FEDERAL RESERVE statistical release



G.17 (419)

For release at 9:15 a.m. (EDT) October 16, 2012

Percent change

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production rose 0.4 percent in September after having fallen 1.4 percent in August. For the third quarter as a whole, industrial production declined at an annual rate of 0.4 percent. Manufacturing output increased 0.2 percent in September but moved down at an annual rate of 0.9 percent in the third quarter.

(over)

Industrial Production and Capacity Utilization: Summary

Seasonally adjusted

	2012						2012						Sept. '11 to
Industrial production	Apr. ^r	May	June ^r	July	Aug.r	Sept. ^p	Apr. ^r	May	June ^r	July	Aug. ^r	Sept. ^p	Sept. '12
Total index	97.3	97.3	97.4	98.0	96.6	97.0	.8	.1	.0	.7	-1.4	.4	2.8
Previous estimates	97.3	97.3	97.4	98.0	96.8		.8	.0	.1	.5	-1.2		
Major market groups													
Final Products	96.2	96.7	97.0	97.6	96.3	96.6	.8	.5	.3	.6	-1.3	.3	2.9
Consumer goods	92.9	93.6	93.4	94.1	92.6	92.7	.7	.7	3	.8	-1.5	.0	.1
Business equipment	102.6	102.9	104.9	105.0	104.1	104.9	1.4	.3	1.9	.1	9	.8	10.9
Nonindustrial supplies	87.6	87.4	87.2	87.2	86.5	87.1	.9	2	2	.0	9	.7	1.9
Construction	81.7	80.4	79.9	79.5	79.6	80.7	.8	-1.6	7	4	.1	1.3	4.7
Materials	101.6	101.4	101.3	102.1	100.5	100.9	.9	2	1	.9	-1.6	.4	3.0
Major industry groups													
Manufacturing (see note below)	94.6	94.1	94.4	94.7	93.8	94.0	.7	6	.4	.3	9	.2	3.2
Previous estimates	94.6	94.0	94.5	94.8	94.1		.7	6	.4	.4	7		
Mining	111.6	111.4	111.7	112.8	111.0	112.0	.6	2	.3	1.0	-1.6	.9	3.8
Utilities	97.5	102.7	99.9	102.7	98.3	99.8	2.3	5.4	-2.7	2.8	-4.3	1.5	-1.4
													Capacity
					Perce	ent of cap	acity						growth
	Average	1988-	1990-	1994-									
	1972-	89	91	95	2009	2011	2012						Sept. '11 to
Capacity utilization	2011	high	low	high	low	Sept.	Apr. r	May	June ^r	July	Aug. ^r	Sept. ^p	Sept. '12
Total industry	80.3	85.2	78.8	85.0	66.8	77.2	79.0	78.9	78.8	79.2	78.0	78.3	1.4
Previous estimates							79.0	78.9	78.9	79.2	78.2		
Manufacturing (see note below)	78.8	85.6	77.3	84.6	63.8	75.5	77.8	77.3	77.5	77.6	76.8	76.8	1.4
Previous estimates							77.8	77.3	77.5	77.7	77.0		
Mining	87.3	86.3	83.9	88.6	78.5	87.5	89.5	89.2	89.3	90.1	88.4	89.1	2.0
Utilities	86.3	92.9	84.3	93.3	79.1	77.6	73.8	77.7	75.4	77.4	73.9	74.8	2.3
Stage-of-process groups													
Crude	86.3	87.7	84.4	89.7	76.4	86.0	87.5	87.1	87.2	87.6	86.2	86.6	1.5
Primary and semifinished	81.1	86.5	78.0	87.9	64.2	74.6	76.0	76.4	76.0	76.6	75.3	75.6	.2
Finished	77.2	83.4	77.3	80.6	66.8	76.5	78.6	78.1	78.3	78.5	77.4	77.5	3.2

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.

Production at mines advanced 0.9 percent in September, and the output of utilities moved up 1.5 percent. Roughly 0.3 percentage point of the decline in overall industrial production in August reflected the effect of precautionary idling of production in late August along the Gulf of Mexico in anticipation of Hurricane Isaac, and part of the rise in September is a result of the subsequent resumption of activity at idled facilities. At 97.0 percent of its 2007 average, total industrial production in September was 2.8 percent above its year-earlier level. Capacity utilization for total industry moved up 0.3 percentage point to 78.3 percent, a rate 2.0 percentage points below its long-run (1972–2011) average.

Market Groups

The production of consumer goods was unchanged in September after having fallen 1.5 percent in August. For the third quarter as a whole, output moved down at an annual rate of 0.8 percent, as a decline in durable goods more than offset an increase in nondurables. For September, the output of durable goods dropped 1.7 percent. Among durable consumer goods categories, the production of automotive products fell 2.9 percent, a second consecutive large decline. The indexes for home electronics and for miscellaneous goods posted smaller declines, and the index for appliances, furniture and carpeting moved up. The production of nondurables advanced 0.6 percent, with increases in the output of both energy products and non-energy goods. The index for consumer energy products rose 0.8 percent after having fallen 2.7 percent in August; within the non-energy category, where production increased 0.5 percent in September, there were gains in the indexes for foods and tobacco and for clothing, while the indexes for chemical products and for paper products declined.

The output of business equipment moved up 0.8 percent in September and was nearly 11 percent above its year-earlier level. In the third quarter, the production of business equipment advanced at an annual rate of 4.6 percent, appreciably slower than its gain of 12.1 percent in the second quarter. The production of transit equipment rose 1.7 percent in September after having dropped 3.3 percent in August; the gain in September was boosted by an increase in the production of civilian aircraft. The output of information processing equipment moved up 0.5 percent, while the index for industrial and other equipment increased 0.4 percent.

The output of defense and space equipment gained 1.7 percent in September. For the third quarter, the index rose at an annual rate of 7.0 percent, which more than reversed a decline of 5.7 percent in the second quarter.

Among nonindustrial supplies, the output of construction supplies moved up 1.3 percent in September, but it decreased at an annual rate of 3.5 percent in the third quarter for its second consecutive quarterly decline. The production of business supplies rose 0.4 percent in September after having fallen 1.3 percent in August; the index moved down at an annual rate of 1.7 percent in the third quarter.

The output of materials to be processed further in the industrial sector rose 0.4 percent in September after having declined 1.6 percent in August. The index for materials moved down at an annual rate of 0.9 percent in the third quarter; decreases in durable materials and in energy materials more than offset an increase in nondurable materials. The output of durable materials edged down 0.1 percent in September. Consumer parts fell noticeably for a second month; nevertheless, in September, the index stood 16.5 percent above its year-earlier level. The output of equipment parts moved up 0.4 percent in September after having declined 2 percent or more in July and in August. In September, the production of nondurable materials advanced 0.6 percent. The indexes for textiles and for chemicals increased, while the production of paper moved down. The output of energy materials rose 0.9 percent following a large drop in August that was driven by decreases in oil and natural gas extraction related to Hurricane Isaac.

Industry Groups

Manufacturing output edged up 0.2 percent in September; it fell 0.9 percent in August. The index for manufacturing moved down at an annual rate of 0.9 percent in the third quarter, its first quarterly decline since the second quarter of 2009. The factory operating rate was unchanged in September at 76.8 percent, a rate 2.0 percentage points below its long-run average.

The production of durable goods edged up 0.1 percent in September. Gains of 1 percent or more were registered in the indexes for aerospace and miscellaneous transportation equipment and for electrical equipment, appliances, and components, but the output of motor vehicles and parts and of primary metals fell back. Capacity utilization for durable goods manufacturing was 76.8 percent, a rate 0.3 percentage point below its long-run average. The production of durable goods declined for the third quarter as a whole at an annual rate of 1.0 percent after having advanced solidly in the first half of the year. Among major durable goods categories, decreases in the third quarter were widespread.

The production of nondurables moved up 0.3 percent in September. The index was unchanged in the third quarter and fell at an annual rate of 3.1 percent in the second quarter. For September, decreases in the output of printing, of petroleum and coal products, and of plastics and rubber products were more than offset by increases in most of the other major categories. Capacity utilization for nondurable manufacturing was 78.1 percent, a rate 2.8 percentage points below its long-run average.

Production in the non-NAICS manufacturing industries (logging and publishing) edged down 0.1 percent in September. This index fell at an annual rate of 10.0 percent in the third quarter after having registered a comparably sized decline in the second quarter.

In September, mining output increased 0.9 percent after having fallen 1.6 percent in August, when nearly all the oil and gas extraction capacity in the Gulf of Mexico was idled late in the month in anticipation of Hurricane Isaac. Capacity utilization for mining moved up 0.7 percentage point in September to 89.1 percent, a rate 1.8 percentage points above its long-run average. The output of utilities advanced 1.5 percent in September; it decreased 4.3 percent in August. The operating rate for utilities rose 0.9 percentage point in September to 74.8 percent, a rate 11.5 percentage points below its long-run average.

Capacity utilization rates in September for industries grouped by stage of process were as follows: At the crude stage, utilization increased 0.4 percentage point to 86.6 percent, a rate 0.3 percentage point above its long-run average; at the primary and semifinished stages, utilization rose 0.3 percentage point to 75.6 percent, a rate 5.5 percentage points below its long-run average; and at the finished stage, utilization moved up 0.1 percentage point to 77.5 percent, a rate 0.3 percentage point higher than its long-run average.

Tables

- 1. Industrial Production: Market and Industry Group Summary; percent change
- 2. Industrial Production: Special Aggregates and Selected Detail; percent change
- 3. Motor Vehicle Assemblies
- 4. Industrial Production: Market and Industry Group Summary; indexes
- 5. Industrial Production: Special Aggregates and Selected Detail; indexes
- 6. Diffusion Indexes of Industrial Production
- 7. Capacity Utilization
- 8. Industrial Capacity
- 9. Gross Value of Products and Nonindustrial Supplies
- 10. Gross-Value-Weighted Industrial Production: Stage-of-Process Groups
- 11. Historical Statistics: Total Industry
- 12. Historical Statistics: Manufacturing
- 13. Historical Statistics: Total Industry Excluding Selected High-Technology Industries
- 14. Historical Statistics: Manufacturing Excluding Selected High-Technology Industries

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

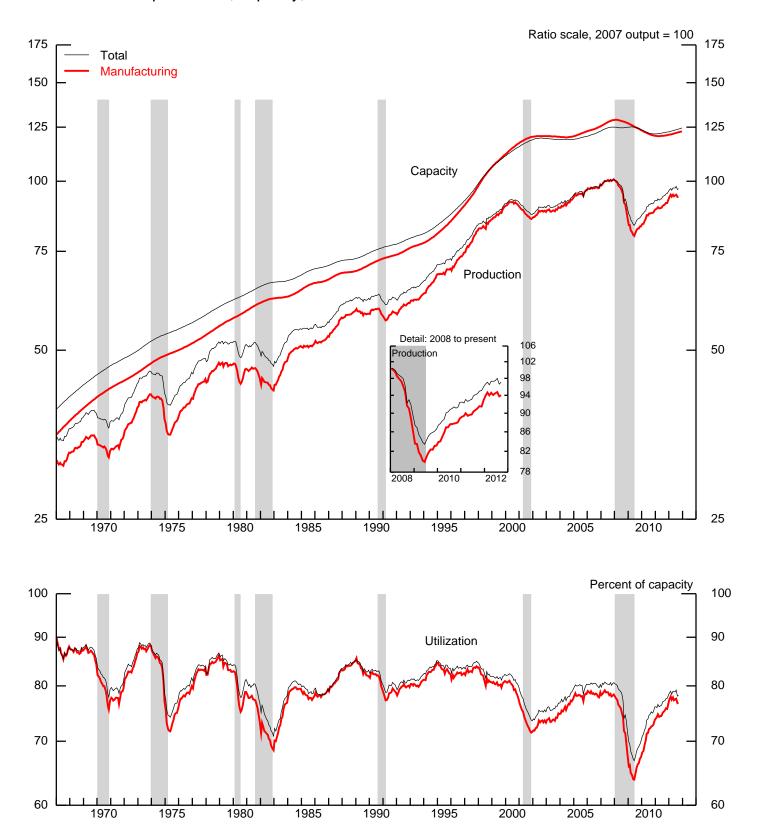
Revision of Industrial Production and Capacity Utilization

The Federal Reserve Board plans to issue its annual revision to the index of industrial production (IP) and the related measures of capacity utilization at the end of March 2013. The revised IP indexes will incorporate detailed data from the 2011 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 2011 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 2012 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 U.S. Department of Energy, and other organizations.

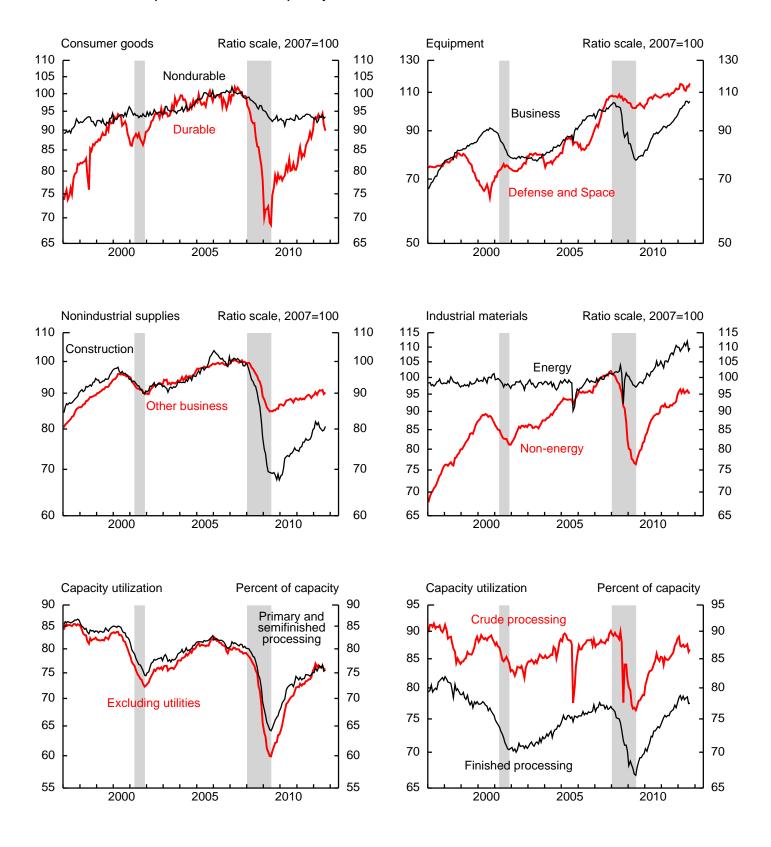
Once the revision is published, it will be available on the Board's website at www.federalreserve.gov/releases/G17. The 2013 release schedule is also available on the website.

1. Industrial production, capacity, and utilization



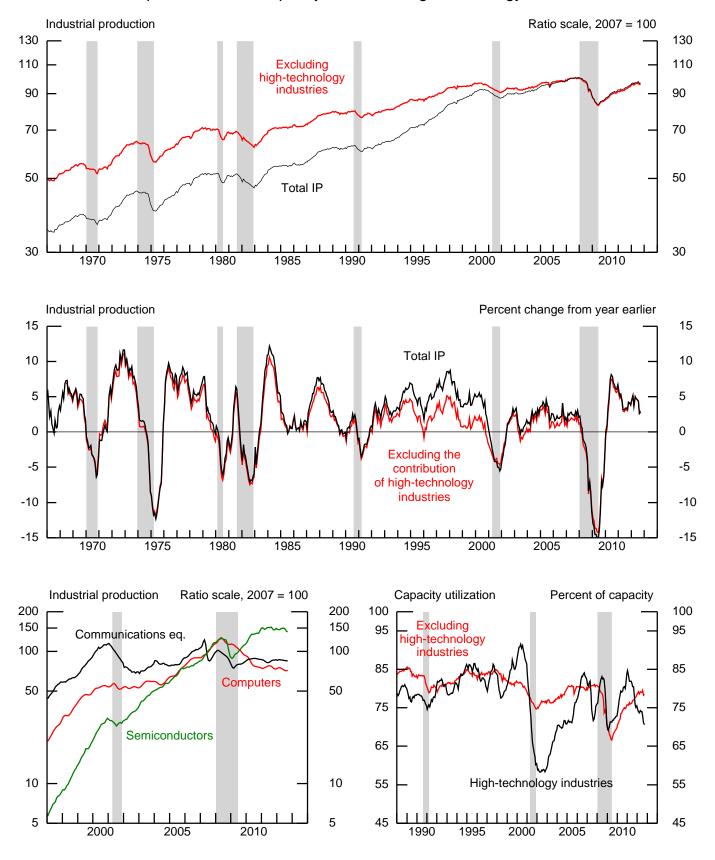
Note: The shaded areas are periods of business recession as defined by the National Bureau of Economic Research (NBER).

