5	80.3	80.2	79.8
1992	79.3	79.8	80.3	80.7	80.8	80.7	81.2	80.6	80.6	81.0	81.2	81.0	79.8	80.7	80.8	81.1	80.6
1993	81.3	81.4	81.3	81.4	81.0	81.1	81.3	81.1	81.4	81.9	82.0	82.3	81.3	81.2	81.3	82.1	81.5
1994	82.5	82.3	83.0	83.2	83.4	83.7	83.6	83.8	83.8	84.2	84.4	85.1	82.6	83.5	83.7	84.6	83.6
1005			84.6	84.2	84.1	84.1	83.4	84.2	84.2	83.7	83.5	83.5	84.8	84.1	83.9	83.6	84.1
	85.0	84.7				0.1.0										83.6	83.5
1996	82.6	83.6	83.1	83.5	83.6	84.0	83.5	83.7	83.7	83.3	83.6	83.7	83.1	83.7	83.6	83.6	0.4.0
1996 1997	82.6 83.4	83.6 84.0	83.1 84.2	83.5 83.8	83.6 84.0	83.9	83.9	84.5	84.7	84.7	84.9	84.7	83.9	83.9	84.4	84.8	
1996 1997 1998	82.6 83.4 84.5	83.6 84.0 84.0	83.1 84.2 83.5	83.5 83.8 83.3	83.6 84.0 83.3	83.9 82.3	83.9 81.5	84.5 82.8	84.7 82.1	84.7 82.4	84.9 81.9	84.7 81.8	83.9 84.0	83.9 83.0	84.4 82.2	84.8 82.1	82.8
1996 1997 1998	82.6 83.4 84.5 81.8	83.6 84.0 84.0	83.1 84.2 83.5	83.5 83.8 83.3 81.5	83.6 84.0 83.3	83.9 82.3 81.3	83.9 81.5 81.6	84.5 82.8 81.6	84.7 82.1 81.1	84.7 82.4 81.8	84.9 81.9 81.9	84.7 81.8 82.2	83.9 84.0 81.7	83.9 83.0 81.5	84.4 82.2 81.4	84.8 82.1 82.0	82.8 81.7
1996 1997 1998 1999 2000	82.6 83.4 84.5 81.8 82.0	83.6 84.0 84.0 81.8 82.0	83.1 84.2 83.5 81.6 82.1	83.5 83.8 83.3 81.5 82.3	83.6 84.0 83.3 81.7 82.1	83.9 82.3 81.3 81.9	83.9 81.5 81.6 81.5	84.5 82.8 81.6 81.0	84.7 82.1 81.1 81.2	84.7 82.4 81.8 80.6	84.9 81.9 81.9 80.4	84.7 81.8 82.2 79.8	83.9 84.0 81.7 82.1	83.9 83.0 81.5 82.1	84.4 82.2 81.4 81.2	84.8 82.1 82.0 80.3	82.8 81.7 81.4
1996 1997 1998 1999 2000 2001	82.6 83.4 84.5 81.8 82.0 79.1	83.6 84.0 84.0 81.8 82.0 78.4	83.1 84.2 83.5 81.6 82.1 77.9	83.5 83.8 83.3 81.5 82.3 77.5	83.6 84.0 83.3 81.7 82.1 76.8	83.9 82.3 81.3 81.9 76.1	83.9 81.5 81.6 81.5 75.6	84.5 82.8 81.6 81.0 75.1	84.7 82.1 81.1 81.2 74.7	84.7 82.4 81.8 80.6 74.2	84.9 81.9 81.9 80.4 73.6	84.7 81.8 82.2 79.8 73.5	83.9 84.0 81.7 82.1 78.5	83.9 83.0 81.5 82.1 76.8	84.4 82.2 81.4 81.2 75.1	84.8 82.1 82.0 80.3 73.8	82.8 81.7 81.4 76.0
1996 1997 1998 1999 2000 2001 2002	82.6 83.4 84.5 81.8 82.0	83.6 84.0 84.0 81.8 82.0	83.1 84.2 83.5 81.6 82.1	83.5 83.8 83.3 81.5 82.3	83.6 84.0 83.3 81.7 82.1	83.9 82.3 81.3 81.9	83.9 81.5 81.6 81.5	84.5 82.8 81.6 81.0	84.7 82.1 81.1 81.2	84.7 82.4 81.8 80.6	84.9 81.9 81.9 80.4	84.7 81.8 82.2 79.8	83.9 84.0 81.7 82.1	83.9 83.0 81.5 82.1	84.4 82.2 81.4 81.2	84.8 82.1 82.0 80.3	82.8 81.7 81.4 76.0 74.8
1996 1997 1998 1999 2000 2001 2002 2003	82.6 83.4 84.5 81.8 82.0 79.1 73.8 75.7	83.6 84.0 84.0 81.8 82.0 78.4 73.7 76.0	83.1 84.2 83.5 81.6 82.1 77.9 74.2 75.9	83.5 83.8 83.3 81.5 82.3 77.5 74.4 75.4	83.6 84.0 83.3 81.7 82.1 76.8 74.8 75.4	83.9 82.3 81.3 81.9 76.1 75.4 75.5	83.9 81.5 81.6 81.5 75.6 75.2 75.7	84.5 82.8 81.6 81.0 75.1 75.3 75.7	84.7 82.1 81.1 81.2 74.7 75.4 76.2	84.7 82.4 81.8 80.6 74.2 75.1 76.2	84.9 81.9 81.9 80.4 73.6 75.5 76.8	84.7 81.8 82.2 79.8 73.5 75.1 76.8	83.9 84.0 81.7 82.1 78.5 73.9 75.9	83.9 83.0 81.5 82.1 76.8 74.9 75.4	84.4 82.2 81.4 81.2 75.1 75.3 75.9	84.8 82.1 82.0 80.3 73.8 75.2 76.6	82.8 81.7 81.4 76.0 74.8 75.9
1996 1997 1998 1999 2000 2001 2002 2003 2004	82.6 83.4 84.5 81.8 82.0 79.1 73.8	83.6 84.0 84.0 81.8 82.0 78.4 73.7	83.1 84.2 83.5 81.6 82.1 77.9 74.2	83.5 83.8 83.3 81.5 82.3 77.5 74.4	83.6 84.0 83.3 81.7 82.1 76.8 74.8	83.9 82.3 81.3 81.9 76.1 75.4	83.9 81.5 81.6 81.5 75.6 75.2	84.5 82.8 81.6 81.0 75.1 75.3	84.7 82.1 81.1 81.2 74.7 75.4	84.7 82.4 81.8 80.6 74.2 75.1	84.9 81.9 81.9 80.4 73.6 75.5	84.7 81.8 82.2 79.8 73.5 75.1	83.9 84.0 81.7 82.1 78.5 73.9	83.9 83.0 81.5 82.1 76.8 74.9	84.4 82.2 81.4 81.2 75.1 75.3	84.8 82.1 82.0 80.3 73.8 75.2	82.8 81.7 81.4 76.0 74.8 75.9
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	82.6 83.4 84.5 81.8 82.0 79.1 73.8 75.7	83.6 84.0 84.0 81.8 82.0 78.4 73.7 76.0	83.1 84.2 83.5 81.6 82.1 77.9 74.2 75.9	83.5 83.8 83.3 81.5 82.3 77.5 74.4 75.4	83.6 84.0 83.3 81.7 82.1 76.8 74.8 75.4	83.9 82.3 81.3 81.9 76.1 75.4 75.5	83.9 81.5 81.6 81.5 75.6 75.2 75.7	84.5 82.8 81.6 81.0 75.1 75.3 75.7	84.7 82.1 81.1 81.2 74.7 75.4 76.2	84.7 82.4 81.8 80.6 74.2 75.1 76.2	84.9 81.9 81.9 80.4 73.6 75.5 76.8	84.7 81.8 82.2 79.8 73.5 75.1 76.8	83.9 84.0 81.7 82.1 78.5 73.9 75.9	83.9 83.0 81.5 82.1 76.8 74.9 75.4	84.4 82.2 81.4 81.2 75.1 75.3 75.9	84.8 82.1 82.0 80.3 73.8 75.2 76.6	82.8 81.7 81.4 76.0 74.8 75.9 77.9
