

FEDERAL RESERVE statistical release



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INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION

Industrial production increased 0.2 percent in September after a gain of 0.4 percent in August; the August rate is slightly smaller than previously reported. Manufacturing output also increased 0.2 percent in September. The production of motor vehicles and parts, however, fell back about 2 percent for the second straight month. Mining output slipped 0.2 percent, while output at utilities rose 0.4 percent. At 127.1 percent of its 1987 average, total industrial production in September was 3.5 percent higher than it was in September 1995. Utilization of industrial capacity edged down 0.1 percentage point, to 83.3 percent. Meanwhile, on a quarterly average basis, growth in industrial production slowed from an annual rate of 6.7 percent in the second quarter to 4.4 percent in the third quarter, with the slowdown evident in most major market groups except nondurable consumer goods and durable goods materials.

Market Groups

The overall output of consumer goods was little changed in September, as substantial declines in the production of automotive products and other consumer durables were offset by advances in the production of nondurable (over)

INDUSTRIAL PRODUCTION AND CAPACITY UTILIZATION: SUMMARY

Seasonally adjusted

	Index, 1987=100				Percent change				Sept. 96
	1996 June ^r	July ^r	Aug. ^r	Sept. ^p	1996 June ^r	July ^r	Aug. ^r	Sept. ^p	
Industrial Production									
Total index	126.4	126.4	126.8	127.1	.8	.0	.4	.2	3.5
Previous estimates	126.2	126.3	126.9		.6	.1	.5		
Major market groups:									
Products, total	122.3	122.6	122.4	122.9	.8	.2	-.1	.4	2.9
Consumer goods	116.8	117.4	116.6	116.6	.4	.5	-.7	.1	.5
Business equipment	168.6	170.1	170.8	172.1	1.6	.9	.4	.8	8.8
Construction supplies	113.9	112.5	113.2	113.5	2.6	-1.3	.7	.2	4.6
Materials	132.6	132.3	133.7	133.7	.8	-.3	1.1	.0	4.3
Major industry groups:									
Manufacturing	128.5	129.0	129.1	129.4	.9	.3	.1	.2	3.6
Durable	141.1	141.5	142.2	142.4	1.5	.3	.5	.1	5.9
Nondurable	114.6	115.1	114.6	115.1	.2	.4	-.4	.5	.7
Mining	102.8	101.4	103.8	103.6	2.3	-1.3	2.4	-.2	3.6
Utilities	126.6	123.1	125.2	125.7	-1.4	-2.7	1.7	.4	2.5
	Percent of Capacity								Capacity growth
Capacity Utilization	Average 1967-95	1982 Low	1988-89 High	1995 Sept.	1996 June ^r	July ^r	Aug. ^r	Sept. ^p	Sept. 96
Total industry	82.1	71.8	84.9	83.7	83.7	83.4	83.4	83.3	3.9
Previous estimates					83.5	83.3	83.5		
Manufacturing	81.4	70.0	85.2	82.8	82.6	82.5	82.3	82.2	4.4
Advanced processing	80.7	71.4	83.5	81.1	80.8	80.8	80.7	80.5	5.2
Primary processing	82.6	66.8	89.0	86.9	86.8	86.6	86.3	86.2	2.5
Mining	87.4	80.6	86.5	89.3	91.9	90.7	92.9	92.7	-.1
Utilities	86.9	76.2	92.6	90.7	92.6	90.0	91.4	91.6	1.4

consumer goods. Motor vehicle assemblies fell 0.5 million units (annual rate) from their August level. The output of other durable consumer goods declined noticeably for the third consecutive month, putting it more than 4 percent below its June level and more than 1 percent below its year-ago level; the weakness in September was concentrated in household furniture, refrigerators, and miscellaneous durable goods. In contrast to the lowered output of consumer durables in September, the production of consumer nondurables rose 0.5 percent, led by gains in the production of foods and chemical products; electricity usage and the output of clothing and paper products also increased, but gasoline output fell.

The output of business equipment advanced 0.8 percent; as in August, the increase was concentrated at producers of information processing equipment. The output of industrial equipment was unchanged, and production for this segment remains near its September 1995 level. Led by another large drop in motor vehicle assemblies, the production of transit equipment fell again in September. Growth at commercial aircraft manufacturers continued strong, however, with production up more than 14 percent since June. The output of defense and space equipment edged up in September after having posted substantial increases in the two preceding months. The production of construction supplies, which had risen a revised 0.7 percent in August, increased 0.2 percent; the output of business supplies, however, rebounded from the previous two months of weakness, advancing 1.1 percent.

The output of industrial materials was flat in September. With a return to more seasonal temperatures, the production of energy materials edged up 0.2 percent after having risen 2.4 percent in August. After strong growth in August, the output of durable goods materials was unchanged, as gains in the output of parts destined for use in computer, aviation, and defense equipment were offset by declines in parts used primarily in consumer durables. The output of nondurable materials increased just 0.1 percent after a 0.7 percent decline in August; declines in textile materials and containers largely offset gains in paper, chemical, and miscellaneous materials.

Industry Groups

After a revised 0.1 percent gain in August, factory output increased 0.2 percent in September; the production of durable goods edged up 0.1 percent, while that of nondurable goods grew 0.5 percent. Among durables, the output of motor vehicles and parts and of miscellaneous manufactures declined substantially; the production of lumber and of iron and steel also fell. These declines were more than offset, however, by substantial increases in computer and office equipment, in aerospace and miscellaneous transportation equipment, and in stone, clay, and glass products and by small increases in other industries. Among nondurables, the indexes for food, tobacco, paper, and chemicals all posted gains in excess of 0.5 percent; printing and publishing and petroleum refining also advanced. On the negative side, the output of leather products, textile mill products, and apparel products, all of which had declined in August, fell again. The production of rubber and plastics products also retreated.

The factory operating rate edged down 0.1 percentage point, to 82.2 percent. The rate for advanced-processing industries decreased 0.2 percentage point, to 80.5 percent, and the rate for primary-processing industries slipped 0.1 percentage point, to 86.2 percent. Although the operating rate for primary processors remains 4 percentage points below the high rate for the current expansion, achieved in December 1994, capacity utilization for these industries is 3.6 percentage points above its 1967–95 average. In particular, the operating rates for primary metals, petroleum refining, fabricated metals products, and rubber and plastics products are more than 5 percentage points above their long-run averages.

This release and the history for all published series are available on the Internet at <http://www.bog.frb.fed.us>, the Board of Governors World Wide Web site.

1996 Annual Revision of Industrial Production and Capacity Utilization

During the fourth quarter, the Federal Reserve will publish revisions of its measures of industrial production (IP), capacity, capacity utilization, and industrial use of electric power; the current target for publishing the revision is late November. The revisions of IP, capacity, and capacity utilization will incorporate updated source data for recent years and will feature a change in the method of aggregating the indexes. From 1977 onward, the value-added proportions used to weight individual series will be updated annually rather than quinquennially. In addition, the IP indexes and the capacity measures will be rebased so that 1992 actual output equals 100. Capacity utilization, the ratio of IP to capacity, will be recomputed on the basis of revised IP and capacity measures.

The aggregate IP indexes will be constructed with a superlative index formula similar to that introduced by the Bureau of Economic Analysis as the featured measure of real output in its January 1996 comprehensive revision of the National Income and Product Accounts. At present, the aggregate IP indexes are computed as linked Laspeyres indexes, with the weights updated every five years. Because of the rapid fall in the relative price of computers and peripheral equipment, that periodic updating of weights is too infrequent to provide reliable estimates of current changes in output, capacity, and capacity utilization. With the publication of the revision, value-added proportions will be updated annually, and the new index number formula will be applied to all aggregates of IP, capacity, and gross value of product. For the most part, relative price movements among the 260 individual components of the IP index are likely to have little visible effect on total IP. However, the more frequent updating of the relative price of the output of the computer industry could lower overall IP growth in some years by as much as 1/2 percentage point; in other years, the updating of weights will have virtually no effect. Because the new index number formula will slow capacity growth as well as IP growth, the effect of the reaggregation on overall capacity utilization should be small.