2. Industrial production and capacity utilization



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

3. Industrial production 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		2011													Sept. '11
		proportion ¹	2009	2010	2011	2012 Q1	Q2 ^r	Q3 ^p	2012 Apr. ^r	May ^r	June ^r	July ^r	Aug.r	Sept. ^p	to Sept. '12
Total IP		100.00	-5.7	6.3	4.1	5.9	2.6	4	.8	.1	.0	.7	-1.4	.4	2.8
MARKET GROUPS					•										
Final products and nonindustrial supplie	S	53.84	-6.6	4.2	3.8	5.7	3.5	.0	.8	.3	.2	.5	-1.2	.4	2.6
Consumer goods		27.68	-3.3	.8	2.8	1.2	2.3	8	.7	.7	3	.8	-1.5	.0	.1
Durable		6.30 3.50	-3.1 7.6	3.1	10.3	19.2 27.5	2.2	-7.4 -14.8	1.1 1.2	9 -1.8	.1	1.0	-3.2 -5.0	-1.7 -2.9	2.6
Automotive products Home electronics		.16	-16.8	-21.4	16.6	2.2	-9.2	-14.6	9	-1.6	.4 -1.0	.7 -1.1	-3.0	-2.9	-7.2
Appliances, furniture, carpeting		.76	-15.9	2.3	2.5	11.5	-5.3	1	.2	.2	9	.9	9	.8	2.5
Miscellaneous goods		1.88	-10.9	9.2	3.4	8.3	9.3	5.9	1.4	.7	.0	1.9	8	5	4.6
Nondurable		21.38	-3.3	.1	.6	-3.9	2.3	1.4	.6	1.3	4	.7	-1.0	.6	7
Non-energy		15.99	-4.2	6	1.0	2.1	-1.9	5	.5	4	3	.4	4	.5	.2
Foods and tobacco		9.22	-1.2	1.3	1.2	4.4	.4	4.0	.9	3	.3	.9	5	.9	2.8
Clothing		.20	-27.9	10.3	-6.7	17.1	-11.0	-13.1	4	3	-1.8	-1.1	-2.3	1.6	7
Chemical products		4.72	-7.4	-3.5	2.1	9	-3.7	-7.0	.1	6	-1.2	6	1	3	-3.3
Paper products		1.35	-7.1	-4.3	-3.9	-7.1	-15.9	-8.8	7	-1.3	-2.1	.5	-1.1	5	-8.0
Energy		5.39	5	2.1	4	-20.2	16.9	7.5	.8	6.7	5	1.6	-2.7	.8	-3.0
Business equipment		9.57	-9.9	12.7	8.0	17.3	12.1	4.6	1.4	.3	1.9	.1	9	.8	10.9
Transit		2.31	11.5	13.2	17.6	28.4	26.7	17.1	2.4	1.2	2.7	3.4	-3.3	1.7	22.8
Information processing		2.22	-8.0	6.0	6.2	14.8	3.4	3.0	1.5	-1.2	1.4	.6	8	.5	6.6
Industrial and other		5.04	-17.0	15.8	4.6	13.3	9.2	8	.9	.5	1.7	-1.8	.4	.4	7.1
Defense and space equipment		2.18	-3.2	5.0	4.1	8.1	-5.7	7.0	6	-2.3	4	2.2	1	1.7	5.2
Construction supplies Business supplies		4.12 9.56	-17.0 -6.1	9.8 2.4	4.9 1.2	14.6 3.4	-2.1 4.1	-3.5 -1.7	.8 1.0	-1.6 .5	7 .0	4 .2	.1 -1.3	1.3 .4	4.7 .7
Materials		46.16	-4.6	9.0	4.3	6.1	1.4	9	.9	2	1	.9	-1.6	.4	3.0
Non-energy		28.75	-6.5	10.9	3.7	11.7	6	4	1.0	-1.1	.3	.5	8	.2	3.6
Durable		17.14	-11.2	16.4	6.6	15.9	2.8	-1.3	1.3	8	.7	.5	-1.4	1	5.3
Consumer parts		2.45	-11.5	27.2	6.7	34.1	18.3	10.1	4.0	-1.0	2.0	5.0	-4.4	-1.3	16.5
Equipment parts		6.28	-9.5	17.5	8.0	15.4	5.7	-11.2	.9	6	.9	-2.0	-2.2	.4	2.7
Other		8.42	-12.5	12.5	5.6	11.4	-3.8	3.0	.8	8	.1	.9	.2	1	4.0
Nondurable		11.61	.8	3.6	5	5.4	-5.7	1.0	.4	-1.5	2	.6	.1	.6	1.0
Textile		.45	-5.1	5.2	1.2	18.4	-4.7	-5.7	1.2	-2.8	2.3	-1.1	-1.8	.6	2.7
Paper Chemical		2.01 5.68	-4.7 4.9	1 6.6	-2.9 8	3.7 7.3	-4.9 -7.8	-8.3 3.6	.4 .1	1 -1.9	-2.1 1	5 1.0	2 .7	2	-2.7
Energy		17.40	-1.7	5.7	5.3	-2.4	5.0	-1.7	.7	1.2	1 9	1.4	-2.9	.6	2.1
INDUSTRY GROUPS Manufacturing		75.34	-6.5	6.5	4.2	9.8	1.0	9	.7	6	.4	.3	9	.2	3.2
Manufacturing (NAICS)	31–33	72.60	-6.3	7.1	4.5	10.2	1.5	6	.7	5	.4	.3	-1.0	.2	3.5
Durable manufacturing	51 55	37.96	-9.3	11.7	7.2	16.3	5.7	-1.0	1.2	5	.7	.4	-1.6	.1	6.3
Wood products	321	.90	-12.8	5.0	2.6	14.4	-4.6	-3.7	2	.2	-1.6	.1	4	.7	2.7
Nonmetallic mineral products	327	1.55	-18.1	10.5	.3	7.2	-3.5	-9.0	.2	-1.5	.4	-1.8	4	.0	-3.2
Primary metals	331	2.94	-2.8	11.9	8.6	9.1	-8.4	-4.0	2.2	-2.1	-2.1	1.7	3	-1.0	1.8
Fabricated metal products	332	5.41	-19.0	14.4	7.7	13.4	7.0	3.2	.7	.5	.6	.4	6	.6	7.7
Machinery	333	5.41	-18.6	20.2	7.3	22.1	8.8	-8.4	.3	4	2.5	-3.3	6	.4	7.2
Computer and electronic products	334	6.25	-3.1	12.2	5.7	9.3	4.1	-3.7	1.5	9	1.1	2	-1.8	.1	1.8
Electrical equip., appliances,	335	1.76	-18.1	12.5	.2	9.9	5.4	1.7	.7	.4	8	1.0	-1.1	1.8	6.6
and components Motor vehicles and parts	3361–3	1.76 5.33	2.3	15.8	14.6	40.4	17.0	-2.5	3.0	.4 9	2.0	2.7	-5.1	-2.5	13.2
Aerospace and miscellaneous	3301-3	3.33	2.3	13.0	14.0	40.4	17.0	-2.3	5.0	9	2.0	2.1	-5.1	-2.3	13.2
transportation equipment	3364-9	4.30	1	2.5	10.5	10.9	1.0	8.0	5	4	.3	1.6	8	2.4	9.4
Furniture and related products	337	.98	-22.3	5.8	3.5	16.3	-3.3	3	.9	-1.1	-1.2	1.7	-1.2	.5	2.1
Miscellaneous	339	3.12	-4.0	4.2	2.4	9.9	13.0	6.6	2.3	.9	.5	1.5	7	.1	6.8
Nondurable manufacturing	2	34.64	-2.9	2.3	1.6	3.7	-3.1	.0	.2	6	.0	.3	3	.3	.4
Food, beverage, and tobacco products	311,2	11.43	5	1.0	1.7	4.0	4	4.6	.8	5	.4	1.0	6	1.1	3.1
Textile and product mills	313,4	.74 .28	-10.4	5.3	.8	9.4	-4.3	-6.6 14.2	.6	-2.3 7	2.0	-1.3	-1.6 -2.6	1.6	.6 -1.7
Apparel and leather Paper	315,6 322	2.43	-20.0 -1.2	9.5 .3	-2.6 -1.8	10.5 3	-8.9 -5.5	-14.2 -7.2	1 .8	<i>1</i> 7	-1.3 -2.4	-1.5 2	-2.6 .2	1.6	-1.7
Printing and support	323	1.43	-1.2	1.0	-5.9	6.8	-3.3	-1.1	.6	7	-2.4	2	7	-1.1	-2.8
Petroleum and coal products	324	3.69	-2.6	2.6	7.3	.4	-8.9	-3.9	-2.5	.8	4	-1.4	.7	1	-2.3
Chemicals	325	11.53	-1.5	1.9	.4	3.7	-4.5	-1.8	.2	-1.2	.0	2	.2	.0	-1.0
Plastics and rubber products	326	3.11	-8.4	10.6	6.4	6.2	.3	3.3	.6	-1.1	.8	2.0	-1.6	7	1.8
Other manufacturing (non-NAICS)	1133,5111	2.74	-11.5	-6.0	-3.1	2	-12.3	-10.0	8	-1.5	-1.6	9	1	1	-5.1
Mining	21	14.38	-5.1	8.3	7.9	.5	4	1.4	.6	2	.3	1.0	-1.6	.9	3.8
Itilities	2211,2	10.28	-1.1	2.7	-2.2	-13.8	21.2	1.0	2.3	5.4	-2.7	2.8	-4.3	1.5	-1.4
Utilities Electric	2211	8.99	-1.4	2.6	-2.0	-8.4	19.6	-3.4	1.3	5.3	-3.9	2.9	-4.7	1.5	-1.4

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

creent change, seasonarry adjusted			Fou	rth quarte	er to	Ι			1						
				urth quark		Δ	nnual ra	te			Month	hly rate			Sept. '11
Item		2011	100	artii quai	ici	2012	iiiidai 10	ite	2012		WIOIIII	my rate			to
iem		proportion	2009	2010	2011	Q1	$Q2^{r}$	Q3 ^p	Apr. r	May ^r	June ^r	July ^r	Aug.r	Sept.p	Sept. '12
		proportion	2007	2010	2011	٧.	Ψ-	Ą.	1.1911	11141	o dire	o ary	1146.	Бери	5ept. 12
Total industry		100.00	-5.7	6.3	4.1	5.9	2.6	4	.8	.1	.0	.7	-1.4	.4	2.8
January J															
Energy		26.40	-2.5	5.1	3.9	-6.3	7.9	1	.8	2.4	7	1.3	-2.8	.8	.5
Consumer products		5.39	5	2.1	4	-20.2	16.9	7.5	.8	6.7	5	1.6	-2.7	.8	-3.0
Commercial products		2.93	-1.4	1.9	4	-5.3	13.4	9	2.3	2.5	6	1.0	-2.8	.7	-1.6
Oil and gas well drilling	213111	.68	-42.3	44.9	21.1	4.1	-3.5	-10.0	-1.5	.9	.5	-1.2	-2.1	-1.9	-2.8
Converted fuel		3.98	4	3.0	-1.2	3.0	18.8	-5.7	1.4	4.6	-3.3	1.7	-3.7	.2	1.9
Primary energy		13.43	-2.2	6.7	7.3	-3.9	1.3	5	.5	.2	1	1.3	-2.7	1.0	2.1
Non-energy		73.60	-6.8	6.7	4.1	10.6	.8	5	.8	7	.3	.4	9	.3	3.7
Selected high-technology industries		3.38	3	12.9	1.8	.6	4.0	-12.4	1.0	2	.1	-1.4	-2.6	6	-5.1
Computers and peripheral equipment	3341	.46	-16.6	-20.0	-2.5	6.7	-8.0	-12.4 -9.4	-1.0	-1.4	-1.3	-1.4	-2.0 4	0	-5.8
Communications equipment	3342	.63	-4.4	5.2	-1.0	4	6	-4.5	-1.0	-1.4	4	-1.0	4	4	-1.0
Semiconductors and related	3342	.03	-4.4	3.2	-1.0	4	0	-4.3	1	2	4	5	5	4	-1.0
electronic components	334412-9	2.29	9.3	27.0	3.6	4	7.9	-15.2	1.8	.1	.6	-1.7	-3.8	9	-6.1
electronic components	334412-7	2.2)).3	27.0	3.0	4	1.7	-13.2	1.0	.1	.0	-1./	-5.0	,	-0.1
Excluding selected high-technology															1
industries		70.21	-7.2	6.4	4.2	11.0	.7	.0	.8	8	.3	.5	8	.3	4.1
Motor vehicles and parts	3361-3	5.33	2.3	15.8	14.6	40.4	17.0	-2.5	3.0	9	2.0	2.7	-5.1	-2.5	13.2
Motor vehicles	3361	2.86	8.9	11.7	21.3	47.9	15.4	-7.5	3.4	-1.3	2.1	3.0	-7.0	-3.3	11.3
Motor vehicle parts	3363	2.15	-4.5	21.4	5.0	33.3	21.9	6.8	3.0	2	1.8	2.9	-2.6	-1.8	16.2
Excluding motor vehicles and parts		64.88	-7.8	5.6	3.4	8.8	7	.3	.6	7	.2	.3	4	.6	3.3
Consumer goods		19.09	-5.9	.4	1.6	3.8	-1.1	.1	.6	4	2	.6	6	.4	.9
Business equipment		7.84	-9.3	12.5	7.7	13.4	9.6	2.9	1.0	.5	1.5	8	.1	1.1	9.1
Construction supplies		4.10	-17.1	9.8	4.9	14.7	-2.1	-3.5	.8	-1.6	7	4	.1	1.3	4.7
Business supplies		6.35	-8.7	1.7	1.9	7.7	.1	-1.4	.4	4	.2	1	6	.4	2.1
Materials		25.30	-7.4	8.5	3.5	10.6	-3.1	.1	.7	-1.2	.2	.5	4	.4	3.2
Measures excluding selected high-technology industries												_			
Total industry		96.62	-5.9	6.0	4.1	6.1	2.5	.0	.8	.1	.0	.7	-1.3	.4	3.1
Manufacturing ¹		71.95	-6.9	6.2	4.3	10.2	.9	4	.7	6	.4	.4	9	.2	3.6
Durable		34.70	-10.4	11.6	7.7	17.8	5.9	.0	1.2	5	.8	.6	-1.5	.1	7.4
Measures excluding motor vehicles and parts															
Total industry		94.67	-6.1	5.8	3.5	4.1	1.7	3	.7	.1	1	.5	-1.1	.6	2.2
Manufacturing ¹		70.01	-7.1	5.9	3.5	7.6	3	8	.5	5	.2	.1	6	.4	2.4
Durable		32.75	-10.8	11.0	6.1	12.5	3.8	7	.9	4	.5	.0	9	.6	5.2
Measures excluding selected high-technology industries															
and motor vehicles and parts		01.20	62	<i>E E</i>	26	4.2	1.6	2	7	1	1		1.1		2.5
Total industry Manufacturing ¹		91.29 66.63	-6.3 -7.5	5.5 5.5	3.6	4.2 8.0	1.6 5	.2 2	.7	6	1	.0	-1.1 5	.6	2.5 2.8
		00.00													
Stage-of-process components of non-energy materials, measures of the input to					<i>-</i> .	45.5				_	_				16
Finished processors		11.19	-8.8	15.1	5.4	17.3	6.2	-5.7	1.5	7	.7	1	-2.4	1	4.8
Primary and semifinished processors		17.57	-4.9	8.1	2.6	8.1	-4.9	3.2	.6	-1.3	.1	.9	.2	.4	2.8

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

willions of units, seasonally adjusted annual rate											
	2011	2011	2012			2012					
Item	average	Q4	Q1	Q2	Q3	Apr.	May	June	July	Aug.	Sept.
Total	8.66	9.22	10.11	10.48	10.30	10.52	10.36	10.55	11.03	10.22	9.64
Autos	2.98	3.40	3.86	4.19	4.20	4.17	4.17	4.25	4.58	4.02	3.99
Trucks	5.68	5.82	6.25	6.28	6.10	6.35	6.19	6.31	6.46	6.20	5.65
Light	5.44	5.55	5.97	5.99	5.84	6.05	5.89	6.01	6.18	5.96	5.38
Medium and heavy	.24	.27	.28	.30	.26	.30	.30	.29	.27	.24	.27
Memo											
Autos and light trucks	8.41	8.95	9.83	10.18	10.04	10.22	10.06	10.26	10.76	9.98	9.37