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	82.6 83.4 84.5 81.8 82.0 79.1 73.8 75.7 77.0 79.8	83.6 84.0 84.0 81.8 82.0 78.4 73.7 76.0 77.4 80.3	83.1 84.2 83.5 81.6 82.1 77.9 74.2 75.9 77.0 80.1	83.5 83.8 83.3 81.5 82.3 77.5 74.4 75.4	83.6 84.0 83.3 81.7 82.1 76.8 74.8 75.4 77.9 80.2	83.9 82.3 81.3 81.9 76.1 75.4 75.5	83.9 81.5 81.6 81.5 75.6 75.2 75.7	84.5 82.8 81.6 81.0 75.1 75.3 75.7 78.0 80.2	84.7 82.1 81.1 81.2 74.7 75.4 76.2 77.9 78.5	84.7 82.4 81.8 80.6 74.2 75.1 76.2 78.7 79.4	84.9 81.9 81.9 80.4 73.6 75.5 76.8 78.8 80.0	84.7 81.8 82.2 79.8 73.5 75.1 76.8	83.9 84.0 81.7 82.1 78.5 73.9 75.9 77.1 80.1	83.9 83.0 81.5 82.1 76.8 74.9 75.4 77.5 80.2	84.4 82.2 81.4 81.2 75.1 75.3 75.9 77.9	84.8 82.1 82.0 80.3 73.8 75.2 76.6 79.0 79.9	82.8 81.7 81.4 76.0 74.8 75.9 77.9 80.4
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	82.6 83.4 84.5 81.8 82.0 79.1 73.8 75.7 77.0 79.8 80.4	83.6 84.0 84.0 81.8 82.0 78.4 73.7 76.0 77.4 80.3 80.3	83.1 84.2 83.5 81.6 82.1 77.9 74.2 75.9 77.0 80.1 80.4	83.5 83.8 83.3 81.5 82.3 77.5 74.4 75.4 77.3 80.1 80.6	83.6 84.0 83.3 81.7 82.1 76.8 74.8 75.4 77.9 80.2 80.3	83.9 82.3 81.3 81.9 76.1 75.4 75.5 77.2 80.4 80.5	83.9 81.5 81.6 81.5 75.6 75.2 75.7 77.8 80.2 80.5	84.5 82.8 81.6 81.0 75.1 75.3 75.7 78.0 80.2 80.5	84.7 82.1 81.1 81.2 74.7 75.4 76.2 77.9 78.5 80.3	84.7 82.4 81.8 80.6 74.2 75.1 76.2 78.7 79.4 80.1	84.9 81.9 81.9 80.4 73.6 75.5 76.8 78.8 80.0 79.9	84.7 81.8 82.2 79.8 73.5 75.1 76.8 79.4 80.4 80.5	83.9 84.0 81.7 82.1 78.5 73.9 75.9 77.1 80.1 80.4	83.9 83.0 81.5 82.1 76.8 74.9 75.4 77.5 80.2 80.5	84.4 82.2 81.4 81.2 75.1 75.3 75.9 77.9 79.6 80.4	84.8 82.1 82.0 80.3 73.8 75.2 76.6 79.0 79.9 80.2	82.8 81.7 81.4 76.0 74.8 75.9 77.9 80.4 81.0
1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	82.6 83.4 84.5 81.8 82.0 79.1 73.8 75.7 77.0 79.8 80.4 80.2 81.1	83.6 84.0 84.0 81.8 82.0 78.4 73.7 76.0 77.4 80.3 80.3 80.9 81.0	83.1 84.2 83.5 81.6 82.1 77.9 74.2 75.9 77.0 80.1 80.4 80.8 80.6 68.8	83.5 83.8 83.3 81.5 82.3 77.5 74.4 75.4 77.3 80.1 80.6 81.2 80.0 68.2	83.6 84.0 83.3 81.7 82.1 76.8 74.8 75.4 77.9 80.2 80.3 81.1 79.5	83.9 82.3 81.3 81.9 76.1 75.4 75.5 77.2 80.4 80.5 81.0 79.3	83.9 81.5 81.6 81.5 75.6 75.2 75.7 77.8 80.2 80.2 80.5 81.0 79.0	84.5 82.8 81.6 81.0 75.1 75.3 75.7 78.0 80.2 80.2 80.5 81.0 77.6	84.7 82.1 81.1 81.2 74.7 75.4 76.2 77.9 78.5 80.3 81.3 74.3	84.7 82.4 81.8 80.6 74.2 75.1 76.2 78.7 79.4 80.1 80.8 74.9	84.9 81.9 80.4 73.6 75.5 76.8 80.0 79.9 81.1 73.9	84.7 81.8 82.2 79.8 73.5 75.1 76.8 79.4 80.4 80.5 81.3 71.9	83.9 84.0 81.7 82.1 78.5 73.9 75.9 77.1 80.1 80.4 80.6 80.9	83.9 83.0 81.5 82.1 76.8 74.9 75.4 77.5 80.2 80.5 81.1 79.6	84.4 82.2 81.4 81.2 75.1 75.3 75.9 77.9 79.6 80.4 81.1 77.0	84.8 82.1 82.0 80.3 73.8 75.2 76.6 79.0 79.9 80.2 81.1 73.6	84.2 82.8 81.7 81.4 76.0 74.8 75.9 77.9 80.4 81.0 77.8
1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	82.6 83.4 84.5 81.8 82.0 79.1 73.8 75.7 77.0 79.8 80.4 80.2 81.1	83.6 84.0 84.0 81.8 82.0 78.4 73.7 76.0 77.4 80.3 80.3 80.9 81.0	83.1 84.2 83.5 81.6 82.1 77.9 74.2 75.9 77.0 80.1 80.4 80.8	83.5 83.8 83.3 81.5 82.3 77.5 74.4 75.4 77.3 80.1 80.6 81.2 80.0	83.6 84.0 83.3 81.7 82.1 76.8 74.8 75.4 77.9 80.2 80.3 81.1 79.5	83.9 82.3 81.3 81.9 76.1 75.4 75.5 77.2 80.4 80.5 81.0 79.3	83.9 81.5 81.6 81.5 75.6 75.2 75.7 77.8 80.2 80.5 81.0 79.0	84.5 82.8 81.6 81.0 75.1 75.3 75.7 78.0 80.2 80.5 81.0 77.6	84.7 82.1 81.1 81.2 74.7 75.4 76.2 77.9 78.5 80.3 81.3 74.3	84.7 82.4 81.8 80.6 74.2 75.1 76.2 78.7 79.4 80.1 80.8 74.9	84.9 81.9 80.4 73.6 75.5 76.8 80.0 79.9 81.1 73.9	84.7 81.8 82.2 79.8 73.5 75.1 76.8 79.4 80.4 80.5 81.3 71.9	83.9 84.0 81.7 82.1 78.5 73.9 75.9 77.1 80.1 80.4 80.6 80.9	83.9 83.0 81.5 82.1 76.8 74.9 75.4 77.5 80.2 80.5 81.1 79.6	84.4 82.2 81.4 81.2 75.1 75.3 75.9 77.9 79.6 80.4 81.1 77.0	84.8 82.0 80.3 73.8 75.2 76.6 79.0 79.9 80.2 81.1 73.6	82.8 81.7 81.4 76.0 74.8 75.9 77.9 980.4 81.0 77.8