The regular updating of source data for IP will include the introduction of annual data from the *1994 Annual Survey of Manufactures* and selected *1995 Current Industrial Reports* of the Bureau of the Census. Available annual data on mining for 1994 and 1995 from the Department of the Interior will also be introduced. Revisions to the monthly indicators for each industry (physical product data, production-worker hours, or electric power usage) and revised seasonal factors will be incorporated back to 1992. In addition, the benchmark index for semiconductor output will be revised back to 1977 to reflect a hedonic price index, similar in concept to what is used for the computer industry.

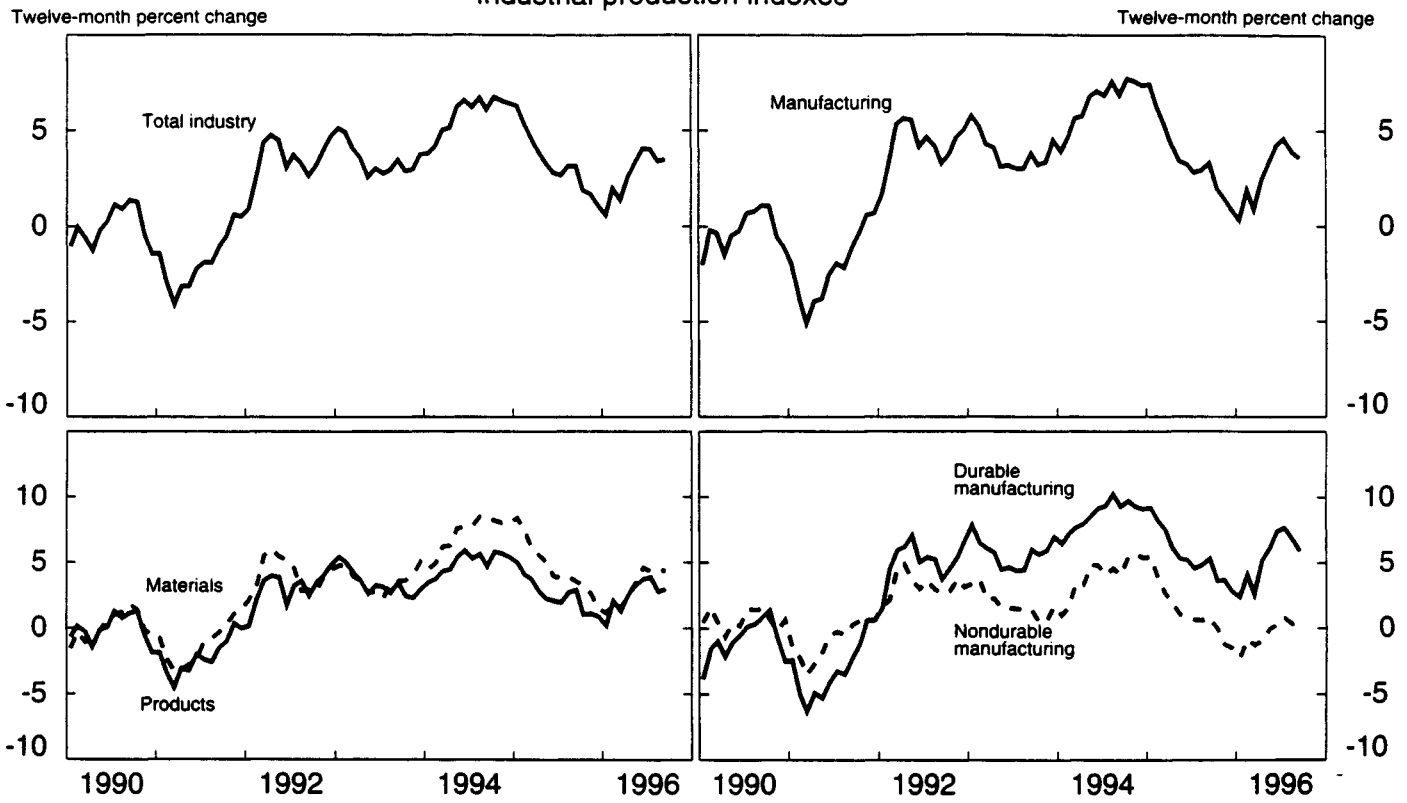
The statistics on the industrial use of electric power will be revised back to 1972. These revisions stem from three basic sources. First, the new figures incorporate more complete reports received from utilities for the past few years. Second, an updated panel of reporters on cogeneration will be fully integrated into our survey of electric power use. Third, the levels of the monthly electric power series for manufacturing industries will be benchmarked to indexes derived from data published in the Census Bureau's annual surveys and censuses of manufactures. These indexes will also be revised so that 1992 electric power usage equals 100.

More detail on the plans for this revision is available on the Internet at <http://www.bog.frb.fed.us>, the Board's World Wide Web site. Once the revision is published, the revised data will be available at that site and on diskettes from the Board of Governors of the Federal Reserve System, Publications Services, 202-452-3245. The revised data will also be available through the Economic Bulletin Board of the Department of Commerce; for information about the Bulletin Board, call 202-482-1986. In addition to the data currently provided, the time series of implicit prices necessary for a user to aggregate IP and capacity under the new methodology will be provided. For information on these revisions, call the Industrial Output Section of the Board of Governors at 202-452-3151.

Industrial Production and Capacity Utilization

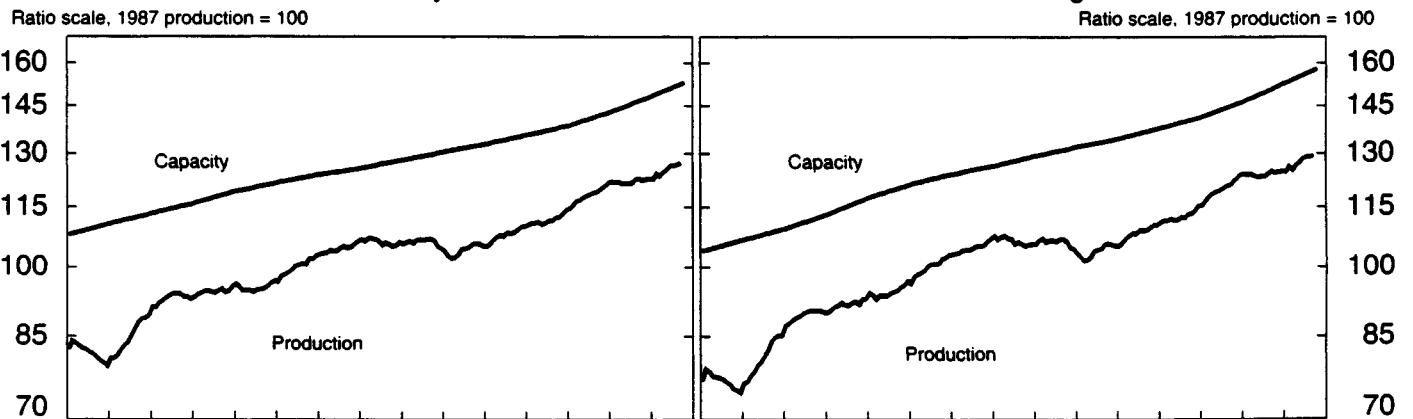
(September data, seasonally adjusted)