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		2011 proportion	2012 Jan.	Feb.	Mar.	Apr.r	May ^r	June ^r	July ^r	Aug. ^r	Sept. ^p
Total IP		100.00	96.6	97.1	96.5	97.3	97.3	97.4	98.0	96.6	97.0
MARKET GROUPS											
Final products and nonindustrial supplies		53.84	92.9	93.8	93.1	93.9	94.1	94.3	94.7	93.6	94.0
Consumer goods		27.68	92.9	93.3	92.3	92.9	93.6	93.4	94.1	92.6	92.7
Durable		6.30	92.9	93.4	93.1	94.2	93.4	93.5	94.4	91.4	89.8
Automotive products		3.50	104.2	104.6	104.5	105.8	103.9	104.3	105.0	99.7	96.9
Home electronics		.16	69.9	70.3	70.0	69.4	68.3	67.6	66.8	66.6	66.3
Appliances, furniture, carpeting		.76	69.8	69.9	68.4	68.6	68.7	68.1	68.7	68.1	68.6
Miscellaneous goods		1.88	87.1	88.2	88.1	89.4	90.0	90.0	91.7	91.0	90.5
Nondurable		21.38	92.9	93.2	92.0	92.6	93.7	93.4	94.0	93.0	93.6
Non-energy		15.99	91.7	91.8	90.9	91.4	91.0	90.7	91.1	90.6	91.1
Foods and tobacco Clothing		9.22	98.2 61.2	98.7 61.2	97.4 59.7	98.3 59.4	98.0 59.2	98.3 58.1	99.2 57.5	98.7 56.1	99.6 57.0
Chemical products		4.72	85.6	85.1	85.0	85.1	84.6	83.6	83.1	83.0	82.8
Paper products		1.35	78.3	78.0	75.8	75.3	74.3	72.7	73.1	72.3	71.9
Energy		5.39	96.8	98.1	95.8	96.6	103.1	102.5	104.2	101.3	102.2
Business equipment		9.57	99.5	101.0	101.2	102.6	102.9	104.9	105.0	104.1	104.9
Transit		2.31	104.2	107.9	109.1	111.6	113.0	116.1	120.1	116.2	118.2
Information processing		2.22	101.8	102.9	101.8	103.3	102.1	103.6	104.2	103.3	103.8
Industrial and other		5.04	95.5	96.2	96.5	97.3	97.8	99.4	97.6	98.0	98.4
Defense and space equipment		2.18	112.0	114.8	114.7	114.0	111.4	111.0	113.5	113.4	115.
Construction supplies		4.12	80.2	82.0	81.1	81.7	80.4	79.9	79.5	79.6	80.
Business supplies		9.56	89.6	90.3	89.6	90.4	90.9	90.8	91.0	89.8	90.2
Materials		46.16	101.2	101.2	100.8	101.6	101.4	101.3	102.1	100.5	100.9
Non-energy		28.75	95.8	96.4	95.4	96.3	95.3	95.6	96.1	95.3	95.
Durable		17.14	99.5	100.7	99.6	100.9	100.1	100.8	101.3	99.8	99.
Consumer parts		2.45	90.2	91.0	91.1	94.7	93.7	95.6	100.4	95.9	94.
Equipment parts		6.28	113.9	115.6	115.8	116.8	116.1	117.2	114.8	112.3	112.
Other		8.42	92.4	93.6	91.3	92.0	91.2	91.3	92.1	92.3	92.
Nondurable		11.61	90.6	90.4	89.4	89.8	88.5	88.3	88.8	88.9	89.4
Textile		.45 2.01	83.9 82.9	84.8 83.9	82.9 82.3	83.8 82.6	81.5 82.5	83.4 80.8	82.5 80.4	81.0 80.3	81.: 80.
Paper Chemical		5.68	90.7	89.8	89.1	89.2	87.5	87.4	88.3	88.9	89.4
Energy		17.40	109.9	108.5	109.3	110.0	111.3	110.4	111.9	108.7	109.6
INDUSTRY GROUPS											
Manufacturing		75.34	93.8	94.6	94.0	94.6	94.1	94.4	94.7	93.8	94.0
Manufacturing (NAICS)	31-33	72.60	94.9	95.7	95.1	95.8	95.3	95.7	96.0	95.1	95.3
Durable manufacturing		37.96	98.0	99.3	99.0	100.2	99.7	100.5	100.9	99.3	99.4
Wood products	321	.90	73.2	72.6	72.2	72.1	72.3	71.1	71.2	70.9	71.4
Nonmetallic mineral products	327	1.55	71.4	73.4	72.2	72.3	71.2	71.5	70.2	69.9	69.9
Primary metals	331	2.94									
Fabricated metal products			103.1	103.9	100.1	102.3	100.1	98.0	99.6	99.4	
Manhiman.	332	5.41	91.2	92.8	92.6	93.2	93.7	94.3	94.7	94.1	94.
Machinery Computer and electronic products	333	5.41 5.41	91.2 99.5	92.8 101.0	92.6 102.2	93.2 102.5	93.7 102.1	94.3 104.6	94.7 101.1	94.1 100.5	94. 100.
Computer and electronic products		5.41	91.2	92.8	92.6	93.2	93.7	94.3	94.7	94.1	94. 100.
Computer and electronic products Electrical equip., appliances,	333 334	5.41 5.41 6.25	91.2 99.5 114.9	92.8 101.0 115.4	92.6 102.2 114.7	93.2 102.5 116.4	93.7 102.1 115.4	94.3 104.6 116.6	94.7 101.1 116.4	94.1 100.5 114.3	94. 100. 114.
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts	333	5.41 5.41	91.2 99.5	92.8 101.0	92.6 102.2	93.2 102.5	93.7 102.1	94.3 104.6	94.7 101.1	94.1 100.5	94.° 100.° 114. 86.°
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous	333 334 335 3361–3	5.41 5.41 6.25 1.76 5.33	91.2 99.5 114.9 83.2 99.4	92.8 101.0 115.4 85.2 100.2	92.6 102.2 114.7 85.0 101.1	93.2 102.5 116.4 85.6 104.2	93.7 102.1 115.4 85.9 103.3	94.3 104.6 116.6 85.2 105.3	94.7 101.1 116.4 86.1 108.2	94.1 100.5 114.3 85.1 102.6	94.7 100.9 114.4 86.7 100.0
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	5.41 5.41 6.25 1.76 5.33 4.30	91.2 99.5 114.9 83.2 99.4 103.4	92.8 101.0 115.4 85.2 100.2	92.6 102.2 114.7 85.0 101.1	93.2 102.5 116.4 85.6 104.2	93.7 102.1 115.4 85.9 103.3	94.3 104.6 116.6 85.2 105.3	94.7 101.1 116.4 86.1 108.2	94.1 100.5 114.3 85.1 102.6	94.′ 100.9 114.4 86.′ 100.0
Computer and electronic products Electrical equip., appliances, and components Motor vehicles and parts Aerospace and miscellaneous	333 334 335 3361–3	5.41 5.41 6.25 1.76 5.33	91.2 99.5 114.9 83.2 99.4	92.8 101.0 115.4 85.2 100.2	92.6 102.2 114.7 85.0 101.1	93.2 102.5 116.4 85.6 104.2	93.7 102.1 115.4 85.9 103.3	94.3 104.6 116.6 85.2 105.3	94.7 101.1 116.4 86.1 108.2	94.1 100.5 114.3 85.1 102.6	94.100.114.4 86.100.0 109.6
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 3364–9 337	5.41 5.41 6.25 1.76 5.33 4.30 .98 3.12	91.2 99.5 114.9 83.2 99.4 103.4 69.9 104.1	92.8 101.0 115.4 85.2 100.2 107.0 71.2 104.2	92.6 102.2 114.7 85.0 101.1 106.7 69.9 104.3	93.2 102.5 116.4 85.6 104.2 106.2 70.6 106.6	93.7 102.1 115.4 85.9 103.3 105.7 69.8 107.5	94.3 104.6 116.6 85.2 105.3 106.0 68.9 108.0	94.7 101.1 116.4 86.1 108.2 107.7 70.2 109.7	94.1 100.5 114.3 85.1 102.6 106.9 69.3 108.8	94.1 100.9 114.4 86.7 100.0 109.4 69.0 108.9
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	5.41 5.41 6.25 1.76 5.33 4.30 .98 3.12 34.64	91.2 99.5 114.9 83.2 99.4 103.4 69.9 104.1 91.7	92.8 101.0 115.4 85.2 100.2 107.0 71.2 104.2 92.0	92.6 102.2 114.7 85.0 101.1 106.7 69.9 104.3 91.0	93.2 102.5 116.4 85.6 104.2 106.2 70.6 106.6 91.2	93.7 102.1 115.4 85.9 103.3 105.7 69.8 107.5	94.3 104.6 116.6 85.2 105.3 106.0 68.9 108.0 90.7	94.7 101.1 116.4 86.1 108.2 107.7 70.2 109.7 90.9	94.1 100.5 114.3 85.1 102.6 106.9 69.3 108.8 90.6	94.2 100.9 114.4 86.2 100.0 109.4 69.0 108.9
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	5.41 5.41 6.25 1.76 5.33 4.30 .98 3.12 34.64 11.43	91.2 99.5 114.9 83.2 99.4 103.4 69.9 104.1 91.7 100.0	92.8 101.0 115.4 85.2 100.2 107.0 71.2 104.2 92.0 100.4	92.6 102.2 114.7 85.0 101.1 106.7 69.9 104.3 91.0 99.0	93.2 102.5 116.4 85.6 104.2 106.2 70.6 106.6 91.2 99.9	93.7 102.1 115.4 85.9 103.3 105.7 69.8 107.5 90.6 99.4	94.3 104.6 116.6 85.2 105.3 106.0 68.9 108.0 90.7 99.8	94.7 101.1 116.4 86.1 108.2 107.7 70.2 109.7 90.9 100.9	94.1 100.5 114.3 85.1 102.6 106.9 69.3 108.8 90.6 100.3	94. 100.9 114. 86. 100.0 109. 69. 108. 90.9 101.
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	5.41 5.41 6.25 1.76 5.33 4.30 .98 3.12 34.64 11.43 .74	91.2 99.5 114.9 83.2 99.4 103.4 69.9 104.1 91.7 100.0 77.7	92.8 101.0 115.4 85.2 100.2 107.0 71.2 104.2 92.0 100.4 78.4	92.6 102.2 114.7 85.0 101.1 106.7 69.9 104.3 91.0 99.0 77.2	93.2 102.5 116.4 85.6 104.2 106.2 70.6 106.6 91.2 99.9 77.6	93.7 102.1 115.4 85.9 103.3 105.7 69.8 107.5 90.6 99.4 75.8	94.3 104.6 116.6 85.2 105.3 106.0 68.9 108.0 90.7 99.8 77.3	94.7 101.1 116.4 86.1 108.2 107.7 70.2 109.7 90.9 100.9 76.3	94.1 100.5 114.3 85.1 102.6 106.9 69.3 108.8 90.6 100.3 75.1	94. 100.9 114. 86. 100.0 109. 69. 108.9 90.9
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	5.41 5.41 6.25 1.76 5.33 4.30 .98 3.12 34.64 11.43	91.2 99.5 114.9 83.2 99.4 103.4 69.9 104.1 91.7 100.0	92.8 101.0 115.4 85.2 100.2 107.0 71.2 104.2 92.0 100.4	92.6 102.2 114.7 85.0 101.1 106.7 69.9 104.3 91.0 99.0	93.2 102.5 116.4 85.6 104.2 106.2 70.6 106.6 91.2 99.9	93.7 102.1 115.4 85.9 103.3 105.7 69.8 107.5 90.6 99.4	94.3 104.6 116.6 85.2 105.3 106.0 68.9 108.0 90.7 99.8	94.7 101.1 116.4 86.1 108.2 107.7 70.2 109.7 90.9 100.9	94.1 100.5 114.3 85.1 102.6 106.9 69.3 108.8 90.6 100.3	94. 100.9 114. 86. 100.0 109. 69. 108. 90.9 101. 75. 59.0
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	5.41 5.41 6.25 1.76 5.33 4.30 .98 3.12 34.64 11.43 .74	91.2 99.5 114.9 83.2 99.4 103.4 69.9 104.1 91.7 100.0 77.7 63.3	92.8 101.0 115.4 85.2 100.2 107.0 71.2 104.2 92.0 100.4 78.4 62.9	92.6 102.2 114.7 85.0 101.1 106.7 69.9 104.3 91.0 99.0 77.2 61.8	93.2 102.5 116.4 85.6 104.2 106.2 70.6 106.6 91.2 99.9 77.6 61.8	93.7 102.1 115.4 85.9 103.3 105.7 69.8 107.5 90.6 99.4 75.8 61.4	94.3 104.6 116.6 85.2 105.3 106.0 68.9 108.0 90.7 99.8 77.3 60.6	94.7 101.1 116.4 86.1 108.2 107.7 70.2 109.7 90.9 100.9 76.3 59.7	94.1 100.5 114.3 85.1 102.6 106.9 69.3 108.8 90.6 100.3 75.1 58.1	94. 100. 114. 86. 100. 109. 69. 108. 90. 101. 75. 59. 82.
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 3364–9 337 339 311,2 313,4 315,6 322 323 323 324	5.41 5.41 6.25 1.76 5.33 4.30 .98 3.12 34.64 11.43 .74 .28 2.43	91.2 99.5 114.9 83.2 99.4 103.4 69.9 104.1 91.7 100.0 77.7 63.3 85.4 75.2 100.8	92.8 101.0 115.4 85.2 100.2 107.0 71.2 104.2 92.0 100.4 78.4 62.9 86.0 75.4 103.7	92.6 102.2 114.7 85.0 101.1 106.7 69.9 104.3 91.0 99.0 77.2 61.8 84.4	93.2 102.5 116.4 85.6 104.2 106.2 70.6 106.6 91.2 99.9 77.6 61.8 85.1	93.7 102.1 115.4 85.9 103.3 105.7 69.8 107.5 90.6 99.4 75.8 61.4 84.6	94.3 104.6 116.6 85.2 105.3 106.0 68.9 108.0 90.7 99.8 77.3 60.6 82.5	94.7 101.1 116.4 86.1 108.2 107.7 70.2 109.7 90.9 100.9 76.3 59.7 82.3	94.1 100.5 114.3 85.1 102.6 106.9 69.3 108.8 90.6 100.3 75.1 58.1 82.5	94. 100. 114. 86. 100. 109. 69. 101. 75. 59. 82. 74. 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 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	5.41 5.41 6.25 1.76 5.33 4.30 .98 3.12 34.64 11.43 .74 .28 2.43 1.43 3.69 11.53	91.2 99.5 114.9 83.2 99.4 103.4 69.9 104.1 91.7 100.0 77.7 63.3 85.4 75.2 100.8 88.2	92.8 101.0 115.4 85.2 100.2 107.0 71.2 104.2 92.0 100.4 78.4 62.9 86.0 75.4 103.7 87.5	92.6 102.2 114.7 85.0 101.1 106.7 69.9 104.3 91.0 99.0 77.2 61.8 84.4 74.1 101.9 87.0	93.2 102.5 116.4 85.6 104.2 106.2 70.6 106.6 91.2 99.9 77.6 61.8 85.1 74.6 99.4 87.2	93.7 102.1 115.4 85.9 103.3 105.7 69.8 107.5 90.6 99.4 75.8 61.4 84.6 75.0 100.2 86.2	94.3 104.6 116.6 85.2 105.3 106.0 68.9 108.0 90.7 99.8 77.3 60.6 82.5 75.3 99.8 86.2	94.7 101.1 116.4 86.1 108.2 107.7 70.2 109.7 90.9 100.9 76.3 59.7 82.3 75.4 98.4 86.1	94.1 100.5 114.3 85.1 102.6 106.9 69.3 108.8 90.6 100.3 75.1 58.1 82.5 74.8 99.1 86.2	94. 100. 114. 86. 100. 109. 69. 108. 90. 101. 75. 59. 82. 74. 99. 86.
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	5.41 5.41 6.25 1.76 5.33 4.30 .98 3.12 34.64 11.43 .74 .28 2.43 1.43 3.69	91.2 99.5 114.9 83.2 99.4 103.4 69.9 104.1 91.7 100.0 77.7 63.3 85.4 75.2 100.8	92.8 101.0 115.4 85.2 100.2 107.0 71.2 104.2 92.0 100.4 78.4 62.9 86.0 75.4 103.7	92.6 102.2 114.7 85.0 101.1 106.7 69.9 104.3 91.0 99.0 77.2 61.8 84.4 74.1 101.9	93.2 102.5 116.4 85.6 104.2 106.2 70.6 106.6 91.2 99.9 77.6 61.8 85.1 74.6 99.4	93.7 102.1 115.4 85.9 103.3 105.7 69.8 107.5 90.6 99.4 75.8 61.4 84.6 75.0 100.2	94.3 104.6 116.6 85.2 105.3 106.0 68.9 108.0 90.7 99.8 77.3 60.6 82.5 75.3 99.8	94.7 101.1 116.4 86.1 108.2 107.7 70.2 109.7 90.9 100.9 76.3 59.7 82.3 75.4 98.4	94.1 100.5 114.3 85.1 102.6 106.9 69.3 108.8 90.6 100.3 75.1 58.1 82.5 74.8 99.1	94.100.9 114.2 86.100.0 109.4 69.0 108.9 90.9 101.4 75.4 59.0 82.7 74.0 99.0 86.2
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 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	5.41 5.41 6.25 1.76 5.33 4.30 .98 3.12 34.64 11.43 .74 .28 2.43 1.43 3.69 11.53	91.2 99.5 114.9 83.2 99.4 103.4 69.9 104.1 91.7 100.0 77.7 63.3 85.4 75.2 100.8 88.2	92.8 101.0 115.4 85.2 100.2 107.0 71.2 104.2 92.0 100.4 78.4 62.9 86.0 75.4 103.7 87.5	92.6 102.2 114.7 85.0 101.1 106.7 69.9 104.3 91.0 99.0 77.2 61.8 84.4 74.1 101.9 87.0	93.2 102.5 116.4 85.6 104.2 106.2 70.6 106.6 91.2 99.9 77.6 61.8 85.1 74.6 99.4 87.2	93.7 102.1 115.4 85.9 103.3 105.7 69.8 107.5 90.6 99.4 75.8 61.4 84.6 75.0 100.2 86.2	94.3 104.6 116.6 85.2 105.3 106.0 68.9 108.0 90.7 99.8 77.3 60.6 82.5 75.3 99.8 86.2	94.7 101.1 116.4 86.1 108.2 107.7 70.2 109.7 90.9 100.9 76.3 59.7 82.3 75.4 98.4 86.1	94.1 100.5 114.3 85.1 102.6 106.9 69.3 108.8 90.6 100.3 75.1 58.1 82.5 74.8 99.1 86.2	94.100.9 114.2 86.1 100.0 109.4 108.5 90.9 101.2 75.4 59.0 82.7 74.1 99.0 86.1 91.3
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 Other manufacturing (non-NAICS)	333 334 335 3361–3 3364–9 337 339 311,2 313,4 315,6 322 323 324 325 326 1133,5111	5.41 5.41 6.25 1.76 5.33 4.30 .98 3.12 34.64 11.43 .74 .28 2.43 1.43 3.69 11.53 3.11 2.74 14.38	91.2 99.5 114.9 83.2 99.4 103.4 69.9 104.1 91.7 100.0 77.7 63.3 85.4 75.2 100.8 88.2 91.4 72.6 113.1	92.8 101.0 115.4 85.2 100.2 107.0 71.2 104.2 92.0 100.4 78.4 62.9 86.0 75.4 103.7 87.5 92.5 72.9	92.6 102.2 114.7 85.0 101.1 106.7 69.9 104.3 91.0 99.0 77.2 61.8 84.4 74.1 101.9 87.0 91.9 71.7	93.2 102.5 116.4 85.6 104.2 106.2 70.6 106.6 91.2 99.9 77.6 61.8 85.1 74.6 99.4 87.2 92.4 71.1	93.7 102.1 115.4 85.9 103.3 105.7 69.8 107.5 90.6 99.4 75.8 61.4 84.6 75.0 100.2 86.2 91.4 70.1	94.3 104.6 116.6 85.2 105.3 106.0 68.9 108.0 90.7 99.8 77.3 60.6 82.5 75.3 99.8 86.2 92.1 69.0	94.7 101.1 116.4 86.1 108.2 107.7 70.2 109.7 90.9 100.9 76.3 59.7 82.3 75.4 98.4 86.1 94.0 68.3	94.1 100.5 114.3 85.1 102.6 106.9 69.3 108.8 90.6 100.3 75.1 82.5 74.8 99.1 86.2 92.5 68.2	94.7 100.9 114.4 86.7 100.0 109.4 69.6 108.9 90.9 101.4 75.4 59.0 82.7 74.0 99.0 86.2 91.8
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	5.41 5.41 6.25 1.76 5.33 4.30 .98 3.12 34.64 11.43 .74 .28 2.43 1.43 3.69 11.53 3.11 2.74	91.2 99.5 114.9 83.2 99.4 103.4 69.9 104.1 91.7 100.0 77.7 63.3 85.4 75.2 100.8 88.2 91.4 72.6	92.8 101.0 115.4 85.2 100.2 107.0 71.2 104.2 92.0 100.4 78.4 62.9 86.0 75.4 103.7 87.5 92.5	92.6 102.2 114.7 85.0 101.1 106.7 69.9 104.3 91.0 99.0 77.2 61.8 84.4 74.1 101.9 87.0 91.9	93.2 102.5 116.4 85.6 104.2 106.2 70.6 106.6 91.2 99.9 77.6 61.8 85.1 74.6 99.4 87.2 92.4 71.1	93.7 102.1 115.4 85.9 103.3 105.7 69.8 107.5 90.6 99.4 75.8 61.4 84.6 75.0 100.2 86.2 91.4 70.1	94.3 104.6 116.6 85.2 105.3 106.0 68.9 108.0 90.7 99.8 77.3 60.6 82.5 75.3 99.8 86.2 92.1 69.0	94.7 101.1 116.4 86.1 108.2 107.7 70.2 109.7 90.9 100.9 76.3 59.7 82.3 75.4 98.4 86.1 94.0 68.3	94.1 100.5 114.3 85.1 102.6 106.9 69.3 108.8 90.6 100.3 75.1 82.5 74.8 99.1 86.2 92.5 68.2	98.3 94.7 100.9 114.4 86.7 100.0 109.4 69.6 108.9 90.9 101.4 75.4 99.0 82.7 74.0 99.1 81.2 99.8 99.8