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

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

Seasonally adjusted

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annu
IP (percent																	
change) ²																	
1989	.8	9	1	.2	8	.2	-1.1	.8	2	2	.2	.1	2.0	-2.7	-3.2	.3	
.990	1	1.4	.5	3	.2	.3	1	.2	.0	8	-1.1	8	4.3	2.9	1.1	-6.8	
991	8	6	7	.3	.7	1.1	.2	.2	1.1	2	2	1	-8.8	1.9	7.2	1.5	-2
1992	6	.9	1.0	.5	.6	.3	.9	4	.0	.6	.4	2	.6	8.2	4.0	2.9	3
993	1.0	.2	2	.5	1	1	.3	1	.6	.8	.4	.5	4.5	1.5	1.1	6.9	3
1994	.2	.1	1.3	.8	.7	.3	.4	.8	.3	1.0	.8	1.2	5.1	9.4	6.0	9.9	5
1995	.3	1	.3	2	.1	.5	6	1.1	.8	1	.0	.4	5.5	.6	3.0	3.8	5
.996	7	1.6	2	1.1	.7	1.1	.3	.6	.7	1	.8	.9	2.2	9.7	7.8	5.6	4
997	.1	1.4	1.2	2	.9	.7	.5	1.6	.8	.6	1.1	.4	9.2	7.7	10.8	10.9	8
998	.8	.1	1	.5	.6	7	5	2.6	3	1.0	.2	.5	6.0	2.4	3.3	7.8	(
999	.2	.7	1	.4	.9	3	.5	.7	3	1.5	.6	.7	4.4	4.5	3.8	9.0	
000	.2	.3	.6	.6	2	.2	.0	6	.5	4	3	7	5.3	4.2	8	-2.7	
001	6	6	3	2	8	7	4	7	2	7	3	.3	-6.4	-5.4	-6.3	-4.5	-4
002	.5	1	.8	.2	.7	1.1	5	.4	.1	5	.5	5	3.3	6.1	3.4	5	
003	.6	.2	.2	9	.1	.4	.1	3	.7	.0	1.0	2	2.3	-2.2	1.5	3.9	
004	.0	.7	3	.4	.7	8	.8	.7	1	1.1	1	.7	2.6	2.9	3.5	5.7	
005	.8	.8	5	.2	.4	.1	1	.2	-1.1	1.5	.8	.0	6.7	2.0	5	5.5	4
006	.9	1	1	.6	4	.3	1	.4	.1	3	.1	1.6	4.0	1.0	1.1	1.8	
007	3	.5	.7	.7	2	.3	.3	5	.5	5	.3	.3	5.4	5.2	.8	2	2
800	3	5	4	-1.2	6	6	-1.1	-1.4	-3.4	6	-2.4	-3.1	-2.0	-8.9	-13.9	-21.4	-:
009	-2.7	.1	-2.0	8	-1.2	3	1.3	1.0	.8	.0	.8	.2	-22.2	-11.4	6.6	5.9	-1
010	1.0	.1	.9	.7	1.1	1	.8	.1	.2	.2	.2	1.0	7.1	8.7	5.1	3.4	-1.
011	.7	.1	.7	6	.2	.1	.8	.3	.4	.5	4	110	7.2	.1	4.9	5.1	
D (2007–100)																	
P (2007=100) 009	83.6	83.7	82.0	81.4	80.4	80.1	81.2	81.9	82.6	82.6	83.3	83.4	83.1	80.6	81.9	83.1	82
010	84.2	84.3	85.1	85.7	86.7	86.6	87.3	87.4	87.5	87.7	87.9	88.8	84.5	86.3	87.4	88.1	8
011	89.4	89.5	90.1	89.6	89.7	89.8	90.5	90.7	91.1	91.6	91.2	00.0	89.7	89.7	90.8	00.1	0
Capacity percent of 007 output) 009	125.8	125.6	125.3	125.0	124.7	124.4	124.1	123.7	123.4	123.0	122.7	122.4	125.6	124.7	123.7	122.7	124
010	122.0	121.7	121.4	121.2	120.9	120.7	120.6	120.4	120.3	120.3	120.2	120.2	121.7	120.9	120.4	120.3	120
011	120.3	120.3	120.4	120.5	120.6	120.7	120.8	120.9	121.0	121.1	121.2		120.3	120.6	120.9		
I tilization percent)																	
989	85.5	84.6	84.4	84.3	83.5	83.5	82.3	82.8	82.4	82.1	82.0	81.9	84.8	83.8	82.5	82.0	83
990	81.6	82.5	82.7	82.3	82.3	82.3	82.1	82.1	81.9	81.1	80.0	79.3	82.3	82.3	82.0	80.1	8
991	78.5	77.9	77.3	77.4	77.8	78.6	78.7	78.8	79.5	79.3	79.0	78.8	77.9	78.0	79.0	79.0	7:
992	78.2	78.8	79.4	79.6	79.9	79.9	80.4	79.9	79.7	80.0	80.1	79.8	78.8	79.8	80.0	80.0	7
993	80.4	80.4	80.1	80.4	80.2	80.0	80.1	79.9	80.3	80.8	81.0	81.3	80.3	80.2	80.1	81.0	8
994	81.3	81.2	82.1	82.5	82.8	82.8	82.8	83.2	83.2	83.7	84.0	84.7	81.5	82.7	83.1	84.1	8
95	84.6	84.2	84.1	83.6	83.3	83.3	82.5	83.1	83.4	82.9	82.5	82.4	84.3	83.4	83.0	82.6	8
996	81.4	82.3	81.7	82.2	82.3	82.8	82.6	82.6	82.7	82.2	82.4	82.6	81.8	82.4	82.6	82.4	8
997 998	82.2 83.7	82.9 83.1	83.4 82.4	82.7 82.2	82.9 82.0	82.9 80.9	82.8 80.0	83.6 81.5	83.7 80.8	83.6 81.1	83.9 80.8	83.6 80.8	82.8 83.0	82.9 81.7	83.3 80.8	83.7 80.9	8
.,,	03.1	05.1	02.7	02.2	02.0	00.7	00.0	01.5	00.0	01.1	00.0	00.0	03.0	01.7	00.0	00.7	
999	80.6	80.7	80.3	80.2	80.6	80.0	80.1	80.3	79.7	80.5	80.7	80.9	80.5	80.3	80.0	80.7	8
000	80.7	80.6	80.8	80.9	80.4	80.2	79.9	79.1	79.2	78.7	78.1	77.4	80.7	80.5	79.4	78.1	7
001 002	76.7 71.8	76.0 71.7	75.5 72.2	75.1 72.3	74.3 72.8	73.7 73.6	73.2 73.2	72.6 73.5	72.3 73.6	71.7 73.3	71.4 73.6	71.5 73.2	76.0 71.9	74.4 72.9	72.7 73.5	71.6 73.4	7:
002	73.7	73.8	74.0	73.3	73.4	73.7	73.7	73.5	74.1	74.1	74.9	74.7	73.8	73.4	73.8	74.6	7
004 005	74.8 78.1	75.4 78.6	75.2 78.2	75.5 78.2	76.1 78.4	75.5 78.4	76.1 78.1	76.6 78.2	76.4 77.2	77.2 78.2	77.1 78.7	77.6 78.5	75.1 78.3	75.7 78.3	76.3 77.8	77.3 78.5	7
)05)06	78.1	78.9	78.2 78.6	78.2 79.0	78.4 78.5	78.4 78.6	78.1 78.4	78.2 78.6	78.5	78.2	78.7 78.0	78.3 79.1	78.9	78.3 78.7	77.8 78.5	78.3 78.4	7
007	78.7	79.0	79.3	79.7	79.4	79.5	79.5	79.0	79.3	78.8	79.0	79.2	79.0	79.5	79.3	79.0	7
008	78.9	78.5	78.1	77.2	76.8	76.3	75.6	74.6	72.2	71.8	70.2	68.2	78.5	76.8	74.1	70.1	7
	66 1	66.6	65 5	6E 1	611	611	6E 1	66.0	67.0	67 1	67.0	60.2	66.0	616	66.0	677	_
200	66.4	66.6	65.5	65.1	64.4	64.4	65.4	66.2	67.0 72.7	67.1 73.0	67.9 73.1	68.2 73.8	66.2 69.4	64.6	66.2	67.7	6
		60.3	70.0	70.7	/ 1 /												
.009 .010 .011	69.0 74.3	69.3 74.4	70.0 74.8	70.7 74.4	71.7 74.4	71.7 74.4	72.4 74.9	72.6 75.0	75.3	75.6	75.3	13.6	74.5	71.4 74.4	72.6 75.1	73.3	/