Industrial production indexes



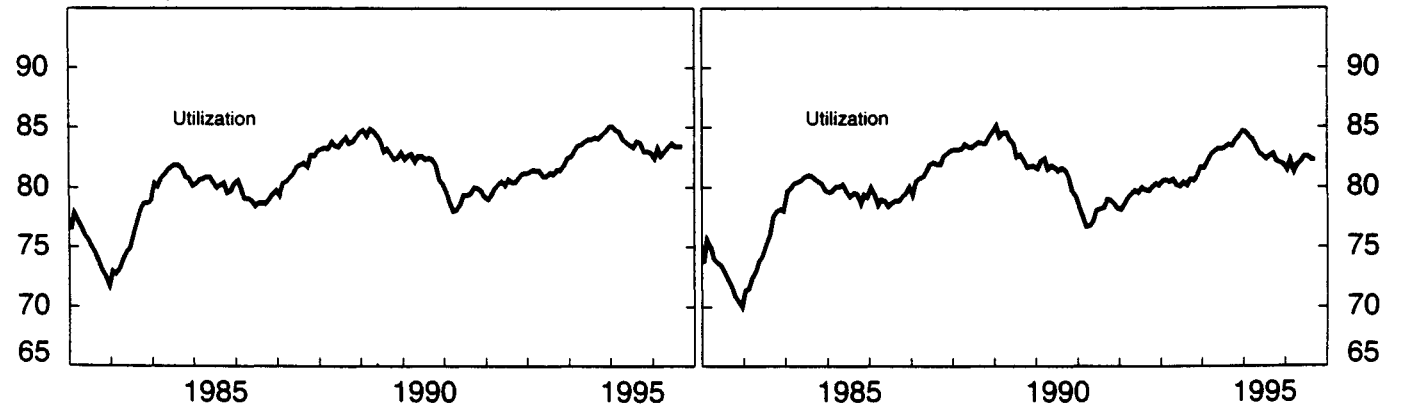
Total industry

Manufacturing



Percent of capacity

Percent of capacity



**Table 1A
INDUSTRIAL PRODUCTION: MARKET GROUPS**

Item	1992		Index, 1987=100											
	Value added ¹	Index	Seasonally Adjusted						Not seasonally adjusted					
			1996 Apr.	May	June ^r	July ^r	Aug. ^r	Sept. ^p	1996 Apr.	May	June ^r	July ^r	Aug. ^r	Sept. ^p
Total index	100.0	107.7	124.5	125.4	126.4	126.4	126.8	127.1	122.5	123.6	128.5	124.7	129.9	130.4
Products, total	60.6	106.4	120.8	121.3	122.3	122.6	122.4	122.9	118.0	119.1	125.0	120.9	127.0	127.6
Final products	46.3	108.7	124.8	125.1	126.0	126.7	126.5	126.8	121.9	122.8	128.6	123.4	130.8	131.5
Consumer goods	28.6	106.0	115.9	116.3	116.8	117.4	116.6	116.6	113.0	113.4	119.5	113.3	121.2	121.6
Durable	5.6	103.0	125.5	126.2	130.4	131.4	128.3	126.1	129.0	128.8	136.4	105.7	127.8	130.6
Automotive products	2.5	100.9	133.5	134.1	138.4	143.4	138.0	135.3	139.5	140.1	149.8	98.7	135.2	140.5
Autos and trucks	1.6	97.1	135.9	135.4	138.9	149.6	141.2	136.4	143.1	145.0	155.4	84.4	136.1	142.2
Autos	.9	80.9	104.1	106.2	110.4	116.1	111.1	107.4	109.6	114.3	123.7	68.8	105.4	106.5
Trucks	.7	125.2	192.7	187.3	189.2	209.3	194.7	188.0	203.2	199.6	211.6	111.9	191.0	206.4
Auto parts and allied goods	.9	107.3	127.2	129.9	136.0	129.3	129.9	131.5	130.6	128.6	136.6	126.2	131.7	135.5
Other durable goods	3.0	104.9	118.5	119.3	123.4	120.9	119.8	118.1	119.7	118.9	124.7	111.7	121.4	121.9
Appliances, TVs, and air-cond.	.7	110.4	139.7	138.9	151.4	146.2	142.0	139.5	142.5	142.1	153.3	126.8	142.8	145.1
Carpeting and furniture	.8	97.1	104.4	106.0	109.4	105.5	105.8	105.2	108.1	103.6	112.1	100.0	109.9	108.8
Miscellaneous	1.5	106.8	117.1	118.2	118.7	118.4	117.7	115.9	116.0	117.3	118.8	111.7	118.2	119.0
Nondurable	23.0	106.9	113.6	114.0	113.5	113.9	113.7	114.3	109.1	109.7	115.3	115.3	119.6	119.5
Foods and tobacco	10.3	105.4	112.2	112.0	111.7	111.9	111.1	111.8	107.5	109.7	116.2	111.5	119.1	120.1
Clothing	2.4	96.2	88.8	89.2	88.5	88.4	88.0	88.3	86.9	89.5	92.9	87.9	92.0	92.3
Chemical products	4.5	119.6	133.8	135.2	134.5	137.8	137.1	138.5	126.8	131.6	142.2	150.8	152.0	153.4
Paper products	2.9	103.8	106.1	107.2	106.3	108.2	108.0	108.4	106.9	106.9	105.9	106.8	108.7	108.4
Energy products	2.9	108.2	121.8	121.8	121.6	118.1	120.5	120.4	113.3	101.3	105.8	114.0	113.6	107.1
Fuels	.9	104.6	111.5	111.7	111.6	111.1	113.3	112.2	110.2	112.5	113.3	112.5	114.1	113.5
Utilities	2.1	109.6	126.2	126.0	125.7	120.9	123.5	123.8	114.4	96.2	102.3	114.4	113.2	104.1
Equipment, total	17.7	112.5	139.2	139.2	140.8	141.8	142.6	143.4	136.3	138.0	143.4	140.0	146.3	147.7
Business equipment	13.7	123.4	166.3	166.0	168.6	170.1	170.8	172.1	162.9	164.9	172.5	168.1	176.1	177.8
Information processing & related	5.7	137.8	224.9	226.2	232.0	232.9	236.0	239.8	217.1	222.3	235.9	242.4	248.7	249.5
Computer and office	1.4	172.6	491.1	505.0	522.0	537.5	552.0	564.6	467.2	494.4	537.1	570.7	598.2	589.2
Industrial	4.0	105.7	129.9	129.4	128.2	127.9	128.3	128.3	126.9	127.5	130.2	129.2	131.5	133.6
Transit	2.6	135.8	136.1	133.4	136.9	144.2	141.7	141.4	139.7	138.9	147.5	111.6	138.2	141.7