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

 Table 5

 INDUSTRIAL PRODUCTION INDEXES: SPECIAL AGGREGATES

 2007 = 100, seasonally adjusted

Riem	007 = 100, seasonally adjusted											
Total industry	Item		2011	2012 Ian	Feb	Mar	Apr ^r	Mayr	Iuner	Inly ^r	Δ 11σ ^r	Sept. ^p
Energy	Tem		proportion	Juli.	100.	14141.	ripi.	iviay	Julie	July	7145.	Бери.
Consumer products	Total industry		100.00	96.6	97.1	96.5	97.3	97.3	97.4	98.0	96.6	97.0
Communication decidents	Energy		26.40	105.7	105.3	105.1	106.0	108.5	107.7	109.1	106.0	106.8
Oil and gas well drilling 213111 6.8 107.6 107.1 107.3 105.6 106.5 107.1 105.8 103.6 106.5 107.1 107.8 103.6 106.5 107.1 107.8 103.6 106.5 107.1 107.8 103.6 106.5 107.1 107.8 103.6 107.1 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 107.8 1	Consumer products		5.39	96.8	98.1	95.8	96.6	103.1	102.5	104.2	101.3	102.2
Selected high-technology industries 3.38 11.4 11.7 11.2 11.3 11.4 11.1 11.8 11.8	Commercial products		2.93	97.8	99.8	97.9	100.2	102.7	102.1	103.1	100.2	100.9
Primary energy 13,43 114,4 111,7 112,7 113,2 113,4 113,3 114,8 111,8	Oil and gas well drilling	213111	.68	107.6	107.1	107.3	105.6	106.5	107.1	105.8	103.6	101.6
Non-energy 73,60 93,5 94,2 93,5 94,3 93,6 93,9 94,3 93,5	Converted fuel		3.98	95.7	98.6	98.7	100.1	104.6	101.2	102.9	99.1	99.3
Selected high-technology industries 3.38 115.6 115.6 115.6 116.8 116.6 116.8 115.2 112.1	Primary energy		13.43	114.4	111.7	112.7	113.2	113.4	113.3	114.8	111.8	112.9
Computers and peripheral equipment 3341 .46 74.4 75.1 75.1 74.3 73.3 72.3 71.6 71.4	Non-energy		73.60	93.5	94.2	93.5	94.3	93.6	93.9	94.3	93.5	93.7
Computers and peripheral equipment 3341 .46 74.4 75.1 75.1 74.3 73.3 72.3 71.6 71.4	Selected high-technology industries		3.38	115.6	115.6	115.6	116.8	116.6	116.8	115.2	112.1	111.4
Semiconductors and related electronic components 334412-9 2.29 147.0 146.2 146.3 148.9 149.1 149.9 147.4 141.9	Computers and peripheral equipment	3341	.46	74.4	75.1	75.1	74.3	73.3	72.3	71.6	71.4	71.6
Excluding selected high-technology industries 334412-9 2.29 147.0 146.2 146.3 148.9 149.1 149.9 147.4 141.9	Communications equipment	3342	.63	85.4	86.4	86.2	86.1	85.9	85.6	85.2	84.9	84.5
Excluding selected high-technology industries 70.21 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.3 93.0 92.6 93.1 93.2 108.2 109.5 100.5 103.4 100.7 104.1 100.7 104.2 103.4 100.7 104.2 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.7 104.2 104.3 104.4 107.7 114.0 105.1 105.5 103.4 100.7 104.2 103.4 103.4 103.4 103.4 103.7 104.2 103.4 104.7 104.2 103.4 104.7 104.1 105.1 105.3 106.1 106.1 106.1 106.1 106.1 106.1 106.1 106.1 106.1 106.1 106.1 106.1 106.2 109.8 108.4 110.7 114.0 106.1 106.1 106.1 106.1 106.1 106.1 106.1 106.1 106.1 106.2 109.8 104.2 104.2 104.3 106.2 109.8 104.2 104.3 104.2 104.4 107.7 114.4 107.7 114.0 106.1 100.5 103.4 100.7 104.2 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 104.2 104.1 102.2 102.7 104.2 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 104.2 104.1 102.2 102.7 104.2 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 104.2 101.1 102.2 102.7 104.2 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 102.2 104.1 102.2 102.7 104.2 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4 103.4	Semiconductors and related											
Motor vehicles and parts 3361-3 5.33 99.4 100.2 101.1 104.2 103.3 105.3 108.2 102.6	electronic components	334412-9	2.29	147.0	146.2	146.3	148.9	149.1	149.9	147.4	141.9	140.6
Motor vehicles 3361 2.86 105.3 105.9 106.2 109.8 108.4 110.7 114.0 106.1			70.21	92.3	93.0	92.3	93.0	92.3	92.6	93.1	92.3	92.6
Motor vehicle parts 3363 2.15 93.4 94.2 96.0 98.9 98.7 100.5 103.4 100.7												100.0
Excluding motor vehicles and parts 64.88 91.5 92.3 91.4 92.0 91.3 91.4 91.7 91.3 Consumer goods Business equipment 7.84 99.8 101.2 101.1 102.2 102.7 104.2 103.4 103.4 103.4 Construction supplies 4.10 80.1 81.9 81.0 81.6 80.3 79.7 79.4 79.5 Business supplies 6.35 85.1 85.3 85.1 85.3 85.1 85.3 85.1 85.4 85.0 85.2 85.1 84.6 Materials Measures excluding selected high-technology industries Total industry 96.62 95.8 96.3 95.7 96.4 96.5 96.5 97.2 95.9 Manufacturing of the input to 94.67 96.2 96.6 96.7 96.0 96.7 96.8 96.7 96.8 96.7 97.2 96.1 96.8 96.7 97.2 96.1 96.8 96.7 97.2 96.1 96.8 96.7 96.8 96.7 97.2 96.1 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.7 96.8 96.8 96.7 96.8 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.8 96.9 96.9 96.9 96.9 96.8 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9 96.9												102.6
Consumer goods	Motor vehicle parts	3363	2.15	93.4	94.2	96.0	98.9	98.7	100.5	103.4	100.7	98.9
Business equipment 7.84 99.8 101.2 101.1 102.2 102.7 104.2 103.4 103.4 Construction supplies 4.10 80.1 81.9 81.0 81.6 80.3 79.7 79.4 79.5 Business supplies 6.35 85.1 85.3 85.1 85.4 85.0 85.2 85.1 84.6 Materials 25.30 93.1 93.8 92.4 93.1 92.0 92.1 92.5 92.1 84.6 Materials 93.1 93.8 92.4 93.1 92.0 92.1 92.5 92.1 84.6 Materials 96.62 95.8 96.3 95.7 96.4 96.5 96.5 97.2 95.9 Manufacturing 771.95 92.6 93.4 92.8 93.4 92.8 93.2 93.5 92.7 Durable 34.70 95.6 97.0 96.7 97.9 97.4 98.2 98.8 97.3 Manufacturing 94.67 96.2 96.7 96.0 96.7 97.9 97.4 98.2 98.8 97.3 Polyable 32.75 97.2 94.0 93.3 93.7 93.2 93.4 93.5 93.0 Durable 32.75 97.2 98.6 98.1 98.9 98.5 99.1 99.0 98.2 Measures excluding selected high-technology industries and motor vehicles and parts Total industry 91.29 95.4 95.8 95.1 95.8 95.9 95.8 96.4 95.3 Manufacturing 91.29 95.4 95.8 95.1 95.8 95.9 95.8 96.4 95.3 Manufacturing 91.29 95.4 95.8 95.1 95.8 95.9 95.8 96.4 95.3 Stage-of-process components of non-energy materials, measures of the input to												91.9
Construction supplies												89.5
Business supplies Materials 6.35 85.1 85.3 85.1 85.4 85.0 85.2 85.1 84.6 Materials Measures excluding selected high-technology industries Total industry 96.62 95.8 96.3 95.7 96.4 96.5 96.5 97.2 95.9 Manufacturing¹ 71.95 92.6 93.4 92.8 93.4 92.8 93.2 93.5 92.7 Durable Measures excluding motor vehicles and parts Total industry 94.67 96.2 96.7 96.0 96.7 97.9 97.4 98.2 98.8 97.3 Manufacturing¹ 70.01 93.2 94.0 93.3 93.7 93.2 93.4 93.5 93.0 Durable Measures excluding selected high-technology industries and motor vehicles and parts Total industry 94.67 96.2 96.7 96.0 96.7 96.8 96.7 97.2 96.1 Manufacturing¹ 70.01 93.2 94.0 93.3 93.7 93.2 93.4 93.5 93.0 Measures excluding selected high-technology industries and motor vehicles and parts Total industry 91.29 95.4 95.8 95.1 95.8 95.9 95.8 96.4 95.3 Manufacturing¹ 66.63 91.9 92.7 91.9 92.4 91.9 92.0 92.2 91.8 Stage-of-process components of non-energy materials, measures of the input to												104.5
Materials 25.30 93.1 93.8 92.4 93.1 92.0 92.1 92.5 92.1												80.6
Measures excluding selected high-technology industries 96.62 95.8 96.3 95.7 96.4 96.5 96.5 97.2 95.9												84.9
industries Total industry 96.62 95.8 96.3 95.7 96.4 96.5 96.5 97.2 95.9 Manufacturing¹ 71.95 92.6 93.4 92.8 93.4 92.8 93.2 93.5 92.7 Durable Measures excluding motor vehicles and parts Total industry 94.67 96.2 96.7 96.0 96.7 96.0 96.7 96.8 96.7 97.2 96.1 Manufacturing¹ 70.01 93.2 94.0 93.3 93.7 93.2 93.4 93.5 93.0 Durable 32.75 97.2 98.6 98.1 98.9 98.5 99.1 99.0 98.2 Measures excluding selected high-technology industries and motor vehicles and parts Total industry 91.29 95.4 95.8 95.1 95.8 95.9 95.8 96.4 95.3 Manufacturing¹ 66.63 91.9 92.7 91.9 92.4 91.9 92.0 92.2 91.8	Materials		25.30	93.1	93.8	92.4	93.1	92.0	92.1	92.5	92.1	92.5
Post												
Manufacturing T1.95 92.6 93.4 92.8 93.4 92.8 93.2 93.5 92.7			96.62	95.8	96.3	95.7	96.4	96.5	96.5	97.2	95 9	96.3
Durable 34.70 95.6 97.0 96.7 97.9 97.4 98.2 98.8 97.3	• .											92.9
Measures excluding motor vehicles and parts 94.67 96.2 96.7 96.0 96.7 96.8 96.7 97.2 96.1												97.5
Manufacturing			34.70	75.0	77.0	70.7	71.7	77.4	70.2	70.0	71.5	<i>)</i> /
Manufacturing ¹ Durable 70.01 32.75 97.2 98.6 98.1 98.9 98.5 99.1 99.0 98.2 Measures excluding selected high-technology industries and motor vehicles and parts Total industry 91.29 95.4 95.8 95.1 95.8 95.9 95.8 96.4 95.3 Manufacturing ¹ 66.63 91.9 92.7 91.9 92.4 91.9 92.0 92.2 91.8			94 67	96.2	96.7	96.0	96.7	96.8	96.7	97.2	96.1	96.7
Durable 32.75 97.2 98.6 98.1 98.9 98.5 99.1 99.0 98.2				1								93.3
Measures excluding selected high-technology industries and motor vehicles and parts Total industry Manufacturing ¹ 91.29 95.4 95.8 95.1 95.8 95.9 95.8 96.4 95.3 Manufacturing ¹ 91.9 92.7 91.9 92.4 91.9 92.0 92.2 91.8 Stage-of-process components of non-energy materials, measures of the input to												98.
industries and motor vehicles and parts Total industry 91.29 95.4 95.8 95.1 95.8 95.9 95.8 96.4 95.3 Manufacturing 66.63 91.9 92.7 91.9 92.4 91.9 92.0 92.2 91.8 Stage-of-process components of non-energy materials, measures of the input to												
Total industry 91.29 95.4 95.8 95.1 95.8 95.9 95.8 96.4 95.3												
Manufacturing ¹ 66.63 91.9 92.7 91.9 92.4 91.9 92.0 92.2 91.8 Stage-of-process components of non-energy materials, measures of the input to			91.29	95.4	95.8	95.1	95.8	95.9	95.8	96.4	95.3	95.9
materials, measures of the input to	Manufacturing ¹		66.63	91.9	92.7	91.9	92.4	91.9	92.0	92.2	91.8	92.2
Finished processors 11.19 100.6 102.0 101.6 103.2 102.5 103.2 103.1 100.6												
			11.19	100.6	102.0	101.6	103.2	102.5	103.2	103.1	100.6	100.5
Primary and semifinished processors 17.57 92.7 92.9 91.4 92.0 90.8 90.9 91.7 91.9	Primary and semifinished processors		17.57	92.7	92.9	91.4	92.0	90.8	90.9	91.7	91.9	92.2

Table 6 DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

ercent												
Item	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One month earlier												
2010	64.4	56.4	65.7	67.0	66.0	52.6	61.9	52.6	52.2	55.1	52.9	60.9
2011	57.7	54.2	56.1	46.8	53.2	49.7	57.1	52.9	51.9	58.0	52.2	65.7
2012	59.0	62.8	42.6	63.3	52.2	55.8	52.9	37.8				
Three months earlier												
2010	68.6	62.2	69.2	67.0	69.9	66.7	60.9	58.0	58.3	55.8	54.2	57.4
2011	62.5	62.5	61.9	51.9	54.8	53.5	56.4	51.0	57.1	55.8	59.3	65.1
2012	68.3	73.1	61.9	57.1	48.1	58.7	51.0	47.8				
Six months earlier												
2010	69.6	64.1	65.7	72.1	72.4	72.1	69.9	68.6	64.1	63.5	57.1	63.8
2011	59.0	61.2	63.1	59.6	59.3	57.1	57.4	53.2	51.9	58.7	57.4	62.8
2012	67.9	72.8	62.8	69.6	64.7	59.6	57.7	48.7				

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.

r Revised. p Preliminary.

1. Refer to note on cover page.

Table 7
CAPACITY UTILIZATION
Percent of capacity, seasonally adjusted

Item		2011	1972- 2011	1994- 95	2009	2012			2012					
		proportion	ave.	high	low	Q1	Q2 ^r	Q3 ^p	Apr.r	May ^r	June ^r	July ^r	Aug.r	Sept.
Total industry		100.00	80.3	85.0	66.8	78.7	78.9	78.5	79.0	78.9	78.8	79.2	78.0	78.
Manufacturing ¹		76.96	78.8	84.6	63.8	77.6	77.5	77.1	77.8	77.3	77.5	77.6	76.8	76.
Manufacturing (NAICS)	31–33	73.67	78.7	84.7	63.6	78.2	78.1	77.7	78.4	77.9	78.1	78.3	77.4	77.
Durable manufacturing		39.73	77.1	83.7	58.2	77.5	78.1	77.3	78.3	77.7	78.1	78.3	76.9	76
Wood products	321	1.10	77.6	86.6	51.7	66.9	66.6	66.3	66.7	67.0	66.0	66.3	66.1	66
Nonmetallic mineral products	327	2.21	75.2	82.7	44.2	56.4	56.3	55.5	56.7	56.0	56.4	55.5	55.4	55
Primary metals	331	3.08	79.2	94.1	48.6	77.0	75.4	74.8	76.9	75.4	73.8	75.1	75.0	74
Fabricated metal products	332	5.28	77.3	85.9	60.9	82.4	83.6	84.0	83.2	83.6	84.0	84.3	83.6	84
Machinery	333	5.18	78.1	87.7	60.3	84.9	86.1	83.5	85.9	85.3	87.1	84.0	83.2	83
Computer and electronic products	334	6.22	78.2	84.5	68.7	78.1	77.6	75.8	78.1	77.1	77.5	77.1	75.4	75
Electrical equip., appliances,														
and components	335	1.71	82.6	92.7	66.3	81.8	82.9	83.3	82.9	83.3	82.6	83.4	82.5	83
Motor vehicles and parts	3361-3	6.24	75.0	87.4	34.7	75.1	77.3	75.9	77.5	76.6	77.8	79.6	75.2	73
Aerospace and miscellaneous														
transportation equipment	3364-9	4.49	73.1	69.1	69.7	78.1	77.7	78.6	78.0	77.5	77.5	78.6	77.8	79
Furniture and related products	337	1.12	77.1	82.4	57.5	70.9	70.6	70.7	71.3	70.6	69.8	71.1	70.3	70
Miscellaneous	339	3.09	76.1	80.6	68.2	78.3	79.6	79.7	79.4	79.7	79.7	80.5	79.5	79
Nondurable manufacturing		33.94	80.9	86.1	69.3	78.9	78.2	78.1	78.5	78.0	78.0	78.2	77.9	78
Food, beverage, and tobacco products	311,2	11.05	81.1	86.1	75.7	79.7	79.4	80.0	79.6	79.2	79.4	80.1	79.6	80
Textile and product mills	313,4	.85	80.3	91.9	53.8	69.9	69.5	68.7	70.0	68.6	70.0	69.2	68.3	68
Apparel and leather	315,6	.31	78.0	87.5	59.0	71.2	69.9	67.6	70.4	70.1	69.3	68.3	66.7	67
Paper	322	2.27	86.9	92.6	71.8	81.8	81.1	80.2	82.0	81.6	79.8	79.8	80.2	80
Printing and support	323	1.70	81.6	84.7	60.4	65.5	65.4	65.1	65.1	65.5	65.7	65.7	65.2	64
Petroleum and coal products	324	3.32	85.7	90.9	76.0	86.3	84.8	84.8	84.2	85.1	85.0	84.1	85.0	85
Chemicals	325	11.33	77.7	81.9	65.0	78.2	77.1	76.4	77.8	76.8	76.7	76.4	76.4	76
Plastics and rubber products	326	3.11	82.2	92.5	58.0	78.5	78.2	78.4	78.7	77.7	78.2	79.6	78.1	77
Other manufacturing (non-NAICS)	1133,5111	3.29	82.7	83.3	68.4	65.4	63.7	62.5	64.5	63.7	62.9	62.4	62.5	62
Mining	21	12.77	87.3	88.6	78.5	89.9	89.4	89.2	89.5	89.2	89.3	90.1	88.4	89
Utilities	2211,2	10.27	86.3	93.3	79.1	72.5	75.6	75.4	73.8	77.7	75.4	77.4	73.9	74
Selected high-technology industries		3.45	78.2	86.5	69.1	74.1	74.1	71.6	74.2	74.0	74.0	73.0	71.1	70
Computers and peripheral equipment	3341	.44	78.4	86.8	75.8	81.0	79.0	77.1	80.1	79.0	77.9	77.1	76.9	77
Communications equipment	3342	.66	76.6	84.1	75.8	76.4	76.2	75.4	76.4	76.2	75.9	75.6	75.4	75
Semiconductors and related						,								
electronic components	334412-9	2.36	80.2	92.1	62.7	72.3	72.9	69.8	72.8	72.7	73.1	71.8	69.1	68
Measures excluding selected														
high-technology industries Total industry		96.55	80.4	84.9	66.6	78.9	79.1	78.8	79.1	79.1	79.0	79.5	78.3	78
Manufacturing ¹		73.50	78.9	84.5	63.5	77.8	77.7	77.3	78.0	77.5	77.7	77.8	77.1	77
Contract on progress and the														
STAGE-OF-PROCESS GROUPS		16.05	86.3	89.7	76 1	87.8	87.3	060	87.5	87.1	87.2	87.6	86.2	0,
Crude Primary and semifinished		16.85	86.3	89.7 87.9	76.4 64.2			86.8	76.0	76.4	76.0	76.6	75.3	86
Finished Finished		45.82 37.33	77.2	87.9	64.2	75.5 78.4	76.1 78.4	75.8 77.8	78.6	76.4 78.1	78.3	78.5	75.3 77.4	75
1 IIIISHCU		1 31.33	11.4	00.0	00.0	/ 0.4	70.4	11.0	70.0	/0.1	10.3	10.3	//.4	/ /

r Revised. p Preliminary.

1. Refer to note on cover page.

Table 8 INDUSTRIAL CAPACITY

Percent change

													Monthly
	1	Average aı	nnual rate		Fourth	quarter to	o fourth o	uarter		Annual	rate		rate
Item	1972-	1980-	1989-	1995-					2011	2012			2012
	79	88	94	2012	2009	2010	2011	2012	Q4	Q1	Q2	Q3	Sept.
Total industry	3.1	1.9	2.3	2.3	7	-1.9	.8	1.5	1.1	1.4	1.5	1.6	.1
Manufacturing ¹	3.3	2.2	2.5	2.4	-2.8	-2.4	.1	1.4	.9	1.3	1.5	1.5	.1
Mining Utilities	.7 4.2	.1 2.1	7 1.8	.3 2.3	5.0 1.2	2 4.5	2.7 3.2	2.2 2.4	1.9 2.2	2.0 2.1	2.0 2.3	2.2 2.5	.2 .2
Selected high-technology industries	19.6	17.3	15.6	18.8	3.0	.3	10.4	3.1	13.7	8.3	3.7	.7	.0
Manufacturing ¹ ex. selected high-technology industries	2.6	1.3	1.6	1.0	-3.1	-2.6	4	1.3	.3	1.0	1.3	1.5	.1
STAGE-OF-PROCESS GROUPS Crude	1.6	.4	5	.4	3.1	4	2.0	1.6	1.4	1.4	1.5	1.7	.2
Primary and semifinished	3.0	1.4	2.5	2.7	-1.0	-1.2	.3	.1	.5	.3	.1	.0	.0
Finished	3.9	3.3	2.7	2.3	-3.5	-2.3	.9	3.5	1.9	3.0	3.5	3.7	.3

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

Table 9
GROSS VALUE OF FINAL PRODUCTS AND NONINDUSTRIAL SUPPLIES
Billions of 2005 dollars at annual rate, seasonally adjusted

illions of 2005 dollars at annual rate, seaso	mary adjusted		2012			2012					
•	2005	2011	2012	0.25	o an	2012	3.6 5				G
Item	2005	2011	Q1	Q2 ^r	Q3 ^p	Apr. ^r	May ^r	June ^r	July ^r	Aug. ^r	Sept.F
Final products and nonindustrial											
supplies	3,332.3	3,218.3	3,312.0	3,340.4	3,341.9	3,325.7	3,341.7	3,354.0	3,365.2	3,325.6	3,335.0
Final products	2,474.8	2,468.3	2,545.2	2,568.7	2,573.3	2,553.3	2,570.4	2,582.5	2,594.3	2,559.9	2,565.7
Consumer goods	1,834.1	1,777.6	1,806.4	1,813.7	1,811.4	1,801.6	1,819.2	1,820.3	1,828.3	1,803.5	1,802.
Durable	495.3	433.1	476.6	480.2	470.0	482.8	478.5	479.5	485.1	466.3	458.:
Automotive products	288.4	277.5	317.2	319.4	307.9	322.2	317.2	318.7	322.1	304.6	296.
Other durable goods	206.9	156.1	160.1	161.6	162.6	161.3	162.0	161.5	163.6	162.3	162.
Nondurable	1,338.8	1,339.8	1,331.6	1,335.6	1,341.8	1,322.0	1,342.3	1,342.5	1,345.6	1,337.2	1,342.
Equipment, total	640.8	692.6	745.3	763.3	771.1	760.1	758.7	771.0	774.9	765.4	773.
Business and defense	617.4	670.7	721.4	740.1	748.6	737.0	735.6	747.7	752.1	742.8	751.
Business	537.5	566.6	613.8	634.7	641.0	629.4	630.9	643.7	645.1	635.8	642.
Defense and space	79.9	102.9	106.8	105.1	107.2	107.0	104.4	104.0	106.6	106.5	108.
Nonindustrial supplies	857.4	753.1	770.3	775.2	772.3	775.7	774.9	775.2	774.8	769.3	772.
Construction supplies	270.0	212.6	226.5	224.8	221.9	228.6	224.0	221.8	220.8	221.0	223.
Business supplies	587.4	540.6	543.9	550.6	550.6	547.3	551.0	553.5	554.1	548.4	549.
Commercial energy products	210.9	212.3	207.7	213.8	215.1	210.1	214.9	216.3	217.3	214.4	213

r Revised. p Preliminary.

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

		Fou	rth quarte	er to										
		fo	urth quar	ter	l A	Annual r	ate			Montl	nly rate			Sept. '11
Item	2011				2012			2012						to
	gross value1	2009	2010	2011	Q1	$Q2^{r}$	$Q3^p$	Apr.r	May ^r	June ^r	July ^r	Aug.r	Sept.p	Sept. '12
Finished	1921.4	-4.9	4.8	6.9	11.6	4.5	.0	1.1	4	.5	.6	-1.4	.2	5.2
Semifinished	1627.7	-8.4	9.0	3.2	10.4	5.2	-2.9	.7	.4	2	.6	-2.4	.6	3.3
Primary	1331.9	-3.5	4.4	2.4	-2.7	5	1.0	.1	1.0	1	.0	.0	.0	8
Crude	653.9	1.2	6.6	2.6	.5	-3.6	-1.4	.6	7	.2	.2	-1.0	.5	.6

r Revised. p Preliminary.

^{1.} Billions of 2005 dollars.