Refer to note on cover page.
 Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

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

Proposed colors Proposed c	Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
1989																		
1990																		
1991																		
														1				
1984																		
1994																		
1995							.2		1		.,	.5			.5		3.1	
1996																		
1997																		
1998																		
2000																		
2000	1999	.2	.1	1	1	.6	4	.3	.4	4	1.2	.2	.5	.6	.3	1.1	5.4	1.1
2002 7,	2000		.0				1			.4			5				-2.7	1.0
2004																		
1004 22														1				
2005	2003	. /	.2	3	9	1	1	.2	1	.6	2	./	1	1./	-4.6	.9	2.6	.2
2006																		
100 1.2 1.3 1.0 1.2 1.6 1.0 1.1 1.1 1.1 1.1 1.2																		
2009														1				
Decompose 12																		
Decompose 12	2009	-2.1	6	-1.8	-1.0	-1.1	5	1.0	.9	.6	.2	.2	.6	-18.7	-12.5	4.8	5.2	-11.2
Property Property																		
2009 87.0 86.6 85.0 84.1 83.2 82.8 83.7 84.4 85.0 85.1 85.3 85.8 86.2 83.4 84.3 85.4 84.9	2011	.2	4	.7	4	.3	.1	1.2	.2	.0	.7	2		4.4	.8	6.3		
2010	IP (2007=100)																	
Capacity (percent of 2007 output) 1010																	85.4	
Capacity (percent of 2007 output) 23.7													91.4				90.6	89.0
Control Cont	2011	91.6	91.2	91.9	91.5	91.8	91.9	93.0	93.2	93.3	93.9	93.7		91.6	91.7	93.2		
2007 output 2237 123.7 123.7 123.6 123.5 123.3 123.1 122.8 122.4 122.1 121.7 121.3 123.5 122.8 121.7 122.9 2010 121.0 120.6 120.3 120.0 119.8 119.6 119.4 119.3 119.3 119.2 119.2 119.3 120.6 119.8 119.3 119.3 119.8 119.8 119.8 119.9 120.0 120.0 120.1 119.3 120.6 119.8 119.3 119.3 119.8	Capacity																	
123,7 123,7 123,7 123,6 123,5 123,3 123,1 122,8 122,4 122,1 121,7 121,3 123,7 123,5 122,8 121,7 122,9																		
2010 121.0 120.6 120.3 120.0 119.8 119.6 119.4 119.3 119.3 119.2 119.2 119.3 120.6 119.8 119.3 119.3 119.3 119.8	* '	122.7	1027	1027	102.6	102 5	102.2	122.1	122.0	122.4	122.1	121.7	121.2	1027	122.5	122.0	121.7	122.0
Vilization (percent) 1928 185 185.3 185.1 184.4 184.3 183.2 183.8 183.8 183.8 183.4 185.3 185.3 185.3 185.4 185.5 185.3 185.4 185.5 185.3 185.4 185.5 185.3 185.4 185.5 185.3 185.5 185.3 185.5 185.5 185.3 185.5																		
													117.5	1			117.5	117.0
	Utilization																	
1990																		
1991 80.2 79.5 78.9 79.0 79.7 80.4 80.3 80.3 80.9 80.6 80.4 79.9 79.6 79.7 80.5 80.3 80.0 1992 79.2 79.7 80.2 80.6 80.8 80.6 81.1 81.5 81.5 81.5 81.5 81.5 81.5 81.5 81.5 81.5 1994 82.6 82.5 83.1 83.2 83.4 83.8 83.7 83.9 83.7 83.1 84.4 85.0 82.7 83.5 83.8 84.5 1995 84.9 84.6 84.4 84.0 83.9 83.9 83.3 84.1 84.0 83.5 83.8 84.5 1996 82.4 83.4 83.0 83.5 83.8 84.2 83.6 83.8 83.9 83.4 83.9 83.4 83.9 1996 82.4 83.4 83.9 83.7 83.9 83.8 83.8 83.9 83.4 83.9 83.1 1997 83.8 84.3 84.4 83.9 83.9 83.8 83.8 84.3 84.6 84.8 85.0 84.7 84.1 1998 84.6 84.2 83.9 83.7 83.9 82.8 81.9 83.3 82.5 82.7 82.1 1999 81.8 81.8 81.5 81.2 81.5 81.0 81.0 81.2 80.7 81.5 81.6 81.5 81.4 81.4 81.6 81.4 81.3 80.7 80.3 80.6 80.0 79.8 79.3 81.6 81.5 81.4 81.4 81.6 81.4 81.3 80.7 80.3 80.6 80.0 79.8 79.3 81.6 81.5 81.4 81.4 81.6 81.4 81.3 80.7 80.3 80.6 80.0 79.8 79.3 81.6 81.7 77.7 77.1 76.6 76.3 76.0 75.5 75.8 76.1 76.8 76.5 76.6 76.7 76.4 76.8 76.3 77.2 77.3 77.0 76.3 76.5 76.6 2002 75.1 75.0 75.5 75.8 76.1 76.8 76.5 76.6 76.7 77.3 77.3 77.0 76.3 76.5 76.5 2004 77.4 77.9 77.4 77.8 78.4 77.7 78.2 78.4 78.3 79.1 79.3 79.9 77.5 77.0 76.3 76.5 76.6 2005 80.2 80.7 80.6 80.5 80.6 80.8 80.6 80.5 78.7 79.5 80.2 80.6 80.5 80.6 80.3 80.3 2006 80.5 80.4 80.5 80.7 80.3 80.4 80.4 80.4 80.1 80.9 80.1 80.3 2006 80.5 80.4 80.5 80.7 80.3 80.4 80.4 80.4 80.1 80.9 80.1 80.3 2007 80.1 80.8 80.6 80.5 80.6 80.8 80.6 80.5 80.7 77.3 77.3 77.0 76.5 76.5 76.6 73.5 77.5 2009 70.3																		