Autos and trucks	1.2	112.9	140.0	138.2	141.9	151.8	143.6	138.5	147.0	146.1	158.2	94.4	139.9	141.8
Other	1.4	103.3	122.1	121.1	123.3	122.9	121.7	121.3	122.0	121.3	123.1	121.0	123.3	123.9
Defense and space equipment	3.3	84.8	64.0	64.3	63.7	64.5	65.2	65.3	63.4	64.1	63.4	63.2	64.0	65.0
Oil and gas well drilling	.6	79.9	100.6	104.3	102.3	99.1	99.9	96.2	91.0	94.1	95.4	97.0	100.7	100.9
Manufactured homes	.2	94.2	170.7	170.4	172.4	164.8	173.7	172.1	176.3	174.5	187.5	152.4	188.3	181.2
Intermediate products	14.3	99.3	108.6	110.1	111.3	110.2	110.3	111.1	106.4	107.9	114.0	113.5	115.5	115.7
Construction supplies	5.3	95.2	109.2	111.0	113.9	112.5	113.2	113.5	108.9	112.1	119.1	114.7	117.4	118.1
Business supplies	9.0	102.0	108.4	109.6	109.8	109.0	108.6	109.7	104.9	105.4	111.0	112.8	114.5	114.3
Materials	39.4	109.7	130.3	131.6	132.6	132.3	133.7	133.7	129.3	130.7	134.0	130.5	134.4	134.8
Durable	20.8	112.8	147.3	148.8	150.5	150.4	152.2	152.2	146.5	148.9	152.6	147.6	152.4	154.8
Consumer parts	4.0	107.4	142.1	143.5	148.3	147.6	151.0	149.4	141.4	146.4	151.1	138.9	148.2	151.7
Equipment parts	7.5	120.9	177.2	179.0	180.9	181.1	183.0	183.4	175.3	177.7	181.9	179.0	182.8	185.2
Other	9.2	108.4	126.8	128.1	128.2	128.2	129.3	129.6	126.7	127.9	130.7	127.3	131.0	132.9
Basic metals	3.1	110.0	123.7	123.9	125.1	123.7	124.6	124.9	126.0	124.3	125.8	120.6	122.5	125.9
Nondurable	8.9	110.1	118.8	120.0	120.1	120.9	120.0	120.1	119.9	119.2	121.2	118.2	120.8	121.1
Textile	1.1	100.5	104.9	106.2	106.3	108.7	108.6	107.9	107.0	109.6	107.6	100.1	110.7	108.2
Paper	1.8	110.8	118.9	118.7	115.2	120.8	118.8	120.0	117.6	115.5	117.6	117.8	119.4	120.6
Chemical	3.9	112.7	123.6	125.8	126.8	126.1	125.7	125.8	125.9	125.4	127.2	125.0	125.5	126.7
Other	2.1	109.9	117.8	118.2	119.7	118.2	117.0	116.5	118.2	116.4	120.9	116.4	119.0	118.2
Energy	9.7	103.7	107.0	108.1	108.7	106.6	109.2	109.3	104.0	105.0	109.0	107.7	111.1	107.4
Primary	6.3	100.5	103.1	102.7	103.7	101.8	104.8	104.9	101.4	101.3	104.6	100.9	105.1	103.1
Converted fuel	3.3	110.1	114.9	118.9	118.7	116.3	117.8	118.2	109.0	112.2	117.7	121.3	123.2	116.0
SPECIAL AGGREGATES														
Total excluding:														
Autos and trucks	97.2	107.8	124.1	125.0	126.0	125.7	126.4	126.8	121.8	122.9	127.7	125.8	129.7	130.1
Motor vehicles and parts	95.2	107.7	123.5	124.4	125.2	125.0	125.6	126.1	121.2	122.2	127.0	125.3	129.0	129.4
Computer and office equipment	98.2	106.2	119.5	120.2	121.1	120.9	121.2	121.3	117.7	118.6	123.1	118.8	123.8	124.4
Consumer goods excluding:														
Autos and trucks	27.0	106.7	114.6	115.1	115.4	115.2	114.9	115.3	111.0	111.3	117.1	115.2	120.2	120.3
Energy	25.7	105.8	115.2	115.7	116.3	117.3	116.1	116.2	112.9	114.8	121.0	113.2	122.0	123.2
Business equipment excluding:														
Autos and trucks	12.5	124.3	168.7	168.6	171.1	171.7	173.3	175.3	164.3	166.6	173.8	175.6	179.6	181.3
Computer and office equipment	12.2	115.1	134.8	133.5	134.9	135.2	134.8	135.1	133.2	133.1	137.8	130.6	136.7	139.2
Materials excluding:														
Energy	29.7	111.9	138.6	140.0	141.2	141.4	142.4	142.4	138.4	139.8	143.0	138.6	142.8	144.5