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

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent																	
change) ¹																	
1990	6	.9	.5	1	.2	.3	1	.2	.2	8	-1.2	7	2.8	3.0	1.7	-6.2	1.0
1991	4	6	5	.2	1.0	1.0	.0	.1	.9	2	1	3	-7.4	2.5	5.5	.8	-1.5
1992	6	.8	.8	.7	.4	.0	.9	5	.2	.8	.4	.0	5	7.3	2.9	4.1	2.8
1993 1994	.5	.4	1.0	.3 .5	4 .6	.2	.3	.0	.5	.7 .8	.4 .6	.5 1.1	3.5 5.1	1.1 7.5	2.0 5.1	6.1 8.1	3.3 5.3
. 774	.4	.0		.5			.2	.0	.2	.0		1.1	3.1	1.3	3.1	0.1	3.3
1995 1996	.3	.0 1.6	.2 1	1 .9	.2	.3 .9	4 1	1.3	.4 .5	2 .0	.2	.3 .6	5.0	1.2 8.7	3.8 5.5	3.2 5.3	4.7
1997	.1	1.2	.8	.0	.7	.5	.6	1.3	.9	.7	.9	.4	7.7	6.5	9.8	10.1	7.2
1998	.5	.1	.1	.4	.7	6	4	2.1	3	.8	1	.3	4.4	2.9	2.9	5.4	5.8
1999	.4	.4	.2	.2	.7	2	.7	.4	3	1.3	.5	.8	4.1	3.9	4.0	7.5	4.3
2000	.1	.4	.4	.6	.1	.1	2	3	.5	4	.0	3	4.7	4.6	6	-1.3	4.0
2001	7	6	3	3	7	6	5	3	3	5	5	.0	-5.6	-5.3	-5.5	-4.6	-3.4
2002	.6	.0	.8	.4	.6	.9	3	.2	.1	4	.5	5	2.7	6.5	2.4	4	.2
2003 2004	.8	.4 .6	2 6	8 .4	.0 .7	.0 9	.3 .7	1 .3	.6 .0	1 1.0	.8 .2	.0 .7	3.2 2.8	-3.2 1.7	1.9 2.2	3.3 5.8	1.2 2.3
.005	.5	.6	1	.0	.2	.4	1	.1	-2.0	1.3	.9	.6	5.9	1.8	-1.6	3.2	3.3
2005	.3	.0	.2	.5	2	.4	1	.1	-2.0	1	1	1.0	4.0	2.5	1.5	.6	2.2
007	4	1.2	.0	.8	1	.0	.1	.0	.5	6	.5	.1	4.1	4.6	1.0	.6	2.5
2008	3	2	4	8	5	3	5	-1.7	-4.1	.8	-1.2	-2.7	-1.2	-5.9	-12.5	-15.9	-3.5
2009	-2.2	6	-1.7	9	-1.1	4	1.0	1.0	.6	.2	.4	.5	-19.6	-11.4	5.0	5.6	-11.4
2010	1.0	.4	.6	.4	1.6	.2	.7	.2	.4	4	.3	1.1	7.9	8.6	6.6	2.2	5.4
011	.1	2	.8	5	.3	.1	.9	.3	.2	.6	.2	.9	4.4	1.2	5.6	5.1	4.1
012	.7	.5	6	.8	.1	.0	.7	-1.4	.4				5.9	2.6	4		
P (2007=100)																	
010	87.4	87.8	88.3	88.7	90.1	90.2	90.9	91.1	91.4	91.1	91.4	92.4	87.8	89.7	91.1	91.6	90.1
011 012	92.5 96.6	92.3 97.1	93.1 96.5	92.6 97.3	92.9 97.3	93.1 97.4	93.9 98.0	94.2 96.6	94.4 97.0	94.9	95.1	95.9	92.6 96.7	92.9 97.3	94.2 97.2	95.3	93.7
Capacity percent of (2007 output) (2010 (2011 (2012)	123.4 121.5 122.7	123.1 121.6 122.9	122.8 121.6 123.0	122.6 121.7 123.2	122.3 121.8 123.3	122.1 121.9 123.5	121.9 122.0 123.7	121.8 122.1 123.8	121.6 122.2 124.0	121.6 122.3	121.5 122.5	121.5 122.6	123.1 121.6 122.9	122.3 121.8 123.3	121.8 122.1 123.8	121.5 122.5	122.2 122.0
2012	122.7	122.9	123.0	123.2	123.3	123.3	123.7	123.8	124.0				122.9	123.3	123.8		
Itilization																	
naraant)																	
	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
990	82.5 79.9	83.0 79.3	83.3 78.8	83.0 78.8	83.0 79.5	83.1 80.2	82.9 80.1	82.9 80.1	83.0 80.7	82.2 80.5	81.1 80.3	80.4 79.9	82.9 79.3	83.0 79.5	82.9 80.3	81.2 80.2	
1990 1991																	79.8
990 991 992 993	79.9 79.3 81.3	79.3 79.8 81.4	78.8 80.3 81.3	78.8 80.7 81.4	79.5 80.8 81.0	80.2 80.7 81.1	80.1 81.2 81.2	80.1 80.6 81.1	80.7 80.6 81.4	80.5 81.0 81.8	80.3 81.2 82.0	79.9 81.0 82.3	79.3 79.8 81.3	79.5 80.7 81.2	80.3 80.8 81.2	80.2 81.1 82.1	79.8 80.6 81.4
1990 1991 1992 1993	79.9 79.3	79.3 79.8	78.8 80.3	78.8 80.7	79.5 80.8	80.2 80.7	80.1 81.2	80.1 80.6	80.7 80.6	80.5 81.0	80.3 81.2	79.9 81.0	79.3 79.8	79.5 80.7	80.3 80.8	80.2 81.1	79.8 80.6 81.4
1990 1991 1992 1993 1994	79.9 79.3 81.3 82.5	79.3 79.8 81.4 82.3 84.6	78.8 80.3 81.3 83.0 84.5	78.8 80.7 81.4 83.2 84.1	79.5 80.8 81.0 83.4 84.0	80.2 80.7 81.1 83.7 84.0	80.1 81.2 81.2 83.6 83.4	80.1 80.6 81.1 83.8	80.7 80.6 81.4 83.8	80.5 81.0 81.8 84.2	80.3 81.2 82.0 84.4	79.9 81.0 82.3 85.0	79.3 79.8 81.3 82.6	79.5 80.7 81.2 83.5	80.3 80.8 81.2 83.7	80.2 81.1 82.1 84.6 83.5	79.8 80.6 81.4 83.6 84.0
1990 1991 1992 1993 1994 1995	79.9 79.3 81.3 82.5 85.0 82.5	79.3 79.8 81.4 82.3 84.6 83.5	78.8 80.3 81.3 83.0 84.5 83.0	78.8 80.7 81.4 83.2 84.1 83.4	79.5 80.8 81.0 83.4 84.0 83.6	80.2 80.7 81.1 83.7 84.0 84.0	80.1 81.2 81.2 83.6 83.4 83.5	80.1 80.6 81.1 83.8 84.1 83.6	80.7 80.6 81.4 83.8 84.1 83.7	80.5 81.0 81.8 84.2 83.6 83.3	80.3 81.2 82.0 84.4 83.5 83.6	79.9 81.0 82.3 85.0 83.4 83.7	79.3 79.8 81.3 82.6 84.7 83.0	79.5 80.7 81.2 83.5 84.0 83.6	80.3 80.8 81.2 83.7 83.9 83.6	80.2 81.1 82.1 84.6 83.5 83.5	79.8 80.6 81.4 83.6 84.0 83.4
990 991 992 993 994 995 996 997	79.9 79.3 81.3 82.5 85.0 82.5 83.4	79.3 79.8 81.4 82.3 84.6 83.5 83.9	78.8 80.3 81.3 83.0 84.5 83.0 84.2	78.8 80.7 81.4 83.2 84.1 83.4 83.8	79.5 80.8 81.0 83.4 84.0 83.6 83.9	80.2 80.7 81.1 83.7 84.0 84.0 83.8	80.1 81.2 81.2 83.6 83.4 83.5 83.9	80.1 80.6 81.1 83.8 84.1 83.6 84.5	80.7 80.6 81.4 83.8 84.1 83.7 84.7	80.5 81.0 81.8 84.2 83.6 83.3 84.7	80.3 81.2 82.0 84.4 83.5 83.6 84.9	79.9 81.0 82.3 85.0 83.4 83.7 84.7	79.3 79.8 81.3 82.6 84.7 83.0 83.8	79.5 80.7 81.2 83.5 84.0 83.6 83.8	80.3 80.8 81.2 83.7 83.9 83.6 84.3	80.2 81.1 82.1 84.6 83.5 83.5 84.8	79.8 80.6 81.4 83.6 84.0 83.4 84.2
990 991 992 993 994 995 996 997 998	79.9 79.3 81.3 82.5 85.0 82.5	79.3 79.8 81.4 82.3 84.6 83.5	78.8 80.3 81.3 83.0 84.5 83.0	78.8 80.7 81.4 83.2 84.1 83.4	79.5 80.8 81.0 83.4 84.0 83.6	80.2 80.7 81.1 83.7 84.0 84.0	80.1 81.2 81.2 83.6 83.4 83.5	80.1 80.6 81.1 83.8 84.1 83.6	80.7 80.6 81.4 83.8 84.1 83.7	80.5 81.0 81.8 84.2 83.6 83.3	80.3 81.2 82.0 84.4 83.5 83.6	79.9 81.0 82.3 85.0 83.4 83.7	79.3 79.8 81.3 82.6 84.7 83.0	79.5 80.7 81.2 83.5 84.0 83.6	80.3 80.8 81.2 83.7 83.9 83.6	80.2 81.1 82.1 84.6 83.5 83.5	79.8 80.6 81.4 83.6 84.0 83.4 84.2 82.8
990 991 992 993 994 995 996 997 998 999	79.9 79.3 81.3 82.5 85.0 82.5 83.4 84.5 81.8	79.3 79.8 81.4 82.3 84.6 83.5 83.9 84.0 81.8	78.8 80.3 81.3 83.0 84.5 83.0 84.2 83.5 81.6	78.8 80.7 81.4 83.2 84.1 83.4 83.8 83.3 81.5	79.5 80.8 81.0 83.4 84.0 83.6 83.9 83.3 81.8	80.2 80.7 81.1 83.7 84.0 84.0 83.8 82.4 81.4	80.1 81.2 81.2 83.6 83.4 83.5 83.9 81.5 81.6	80.1 80.6 81.1 83.8 84.1 83.6 84.5 82.8 81.7	80.7 80.6 81.4 83.8 84.1 83.7 84.7 82.1 81.1	80.5 81.0 81.8 84.2 83.6 83.3 84.7 82.4 81.9	80.3 81.2 82.0 84.4 83.5 83.6 84.9 81.9 82.0	79.9 81.0 82.3 85.0 83.4 83.7 84.7 81.8 82.3	79.3 79.8 81.3 82.6 84.7 83.0 83.8 84.0 81.8	79.5 80.7 81.2 83.5 84.0 83.6 83.8 83.0 81.6	80.3 80.8 81.2 83.7 83.9 83.6 84.3 82.2 81.5	80.2 81.1 82.1 84.6 83.5 83.5 84.8 82.0 82.0	79.8 80.6 81.4 83.6 84.0 83.4 84.2 82.8 81.7
990 991 992 993 994 995 996 997 998 999	79.9 79.3 81.3 82.5 85.0 82.5 83.4 84.5 81.8	79.3 79.8 81.4 82.3 84.6 83.5 83.9 84.0 81.8	78.8 80.3 81.3 83.0 84.5 83.0 84.2 83.5 81.6	78.8 80.7 81.4 83.2 84.1 83.4 83.8 83.3 81.5	79.5 80.8 81.0 83.4 84.0 83.6 83.9 83.3 81.8	80.2 80.7 81.1 83.7 84.0 84.0 83.8 82.4 81.4	80.1 81.2 81.2 83.6 83.4 83.5 83.9 81.5 81.6	80.1 80.6 81.1 83.8 84.1 83.6 84.5 82.8 81.7	80.7 80.6 81.4 83.8 84.1 83.7 84.7 82.1 81.1	80.5 81.0 81.8 84.2 83.6 83.3 84.7 82.4 81.9	80.3 81.2 82.0 84.4 83.5 83.6 84.9 81.9 82.0	79.9 81.0 82.3 85.0 83.4 83.7 84.7 81.8 82.3	79.3 79.8 81.3 82.6 84.7 83.0 83.8 84.0 81.8	79.5 80.7 81.2 83.5 84.0 83.6 83.8 83.0 81.6	80.3 80.8 81.2 83.7 83.9 83.6 84.3 82.2 81.5	80.2 81.1 82.1 84.6 83.5 83.5 84.8 82.0 82.0	79.8 80.6 81.4 83.6 84.0 83.4 84.2 82.8 81.7
990 991 992 993 994 995 996 997 998 999	79.9 79.3 81.3 82.5 85.0 82.5 83.4 84.5 81.8	79.3 79.8 81.4 82.3 84.6 83.5 83.9 84.0 81.8	78.8 80.3 81.3 83.0 84.5 83.0 84.2 83.5 81.6	78.8 80.7 81.4 83.2 84.1 83.4 83.8 83.3 81.5	79.5 80.8 81.0 83.4 84.0 83.6 83.9 83.3 81.8	80.2 80.7 81.1 83.7 84.0 84.0 83.8 82.4 81.4	80.1 81.2 81.2 83.6 83.4 83.5 83.9 81.5 81.6	80.1 80.6 81.1 83.8 84.1 83.6 84.5 82.8 81.7	80.7 80.6 81.4 83.8 84.1 83.7 84.7 82.1 81.1	80.5 81.0 81.8 84.2 83.6 83.3 84.7 82.4 81.9	80.3 81.2 82.0 84.4 83.5 83.6 84.9 81.9 82.0 80.4 73.7	79.9 81.0 82.3 85.0 83.4 83.7 84.7 81.8 82.3	79.3 79.8 81.3 82.6 84.7 83.0 83.8 84.0 81.8	79.5 80.7 81.2 83.5 84.0 83.6 83.8 83.0 81.6	80.3 80.8 81.2 83.7 83.9 83.6 84.3 82.2 81.5	80.2 81.1 82.1 84.6 83.5 83.5 84.8 82.0 82.0	79.8 80.6 81.4 83.6 84.0 83.4 84.2 82.8 81.7
990 991 992 993 994 995 996 997 998 999	79.9 79.3 81.3 82.5 85.0 82.5 83.4 84.5 81.8	79.3 79.8 81.4 82.3 84.6 83.5 83.9 84.0 81.8	78.8 80.3 81.3 83.0 84.5 83.0 84.2 83.5 81.6	78.8 80.7 81.4 83.2 84.1 83.4 83.8 83.3 81.5	79.5 80.8 81.0 83.4 84.0 83.6 83.9 83.3 81.8	80.2 80.7 81.1 83.7 84.0 84.0 83.8 82.4 81.4	80.1 81.2 81.2 83.6 83.4 83.5 83.9 81.5 81.6 75.6	80.1 80.6 81.1 83.8 84.1 83.6 84.5 82.8 81.7	80.7 80.6 81.4 83.8 84.1 83.7 84.7 82.1 81.1	80.5 81.0 81.8 84.2 83.6 83.3 84.7 82.4 81.9	80.3 81.2 82.0 84.4 83.5 83.6 84.9 81.9 82.0	79.9 81.0 82.3 85.0 83.4 83.7 84.7 81.8 82.3 79.9 73.6	79.3 79.8 81.3 82.6 84.7 83.0 83.8 84.0 81.8	79.5 80.7 81.2 83.5 84.0 83.6 83.8 83.0 81.6	80.3 80.8 81.2 83.7 83.9 83.6 84.3 82.2 81.5	80.2 81.1 82.1 84.6 83.5 83.5 84.8 82.0 82.0	79.8 80.6 81.4 83.6 84.0 83.4 84.2 82.8 81.7 81.5 76.1