1992 79.2 79.7 80.2 80.6 80.8 80.6 81.1 80.6 80.6 81.0 81.2 81.1 79.7 80.7 80.8 81.1 80.6 1993 81.4 81.6 81.2 81.2 81.4 81.2 81.5 81.9 82.1 82.4 81.5 81.3 81.4 82.1 81.6 1994 82.6 82.5 83.1 83.2 83.4 83.8 83.7 83.9 83.7 84.1 84.4 85.0 82.7 83.5 83.8 84.5 83.6 83.8 83.7 83.9 83.3 84.1 84.0 83.4 83.9 83.8 83.8 83.7 83.8 83.4 83.9 83.8 83.8 83.8 83.3 83.4 84.0 83.9 83.8 83.8 83.3 83.4 83.9 83.8 83.9 83.8 83.9 83.8 83.9 83.8 83.9 83.8 83.9 83.8 83.9 83.8<																		
1993 81.4 81.6 81.5 81.6 81.2 81.2 81.4 81.5 81.9 82.1 82.4 81.5 81.3 81.4 82.1 81.6 1994 82.6 82.5 83.1 83.2 83.4 83.8 83.7 83.9 83.7 84.1 84.4 85.0 82.7 83.5 83.8 84.5 83.6 1995 84.9 84.6 84.4 84.0 83.9 83.3 84.1 84.0 83.5 83.4 83.9 83.8 83.9 83.8 83.9 83.8 83.8 83.8 83.8 83.8 83.8 83.8 83.8 83.8 83.8 83.8 83.8 83.8 83.8 83.8 83.8 83.8 83.9 83.8 83.8 83.8 83.8 83.8 83.9 83.8 83.8 83.8 83.9 83.8 83.8 83.8 83.9 83.8 83.8 83.9 83.8 83.8 83.9 83.8 83.8 83														1				
1995																		
1995 84.9 84.6 84.4 84.0 83.9 83.9 83.3 84.1 84.0 83.5 83.4 83.4 83.9 83.8 83.3 84.1 82.9 83.8 83.9 83.8 83.8 83.9 83.8 83.8 83.9 83.8 83.8 83.9 83.3 83.9 83.3 83.9 83.3 83.9 83.3 83.9 83.3 83.9 83.8 83.9 83.3 83.9 83.3 83.9 83.8 83.9 83.3 82.5 82.1 82.0 84.1 83.9 83.8 83.9 83.8 83.9 83.3 82.5 82.1 <th< td=""><td>1004</td><td>00.6</td><td></td><td>02.1</td><td>02.2</td><td></td><td>02.0</td><td>02.7</td><td>02.0</td><td>02.7</td><td>04.1</td><td></td><td>05.0</td><td>02.7</td><td>02.5</td><td>02.0</td><td>04.5</td><td></td></th<>	1004	00.6		02.1	02.2		02.0	02.7	02.0	02.7	04.1		05.0	02.7	02.5	02.0	04.5	
1996 82.4 83.4 83.0 83.5 83.8 84.2 83.6 83.8 83.9 83.4 83.9 84.1 82.9 83.8 83.7 83.8 83.6 1997 83.8 84.3 84.4 83.9 83.9 83.8 83.8 83.8 84.3 84.6 84.7 84.1 82.9 83.8 83.7 83.8 84.3 1998 84.6 84.2 83.9 83.8 83.8 84.3 84.6 84.2 83.9 83.8 84.3 84.6 84.2 83.9 83.7 83.9 82.8 81.9 83.3 82.5 82.7 82.1 82.0 84.2 83.5 82.3 83.1 1999 81.9 81.8 81.5 81.2 81.0 81.0 81.2 80.7 81.5 81.6 81.9 81.7 81.2 81.0 81.7 81.4 2000 75.1 75.0 75.5 75.8 76.1 76.5 76.6 76.5 <td></td>																		
1997 83.8 84.3 84.4 83.9 83.9 83.8 83.8 84.3 84.6 84.8 85.0 84.7 84.1 83.9 84.2 84.8 84.3 1998 84.6 84.2 83.9 83.7 83.9 82.8 81.9 83.3 82.5 82.7 82.1 82.0 84.2 83.5 82.5 82.3 83.1 1999 81.9 81.8 81.5 81.2 81.5 81.0 81.0 81.2 80.7 81.5 81.6 81.9 81.7 81.2 81.0 81.4 2000 81.5 81.4 81.4 81.6 81.4 81.3 80.7 80.3 80.6 80.0 79.8 79.3 81.4 81.4 80.5 79.7 80.8 2001 78.7 78.2 77.9 77.7 77.1 76.6 76.3 76.0 75.6 75.1 74.7 74.6 78.3 77.2 76.0 74.8 76.6 2002 75.1 75.0 75.5 75.8 76.1 76.8																		
1998 84.6 84.2 83.9 83.7 83.9 82.8 81.9 83.3 82.5 82.7 82.1 82.0 84.2 83.5 82.5 82.3 83.1 1999 81.9 81.8 81.5 81.2 81.5 81.0 81.0 81.2 80.7 81.5 81.6 81.9 81.7 81.2 81.0 81.4 2000 81.5 81.4 81.4 81.6 81.4 81.3 80.7 80.3 80.6 80.0 79.8 79.3 81.4 81.4 80.5 79.7 80.8 2001 78.7 78.2 77.9 77.7 77.1 76.6 76.3 76.0 75.6 75.1 74.7 74.6 78.3 77.2 76.0 74.8 76.6 2002 75.1 75.0 75.5 75.8 76.1 76.4 76.8 76.3 76.2 76.4 76.8 76.7 77.3 77.3 77.0 76.3 76.5		1												1				
2000 81.5 81.4 81.4 81.6 81.4 81.3 80.7 80.3 80.6 80.0 79.8 79.3 81.4 81.4 80.5 79.7 80.8 2001 78.7 78.2 77.9 77.7 77.1 76.6 76.3 76.0 75.6 75.1 74.7 74.6 78.3 77.2 76.0 74.8 76.6 2002 75.1 75.0 75.5 75.8 76.1 76.8 76.5 76.6 76.7 76.4 76.8 76.3 75.2 76.2 76.6 76.5 76.1 2003 76.9 77.1 76.9 76.3 76.2 76.4 76.4 76.8 76.7 77.3 77.3 77.0 76.3 76.5 76.1 2004 77.4 77.9 77.4 77.8 78.4 77.7 78.2 78.4 78.3 79.1 79.3 79.9 77.5 77.9 78.3 79.4 78.3 2005 80.2 80.7 80.6 80.8 80.6 80.8 80.6	1998	84.6	84.2	83.9	83.7				83.3	82.5		82.1	82.0	84.2	83.5	82.5		
2000 81.5 81.4 81.4 81.6 81.4 81.3 80.7 80.3 80.6 80.0 79.8 79.3 81.4 81.4 80.5 79.7 80.8 2001 78.7 78.2 77.9 77.7 77.1 76.6 76.3 76.0 75.6 75.1 74.7 74.6 78.3 77.2 76.0 74.8 76.6 2002 75.1 75.0 75.5 75.8 76.1 76.8 76.5 76.6 76.7 76.4 76.8 76.3 75.2 76.2 76.6 76.5 76.1 2003 76.9 77.1 76.9 76.3 76.3 76.2 76.4 76.8 76.7 77.3 77.3 77.0 76.3 76.5 76.1 2004 77.4 77.9 77.4 77.8 78.4 77.7 78.2 78.4 78.3 79.1 79.3 79.9 77.5 77.9 78.3 79.4 78.3 2005 80.2 80.7 80.6 80.8 80.6 80.8 80.6	1999	81.9	81.8	81.5	81.2	81.5	81.0	81.0	81.2	80.7	81.5	81.6	81.9	81.7	81.2	81.0	81.7	81.4