1. Proportion as a share of the value added for the total index.

Table 1B
INDUSTRIAL PRODUCTION: MARKET GROUPS

Percent change

Item	1994 Q4 to 1995 Q4	Seasonally adjusted annual rate				Seasonally adjusted				Not seasonally adjusted				Sept. 95 to Sept. 96
		1995 Q4	1996 Q1	Q2 ^f	Q3 ^p	1996 June ^f	July ^f	Aug. ^f	Sept. ^p	1996 June ^f	July ^f	Aug. ^f	Sept. ^p	
Total index	1.6	.6	3.0	6.7	4.4	.8	.0	.4	.2	4.0	-3.0	4.2	.4	3.5
Products, total	1.0	-.4	3.5	5.8	3.9	.8	.2	-.1	.4	5.0	-3.2	5.0	.5	2.9
Final products	1.3	-1.0	5.0	6.6	4.5	.7	.6	-.2	.2	4.7	-4.0	6.0	.6	3.4
Consumer goods	.5	.0	-.1	3.0	1.7	.4	.5	-.7	.1	5.3	-5.2	7.0	.3	.5
Durable	-.9	3.6	-10.0	20.5	3.9	3.3	.8	-2.4	-1.7	5.9	-22.5	21.0	2.1	.3
Automotive products	-1.1	3.1	-12.2	31.4	10.9	3.2	3.6	-3.8	-2.0	6.9	-34.1	36.9	3.9	1.8
Autos and trucks	-2.3	1.6	-20.6	53.1	17.7	2.5	7.7	-5.6	-3.4	7.2	-45.7	61.2	4.4	2.5
Autos	-6.0	-5.4	-34.8	100.4	18.4	4.0	5.2	-4.3	-3.4	8.2	-44.4	53.3	1.0	4.7
Trucks	1.9	9.7	-3.3	16.5	17.0	1.0	10.6	-7.0	-3.4	6.0	-47.1	70.7	8.1	.2
Auto parts and allied goods	1.2	6.0	6.6	-2.8	-2.4	4.7	-4.9	.5	1.2	6.2	-7.7	4.4	2.8	.5
Other durable goods	-.7	4.2	-7.9	10.9	-2.7	3.4	-2.0	-1.0	-1.4	4.8	-10.4	8.6	.4	-1.2
Appliances, TVs, and air-cond.	5.1	20.9	-16.8	23.4	-2.2	9.0	-3.4	-2.8	-1.8	7.9	-17.3	12.6	1.6	.0
Carpeting and furniture	-3.7	-2.4	-8.5	12.9	-4.0	3.2	-3.5	.3	-6	8.2	-10.8	9.9	-1.0	-1.6
Miscellaneous	-2.1	-.3	-2.2	3.5	-2.3	.5	-.3	-.6	-1.6	1.2	-6.0	5.9	.6	-1.6
Nondurable	1.0	-1.0	2.8	-1.3	1.1	-.4	.4	-.2	.5	5.1	-.1	3.8	-.1	.5
Foods and tobacco	-.5	-4.2	2.7	1.3	-1.2	-.2	-.2	-.7	.6	5.9	-4.0	6.8	.8	.2
Clothing	-8.7	-9.4	-9.4	-1.3	-2.7	-.7	-.2	-.4	.3	3.9	-5.4	4.7	.3	-5.4
Chemical products	6.0	12.7	5.6	-8.7	10.2	-.5	2.5	-.5	1.0	8.1	6.0	.8	.9	3.4
Paper products	.4	-.3	-5.6	3.8	6.3	-.8	1.7	-.2	.3	-.9	.9	1.8	-.4	1.0
Energy products	6.6	-4.1	16.5	-2.4	-6.6	-.2	-2.8	2.1	-.1	4.5	7.7	-.3	-5.8	1.2
Fuels	1.0	-4.6	10.9	2.6	2.3	-.1	-.4	2.0	-1.0	.7	-.7	1.4	-.6	.7
Utilities	9.0	-3.9	18.7	-4.3	-9.9	-.3	-3.8	2.1	.3	6.4	11.8	-1.0	-8.1	1.3
Equipment, total	2.5	-2.4	13.0	12.0	8.5	1.2	.7	.6	.5	3.9	-2.4	4.5	.9	7.7
Business equipment	4.6	.3	14.5	11.0	10.0	1.6	.9	.4	.8	4.7	-2.5	4.8	1.0	8.8
Information processing & related	13.9	16.1	21.7	17.9	16.0	2.6	.4	1.3	1.6	6.1	2.8	2.6	.3	18.2
Computer and office	36.2	45.0	48.4	45.5	41.0	3.4	3.0	2.7	2.3	8.6	6.3	4.8	-1.5	44.8
Industrial	3.5	2.6	4.1	-3.7	-3.1	-.9	-.3	.4	.0	2.1	-.8	1.8	1.7	-.3
Transit	-14.2	-39.6	18.7	27.4	22.2	2.6	5.3	-1.8	-.2	6.2	-24.4	23.8	2.5	2.5
Autos and trucks	-6.1	-17.0	-23.7	51.4	13.8	2.7	7.0	-5.4	-3.6	8.3	-40.3	48.2	1.3	-3.4
Other	-3.6	-4.3	4.5	-1.7	-.6	1.8	-.3	-1.0	-.3	1.5	-1.8	1.9	.5	-1.6
Defense and space equipment	-9.1	-16.4	-.6	6.7	6.2	-1.0	1.2	1.1	.1	-1.0	-.3	1.2	1.6	.1
Oil and gas well drilling	-4.8	-21.7	37.4	64.9	-14.7	-1.9	-3.1	.8	-3.7	1.4	1.7	3.8	.1	9.0
Manufactured homes	13.1	21.1	-.9	26.7	-2.3	1.2	-4.4	5.4	-.9	7.4	-18.7	23.6	-3.8	8.9
Intermediate products	-.1	1.6	-1.4	3.0	2.0	1.1	-.9	.0	.7	5.7	-.5	1.8	.2	1.5
Construction supplies	-.4	6.0	.6	7.7	6.2	2.6	-1.3	.7	.2	6.2	-3.7	2.3	.7	4.6
Business supplies	.0	-1.1	-2.6	.1	-.6	.1	-.7	-.4	1.1	5.3	1.7	1.5	-.1	-.5
Materials	2.4	2.0	2.2	8.0	5.2	.8	-.3	1.1	.0	2.6	-2.7	3.0	.3	4.3
Durable	5.3	7.1	4.3	7.6	7.5	1.1	-.1	1.2	.0	2.5	-3.3	3.3	1.6	5.6
Consumer parts	-.3	5.8	-3.6	20.4	13.7	3.4	-.5	2.3	-1.1	3.2	-8.0	6.6	2.4	6.8
Equipment parts	13.2	8.8	11.0	9.7	8.0	1.0	.1	1.0	.2	2.4	-1.6	2.1	1.3	8.5
Other	1.1	6.0	1.7	-.2	4.1	.1	.0	.9	.2	2.2	-2.6	2.9	1.4	2.2
Basic metals	.5	4.6	-5.5	-1.1	.5	.9	-1.0	.7	.2	1.2	-4.1	1.5	2.8	-1.6
Nondurable	-2.7	-3.1	-5.0	12.9	2.3	.1	.7	-.7	.1	1.6	-2.4	2.2	.2	1.9
Textile	-7.1	-3.0	-12.6	17.1	10.2	.1	2.3	-.1	-.7	-1.8	-7.0	10.5	-2.2	1.6
Paper	-3.7	-10.9	-11.5	15.3	7.9	-2.9	4.9	-1.7	1.0	1.8	.2	1.3	1.0	2.5
Chemical	-.3	-3.4	-3.0	13.2	1.4	.8	-.6	-.4	.1	1.4	-1.7	.4	1.0	2.0
Other	-3.8	5.0	1.2	8.3	-4.5	1.3	-1.3	-1.0	-.4	3.9	-3.7	2.2	-.6	1.2
Energy	.1	-5.6	3.8	4.6	1.7	.6	-1.9	2.4	.2	3.8	-1.2	3.2	-3.3	3.3
Primary	-.3	-1.9	3.2	4.8	2.7	1.0	-1.8	3.0	.1	3.3	-3.6	4.1	-1.9	3.6
Converted fuel	.9	-12.0	4.8	4.3	-.1	-.1	-2.0	1.3	.3	4.9	3.1	1.5	-5.8	2.8
SPECIAL AGGREGATES														
Total excluding:														
Autos and trucks	1.7	.8	3.9	5.5	4.1	.7	-.2	.6	.3	3.9	-1.5	3.1	.3	3.6
Motor vehicles and parts	1.8	.7	4.5	4.8	3.8	.7	-.2	.5	.4	3.9	-1.3	3.0	.3	3.5
Computer and office equipment	.6	-.8	1.4	5.2	2.9	.7	-.1	.2	.1	3.8	-3.4	4.2	.5	2.0
Consumer goods excluding:														
Autos and trucks	.8	-.1	1.6	.0	.5	.2	-.1	-.3	.3	5.2	-1.6	4.3	.0	.3
Energy	-.1	.5	-1.9	3.7	2.7	.5	.9	-1.0	.1	5.4	-6.4	7.8	1.0	.4
Business equipment excluding:														
Autos and trucks	5.6	2.0	18.4	8.2	9.7	1.5	.3	1.0	1.1	4.3	1.0	2.3	.9	9.9
Computer and office equipment	-1.2	-8.1	7.0	2.8	1.9	1.1	.2	-.3	.3	3.5	-5.2	4.7	1.8	.6
Materials excluding:														
Energy	3.1	4.3	1.8	9.0	6.2	.8	.1	.7	.0	2.3	-3.1	3.0	1.2	4.6

Note—Percent changes shown in the first and last columns are based on seasonally adjusted data.