990 991 992 993 994 995 996 997 998 999 2000 2001 2002	79.9 79.3 81.3 82.5 85.0 82.5 83.4 84.5 81.8 82.1 79.1 73.9	79.3 79.8 81.4 82.3 84.6 83.5 83.9 84.0 81.8 82.1 78.4 73.8	78.8 80.3 81.3 83.0 84.5 83.0 84.2 83.5 81.6	78.8 80.7 81.4 83.2 84.1 83.4 83.8 83.3 81.5 82.4 77.5 74.5	79.5 80.8 81.0 83.4 84.0 83.6 83.9 83.3 81.8 82.2 76.8 74.8	80.2 80.7 81.1 83.7 84.0 84.0 83.8 82.4 81.4 82.0 76.1 75.5	80.1 81.2 81.2 83.6 83.4 83.5 83.9 81.5 81.6 75.6 75.2	80.1 80.6 81.1 83.8 84.1 83.6 84.5 82.8 81.7 81.1 75.2 75.3	80.7 80.6 81.4 83.8 84.1 83.7 84.7 82.1 81.1 81.2 74.8 75.4	80.5 81.0 81.8 84.2 83.6 83.3 84.7 82.4 81.9 80.6 74.2 75.1	80.3 81.2 82.0 84.4 83.5 83.6 84.9 81.9 82.0 80.4 73.7 75.5	79.9 81.0 82.3 85.0 83.4 83.7 84.7 81.8 82.3 79.9 73.6 75.2	79.3 79.8 81.3 82.6 84.7 83.0 83.8 84.0 81.8	79.5 80.7 81.2 83.5 84.0 83.6 83.8 83.0 81.6	80.3 80.8 81.2 83.7 83.9 83.6 84.3 82.2 81.5	80.2 81.1 82.1 84.6 83.5 83.5 84.8 82.0 82.0 80.3 73.8 75.3	79.8 80.6 81.4 83.6 84.0 83.4 84.2 82.8 81.7 81.5 76.1 74.9
990 991 992 993 994 995 996 997 998 999 2000 2001 2002 2003 2004	79.9 79.3 81.3 82.5 85.0 82.5 83.4 84.5 81.8 82.1 79.1 75.8 77.0	79.3 79.8 81.4 82.3 84.6 83.5 83.9 84.0 81.8 82.1 78.4 73.8 76.1 77.4	78.8 80.3 81.3 83.0 84.5 83.0 84.2 83.5 81.6 82.2 77.9 74.2 76.0 77.0	78.8 80.7 81.4 83.2 84.1 83.4 83.8 81.5 82.4 77.5 74.5 75.4 77.3	79.5 80.8 81.0 83.4 84.0 83.6 83.9 83.3 81.8 82.2 76.8 74.8 75.5 77.9	80.2 80.7 81.1 83.7 84.0 84.0 83.8 82.4 81.4 82.0 76.1 75.5 77.2	80.1 81.2 81.2 83.6 83.4 83.5 83.9 81.5 81.6 75.6 75.8 77.8	80.1 80.6 81.1 83.8 84.1 83.6 84.5 82.8 81.7 81.1 75.2 75.3 75.7 78.0	80.7 80.6 81.4 83.8 84.1 83.7 84.7 82.1 81.1 81.2 74.8 75.4 76.2 78.0	80.5 81.0 81.8 84.2 83.6 83.3 84.7 82.4 81.9 80.6 74.2 75.1 76.2 78.7	80.3 81.2 82.0 84.4 83.5 83.6 84.9 82.0 80.4 73.7 75.5 76.8 78.9	79.9 81.0 82.3 85.0 83.4 83.7 84.7 81.8 82.3 79.9 73.6 75.2 76.8 79.4	79.3 79.8 81.3 82.6 84.7 83.0 83.8 84.0 81.8 82.1 78.5 74.0 76.0 77.1	79.5 80.7 81.2 83.5 84.0 83.6 83.8 83.0 81.6 82.2 76.8 74.9 75.5 77.5	80.3 80.8 81.2 83.7 83.9 83.6 84.3 82.2 81.5 81.3 75.2 75.9 77.9	80.2 81.1 82.1 84.6 83.5 83.5 84.8 82.0 82.0 80.3 73.8 75.3 76.6 79.0	79.8 80.6 81.4 83.6 84.0 83.4 84.2 82.8 81.7 81.5 76.1 77.9
990 991 992 993 994 995 996 997 998 999 000 001 002 003 004 005 006	79.9 79.3 81.3 82.5 85.0 82.5 83.4 84.5 81.8 82.1 79.1 73.9 75.8 77.0	79.3 79.8 81.4 82.3 84.6 83.5 83.9 84.0 81.8 82.1 78.4 73.8 76.1 77.4	78.8 80.3 81.3 83.0 84.5 83.0 84.2 83.5 81.6 82.2 77.9 74.2 76.0 77.0	78.8 80.7 81.4 83.2 84.1 83.4 83.8 83.3 81.5 77.5 74.5 75.4 77.3 80.0 80.6	79.5 80.8 81.0 83.4 84.0 83.6 83.9 83.3 81.8 82.2 76.8 74.8 75.5 77.9	80.2 80.7 81.1 83.7 84.0 84.0 83.8 82.4 81.4 82.0 76.1 75.5 77.2 80.3 80.5	80.1 81.2 81.2 83.6 83.4 83.5 83.9 81.5 81.6 75.6 75.2 75.8 77.8	80.1 80.6 81.1 83.8 84.1 83.6 84.5 82.8 81.7 81.1 75.2 75.3 75.7 78.0	80.7 80.6 81.4 83.8 84.1 83.7 84.7 82.1 81.1 81.2 74.8 75.4 76.2 78.0	80.5 81.0 81.8 84.2 83.6 83.3 84.7 82.4 81.9 80.6 74.2 75.1 76.2 78.7	80.3 81.2 82.0 84.4 83.5 83.6 84.9 81.9 82.0 80.4 73.7 75.5 76.8 78.9	79.9 81.0 82.3 85.0 83.4 83.7 84.7 81.8 82.3 79.9 73.6 75.2 76.8 79.4 80.3 80.3	79.3 79.8 81.3 82.6 84.7 83.0 83.8 84.0 81.8 82.1 78.5 74.0 77.1 80.0 80.3	79.5 80.7 81.2 83.5 84.0 83.6 83.8 83.0 81.6 82.2 76.8 74.9 75.5 77.5	80.3 80.8 81.2 83.7 83.9 83.6 84.3 82.2 81.5 81.3 75.2 75.3 77.9 79.5 80.4	80.2 81.1 82.1 84.6 83.5 83.5 84.8 82.0 82.0 80.3 73.8 75.3 76.6 79.0	79.8 80.6 81.4 83.6 84.0 83.4 84.2 82.8 81.7 76.1 77.9 79.9 80.3
990 991 992 993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	79.9 79.3 81.3 82.5 85.0 82.5 83.4 84.5 81.8 82.1 79.1 73.9 75.8 77.0 79.7 80.3 79.8	79.3 79.8 81.4 82.3 84.6 83.5 83.9 84.0 81.8 82.1 78.4 73.8 76.1 77.4 80.2 80.3 80.5	78.8 80.3 81.3 83.0 84.5 83.0 84.2 83.5 81.6 82.2 77.9 74.2 76.0 77.0 80.1 80.4 80.3	78.8 80.7 81.4 83.2 84.1 83.8 83.3 81.5 74.5 74.5 75.4 77.3 80.0 80.6 80.8	79.5 80.8 81.0 83.4 84.0 83.6 83.9 83.3 81.8 82.2 76.8 74.8 75.5 77.9 80.1 80.4 80.6	80.2 80.7 81.1 83.7 84.0 84.0 83.8 82.4 81.4 82.0 76.1 75.5 77.2 80.3 80.5 80.4	80.1 81.2 81.2 83.6 83.4 83.5 83.9 81.5 81.6 75.6 75.2 75.8 77.8	80.1 80.6 81.1 83.8 84.1 83.6 84.5 82.8 81.7 81.1 75.2 75.3 75.7 78.0 80.1 80.5 80.3	80.7 80.6 81.4 83.8 84.1 83.7 84.7 82.1 81.1 81.2 74.8 75.4 76.2 78.0 78.4 80.2 80.6	80.5 81.0 81.8 84.2 83.6 83.3 84.7 82.4 81.9 80.6 74.2 75.1 76.2 78.7	80.3 81.2 82.0 84.4 83.5 83.6 84.9 81.9 82.0 80.4 73.7 75.5 76.8 78.9	79.9 81.0 82.3 85.0 83.4 83.7 84.7 81.8 82.3 79.9 73.6 75.2 76.8 79.4 80.3 80.3 80.6	79.3 79.8 81.3 82.6 84.7 83.0 83.8 84.0 81.8 82.1 78.5 74.0 76.0 77.1 80.0 80.3 80.2	79.5 80.7 81.2 83.5 84.0 83.6 83.8 83.0 81.6 82.2 76.8 74.9 75.5 77.5	80.3 80.8 81.2 83.7 83.9 83.6 84.3 82.2 81.5 81.3 75.2 75.3 75.9 77.9	80.2 81.1 82.1 84.6 83.5 83.5 84.8 82.0 82.0 80.3 73.8 75.3 76.6 79.0 79.9 80.0 80.4	79.8 80.6 81.4 83.6 84.0 83.4 84.2 82.8 81.7 81.5 76.1 74.9 76.0 77.9 80.3 80.4
990 991 992 993 994 995 996 997 998 999 2000 2001 2002 2003 2004 2005 2006 2007 2008	79.9 79.3 81.3 82.5 85.0 82.5 83.4 84.5 81.8 82.1 79.1 73.9 75.8 77.0	79.3 79.8 81.4 82.3 84.6 83.5 83.9 84.0 81.8 82.1 78.4 73.8 76.1 77.4	78.8 80.3 81.3 83.0 84.5 83.0 84.2 83.5 81.6 82.2 77.9 74.2 76.0 77.0	78.8 80.7 81.4 83.2 84.1 83.4 83.8 83.3 81.5 77.5 74.5 75.4 77.3 80.0 80.6	79.5 80.8 81.0 83.4 84.0 83.6 83.9 83.3 81.8 82.2 76.8 74.8 75.5 77.9	80.2 80.7 81.1 83.7 84.0 84.0 83.8 82.4 81.4 82.0 76.1 75.5 77.2 80.3 80.5	80.1 81.2 81.2 83.6 83.4 83.5 83.9 81.5 81.6 75.6 75.2 75.8 77.8	80.1 80.6 81.1 83.8 84.1 83.6 84.5 82.8 81.7 81.1 75.2 75.3 75.7 78.0	80.7 80.6 81.4 83.8 84.1 83.7 84.7 82.1 81.1 81.2 74.8 75.4 76.2 78.0	80.5 81.0 81.8 84.2 83.6 83.3 84.7 82.4 81.9 80.6 74.2 75.1 76.2 78.7	80.3 81.2 82.0 84.4 83.5 83.6 84.9 81.9 82.0 80.4 73.7 75.5 76.8 78.9	79.9 81.0 82.3 85.0 83.4 83.7 84.7 81.8 82.3 79.9 73.6 75.2 76.8 79.4 80.3 80.3	79.3 79.8 81.3 82.6 84.7 83.0 83.8 84.0 81.8 82.1 78.5 74.0 77.1 80.0 80.3	79.5 80.7 81.2 83.5 84.0 83.6 83.8 83.0 81.6 82.2 76.8 74.9 75.5 77.5	80.3 80.8 81.2 83.7 83.9 83.6 84.3 82.2 81.5 81.3 75.2 75.3 77.9 79.5 80.4	80.2 81.1 82.1 84.6 83.5 83.5 84.8 82.0 82.0 80.3 73.8 75.3 76.6 79.0	79.8 80.6 81.4 83.6 84.0 83.4 84.2 82.8 81.7 76.1 77.9 80.3 80.4 77.3
(percent) 1990 1990 1991 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	79.9 79.3 81.3 82.5 85.0 82.5 83.4 84.5 81.8 82.1 79.1 73.9 75.8 77.0 79.7 80.3 79.8 80.4 69.9	79.3 79.8 81.4 82.3 84.6 83.5 83.9 84.0 81.8 82.1 78.4 76.1 77.4 80.2 80.3 80.3 69.5	78.8 80.3 81.3 83.0 84.5 83.0 84.2 83.5 81.6 82.2 77.9 74.2 76.0 77.0 80.1 80.4 80.3 80.1 68.3	78.8 80.7 81.4 83.2 84.1 83.4 83.8 81.5 82.4 77.5 75.4 77.3 80.0 80.6 80.8 79.5 67.7	79.5 80.8 81.0 83.4 84.0 83.6 83.9 83.3 81.8 82.2 76.8 75.5 77.9 80.1 80.4 80.6 79.1 67.1	80.2 80.7 81.1 83.7 84.0 83.8 82.4 81.4 82.0 76.1 75.5 77.2 80.3 80.5 80.4 78.9 66.8	80.1 81.2 83.6 83.4 83.5 83.9 81.5 81.6 75.6 75.2 75.8 80.1 80.5 80.4 76.6	80.1 80.6 81.1 83.8 84.1 83.6 84.5 82.8 81.7 75.2 75.3 75.7 78.0 80.1 80.5 80.3 77.2 68.3	80.7 80.6 81.4 83.8 84.1 83.7 84.7 82.1 81.1 81.2 74.8 75.4 76.2 78.0 78.4 80.2 80.6 74.0 68.9	80.5 81.0 81.8 84.2 83.6 83.3 84.7 82.4 81.9 80.6 74.2 75.1 76.2 78.7 79.3 79.9 80.1 74.6 69.1	80.3 81.2 82.0 84.4 83.5 83.6 84.9 82.0 80.4 73.7 75.5 76.8 78.9 79.9 79.7 80.5	79.9 81.0 82.3 85.0 83.4 83.7 84.7 81.8 82.3 79.9 73.6 75.2 76.8 79.4 80.3 80.3 80.3 80.6 71.6	79.3 79.8 81.3 82.6 84.7 83.0 83.8 84.0 81.8 82.1 78.5 74.0 76.0 77.1 80.0 80.3 80.3 80.2 80.3	79.5 80.7 81.2 83.5 84.0 83.6 83.8 83.0 81.6 82.2 76.8 74.9 75.5 77.5	80.3 80.8 81.2 83.7 83.9 83.6 84.3 82.2 81.5 81.3 75.2 75.9 77.9	80.2 81.1 82.1 84.6 83.5 83.5 84.8 82.0 82.0 80.3 73.8 75.3 76.6 79.0 79.9 80.0 80.0 80.0	80.6 81.4 83.6 84.0 83.4 84.2 82.8 81.7 81.5 76.1 77.9 80.3 80.4 77.3 68.6
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	79.9 79.3 81.3 82.5 85.0 82.5 83.4 84.5 81.8 82.1 79.1 73.9 75.8 77.0 79.7 80.3 79.8	79.3 79.8 81.4 82.3 84.6 83.5 83.9 84.0 81.8 82.1 78.4 73.8 76.1 77.4 80.2 80.3 80.5 80.3	78.8 80.3 81.3 83.0 84.5 83.0 84.2 83.5 81.6 82.2 77.9 74.2 76.0 77.0 80.1 80.4 80.3 80.1	78.8 80.7 81.4 83.2 84.1 83.8 83.3 81.5 74.5 74.5 75.4 77.3 80.0 80.6 80.8 79.5	79.5 80.8 81.0 83.4 84.0 83.6 83.9 83.3 81.8 82.2 76.8 74.8 75.5 77.9 80.1 80.4 80.6 79.1	80.2 80.7 81.1 83.7 84.0 84.0 83.8 82.4 81.4 82.0 76.1 75.5 77.2 80.3 80.5 80.4 78.9	80.1 81.2 81.2 83.6 83.4 83.5 81.5 81.6 75.6 75.2 75.8 77.8 80.1 80.5 80.4 78.6	80.1 80.6 81.1 83.8 84.1 83.6 84.5 82.8 81.7 81.1 75.2 75.3 75.7 78.0 80.1 80.5 80.3 77.2	80.7 80.6 81.4 83.8 84.1 83.7 84.7 82.1 81.1 81.2 74.8 75.4 76.2 78.0 78.4 80.2 80.6 74.0	80.5 81.0 81.8 84.2 83.6 83.3 84.7 82.4 81.9 80.6 74.2 75.1 76.2 78.7	80.3 81.2 82.0 84.4 83.5 83.6 84.9 81.9 82.0 80.4 73.7 75.5 76.8 78.9 79.9 79.7 80.5 73.6	79.9 81.0 82.3 85.0 83.4 83.7 84.7 81.8 82.3 79.9 73.6 75.2 76.8 79.4 80.3 80.3 80.6 71.6	79.3 79.8 81.3 82.6 84.7 83.0 83.8 84.0 81.8 82.1 78.5 74.0 76.0 77.1 80.0 80.3 80.2 80.3	79.5 80.7 81.2 83.5 84.0 83.6 83.8 83.0 81.6 82.2 76.8 74.9 75.5 77.5 80.1 80.5 80.6 79.2	80.3 80.8 81.2 83.7 83.9 83.6 84.3 82.2 81.5 81.3 75.2 75.3 75.9 77.9	80.2 81.1 82.1 84.6 83.5 83.5 84.8 82.0 82.0 80.3 73.8 75.3 76.6 79.0 79.9 80.0 80.4 73.2	79.8 80.6 81.4 83.6 84.0 83.4 84.2 82.8 81.7 81.5 76.1 74.9 76.0 77.9 80.3 80.4 77.3