2002 75.1 75.0 75.5 75.8 76.1 76.8 76.5 76.6 76.7 76.4 76.8 76.3 75.2 76.2 76.6 76.5 76.1 2003 76.9 77.1 76.9 76.3 76.2 76.4 76.4 76.8 76.7 77.3 77.3 77.0 76.3 76.5 77.1 76.7 2004 77.4 77.9 77.4 77.8 78.4 77.7 78.2 78.4 78.3 79.1 79.3 79.9 77.5 77.9 78.3 79.4 78.3 2005 80.2 80.7 80.6 80.5 80.6 80.8 80.6 80.5 78.7 79.5 80.2 80.6 80.5 80.6 80.8 80.6 80.5 80.6 80.8 80.6 80.5 80.6 80.8 80.6 80.5 80.6 80.8 80.6 80.5 80.6 80.8 80.6 80.9 80.1 80.5 80.6 80.8 80.6 80.8 80.6 80.8 80.6 80.8 80.6 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></t<>														1				
2003 76.9 77.1 76.9 76.3 76.2 76.4 76.4 76.8 76.7 77.3 77.3 77.0 76.3 76.5 77.1 76.7 2004 77.4 77.9 77.4 77.8 78.4 77.7 78.2 78.4 78.3 79.1 79.3 79.9 77.5 77.9 78.3 79.4 78.3 2005 80.2 80.7 80.6 80.5 80.6 80.8 80.6 80.5 78.7 79.5 80.2 80.6 80.5 80.6 80.8 80.6 80.5 80.6 80.5 80.6 80.5 80.6 80.8 80.6 80.5 80.6 80.5 80.6 80.5 80.6 80.9 80.1 80.5 80.6 80.9 80.1 80.0 80.5 80.4 80.5 80.8 80.6 80.9 80.1 80.0 79.7 80.4 80.5 80.5 80.3 80.0 80.3 80.4 80.1 80.3 80.4 80.1 80.0 81.1 81.3 81.1 81.3 81.1 <																		
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2005 80.2 80.7 80.6 80.5 80.6 80.8 80.6 80.5 78.7 79.5 80.2 80.6 80.5 80.6 79.9 80.1 80.3 2006 80.5 80.4 80.5 80.7 80.3 80.4 80.4 80.4 80.1 80.0 79.7 80.4 80.5 80.5 80.3 80.0 80.3 2007 80.1 80.8 80.6 81.0 81.0 81.1 81.2 81.1 81.5 80.9 81.1 81.3 80.5 81.0 81.3 81.1 81.0 2008 81.0 80.8 80.4 79.7 79.2 79.0 78.7 77.3 73.9 74.7 73.8 71.9 80.8 79.3 76.6 73.5 77.5 2009 70.3 70.0 68.7 68.1 67.3 67.1 68.0 68.8 69.4 69.7 70.1 70.7 69.7 67.5 68.7 70.2 69.0 2010 71.8 72.1 72.6 73.0 74.2	2003	76.9	77.1	76.9	76.3	76.3	76.2	76.4	76.4	76.8	76.7	77.3	77.3	77.0	76.3	76.5	77.1	76.7
2006 80.5 80.4 80.5 80.7 80.3 80.4 80.4 80.4 80.1 80.0 79.7 80.4 80.5 80.3 80.0 80.3 2007 80.1 80.8 80.6 81.0 81.0 81.1 81.2 81.1 81.5 80.9 81.1 81.3 80.5 81.0 81.3 81.1 81.0 2008 81.0 80.8 80.4 79.7 79.2 79.0 78.7 77.3 73.9 74.7 73.8 71.9 80.8 79.3 76.6 73.5 77.5 2009 70.3 70.0 68.7 68.1 67.3 67.1 68.0 68.8 69.4 69.7 70.1 70.7 69.7 67.5 68.7 70.2 69.0 2010 71.8 72.1 72.6 73.0 74.2 74.4 75.2 75.4 75.6 75.7 76.6 72.2 73.9 75.4 76.0 74.4 2011 76.7 76.4 76.9 76.5 76.7 76.8 77.6																		
2007 80.1 80.8 80.6 81.0 81.1 81.2 81.1 81.5 80.9 81.1 81.3 80.5 81.0 81.3 81.1 81.0 2008 81.0 80.8 80.4 79.7 79.2 79.0 78.7 77.3 73.9 74.7 73.8 71.9 80.8 79.3 76.6 73.5 77.5 2009 70.3 70.0 68.7 68.1 67.3 67.1 68.0 68.8 69.4 69.7 70.1 70.7 69.7 67.5 68.7 70.2 69.0 2010 71.8 72.1 72.6 73.0 74.2 74.4 75.2 75.4 75.6 75.7 76.6 72.2 73.9 75.4 76.0 74.4 2011 76.7 76.4 76.9 76.5 76.7 76.8 77.6 77.8 77.7 78.3 78.1 76.7 76.7 77.7														1				
2008 81.0 80.8 80.4 79.7 79.2 79.0 78.7 77.3 73.9 74.7 73.8 71.9 80.8 79.3 76.6 73.5 77.5 2009 70.3 70.0 68.7 68.1 67.3 67.1 68.0 68.8 69.4 69.7 70.1 70.7 69.7 67.5 68.7 70.2 69.0 2010 71.8 72.1 72.6 73.0 74.2 74.4 75.2 75.4 75.6 75.7 76.6 72.2 73.9 75.4 76.0 74.4 2011 76.7 76.4 76.9 76.5 76.7 76.8 77.6 77.8 77.7 78.3 78.1 76.7 76.7 77.7																		
2010 71.8 72.1 72.6 73.0 74.2 74.4 75.2 75.4 75.6 75.7 76.6 72.2 73.9 75.4 76.0 74.4 2011 76.7 76.4 76.9 76.5 76.7 76.8 77.6 77.7 78.3 78.1 76.7 76.7 77.7																		
2010 71.8 72.1 72.6 73.0 74.2 74.4 75.2 75.4 75.6 75.7 76.6 72.2 73.9 75.4 76.0 74.4 2011 76.7 76.4 76.9 76.5 76.7 76.8 77.6 77.7 78.3 78.1 76.7 76.7 77.7	2009	70.3	70.0	68.7	68 1	67.3	67 1	68 N	68 g	69.4	69 7	70.1	70.7	69.7	67.5	68.7	70.2	69.0
2011 76.7 76.4 76.9 76.5 76.7 76.8 77.6 77.8 77.7 78.3 78.1 76.7 76.7 77.7																		
													, 0.0				, 0.0	, 1.1