Table 2A
INDUSTRIAL PRODUCTION: INDUSTRY GROUPS

Item	SIC	Index, 1987=100													
		1992		Seasonally Adjusted						Not seasonally adjusted					
		Value added ¹	Index	1996 Apr.	May	June ²	July ²	Aug. ²	Sept. ²	1996 Apr.	May	June ²	July ²	Aug. ²	Sept. ²
Total index		100.0	107.7	124.5	125.4	126.4	126.4	126.8	127.1	122.5	123.6	128.5	124.7	129.9	130.4
Manufacturing		85.4	108.2	126.5	127.4	128.5	129.0	129.1	129.4	125.0	126.6	131.6	126.9	132.6	133.9
Primary processing		26.6	104.8	117.5	118.5	119.7	119.7	119.6	119.8	117.7	118.3	121.9	117.7	121.2	121.9
Advanced processing		58.9	109.7	130.8	131.5	132.7	133.3	133.6	133.9	128.4	130.6	136.3	131.2	138.0	139.6
Durable		45.0	109.3	138.3	139.1	141.1	141.5	142.2	142.4	137.2	139.1	144.1	136.6	144.0	146.0
Lumber and products	24	2.0	95.2	108.4	107.7	110.6	108.1	108.8	108.4	107.4	107.2	113.9	106.3	113.4	112.4
Furniture and fixtures	25	1.4	99.2	108.9	112.1	111.9	110.1	110.5	110.9	107.6	109.0	112.3	109.4	117.7	116.8
Stone, clay, and glass products	32	2.1	95.3	103.6	105.0	105.8	108.0	105.2	105.9	103.3	106.3	109.2	108.1	109.1	109.3
Primary metals	33	3.1	101.9	119.2	118.6	121.0	118.9	120.1	120.2	121.6	119.0	120.9	114.2	117.4	120.8
Iron and steel	331,2	1.7	104.7	122.9	121.0	124.2	123.3	124.1	123.8	126.3	121.5	124.6	119.7	120.7	124.1
Raw steel		.1	101.2	112.9	113.2	115.7	112.9	114.5	115.2	115.4	114.4	116.4	110.0	111.0	114.0
Nonferrous	333-6,9	1.4	98.1	114.2	115.1	116.6	113.1	114.8	115.3	115.3	115.5	115.8	107.2	112.9	116.3
Fabricated metal products	34	5.0	99.0	115.5	116.7	117.3	117.3	117.7	117.7	113.3	115.7	119.4	116.6	120.4	121.4
Industrial machinery and equipment	35	8.0	124.0	199.0	201.2	205.2	205.4	210.0	211.3	195.7	200.1	210.4	210.7	217.3	218.5
Computer and office equip.	357	1.8	172.6	491.1	505.0	522.0	537.5	552.0	564.6	467.2	494.4	537.1	570.7	598.2	589.2
Electrical machinery	36	7.2	123.5	187.3	188.8	191.0	190.6	190.8	191.4	184.8	187.0	191.8	186.3	191.8	195.1
Transportation equipment	37	9.5	104.8	114.6	114.6	116.6	120.3	119.4	118.6	115.8	118.1	122.5	99.0	116.8	120.0
Motor vehicles and parts	371	4.8	107.4	144.3	144.7	148.7	154.5	151.4	147.8	147.2	151.4	159.8	112.5	147.5	151.4
Autos and light trucks		2.5	102.1	135.5	135.3	138.9	149.4	141.3	136.5	142.7	144.9	155.5	84.7	136.0	141.6
Aerospace and misc.	372-6,9	4.7	102.3	86.0	85.7	85.8	87.3	88.6	90.5	85.6	86.1	86.5	86.0	87.3	89.7
Instruments	38	5.4	106.3	112.8	112.4	113.7	112.3	113.3	113.5	110.6	110.6	115.2	114.1	115.3	117.5
Miscellaneous	39	1.3	106.9	122.6	123.0	124.4	124.1	124.4	123.0	121.6	122.6	124.5	118.8	124.8	126.2
Nondurable		40.5	106.7	113.5	114.4	114.6	115.1	114.6	115.1	111.5	112.9	117.9	116.2	120.0	120.6
Foods	20	9.4	106.9	115.4	115.6	115.1	115.7	114.5	115.1	111.0	113.5	118.0	117.7	121.8	123.8
Tobacco products	21	1.6	95.8	94.6	91.9	93.0	90.8	92.1	93.1	89.5	87.3	102.2	75.8	98.2	97.0
Textile mill products	22	1.8	104.0	108.2	108.8	111.1	112.7	111.3	110.9	111.2	111.7	116.9	106.9	115.0	114.2
Apparel products	23	2.2	95.0	90.4	90.8	90.9	90.0	89.9	89.7	88.2	90.6	92.7	88.2	92.5	92.4
Paper and products	26	3.6	110.0	118.9	119.5	119.4	121.5	118.7	119.8	119.2	116.3	120.9	118.9	119.9	119.9
Printing and publishing	27	6.8	98.1	96.3	97.7	97.2	97.3	97.2	97.6	94.2	95.3	99.1	101.7	103.6	103.6
Chemicals and products	28	9.9	114.4	126.0	127.7	128.1	129.5	128.6	129.5	124.3	126.6	132.3	134.9	135.6	136.5
Petroleum products	29	1.4	102.6	109.7	109.8	110.3	109.4	111.6	111.9	107.1	111.5	114.9	114.1	116.8	116.9
Rubber and plastics products	30	3.5	116.2	137.6	140.7	142.4	142.3	144.2	144.1	138.1	140.6	144.8	137.8	144.3	145.1
Leather and products	31	.3	89.0	76.2	75.6	76.3	75.5	75.0	74.2	75.8	75.7	78.2	71.2	76.1	76.4
Mining		6.9	98.9	100.4	100.5	102.8	101.4	103.8	103.6	99.6	99.2	102.2	99.4	104.0	104.3
Metal mining	10	.5	163.7	158.3	161.6	161.3	168.2	166.7	168.8	160.6	164.3	168.6	167.9	167.5	171.1
Coal mining	12	1.0	108.2	109.5	111.9	113.2	107.1	120.8	120.5	109.9	105.9	111.9	97.1	124.6	122.3
Oil and gas extraction	13	4.8	93.2	93.3	93.2	95.5	94.8	95.4	94.9	92.1	91.8	93.8	93.0	93.9	94.5
Stone and earth minerals	14	.6	99.1	115.6	112.7	118.0	114.6	115.8	116.3	115.6	118.5	124.8	123.2	124.7	125.6
Utilities		7.7	111.9	126.4	128.4	126.6	123.1	125.2	125.7	117.4	114.2	120.2	125.8	125.9	117.5
Electric	491,3pt	6.1	111.7	125.7	128.7	126.7	122.7	125.1	125.6	113.2	118.9	131.3	139.0	139.0	128.6
Gas	492,3pt	1.6	112.7	128.9	127.5	125.8	124.6	125.7	126.3	133.9	95.6	76.5	73.8	74.0	73.5
SPECIAL AGGREGATES															
Manufacturing excluding:															
Motor vehicles and parts		80.6	108.2	125.5	126.3	127.3	127.4	127.8	128.3	123.6	125.1	130.0	127.7	131.7	132.9
Computer and office equipment		83.7	106.3	120.7	121.3	122.3	122.5	122.4	122.6	119.4	120.7	125.2	120.0	125.4	126.8
Memo: Motor vehicle assemblies²															
Total				12.2	12.1	12.4	13.3	12.6	12.1	13.0	13.8	12.8	8.1	12.3	12.2
Autos				6.3	6.4	6.7	7.0	6.7	6.5	6.7	7.3	6.9	4.4	6.5	6.2
Trucks				5.9	5.7	5.7	6.3	5.9	5.7	6.3	6.4	5.9	3.7	5.9	6.0
Light				5.6	5.4	5.4	6.0	5.6	5.4	6.0	6.1	5.6	3.4	5.6	5.7
Heavy and medium				0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

1. Proportion as a share of the value added for the total index.

2. Millions of units at an annual rate.

Note—Primary processing manufacturing includes textile mill products, paper and products, industrial chemicals, synthetic materials, and fertilizers, petroleum products, rubber and plastics products, lumber and products, primary metals, fabricated metals, and stone, clay, and glass products.

Advanced processing manufacturing includes foods, tobacco products, apparel products, printing and publishing, chemical products and other agricultural chemicals, leather and products, furniture and fixtures, industrial machinery and equipment, electrical machinery, transportation equipment, instruments, and miscellaneous manufactures.