^{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 ¹ Seasonally adjusted

Year	Jan.																
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent change) ²																	
1990	1	1.4	.5	3	.2	.3	1	.3	.0	8	-1.1	8	4.3	2.9	1.1	-6.8	.8
1991	8	6	7	.3	.8	1.1	.2	.2	1.1	2	2	1	-8.8	1.9	7.2	1.5	-2.0
1992	6	.9	1.0	.6	.6	.3	.9	4	.0	.6	.4	2	.5	8.3	4.0	2.9	3.6
1993 1994	1.0	.2	2	.5	1 .7	1 .3	.3 .4	1 .8	.6	.8	.4	.5	4.4	1.5	1.2 6.0	6.9	3.5
		.1	1.3		./		.4			1.0		1.1	5.0	9.5		9.9	5.9
1995 1996	.3 8	1 1.6	.3 2	2 1.1	.1 .7	.5 1.1	6 .3	1.2	.9 .6	1 1	.0	.3	5.3 1.8	.6 9.9	3.2 8.0	4.0 5.5	5.2
1997	.0	1.4	1.2	2	.9	.7	.5	1.6	.9	.6	1.1	.5	9.1	7.6	10.9	10.9	8.4
1998	.8	.1	1	.5	.6	7	5	2.5	4	1.0	.2	.5	6.0	2.4	3.3	7.5	6.6
1999	.3	.7	.0	.4	.9	3	.5	.7	3	1.5	.6	.7	4.7	4.5	3.7	9.0	5.0
2000	.2	.3	.7	.6	2	.2	.0	6	.5	4	3	6	5.3	4.3	8	-2.9	4.2
2001	6	6	3	2	8	7	4	6	2	7	3	.3	-6.5	-5.5	-6.0	-4.3	-4.1
2002	.5	.0	.7	.1	.7	1.1	5	.4	.1	4	.5	5	3.2	5.9	3.1	5	.3
2003	.6	.2	.2	-1.0	.1	.4	.0	3	.7	1	1.0	2	2.5	-2.3	1.4	3.7	1.2
2004	.0	.7	3	.4	.7	8	.8	.7	1	1.1	1	.7	2.6	2.9	3.8	5.6	2.7
2005 2006	.8 .9	.8 1	5 1	.2	.4 5	.1	1 1	.3 .4	-1.1 .1	1.5 4	.7 .0	.1 1.6	6.5 4.1	2.0	3 .7	5.6 1.1	4.0 2.5
2007	5	1 .6	1 .6	.8	2	.3	.2	5	.5	4 5	.4	.3	4.7	5.3	.8	.4	2.7
2008	4	4	4	-1.1	6	6	-1.1	-1.4	-3.4	7	-2.3	-3.3	-2.2	-8.2	-14.0	-21.6	-4.8
2009	-2.9	.0	-2.1	8	-1.2	3	1.2	1.0	.7	1	.9	.1	-23.3	-11.6	6.4	5.8	-13.8
2010	.9	.1	1.1	1.0	1.4	.0	.8	.0	.2	.1	.2	1.0	7.1	11.2	5.2	2.6	5.7
2011	.4	.2	.6	6	.2	.0	.8	.3	.4	.5	.0	1.5	6.0	.2	5.1	5.6	4.3
2012	1.0	.9	7	.7	6	.4	.3	9	.2				9.8	1.0	9		
IP (2007=100)																	
2010	83.9	84.0	84.9	85.8	87.0	87.0	87.6	87.6	87.8	87.9	88.0	88.9	84.3	86.6	87.7	88.2	86.7
2011	89.2 93.8	89.4 94.6	90.0 94.0	89.5 94.6	89.7 94.1	89.7 94.4	90.4 94.7	90.7 93.8	91.1 94.0	91.5	91.5	92.9	89.6 94.1	89.6 94.4	90.7 94.2	92.0	90.5
2012	75.0	74.0	74.0	74.0	77.1	74.4	77.1	75.0					/	77.7	, <u>_</u>		
Capacity (percent of 2007 output)	123.1	122.8	122.5	122.3	122.0	121.7	121.5	121.3	121.1	120.9	120.8	120.6	122.8	122.0	121.3	120.8	121.7
Capacity (percent of 2007 output) 2010										120.9 120.8	120.8 120.9	120.6 121.0				120.8 120.9	121.7 120.6
Capacity (percent of 2007 output) 2010 2011 2012 Utilization	123.1 120.6	122.8 120.5	122.5 120.5	122.3 120.5	122.0 120.5	121.7 120.5	121.5 120.6	121.3 120.6	121.1 120.7				122.8 120.5	122.0 120.5	121.3 120.6		
Capacity (percent of 2007 output) 2010 2011 2012 Utilization (percent)	123.1 120.6 121.1	122.8 120.5 121.3	122.5 120.5 121.4	122.3 120.5 121.6	122.0 120.5 121.7	121.7 120.5 121.9	121.5 120.6 122.0	121.3 120.6 122.2	121.1 120.7 122.3	120.8 81.1	120.9 80.0	121.0 79.3	122.8 120.5 121.3	122.0 120.5 121.7	121.3 120.6 122.2	120.9	120.6 81.7
Capacity (percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990	123.1 120.6 121.1 81.6 78.5	122.8 120.5 121.3 82.5 77.9	122.5 120.5 121.4 82.7 77.3	122.3 120.5 121.6 82.3 77.4	122.0 120.5 121.7 82.3 77.8	121.7 120.5 121.9 82.3 78.6	121.5 120.6 122.0 82.1 78.7	121.3 120.6 122.2 82.1 78.8	121.1 120.7 122.3 81.9 79.5	81.1 79.3	80.0 79.0	79.3 78.8	122.8 120.5 121.3 82.3 77.9	122.0 120.5 121.7 82.3 77.9	121.3 120.6 122.2 82.0 79.0	80.1 79.0	81.7 78.5
Capacity (percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1991	123.1 120.6 121.1 81.6 78.5 78.2	122.8 120.5 121.3 82.5 77.9 78.7	122.5 120.5 121.4 82.7 77.3 79.3	122.3 120.5 121.6 82.3 77.4 79.6	122.0 120.5 121.7 82.3 77.8 79.9	121.7 120.5 121.9 82.3 78.6 79.9	121.5 120.6 122.0 82.1 78.7 80.4	121.3 120.6 122.2 82.1 78.8 79.9	121.1 120.7 122.3 81.9 79.5 79.7	81.1 79.3 80.0	80.0 79.0 80.1	79.3 78.8 79.8	122.8 120.5 121.3 82.3 77.9 78.8	122.0 120.5 121.7 82.3 77.9 79.8	121.3 120.6 122.2 82.0 79.0 80.0	80.1 79.0 79.9	81.7 78.5 79.6
Capacity percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1991 1992	123.1 120.6 121.1 81.6 78.5 78.2 80.4	122.8 120.5 121.3 82.5 77.9 78.7 80.4	122.5 120.5 121.4 82.7 77.3 79.3 80.1	122.3 120.5 121.6 82.3 77.4 79.6 80.4	122.0 120.5 121.7 82.3 77.8 79.9 80.2	121.7 120.5 121.9 82.3 78.6 79.9 80.0	121.5 120.6 122.0 82.1 78.7 80.4 80.1	121.3 120.6 122.2 82.1 78.8 79.9 79.9	121.1 120.7 122.3 81.9 79.5 79.7 80.2	81.1 79.3 80.0 80.8	80.0 79.0 80.1 81.0	79.3 78.8 79.8 81.2	122.8 120.5 121.3 82.3 77.9 78.8 80.3	122.0 120.5 121.7 82.3 77.9 79.8 80.2	121.3 120.6 122.2 82.0 79.0 80.0 80.1	80.1 79.0 79.9 81.0	81.7 78.5 79.6 80.4
Capacity (percent of 2007 output) 2010 2011 2011 2012 Utilization (percent) 1990 1991 1992 1993	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2	81.1 79.3 80.0 80.8 83.7	80.0 79.0 80.1 81.0 84.0	79.3 78.8 79.8 81.2 84.6	122.8 120.5 121.3 82.3 77.9 78.8 80.3 81.5	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1	80.1 79.0 79.9 81.0 84.1	81.7 78.5 79.6 80.4 82.8
Capacity (percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1991 1992 1993 1994	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2 83.0	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2	81.1 79.3 80.0 80.8 83.7 82.8	80.0 79.0 80.1 81.0 84.0	79.3 78.8 79.8 81.2 84.6 82.3	122.8 120.5 121.3 82.3 77.9 78.8 80.3 81.5	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9	80.1 79.0 79.9 81.0 84.1 82.5	81.7 78.5 79.6 80.4 82.8 83.2
Capacity (percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1991 1992 1993 1994 1995	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2	81.1 79.3 80.0 80.8 83.7	80.0 79.0 80.1 81.0 84.0 82.5 82.3	79.3 78.8 79.8 81.2 84.6	122.8 120.5 121.3 82.3 77.9 78.8 80.3 81.5	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1	80.1 79.0 79.9 81.0 84.1	81.7 78.5 79.6 80.4 82.8 83.2 82.2
Capacity (percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1991 1992 1993 1994 1995 1996	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.2	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4 82.5	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2 83.0 82.6	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7	81.1 79.3 80.0 80.8 83.7 82.8 82.1	80.0 79.0 80.1 81.0 84.0	79.3 78.8 79.8 81.2 84.6 82.3 82.6	122.8 120.5 121.3 82.3 77.9 78.8 80.3 81.5 84.2 81.7	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.3	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6	80.1 79.0 79.9 81.0 84.1 82.5 82.3	81.7 78.5 79.6 80.4 82.8 83.2 82.2 83.1
Capacity percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1992 1993 1994 1995 1996 1997 1998	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3 82.1	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2 82.8	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6 83.3	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0 82.6	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.2 82.9	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7 82.9	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4 82.5 82.8	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2 83.0 82.6 83.5	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7 83.7	81.1 79.3 80.0 80.8 83.7 82.8 82.1 83.6	80.0 79.0 80.1 81.0 84.0 82.5 82.3 83.9	79.3 78.8 79.8 81.2 84.6 82.3 82.6 83.6	122.8 120.5 121.3 82.3 77.9 78.8 80.3 81.5 84.2 81.7 82.8	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.3 82.8	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6 83.3	80.1 79.0 79.9 81.0 84.1 82.5 82.3 83.7	81.7 78.5 79.6 80.4 82.8 83.2 82.2 83.1 81.6
Capacity (percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3 82.1 83.7 80.6	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2 82.8 83.1 80.8	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6 83.3 82.4 80.4	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0 82.6 82.2 80.3 81.0	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.2 82.9 82.1 80.7	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7 82.9 80.9 80.1	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4 82.5 82.8 80.0 80.1	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2 83.0 82.6 83.5 81.6 80.3	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7 83.7 80.8 79.7	81.1 79.3 80.0 80.8 83.7 82.8 82.1 83.6 81.1 80.6	80.0 79.0 80.1 81.0 84.0 82.5 82.3 83.9 80.8 80.7	79.3 78.8 79.8 81.2 84.6 82.3 82.6 83.6 80.8 80.9	122.8 120.5 121.3 82.3 77.9 78.8 80.3 81.5 84.2 81.7 82.8 83.0 80.6	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.8 81.7 80.4	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6 83.3 80.8 80.1	80.1 79.0 79.9 81.0 84.1 82.5 82.3 83.7 80.9 80.7	81.7 78.5 79.6 80.4 82.8 83.2 82.2 83.1 81.6 80.4
Capacity percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3 82.1 83.7 80.6	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2 82.8 83.1 80.8	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6 83.3 82.4 80.4	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0 82.6 82.2 80.3 81.0 75.1	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.2 82.9 82.1 80.7	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7 82.9 80.9 80.1	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4 82.5 82.8 80.0 80.1	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2 83.0 82.6 83.5 81.6 80.3	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7 83.7 80.8 79.7	81.1 79.3 80.0 80.8 83.7 82.8 82.1 83.6 81.1 80.6	80.0 79.0 80.1 81.0 84.0 82.5 82.3 83.9 80.8 80.7 78.2 71.5	79.3 78.8 79.8 81.2 84.6 82.3 82.6 83.6 80.8 80.9 77.4 71.6	122.8 120.5 121.3 82.3 77.9 78.8 80.3 81.5 84.2 81.7 82.8 83.0 80.6	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.8 81.7 80.4	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6 83.3 80.8 80.1 79.5 72.8	80.1 79.0 79.9 81.0 84.1 82.5 82.3 83.7 80.9 80.7	81.7 78.5 79.6 80.4 82.8 83.2 83.1 81.6 80.4 79.8 73.7
Capacity percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3 82.1 83.7 80.6	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2 82.8 83.1 80.8	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6 83.3 82.4 80.4 80.8 75.5 72.3	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0 82.6 82.2 80.3 81.0 75.1 72.3	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.2 82.9 82.1 80.7 80.5 74.3	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7 82.9 80.9 80.1 80.3 73.7	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4 82.5 82.8 80.0 80.1 80.0 73.2 73.3	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2 83.0 82.6 83.5 81.6 80.3 79.2 72.7	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7 83.7 80.8 79.7 79.3 72.4 73.6	81.1 79.3 80.0 80.8 83.7 82.8 82.1 83.6 81.1 80.6 78.7 71.8	80.0 79.0 80.1 81.0 84.0 82.5 82.3 83.9 80.8 80.7 78.2 71.5 73.6	79.3 78.8 79.8 81.2 84.6 82.3 82.6 83.6 80.8 80.9 77.4 71.6	122.8 120.5 121.3 82.3 77.9 78.8 80.3 81.5 84.2 81.7 82.8 83.0 80.6	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.8 81.7 80.4 80.6 74.4 72.9	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6 83.3 80.8 80.1 79.5 72.8	80.1 79.0 79.9 81.0 84.1 82.5 82.3 83.7 80.9 80.7 78.1 71.6	81.7 78.5 79.6 80.4 82.8 83.2 83.1 81.6 80.4 79.8 73.7
Capacity percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3 82.1 83.7 80.6	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2 82.8 83.1 80.8	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6 83.3 82.4 80.4	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0 82.6 82.2 80.3 81.0 75.1	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.2 82.9 82.1 80.7	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7 82.9 80.9 80.1	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4 82.5 82.8 80.0 80.1	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2 83.0 82.6 83.5 81.6 80.3	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7 83.7 80.8 79.7	81.1 79.3 80.0 80.8 83.7 82.8 82.1 83.6 81.1 80.6	80.0 79.0 80.1 81.0 84.0 82.5 82.3 83.9 80.8 80.7 78.2 71.5	79.3 78.8 79.8 81.2 84.6 82.3 82.6 83.6 80.8 80.9 77.4 71.6	122.8 120.5 121.3 82.3 77.9 78.8 80.3 81.5 84.2 81.7 82.8 83.0 80.6	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.8 81.7 80.4	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6 83.3 80.8 80.1 79.5 72.8	80.1 79.0 79.9 81.0 84.1 82.5 82.3 83.7 80.9 80.7	81.7 78.5 79.6 80.4 82.8 83.2 83.1 81.6 80.4 79.8 73.7 72.9
Capacity percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3 82.1 83.7 80.6	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2 82.8 83.1 80.8 80.6 76.0 71.8 73.9 75.4	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6 83.3 82.4 80.4 80.8 75.5 72.3 74.0 75.2	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0 82.6 82.2 80.3 81.0 75.1 72.3 73.3 75.6	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.2 82.9 82.1 80.7 80.5 74.3 72.8 73.4 76.1	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7 82.9 80.9 80.1 80.3 73.7 75.5	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4 82.5 82.8 80.0 80.1 80.0 73.2 73.3 73.8 76.1	121.3 120.6 122.2 82.1 78.8 79.9 83.2 83.0 82.6 83.5 81.6 80.3 79.2 72.7 73.5 73.6 76.6	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7 83.7 80.8 79.7 79.3 72.4 73.6 74.1 76.5	81.1 79.3 80.0 80.8 83.7 82.8 82.1 83.6 81.1 80.6 78.7 71.8 73.3 74.1 77.3	80.0 79.0 80.1 81.0 84.0 82.5 82.3 83.9 80.8 80.7 78.2 71.5 73.6 74.9 77.1	79.3 78.8 79.8 81.2 84.6 82.3 82.6 83.6 80.9 77.4 71.6 73.2 74.8 77.6	122.8 120.5 121.3 77.9 78.8 80.3 81.5 84.2 81.7 82.8 83.0 80.6 80.7 76.1 72.0 73.9 75.1	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.8 81.7 80.4 80.6 74.4 72.9 73.5 75.7	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6 83.3 80.8 80.1 79.5 72.8 73.8 76.4	80.1 79.0 79.9 81.0 84.1 82.5 82.3 83.7 80.9 80.7 78.1 71.6 73.4 74.6 77.3	81.7 78.5 79.6 80.4 82.8 83.2 82.2 83.1 81.6 80.4 79.8 73.7 72.9 76.2
Capacity percent of 2007 output) 2010 2011 2012 Utilization percent) 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3 82.1 83.7 80.6 80.8 76.7 71.9 73.7 74.8	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2 82.8 83.1 80.8 80.6 76.0 71.8 73.9 75.4	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6 83.3 82.4 80.4 80.8 75.5 72.3 74.0 75.2	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0 82.6 82.2 80.3 81.0 75.1 72.3 73.3 75.6	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.2 82.9 82.1 80.7 80.5 74.3 72.8 73.4 76.1	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7 82.9 80.9 80.1 80.3 73.7 75.5	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4 82.5 82.8 80.0 73.2 73.3 73.8 76.1	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2 83.0 82.6 83.5 81.6 80.3 79.2 72.7 73.5 73.6 76.6	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7 83.7 80.8 79.7 79.3 72.4 73.6 74.1 76.5	81.1 79.3 80.0 80.8 83.7 82.8 82.1 83.6 81.1 80.6 78.7 71.8 73.3 74.1 77.3	80.0 79.0 80.1 81.0 84.0 82.5 82.3 83.9 80.8 80.7 78.2 71.5 73.6 74.9 77.1	79.3 78.8 79.8 81.2 84.6 82.3 82.6 83.6 80.8 80.9 77.4 71.6 73.2 74.8 77.6	122.8 120.5 121.3 77.9 78.8 80.3 81.5 84.2 81.7 82.8 83.0 80.6 80.7 76.1 72.0 73.9 75.1	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.8 81.7 80.4 80.6 74.4 72.9 73.5 75.7	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6 83.3 80.8 80.1 79.5 72.8 73.5 73.8 76.4	80.1 79.0 79.9 81.0 84.1 82.5 82.3 83.7 80.9 80.7 78.1 71.6 73.4 74.6 77.3	81.7 78.5 79.6 80.4 82.8 83.2 83.1 81.6 80.4 79.8 73.7 72.9 76.2
Capacity percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3 82.1 83.7 80.6 80.8 76.7 71.9 73.7 74.8	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2 82.8 83.1 80.8 80.6 76.0 71.8 73.9 75.4	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6 83.3 82.4 80.4 80.8 75.5 72.3 74.0 75.2	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0 82.6 82.2 80.3 81.0 75.1 72.3 73.3 75.6	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.2 82.9 82.1 80.7 80.5 74.3 72.8 73.4 76.1	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7 82.9 80.9 80.1 80.3 73.7 75.5	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4 82.5 82.8 80.0 80.1 80.0 73.2 73.3 73.8 76.1	121.3 120.6 122.2 82.1 78.8 79.9 83.2 83.0 82.6 83.5 81.6 80.3 79.2 72.7 73.5 73.6 76.6	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7 83.7 80.8 79.7 79.3 72.4 73.6 74.1 76.5	81.1 79.3 80.0 80.8 83.7 82.8 82.1 83.6 81.1 80.6 78.7 71.8 73.3 74.1 77.3	80.0 79.0 80.1 81.0 84.0 82.5 82.3 83.9 80.8 80.7 78.2 71.5 73.6 74.9 77.1	79.3 78.8 79.8 81.2 84.6 82.3 82.6 83.6 80.9 77.4 71.6 73.2 74.8 77.6	122.8 120.5 121.3 77.9 78.8 80.3 81.5 84.2 81.7 82.8 83.0 80.6 80.7 76.1 72.0 73.9 75.1	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.8 81.7 80.4 80.6 74.4 72.9 73.5 75.7	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6 83.3 80.8 80.1 79.5 72.8 73.8 76.4	80.1 79.0 79.9 81.0 84.1 82.5 82.3 83.7 80.9 80.7 78.1 71.6 73.4 74.6 77.3	81.7 78.5 79.6 80.4 82.8 83.2 82.2 83.1 81.6 80.4 79.8 73.7 72.9 76.2
Capacity percent of 2007 output) 2010 2011 2012 201ilization percent) 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3 82.1 83.7 80.6 80.8 76.7 71.9 73.7 74.8	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2 82.8 83.1 80.8 80.6 76.0 71.8 73.9 75.4 78.6 78.6	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6 83.3 82.4 80.4 80.8 75.5 72.3 74.0 75.2	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0 82.6 82.2 80.3 75.1 72.3 75.6 78.2	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.2 82.9 82.1 80.7 80.5 74.3 72.8 73.4 76.1 78.3 78.5	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7 82.9 80.9 80.1 80.3 73.7 73.6 73.7 75.5	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4 82.5 82.8 80.0 80.1 80.0 73.2 73.3 73.8 76.1	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2 83.0 82.6 83.5 81.6 80.3 79.2 72.7 73.5 73.6 76.6	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7 83.7 80.8 79.7 79.3 72.4 73.6 74.1 76.5	81.1 79.3 80.0 80.8 83.7 82.8 82.1 83.6 81.1 80.6 78.7 71.8 73.3 74.1 77.3	80.0 79.0 80.1 81.0 84.0 82.5 82.3 83.9 80.8 80.7 78.2 71.5 73.6 74.9 77.1	79.3 78.8 79.8 81.2 84.6 82.3 82.6 83.6 80.8 80.9 77.4 71.6 73.2 74.8 77.6	122.8 120.5 121.3 82.3 77.9 78.8 80.3 81.5 84.2 81.7 82.8 83.0 80.6 80.7 76.1 72.0 73.9 75.1	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.8 81.7 80.4 80.6 74.4 72.9 73.5 75.7	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6 83.3 80.8 80.1 79.5 72.8 73.5 73.8 76.4	80.1 79.0 79.9 81.0 84.1 82.5 82.3 83.7 80.9 80.7 78.1 71.6 73.4 74.6 77.3	81.7 78.5 79.6 80.4 82.8 83.2 83.1 81.6 80.4 79.8 73.9 76.2 78.5 78.5
Capacity (percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3 82.1 83.7 80.6 80.8 76.7 71.9 73.7 74.8 78.1 79.1	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2 82.8 83.1 80.8 80.6 76.0 71.8 73.9 75.4 78.6 78.8 78.5	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6 83.3 82.4 80.4 80.8 75.5 72.3 74.0 75.2 78.1 78.6 78.8	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0 82.6 82.2 80.3 75.1 72.3 73.3 75.6 78.2 79.0	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.2 82.9 82.1 80.7 80.5 74.3 72.8 73.4 76.1 78.3 78.5 78.8	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7 82.9 80.9 80.1 80.3 73.7 75.5 78.6 78.8	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4 82.5 82.8 80.0 80.1 80.0 73.2 73.3 73.8 76.1 78.0 78.4 78.8	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2 83.0 82.6 83.5 81.6 80.3 79.2 72.7 73.5 73.6 76.6	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7 83.7 80.8 79.7 79.3 72.4 73.6 74.1 76.5 77.1 78.4 78.5	81.1 79.3 80.0 80.8 83.7 82.8 82.1 83.6 81.1 80.6 78.7 71.8 73.3 74.1 77.3	80.0 79.0 80.1 81.0 84.0 82.5 82.3 83.9 80.8 80.7 78.2 71.5 73.6 74.9 77.1	79.3 78.8 79.8 81.2 84.6 82.3 82.6 83.6 80.8 80.9 77.4 71.6 73.2 74.8 77.6	122.8 120.5 121.3 77.9 78.8 80.3 81.5 84.2 81.7 82.8 83.0 80.6 80.7 76.1 72.0 73.9 75.1 78.3 78.8 78.5	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.8 81.7 80.4 80.6 74.4 72.9 73.5 75.7 78.2 78.7	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6 83.3 80.8 80.1 79.5 72.8 73.5 73.8 76.4 77.7 78.5 78.5	80.1 79.0 79.9 81.0 84.1 82.5 82.3 83.7 80.9 80.7 78.1 71.6 73.4 74.6 77.3 78.4 78.2 78.2	81.7 78.5 79.6 80.4 82.8 83.2 83.1 81.6 80.4 79.8 73.7 72.9 73.9 76.2 78.5 78.5 74.3
Capacity (percent of 2007 output) 2010 2011 2012 Utilization (percent) 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3 82.1 83.7 80.6 71.9 73.7 74.8 78.1 79.1 78.3 78.0	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2 82.8 83.1 80.8 76.0 71.8 73.9 75.4 78.6 78.8 78.5 77.6	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6 83.3 82.4 80.4 80.8 75.5 72.3 74.0 75.2 78.1 78.6 78.8 77.4	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0 82.6 82.2 80.3 75.1 72.3 73.3 75.6 78.2 79.0 79.2	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.9 82.1 80.7 80.5 74.3 72.8 73.4 76.1 78.3 78.5 78.8	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7 82.9 80.9 80.1 80.3 73.7 75.5 78.6 73.7 75.5	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.4 82.5 82.8 80.0 80.1 73.2 73.3 73.8 76.1 78.0 78.4 78.8	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2 83.0 82.6 83.5 81.6 80.3 79.2 72.7 73.5 73.6 76.6	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7 83.7 80.8 79.7 79.3 72.4 73.6 74.1 76.5 77.1 78.4 78.5 71.7	81.1 79.3 80.0 80.8 83.7 82.8 82.1 83.6 81.1 80.6 71.7 71.8 73.3 74.1 77.3 78.1 78.0 78.0	80.0 79.0 80.1 81.0 84.0 82.5 82.3 83.9 80.8 80.7 78.2 71.5 73.6 74.9 77.1	79.3 78.8 79.8 81.2 84.6 82.3 82.6 83.6 80.8 80.9 77.4 71.6 73.2 74.8 77.6	122.8 120.5 121.3 77.9 78.8 80.3 81.5 84.2 81.7 82.8 83.0 80.6 80.7 76.1 72.0 73.9 75.1 78.3 78.8 78.5 77.7	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.8 81.7 80.4 80.6 74.4 72.9 73.5 75.7 78.2 78.9 76.2	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6 83.3 80.8 80.1 79.5 72.8 73.5 73.8 76.4 77.7 78.5 78.5	80.1 79.0 81.0 84.1 82.5 82.3 83.7 80.9 80.7 78.1 71.6 73.4 74.6 77.3 78.4 78.2 78.2 69.7	81.7 78.5 79.6 80.4 82.8 83.2 82.2 83.1 81.6 80.4 79.8 73.7 72.9 76.2 78.5 78.5 74.3 65.5
2012 Capacity (percent of 2007 output) 2010 2011 2011 2012 Utilization (percent) 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012	123.1 120.6 121.1 81.6 78.5 78.2 80.4 81.2 84.6 81.3 82.1 83.7 80.6 80.8 76.7 71.9 73.7 74.8 78.1 79.1 78.0 65.9	122.8 120.5 121.3 82.5 77.9 78.7 80.4 81.1 84.1 82.2 82.8 83.1 80.8 76.0 71.8 73.9 75.4 78.6 78.8 78.6 76.0	122.5 120.5 121.4 82.7 77.3 79.3 80.1 82.0 84.0 81.6 83.3 82.4 80.4 80.8 75.5 72.3 74.0 75.2 78.1 78.6 78.8 77.4 64.8	122.3 120.5 121.6 82.3 77.4 79.6 80.4 82.4 83.5 82.0 82.6 82.2 80.3 75.1 72.3 73.3 75.6 78.2 79.0 79.2 76.5 64.5	122.0 120.5 121.7 82.3 77.8 79.9 80.2 82.8 83.2 82.2 82.9 82.1 80.7 80.5 74.3 72.8 73.4 76.1 78.3 78.5 78.8 76.2 63.9	121.7 120.5 121.9 82.3 78.6 79.9 80.0 82.8 83.3 82.7 82.9 80.9 80.1 80.3 73.7 75.5 78.3 78.6 78.8 65.8	121.5 120.6 122.0 82.1 78.7 80.4 80.1 82.8 82.5 82.8 80.0 80.1 80.0 73.2 73.3 73.8 76.1 78.0 78.4 78.4 75.1 64.8	121.3 120.6 122.2 82.1 78.8 79.9 79.9 83.2 83.0 82.6 83.5 81.6 80.3 79.2 72.7 73.5 73.6 76.6	121.1 120.7 122.3 81.9 79.5 79.7 80.2 83.2 83.3 82.7 83.7 80.8 79.7 79.3 72.4 73.6 74.1 76.5 77.1 78.4 78.5 71.7	81.1 79.3 80.0 80.8 83.7 82.8 82.1 83.6 81.1 80.6 78.7 71.8 73.3 74.1 77.3 78.1 78.0 78.0 71.4 66.4	80.0 79.0 80.1 81.0 84.0 82.5 82.3 83.9 80.7 78.2 71.5 73.6 74.9 77.1 78.6 77.8 78.2 69.9 67.2	79.3 78.8 79.8 81.2 84.6 82.3 82.6 83.6 80.9 77.4 71.6 73.2 74.8 77.6 78.5 78.8 78.4 67.7 67.4	122.8 120.5 121.3 77.9 78.8 80.3 81.5 84.2 81.7 82.8 83.0 80.6 80.7 76.1 72.0 73.9 75.1 78.3 78.8 78.5	122.0 120.5 121.7 82.3 77.9 79.8 80.2 82.7 83.3 82.8 81.7 80.4 80.6 74.4 72.9 73.5 75.7 78.2 78.7 78.2 64.1	121.3 120.6 122.2 82.0 79.0 80.0 80.1 83.1 82.9 82.6 83.3 80.8 80.1 79.5 72.8 73.5 73.5 73.6 65.5	80.1 79.0 79.9 81.0 84.1 82.5 82.3 83.7 80.9 80.7 78.1 71.6 73.4 74.6 77.3 78.4 78.2 78.2 78.2 69.7	