^{1.} Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.
2. Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

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

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ³																	
1989	.9	-1.0	.0	.1	9	.2	-1.4	.8	3	3	.1	.0	2.3	-3.1	-4.3	7	.4
1990	3	1.5	.4	3	.1	.2	2	.2	1	9	-1.2	8	3.6	2.3	.6	-7.6	.0
1991	8	8	8	.3	.7	1.1	.3	.2	1.1	2	3	3	-9.7	1.4	7.0	1.0	-2.6
1992	9	.9	.9	.4	.5	.1	.8	5	1	.5	.3	2	-1.1	7.1	2.7	1.4	2.6
1993	1.1	.1	3	.5	2	2	.2	2	.5	.7	.3	.5	4.0	.7	.4	5.7	2.5
1994	.1	.1	1.2	.5	.4	.2	.2	.6	.1	.8	.5	.9	4.2	7.0	3.7	7.0	4.4
1995	.1	3	1	4	1	.3	8	.9	.5	4	1	.0	2.8	-2.2	.3	.6	2.5
1996	-1.2	1.3	4	1.0	.5	.8	1	.3	.4	4	.7	.7	-1.8	7.3	4.0	2.8	1.5
1997	2	1.0	.9	7	.5	.4	.1	1.3	.6	.5	.8	.2	6.1	2.9	6.8	8.2	4.9
1998	.5	1	3	.2	.4	-1.1	9	2.4	8	.7	1	.2	3.1	2	5	4.1	3.5
1999	1	.4	4	.0	.7	7	.0	.6	4	1.4	.3	.3	.7	.3	.2	6.6	1.4
2000	3	2	.3	.4	6	.0	4	8	.4	5	6	9	.3	.6	-3.7	-4.7	.7
2001	6	5	3	1	7	5	1	7	3	7	2	.2	-6.9	-4.3	-4.9	-4.6	-4.8
2002	.7	1	.8	.1	.7	1.0	5	.3	.1	5	.4	7	3.7	5.7	2.4	-1.4	.4
2003	.5	.0	.1	-1.1	1	.3	1	4	.7	2	.9	3	.7	-3.9	.1	2.9	.0
2004	1	.8	3	.5	.7	9	.8	.6	3	1.1	1	.6	1.8	3.1	3.1	5.2	2.0
2005	.7	.8	6	.1	.3	.1	3	.1	-1.3	1.4	.7	1	5.7	.9	-2.1	4.2	3.1
2006	.8	2	2	.5	6	.2	1	.3	.0	4	.0	1.6	3.3	.0	.2	.9	1.5
2007	4	.4	.5	.5	2	.4	.3	6	.4	8	.1	.2	4.5	4.0	.8	-2.3	2.0
2008	4	7	6	-1.3	7	6	-1.0	-1.4	-3.5	4	-2.2	-3.0	-3.6	-10.0	-14.1	-20.4	-6.0
2009	-2.8	.1	-2.2	-1.0	-1.3	4	1.3	.9	.8	1	.8	.2	-22.2	-12.9	5.9	5.4	-13.7
2010	1.0	.0	.9	.7	1.2	1	.9	.0	.1	.2	.1	1.0	6.8	8.6	5.1	2.9	4.9
2011	.6	.1	.7	6	.2	.0	.8	.3	.5	.6	3		6.7	.2	5.0		
IP (2007=100)																	
2009	82.9	82.9	81.1	80.3	79.3	79.0	80.0	80.7	81.3	81.2	81.9	82.0	82.3	79.5	80.7	81.7	81.1
2010	82.8	82.8	83.6	84.2	85.2	85.1	85.8	85.8	86.0	86.2	86.2	87.1	83.1	84.8	85.9	86.5	85.1
2011	87.6	87.7	88.4	87.9	88.0	88.0	88.8	89.0	89.4	89.9	89.6		87.9	88.0	89.1		
Capacity (percent of 2007 output)																	
2009	125.2	124.9	124.5	124.2	123.8	123.4	122.9	122.5	122.1	121.6	121.2	120.8	124.9	123.8	122.5	121.2	123.1
2010	120.5	120.1	119.8	119.5	119.3	119.1	118.9	118.7	118.6	118.5	118.5	118.4	120.1	119.3	118.7	118.5	119.2
2011	118.4	118.4	118.4	118.4	118.5	118.5	118.5	118.6	118.6	118.6	118.6		118.4	118.5	118.6		
Utilization																	
(percent)	060	05.0	040	04.0	04.0	04.0	00.7	00.0	02.0	00.4	00.0	02.2	05.2	04.2	02.0	00.0	02.7
1989	86.0	85.0	84.9	84.8	84.0	84.0	82.7	83.2	82.8	82.4	82.3	82.2	85.3	84.3	82.9	82.3	83.7
1990 1991	81.8 78.8	82.9 78.1	83.0 77.4	82.6 77.5	82.6 78.0	82.6 78.7	82.4 78.9	82.5 78.9	82.3 79.7	81.4 79.4	80.3 79.1	79.5 78.7	82.6 78.1	82.6 78.1	82.4 79.1	80.4 79.1	82.0 78.6
1992	77.9	78.6	79.2	79.5	79.8	79.8	80.3	79.8	79.7	79.4	80.1	79.8	78.6	79.7	79.1	79.1	79.5
1993	80.6	80.5	80.2	80.5	80.3	80.1	80.3	79.9	80.3	80.8	81.0	81.3	80.4	80.3	80.1	81.0	80.5
1001	01.2	04.0	00.4	02.5	02.7	02.5	02.0	00.0	00.4	00.5	02.0	04.5	04.5	02.5	02.0	0.4.0	
1994	81.3	81.3	82.1	82.5	82.7	82.7	82.8	83.2	83.1	83.6	83.9	84.5	81.6	82.6	83.0	84.0	82.8
1995	84.5	84.0	83.8	83.3	83.0	83.1	82.2	82.8	83.1	82.5	82.3	82.1	84.1	83.1	82.7	82.3	83.1
1996	81.0	81.9	81.4	82.1	82.3	82.8	82.5	82.6	82.8	82.2	82.6	82.9	81.4	82.4	82.6	82.5	82.3
1997 1998	82.5 83.7	83.1 83.2	83.5 82.7	82.7 82.5	82.7 82.5	82.7 81.3	82.5 80.3	83.3 81.9	83.4 81.0	83.5 81.3	83.8 80.9	83.6 80.8	83.0 83.2	82.7 82.1	83.1 81.1	83.6 81.0	83.1 81.8
1999 2000	80.6	80.7 79.7	80.1 79.8	79.9 79.9	80.2 79.4	79.5	79.3 78.9	79.6	79.1 78.3	80.0	80.2 77.3	80.3 76.5	80.4 79.8	79.9 79.5	79.4	80.2	80.0 78.7
	79.9					79.3		78.1	73.2	77.8					78.4	77.2	
2001 2002	76.0 73.1	75.6 73.0	75.3 73.6	75.1 73.7	74.5 74.2	74.1 75.0	74.0 74.6	73.4 74.9	75.0	72.7 74.6	72.5 74.9	72.6 74.4	75.6 73.2	74.6 74.3	73.5 74.8	72.6 74.7	74.1 74.2
2002	74.9	74.9	75.0	74.2	74.2	74.4	74.6	74.9	74.7	74.6	75.4	75.2	74.9	74.3	74.8	75.1	74.2
2004	75 1	757	75 5	76.0	76.5	75.0	765	77.0	76.0	77.6	77 5	78.0	755	76.1	767	77.7	765
2004 2005	75.1 78.5	75.7 70.1	75.5 78.6	76.0 78.6	76.5 78.8	75.9	76.5	77.0 78.5	76.8	77.6	77.5		75.5	76.1	76.7 78.1	77.7	76.5
2006	78.5 79.2	79.1 78.9	78.6 78.6	78.6 78.9	78.8 78.3	78.8 78.4	78.5 78.2	78.5 78.3	77.3 78.2	78.3 77.8	78.8 77.7	78.6 78.9	78.7 78.9	78.8 78.5	78.1 78.3	78.6 78.1	78.5 78.5
2007	78.5	78.9	79.1	79.4	79.2	79.5	79.6	79.1	79.4	78.8	78.9	79.0	78.9	79.4	79.4	78.9	79.1
2007	78.6	78.1	77.7	76.7	76.2	75.7	75.0	74.0	71.5	71.3	69.9	68.0	78.2	76.2	73.5	69.7	74.4
2000	66.0	66.1	6E 1	617	640	640	65 I	65.0	66.6	660	67.6	67.0	65.0	642	65.0	67 A	65.0
2009 2010	66.2 68.8	66.4 69.0	65.1 69.8	64.7 70.4	64.0 71.4	64.0 71.5	65.1 72.2	65.9 72.3	66.6 72.5	66.8 72.7	67.6 72.8	67.9 73.5	65.9 69.2	64.3 71.1	65.9 72.3	67.4 73.0	65.9 71.4
2011	74.0	74.1	74.6	74.2	74.3	74.3	74.9	75.1	75.4	75.8	75.6		74.2	74.3	75.1		