Table 2B
INDUSTRIAL PRODUCTION: INDUSTRY GROUPS

Percent change

Item	SIC	1994 Q4 to 1995 Q4	Seasonally adjusted annual rate				Seasonally adjusted				Not seasonally adjusted				Sept. 95 to Sept. 96
			1995 Q4	1996 Q1	Q2 ^r	Q3 ^p	1996 June ^r	July ^r	Aug. ^r	Sept. ^p	1996 June ^r	July ^r	Aug. ^r	Sept. ^p	
Total index		1.6	.6	3.0	6.7	4.4	.8	.0	.4	.2	4.0	-3.0	4.2	.4	3.5
Manufacturing		1.4	1.4	2.4	7.1	5.4	.9	.3	.1	.2	4.0	-3.6	4.5	1.0	3.6
Primary processing		-1.1	.1	-1.4	6.7	3.8	1.0	.0	-.1	.1	3.0	-3.4	2.9	.6	1.7
Advanced processing		2.5	2.0	4.1	7.2	6.0	.9	.5	.2	.3	4.3	-3.7	5.2	1.1	4.4
Durable		3.4	3.6	5.5	10.7	7.4	1.5	.3	.5	.1	3.6	-5.3	5.5	1.4	5.9
Lumber and products	24	-2	4.7	-4.3	17.3	-1.7	2.7	-2.3	.6	-.4	6.3	-6.7	6.7	-.9	2.0
Furniture and fixtures	25	-3.7	-4.8	-2.9	6.7	-1.7	-2	-1.6	.4	-.3	3.1	-2.6	7.6	-.8	-1.0
Stone, clay, and glass products	32	.1	4.8	-1.5	2.5	6.1	.7	2.1	-2.6	.7	2.7	-.9	.9	.2	2.0
Primary metals	33	-1.7	2.1	.1	2.5	.6	2.1	-1.7	1.0	.1	1.6	-5.5	2.8	2.9	-.7
Iron and steel	331,2	-2.4	-.1	4.3	.3	3.5	2.6	-.7	.6	-.2	2.6	-3.9	.8	2.8	-2.5
Raw steel		.7	1.6	-4.9	.7	1.0	2.2	-2.4	1.4	.6	1.8	-5.5	.9	2.8	-2.8
Nonferrous	333-6,9	-.7	5.0	-5.1	5.3	-3.0	1.4	-3.0	1.5	.4	.3	-7.5	5.4	3.0	1.8
Fabricated metal products	34	.9	2.1	6.0	.9	3.8	.5	.0	.4	.0	3.2	-2.3	3.2	.8	2.3
Industrial machinery and equipment	35	12.5	18.8	19.5	14.1	14.8	2.0	.1	2.2	.6	5.1	.2	3.1	.5	16.5
Computer and office equip.	357	36.2	45.0	48.4	45.5	41.0	3.4	3.0	2.7	2.3	8.6	6.3	4.8	-1.5	44.8
Electrical machinery	36	11.9	10.5	7.7	5.9	4.1	1.2	-.2	.1	.3	2.5	-2.8	2.9	1.7	5.9
Transportation equipment	37	-6.2	-13.7	-4.8	30.6	15.1	1.7	3.1	-.7	-.7	3.7	-19.2	18.0	2.7	4.0
Motor vehicles and parts	371	-2.6	-.5	-20.7	46.6	15.3	2.8	3.9	-2.0	-2.3	5.5	-29.6	31.1	2.7	3.1
Autos and light trucks		-2.7	.8	-21.9	56.7	18.1	2.7	7.5	-5.4	-3.4	7.3	-45.5	60.6	4.2	2.7
Aerospace and misc.	372-6,9	-11.8	-31.5	27.8	8.7	14.8	.1	1.8	1.5	2.1	.5	-.6	1.5	2.8	5.4
Instruments	38	.6	-.2	5.7	1.9	.2	1.2	-1.3	.9	.2	4.1	-.9	1.1	1.9	2.0
Miscellaneous	39	.6	2.4	1.2	.0	1.5	1.1	-.3	.2	-1.1	1.6	-4.6	5.1	1.1	.0
Nondurable		-1.0	-1.3	-1.5	2.5	2.8	.2	.4	-.4	.5	4.4	-1.5	3.3	.5	.7
Foods	20	.4	-1.4	1.8	-.3	-1.0	-.4	.5	-1.1	.6	3.9	-.2	3.5	1.6	-.3
Tobacco products	21	-6.1	-19.8	7.7	14.0	-4.8	1.2	-2.3	1.4	1.1	17.1	-25.9	29.6	-1.2	3.2
Textile mill products	22	-5.7	-5.3	-10.4	11.5	8.4	2.2	1.4	-1.2	-.3	4.7	-8.6	7.6	-.7	.3
Apparel products	23	-9.0	-8.9	-10.2	3.4	-3.6	.1	-1.0	-.1	-.3	2.3	-4.9	4.9	-.1	-5.1
Paper and products	26	-3.0	-4.7	-11.1	17.1	2.6	-.1	1.8	-2.3	.9	4.0	-1.6	.8	.1	1.1
Printing and publishing	27	-1.9	-3.0	-5.0	-2.8	1.2	-.5	.1	-.1	.4	4.0	2.6	1.8	.0	-2.2
Chemicals and products	28	2.4	5.9	1.7	1.2	6.1	.3	1.1	-.7	.6	4.5	1.9	.6	.6	3.3
Petroleum products	29	.2	-5.2	7.4	1.1	3.7	.5	-.9	2.0	.3	3.1	-.7	2.4	.0	1.7
Rubber and plastics products	30	-.5	3.0	-.1	1.5	9.8	1.2	-.1	1.4	-.1	3.0	-4.8	4.7	.6	3.1
Leather and products	31	-9.2	-8.5	-8.8	-2.2	-5.8	.9	-1.0	-.7	-1.0	3.3	-8.9	6.8	.4	-7.7
Mining		-1.8	-7.7	1.9	10.5	7.0	2.3	-1.3	2.4	-.2	3.0	-2.7	4.6	.3	3.6
Metal mining	10	8.0	9.6	-29.7	-1.2	20.0	-.2	4.3	-.9	1.2	2.6	-.4	-.2	2.1	-1.2
Coal mining	12	-3.1	-13.9	-4.9	10.8	17.4	1.2	-5.5	12.8	-.2	5.6	-13.2	28.3	-1.8	3.7
Oil and gas extraction	13	-3.0	-8.5	6.4	12.7	4.6	2.5	-.7	.7	-.5	2.2	-.8	1.0	.5	4.2
Stone and earth minerals	14	2.0	-3.1	9.7	3.4	.4	4.7	-2.9	1.1	.4	5.3	-1.3	1.2	.7	2.8
Utilities		6.2	-2.1	8.9	1.3	-7.5	-1.4	-2.7	1.7	.4	5.2	4.6	.1	-6.6	2.5
Electric	491,3pt	5.1	-3.9	9.0	1.9	-7.9	-1.5	-3.2	1.9	.4	10.4	5.8	.0	-7.5	2.3
Gas	492,3pt	10.5	5.3	8.2	-1.2	-5.8	-1.3	-1.0	.8	.5	-20.0	-3.5	.2	-.6	3.2
SPECIAL AGGREGATES															
Manufacturing excluding:															
Motor vehicles and parts		1.7	1.6	4.1	4.9	4.7	.8	.1	.3	.4	3.8	-1.7	3.1	.9	3.6
Computer and office equipment		.3	-.1	.6	5.4	3.7	.8	.2	.0	.1	3.7	-4.2	4.5	1.1	1.9

Note—Percent changes shown in the first and last columns are based on seasonally adjusted data.