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

Seasonally adjusted Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
IP (percent					-				_								
change) ²																	
1990	7	.9	.5	2	.1	.3	1	.2	.2	8	-1.3	8	2.2	2.5	1.3	-6.8	.3
1991	4	8	6	.2	1.0	1.0	.0	.1	.9	2	2	5	-8.0	2.0	5.3	.3	-2.0
1992	8	.7	.8	.6	.3	1	.8	6	.1	.6	.3	.0	-1.9	6.2	1.8	2.9	1.9
1993 1994	.5	.3	1 .9	.3	4 .4	.2	.3	1 .4	.4	.6	.3	.5 .9	3.1	.3 5.4	1.4 3.2	5.1 5.7	2.5
1774	.4	.0	.9	.3	.4	.0	.0	.4	.0	.0	.+	.9	4.5	3.4	3.2	5.1	4.0
1995	.1	2	1	3	.1	.2	5	1.1	.1	5	.1	.1	2.9	-1.2	1.5	.2	2.5
1996	-1.0	1.3	3	.8	.5	.7	5	.4	.3	3	.8	.5	3	6.5	2.1	3.0	1.7
1997	1	.9	.5	3	.3	.2	.3	1.0	.7	.6	.6	.1	5.1	2.4	6.3	7.7	4.2
1998	.2	.0	.0	.1	.6 .6	9 5	8 .3	2.0	7	.6 1.2	3 .2	.1	1.9	.7	3 1.1	2.3	3.1
1999	.2	.1	1	1	.0	5		.4	4	1.2	.2	.5	.,		1.1	5.5	1.1
2000	3	.0	.1	.4	2	1	5	4	.4	5	2	5	.6	1.5	-3.0	-2.7	1.0
2001	7	5	3	2	7	5	3	2	4	5	5	1	-5.9	-4.5	-4.3	-4.6	-4.0
2002	.7	1	.8	.4	.5	.9	4	.1	.0	4	.4	6	2.8	6.3	1.7	-1.0	.3
2003 2004	.7	.2 .6	3 6	9 .5	1 .8	1 9	.2 .7	1 .2	.6 1	2 1.0	.7 .2	1 .7	1.8 2.2	-4.6 1.9	.8 1.7	2.5 5.3	.2 1.7
2004	.2	.0	0	.5	.0	,	.,	.2	1	1.0	.2	.,	2.2	1.7	1.7	5.5	1.7
2005	.4	.6	1	.0	.1	.3	3	.0	-2.3	1.2	1.0	.6	5.2	1.0	-3.0	2.0	2.5
2006	.1	.0	.2	.4	3	.3	.1	.1	2	1	2	1.0	3.6	1.8	.9	.0	1.4
2007	5	1.1	2	.6	.0	.1	.1	.0	.4	8	.3	.0	3.3	3.7	1.0	-1.1	1.8
2008 2009	4 -2.2	3 6	5 -1.8	8 -1.0	6 -1.1	3 5	4 .9	-1.7 1.1	-4.2 .6	1.1	-1.0 .3	-2.6 .4	-2.2 -19.1	-6.6 -12.2	-12.5 4.7	-14.7 5.3	-4.2 -11.3
2007	-2.2	0	-1.0	-1.0	-1.1	5	.)	1.1	.0	.2	.5	.+	-17.1	-12.2	4.7	5.5	-11.5
2010	1.0	.3	.6	.4	1.6	.2	.7	.2	.4	4	.2	1.0	7.3	8.2	6.8	2.0	5.0
2011	.0	2	.9	5	.3	.1	1.0	.2	.3	.7	.2	.8	4.1	1.2	5.7	5.6	4.0
2012	.7	.5	6	.8	.1	.0	.7	-1.3	.4				6.1	2.5	.0		
IP (2007=100)																	
2010	86.8	87.0	87.5	87.8	89.2	89.4	90.1	90.2	90.6	90.3	90.5	91.5	87.1	88.8	90.3	90.8	89.3
2011	91.5	91.3	92.2	91.7	92.0	92.1	93.0	93.2	93.5	94.1	94.3	95.1	91.7	91.9	93.2	94.5	92.8
2012	95.8	96.3	95.7	96.4	96.5	96.5	97.2	95.9	96.3				95.9	96.5	96.5		
Capacity (percent of 2007 output)	122.7	122.4	122.1	121.8	121.5	121.3	121.1	121.0	120.9	120.8	120.8	120.7	122.4	121.6	121.0	120.8	121.4
2010 2011	122.7	122.4	122.1	121.8	121.5	121.3	121.1	121.0	120.9	120.8	120.8	120.7	122.4	121.6	121.0	120.8	121.4 121.0
2012	121.5	121.6	121.7	121.9	122.0	122.2	122.4	122.5	122.7	121.2	121.2	121.5	121.6	122.0	122.5	121.2	121.0
Utilization (percent)																	
1990	82.7	83.3	83.6	83.3	83.3	83.4	83.2	83.3	83.3	82.5	81.4	80.7	83.2	83.3	83.3	81.5	82.8
1991	80.2	79.5	78.9	79.0	79.7	80.4	80.3	80.2	80.9	80.6	80.4	79.9	79.6	79.7	80.5	80.3	80.0
1992 1993	79.1 81.4	79.6 81.6	80.2 81.4	80.6 81.6	80.7 81.1	80.5 81.2	81.1 81.4	80.6 81.2	80.6 81.4	81.0 81.9	81.2 82.1	81.1 82.4	79.7 81.5	80.6 81.3	80.8 81.3	81.1 82.1	80.5 81.6
1994	82.6	82.5	83.1	83.2	83.4	83.8	83.6	83.8	83.7	84.1	84.3	84.9	82.7	83.5	83.7	84.5	83.6
	02.0	02.0	00.1	00.2	05	05.0	05.0	02.0	0017	0.11	05	0	02.7	00.0	00.7	0	05.0
1995	84.9	84.6	84.4	84.0	83.9	83.9	83.3	84.0	84.0	83.4	83.4	83.3	84.6	83.9	83.8	83.4	83.9
1996	82.4	83.4	82.9	83.4	83.7	84.1	83.6	83.7	83.8	83.4	83.8	84.0	82.9	83.8	83.7	83.7	83.5
1997 1998	83.7 84.6	84.2 84.2	84.4 83.9	83.9 83.7	83.9 83.9	83.8 82.8	83.8 81.9	84.3 83.3	84.6 82.4	84.7 82.7	85.0 82.1	84.7 82.0	84.1 84.2	83.8 83.5	84.2 82.5	84.8 82.2	84.2 83.1
1999	81.9	81.8	81.5	81.2	81.5	81.0	81.1	81.2	80.7	81.6	81.6	81.9	81.7	81.3	81.0	81.7	81.4
						22.0			2017					21.0	21.0		2111
2000	81.6	81.5	81.4	81.7	81.4	81.3	80.8	80.4	80.6	80.1	79.8	79.4	81.5	81.5	80.6	79.8	80.8
2001	78.7	78.2	77.9	77.7	77.1	76.6	76.3	76.1	75.7	75.2	74.8	74.6	78.3	77.1	76.0	74.9	76.6
2002 2003	75.1 76.9	75.0 77.1	75.5 76.9	75.8 76.3	76.1 76.2	76.8 76.2	76.5 76.4	76.6 76.3	76.6 76.8	76.4 76.7	76.7 77.3	76.3 77.2	75.2	76.2 76.2	76.6 76.5	76.5 77.1	76.1 76.7
2004	77.4	77.1	77.4	77.8	78.4	77.7	78.3	78.5	78.4	79.2	79.3	79.9	77.6	78.0	78.4	79.5	78.3
	,,	,	,,	, ,	,		, 0.5	, 5.5	,		, ,		//.0	, 0.0	,		, 5.5
2005	80.2	80.7	80.6	80.5	80.6	80.8	80.5	80.5	78.6	79.4	80.1	80.5	80.5	80.6	79.9	80.0	80.3
2006	80.5	80.4	80.4	80.6	80.3	80.4	80.3	80.3	80.0	79.8	79.5	80.2	80.4	80.4	80.2	79.8	80.2
2007 2008	79.7 80.6	80.5 80.4	80.3 80.1	80.7 79.4	80.7 79.0	80.7 78.8	80.8 78.4	80.7 77.0	81.1 73.7	80.5 74.4	80.8 73.6	80.9 71.6	80.2 80.4	80.7 79.1	80.9 76.3	80.7 73.2	80.6 77.2
2008	69.9	69.5	68.3	67.6	66.9	66.6	67.3	68.2	68.7	69.0	69.4	69.9	69.2	67.0	68.1	69.4	68.4
~~~		27.0	20.0	27.0		20.0	27.0		20.,	->.0	-/		-2.2	27.0		-/	
2010	70.7	71.1	71.7	72.1	73.4	73.7	74.4	74.6	75.0	74.7	75.0	75.8	71.2	73.1	74.6	75.2	73.5
2011	75.8	75.7	76.3	75.9	76.1	76.2	76.9	77.0	77.2	77.7	77.8	78.4	75.9	76.1	77.0	77.9	76.7
2012	70.0																
2012	78.9	79.2	78.6	79.1	79.1	79.0	79.5	78.3	78.5				78.9	79.1	78.8		

^{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 Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
<b>IP</b> (percent change) ³	2	1.5	4	2	,	2	2	2		0	1.2	9	2.6	2.2		7.6	
1990 1991	3 8	1.5 8	.4 8	3 .3	.1 .7	.2 1.1	2 .3	.2	1 1.1	9 2	-1.2 3	8 3	3.6 -9.6	2.3	.6 7.0	-7.6 1.0	-2.6
1992	9	.9	.9	.4	.5	.1	.8	5	1	.5	.3	2	-1.2	7.1	2.7	1.4	2.6
1993 1994	1.1	.1 .1	3 1.2	.5 .5	1 .5	2 .2	.2	2 .6	.5	.7 .8	.3 .5	.5 .9	4.0	.7 7.1	.3 3.7	5.7 7.0	2.5
1995	.1	3	1	4	1	.3	8	.9	.5	4	1	.0	2.8	-2.3	.4	.5	2.5
1996 1997	-1.1 2	1.3	5 .9	1.0	.5 .5	.8	1 .2	1.3	.6	4 .5	.7	.7	-1.8 6.2	7.3 2.9	4.0 6.9	2.7 8.2	1.5 4.9
1998	.5	1	3	.2	.5	-1.1	9	2.4	8	.7	1	.2	3.2	2	5	4.0	3.4
1999	1	.4	4	1	.7	7	.0	.6	4	1.3	.3	.4	.8	.3	.2	6.7	1.4
2000 2001	3 6	2 5	.3 3	.4 1	6 7	.0 5	4 1	8 6	.4 2	5 7	6 2	8 .2	.4 -7.0	.6 -4.5	-3.8 -4.6	-4.8 -4.3	.7 -4.8
2002	.6	2	.8	.1	.7	1.1	5	.3	.0	5	.4	7	3.4	5.6	2.4	-1.3	.4
2003 2004	.5 1	.0 .8	.1 3	-1.1 .5	1 .8	.3 9	1 .8	4 .6	.7 3	2 1.1	.9 1	3 .6	.8 1.9	-3.9 3.1	.1 3.2	2.7 5.0	2.0
2005 2006	.7 .9	.7 2	5 2	.1 .6	.3 6	.1	3 2	.1	-1.4 .0	1.4 5	.7 1	.0 1.6	5.7 3.6	1.1	-2.1 1	4.2	3.1
2007	5	.5	.4	.6	2	.4	.2	.5 6	.4	7	.2	.2	3.8	4.2	.9	-1.8	1.8
2008 2009	5 -2.9	6 .0	6 -2.2	-1.2 9	6 -1.3	6 4	-1.1 1.2	-1.4 1.1	-3.5 .7	4 1	-2.0 .9	-3.1 .1	-3.7 -22.9	-9.4 -12.8	-14.1 6.0	-20.4 5.4	-5.8 -13.8
2010	.9	.0	1.0	1.0	1.4	.0	.8	.0	.2	.1	.1	.8	6.3	10.8	5.4	2.3	5.3
2011	.4	.3	.7	7	.2	.0	.9	.2	.5	.7	1	1.5	5.7	.1	5.2	6.4	4.2
2012	1.1	.9	7	.7	6	.4	.4	9	.2				10.2	.9	4		
<b>IP</b> (2007=100)	92.0	92.0	92.7	045	057	057	06.4	06.4	06.6	06.6	067	07.5	02.0	05.2	06.4	960	05.5
2010 2011	82.9 87.8	82.9 88.0	83.7 88.7	84.5 88.1	85.7 88.2	85.7 88.3	86.4 89.0	86.4 89.2	86.6 89.7	86.6 90.3	86.7 90.2	87.5 91.6	83.2 88.2	85.3 88.2	86.4 89.3	86.9 90.7	85.5 89.1
2012	92.6	93.4	92.8	93.4	92.8	93.2	93.5	92.7	92.9				92.9	93.1	93.0		
Capacity (percent of																	
2007 output)																	
2010 2011	122.1 119.4	121.8 119.3	121.5 119.2	121.2 119.2	120.9 119.1	120.6 119.1	120.4 119.1	120.2 119.1	120.0 119.1	119.8 119.1	119.6 119.2	119.5 119.2	121.8 119.3	120.9 119.1	120.2 119.1	119.7 119.2	120.6 119.2
2012	119.4	119.3	119.6	119.2	119.8	120.0	120.1	120.3	120.5	117.1	117.2	119.2	119.5	119.1	120.3	119.2	119.2
Utilization																	
(percent) 1990	81.8	82.9	83.1	82.6	82.6	82.6	82.4	82.5	82.3	81.4	80.3	79.5	82.6	82.6	82.4	80.4	82.0
1991	78.8	78.1	77.4	77.5	77.9	78.7	78.8	78.9	79.6	79.4	79.0	78.7	78.1	78.1	79.1	79.0	78.6
1992 1993	77.9 80.5	78.5 80.5	79.2 80.2	79.4 80.5	79.7 80.3	79.8 80.1	80.3 80.2	79.8 79.9	79.6 80.2	79.9 80.7	80.0 80.9	79.8 81.2	78.5 80.4	79.6 80.3	79.9 80.1	79.9 81.0	79.5 80.4
1994	81.2	81.2	82.1	82.4	82.7	82.7	82.8	83.1	83.1	83.6	83.9	84.5	81.5	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	83.0	82.5	82.2	82.1	84.1	83.1	82.7	82.3	83.0
1996 1997	81.0 82.4	81.9 83.0	81.3 83.5	82.0 82.6	82.2 82.7	82.7 82.7	82.5 82.5	82.6 83.2	82.7 83.4	82.1 83.5	82.5 83.8	82.8 83.6	81.4 83.0	82.3 82.7	82.6 83.1	82.5 83.6	82.2 83.1
1998	83.7	83.2	82.6	82.5	82.5	81.3	80.3	81.9	81.0	81.3	80.9	80.8	83.2	82.1	81.0	81.0	81.8
1999	80.6	80.7	80.1	79.9	80.3	79.5	79.4	79.7	79.2	80.1	80.2	80.3	80.4	79.9	79.4	80.2	80.0
2000 2001	80.0	79.7 75.6	79.8 75.3	80.0 75.1	79.4 74.5	79.3 74.1	78.9 74.0	78.2 73.5	78.4 73.3	77.9 72.8	77.3	76.6 72.7	79.9 75.6	79.6 74.6	78.5 73.6	77.3	78.8 74.1
2001	76.0 73.1	73.0	73.6	73.7	74.5	75.0	74.0	74.8	74.9	74.6	72.6 74.9	74.4	73.3	74.6	74.8	72.7 74.6	74.1
2003	74.8	74.9	75.0	74.2	74.2	74.4	74.4	74.1	74.7	74.6	75.3	75.2	74.9	74.3	74.4	75.0	74.6
2004	75.2	75.8	75.6	76.0	76.6	76.0	76.6	77.1	76.9	77.7	77.6	78.1	75.5	76.2	76.8	77.8	76.6
2005 2006	78.6 79.1	79.1 78.8	78.6 78.5	78.6 78.9	78.8 78.3	78.8 78.3	78.5 78.1	78.4 78.2	77.3 78.1	78.2 77.6	78.7 77.5	78.6 78.6	78.7 78.8	78.7 78.5	78.1 78.1	78.5 77.9	78.5 78.4
2007	78.1	78.4	78.5 78.6	78.9 79.0	78.3 78.8	78.3 79.1	79.2	78.2	78.1	78.3	78.4	78.5 78.5	78.4	78.5 78.9	78.9	78.4	78.7
2008	78.1	77.6	77.2	76.2	75.8	75.4	74.6	73.6	71.2	70.9	69.6	67.6	77.6	75.8	73.1	69.4	74.0
2009	65.7	65.9	64.6	64.1	63.5	63.5	64.4	65.3	65.9	66.1	66.9	67.1	65.4	63.7	65.2	66.7	65.2
2010	67.9	68.0	68.9	69.8	70.9	71.1	71.8	71.9	72.1	72.3	72.5	73.2	68.3	70.6	71.9	72.7	70.9
2011 2012	73.5 77.6	73.8 78.2	74.4 77.6	73.9 78.0	74.1 77.5	74.1 77.7	74.8 77.8	74.9 77.1	75.3 77.1	75.8	75.7	76.8	73.9 77.8	74.0 77.7	75.0 77.3	76.1	74.8
		. 0.2		. 0.0											. 7.0		

^{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.

#### EXPLANATORY NOTE

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

#### INDUSTRIAL PRODUCTION

Coverage. The industrial production (IP) index measures the real output of all manufacturing, mining, and electric and gas utility establishments located in the United States, regardless of their ownership, but not those located in U.S. territories; 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 2007 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 value added divided by the average annual IP index.

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

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 2012; for other series, the factors were estimated with data through at least December 2011. 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. The capacity indexes cover all facilities located in the United States, regardless of their ownership, but not those located in U.S. territories. 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 1972–2011 period, the average total industry utilization rate is 80.3 percent; for manufacturing, the average factory operating rate has been 78.8 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 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 30, 2012 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

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.

2013: January 16, February 15, March 15, April 16, May 15, June 14, July 16, August 15, September 16, October 17, November 15, and December 16.