^{1.} Refer to note on cover page.
2. Selected high-technology industries are computers, communications equipment, and semiconductors and related electronic components.
3. Quarterly changes are at annual rates. Annual changes are calculated from annual averages.

value added divided by the average annual IP index.

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, the website includes files containing data shown in the release, more detailed series that are published in a monthly supplement to the G.17, and historical data. Instructions on 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 2007. Manufacturing consists of those industries included in the North American Industry Classification System (NAICS) definition of manufacturing plus those industries— newspaper, periodical, book, and directory publishing plus logging—that have traditionally been considered to be manufacturing. For the period since 1997, the total IP index has been constructed from 312 individual series based on the 2002 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 web site (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 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 computers, communications equipment, and semiconductors. When suitable direct measures of 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 United States 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 Bulletins of 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 shown below. An output index for month m is denoted by I_m^A for aggregate A and I_m for each of its components. The monthly price measure in the formula (p_m) is interpolated from an annual series of

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

The IP proportions (typically shown in the first column of the relevant tables in the 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 4 percent. If output in this industry increased 10 percent in a month, then this gain would boost growth in total IP by 4/10 percentage point $(0.04 \times 10\% = 0.4\%)$. To assist users with calculations, the Federal Reserve's web site 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 67 percent of the source data (in value-added terms) are available; the fraction of available source data increases to 81 percent for estimates in the second month that the estimate is published, 93 percent in the third month, 96 percent in the fourth month, 99 percent in the fifth month, and 99 percent in the sixth month. Data availability by data type in early 2011 is summarized in the table below:

Availability of Monthly IP Data in Publication Window (Percent of value added in 2011)

	Month of estimate									
Type of data	1st	2nd	3rd	4th	5th	6th				
Physical product	27	41	53	55	58	58				
Production-worker hours	41	41	41	41	41	41				
IP data received	67	81	93	96	99	99				
IP data estimated	33	19	7	4	1	1				

The physical product group includes series based on either monthly or quarterly data. As can be seen in the first row of the table, in the first month, a physical product indicator is available for about half of the series (in terms of value added) that ultimately are based on physical product data (27 percent out of a total of 58 percent). Of the 27 percent, about two-thirds (19 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-12 ARIMA. For series based on production-worker hours, the current seasonal factors were estimated with data through January 2011; for other series, the factors were estimated with data through at least December 2010. Series are pre-adjusted for the effects of holidays or business cycles when appropriate. For the data since 1972, all seasonally adjusted aggregate indexes are calculated by aggregating the seasonally adjusted indexes of the individual series.

Reliability. The average revision to the *level* of the total IP index, without regard to sign, between the first and the fourth estimates was 0.27 percent during the 1987–2010 period. The average revision to the *percent change* in total IP, without regard to sign, from the first to the fourth estimates was 0.21 percentage point during the 1987–2010

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 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 North American Industry Classification System (NAICS) definition of manufacturing plus those industries— newspaper, periodical, book, and directory publishing plus logging—that have traditionally been considered to be manufacturing. 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 (e.g., paper, industrial chemicals, petroleum refining, motor vehicles), as well as for electric utilities and mining; these industries represent about 25 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 a bit less than 70 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 5 percent of total industry capacity). A detailed description of the methodology used to construct the capacity indexes is available on the Board's web site (www.federalreserve.gov/releases/G17/CapNotes.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 the annual capacity aggregate 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 was a survey of large companies that reported, on average, higher utilization rates than those reported by establishments covered by the Census Bureau's annual Survey of Plant Capacity (the predecessor to the QSPC) for the fourteen years they overlapped. Adjustments have been made to keep the industry utilization rates currently reported by the Federal Reserve 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 QSPC.

Perspective. Over the 1972–2010 period, the average total industry utilization rate is 80.4 percent; for manufacturing, the average factory operating rate has been 79.0 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 industry and total manufacturing, utilization rates have exceeded 90 percent only in wartime. The highs and lows in capacity utilization shown in table 7 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 25, 2011 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 an on-line staff study (www.federalreserve.gov/releases/g17/articles/rev2010/industrial10.pdf).

Release Schedule

At 9:15 a.m. on

2011: January 14, February 16, March 17, April 15, May 17, June 15, July 15, August 16, September 15, October 17, November 16, and December 15.

2012: January 18, February 15, March 16, April 17, May 16, June 15, July 17, August 15, September 14, October 16, November 16, and December 14.