Table 3
CAPACITY UTILIZATION: MANUFACTURING, MINING, AND UTILITIES

Percent of capacity, seasonally adjusted

Item	SIC	1995 Proportion	1967- 1995 Ave.	1973 High	1978- 1980 High	1982 Low	1988- 1989 High	1990- 1991 Low	1995 Sept.	1996 Apr.	May	June ^f	July ^f	Aug. ^f	Sept. ^p
Total industry		100.0	82.1	89.2	87.3	71.8	84.9	78.0	83.7	83.0	83.3	83.7	83.4	83.4	83.3
Manufacturing		87.3	81.4	88.9	87.3	70.0	85.2	76.6	82.8	81.9	82.1	82.6	82.5	82.3	82.2
Primary processing		25.2	82.6	92.2	89.7	66.8	89.0	77.9	86.9	85.5	86.1	86.8	86.6	86.3	86.2
Advanced processing		62.1	80.7	87.5	86.3	71.4	83.5	76.1	81.1	80.4	80.5	80.8	80.8	80.7	80.5
Durable		48.8	79.3	88.8	86.9	65.0	84.0	73.7	82.7	82.1	82.1	82.9	82.7	82.6	82.3
Lumber and products	24	1.8	83.3	90.1	87.6	60.9	93.3	76.1	88.4	88.7	88.0	90.2	88.0	88.4	87.9
Furniture and fixtures	25	1.4	81.9	96.8	86.6	68.9	86.8	72.2	83.1	79.9	82.0	81.7	80.2	80.4	80.5
Stone, clay, and glass products	32	2.1	78.0	89.2	87.0	63.1	83.8	71.0	79.2	78.0	78.8	79.2	80.7	78.4	78.8
Primary metals	33	2.9	80.9	100.6	102.4	46.8	92.8	74.2	93.8	91.0	90.3	91.9	90.1	90.7	90.5
Iron and steel	331,2	1.6	80.6	105.8	110.4	38.3	95.7	72.0	95.4	90.8	89.2	91.2	90.3	90.6	90.1
Raw steel		.1	80.2	102.7	95.7	35.2	92.7	71.5	96.5	90.0	89.9	91.7	89.1	90.1	90.4
Nonferrous	333-6,9	1.3	81.7	92.9	90.5	62.2	88.7	75.2	91.7	91.1	91.6	92.7	89.7	90.9	91.1
Primary copper		.1	73.5	92.1	80.8	42.1	85.9	73.6	77.0	86.9	85.8	80.3	89.7	77.9	77.9
Primary aluminum	3334	.1	88.6	95.7	97.6	58.6	100.4	97.3	82.2	85.6	84.9	84.9	84.8	85.8	85.8
Fabricated metal products	34	5.1	77.8	87.8	83.9	62.9	82.0	71.3	84.5	83.8	84.5	84.8	84.6	84.8	84.7
Industrial machinery and equipment	35	9.7	81.2	96.4	92.1	64.9	84.0	71.8	87.2	89.5	89.7	90.6	89.8	90.8	90.5
Computer and office equip.	357	3.2	80.7	90.9	93.5	63.1	84.4	64.5	86.2	93.8	94.4	95.5	96.3	96.8	96.9
Electrical machinery	36	8.8	80.8	87.8	89.4	71.1	84.9	77.0	86.6	82.5	82.1	82.1	81.0	80.1	79.3
Transportation equipment	37	10.3	75.1	83.8	82.7	56.7	84.4	69.7	74.4	74.0	73.9	75.1	77.3	76.7	76.1
Motor vehicles and parts	371	5.8	76.2	93.4	93.0	44.5	85.1	56.6	80.7	79.1	79.1	81.1	83.9	82.0	79.8
Autos and light trucks ¹		2.9			92.2	40.1	89.1	53.3	82.6	83.2	82.9	85.1	91.4	86.3	83.2
Aerospace and misc.	372-6,9	4.5	75.2	77.0	81.1	66.9	88.4	78.8	66.2	67.0	66.9	67.1	68.4	69.5	71.0
Instruments	38	5.3	81.8	89.9	92.5	79.0	81.2	76.8	78.1	78.8	78.4	79.3	78.2	78.9	79.0
Miscellaneous	39	1.5	75.5	82.9	78.7	66.1	80.1	73.0	73.8	72.0	72.0	72.6	72.1	72.1	71.1
Nondurable		38.5	83.5	87.9	87.0	76.9	86.7	80.3	82.9	81.5	82.0	82.0	82.3	81.8	82.1
Foods	20	9.1	82.3	86.0	84.3	78.8	83.3	80.8	82.4	81.6	81.6	81.2	81.5	80.5	80.9
Textile mill products	22	1.7	86.2	92.0	91.7	73.8	92.1	78.8	83.7	80.7	81.0	82.7	83.7	82.6	82.2
Apparel products	23	2.2	80.9	84.2	86.0	78.9	84.2	75.0	74.3	70.6	70.8	70.9	70.2	70.1	69.9
Paper and products	26	3.2	89.8	96.9	94.2	82.0	94.8	86.7	89.0	87.7	88.0	87.7	89.1	86.8	87.4
Pulp and paper	261-3	1.3	92.4	97.1	98.2	82.1	98.1	90.1	91.3	91.2	91.5	89.8	93.6	92.0	90.7
Printing and publishing	27	6.3	86.1	89.7	92.2	83.0	92.3	79.0	81.0	78.4	79.5	79.1	79.2	79.2	79.6
Chemicals and products	28	9.9	79.8	87.9	85.1	70.1	85.9	79.0	80.4	79.7	80.6	80.7	81.3	80.6	81.0
Plastics materials	2821	.7	86.2	102.0	90.9	63.4	97.0	74.8	88.7	93.4	94.5	95.8	94.7		
Synthetic fibers	2823,4	.4	85.2	93.8	98.5	64.4	99.7	77.6	88.2	83.0	86.2	88.0	91.1	87.5	
Petroleum products	29	1.2	86.0	96.7	89.5	68.2	88.5	84.6	94.5	93.8	93.8	94.2	93.3	95.1	95.3
Rubber and plastics products	30	3.4	84.5	94.0	90.4	73.5	90.5	78.0	90.7	87.7	89.4	90.3	90.0	91.0	90.7
Leather and products	31	.2	82.3	81.3	92.4	78.1	83.8	76.0	81.1	78.0	77.5	78.4	77.7	77.3	76.7
Mining		5.7	87.4	94.4	96.6	80.6	86.5	86.1	89.3	89.7	89.8	91.9	90.7	92.9	92.7
Metal mining	10	.4	78.7	90.3	87.6	43.4	87.9	80.0	87.9	81.0	82.7	82.5	85.9	85.1	86.1
Coal mining	12	.9	86.9	90.8	95.7	75.4	91.4	83.4	87.7	82.2	83.9	84.8	80.1	90.3	90.0
Oil and gas extraction	13	3.9	88.2	96.6	96.9	82.5	86.1	86.8	89.5	92.1	92.0	94.4	93.8	94.5	94.1
Oil and gas well drilling	138	.6	72.6	93.0	104.3	50.8	60.7	53.7	73.1	84.4	87.8	86.3	83.7	84.6	81.6
Stone and earth minerals	14	.5	84.6	93.7	93.3	63.3	90.0	79.4	91.0	91.6	89.1	93.1	90.2	91.0	91.2
Utilities		6.9	86.9	95.6	88.3	76.2	92.6	83.1	90.7	92.7	94.1	92.6	90.0	91.4	91.6
Electric	491,3pt	5.4	89.0	99.0	88.3	78.7	94.8	86.7	92.5	94.0	96.1	94.5	91.4	93.0	93.3
Gas	492,3pt	1.5	82.5	93.2	93.6	70.8	85.5	68.3	84.0	88.0	87.0	85.8	84.9	85.5	85.8

1. Series begins in 1977.

Note—Primary processing manufacturing includes textile mill products, paper and products, industrial chemicals, synthetic materials, and fertilizers, petroleum products, rubber and plastic products, lumber and products, primary metals, fabricated metals, and stone, clay, and glass products. Advanced processing manufacturing includes foods, tobacco products, apparel products, printing and publishing, chemical products and other agricultural chemicals, leather and products, furniture and fixtures, industrial machinery and equipment, electrical machinery, transportation equipment, instruments, and miscellaneous manufactures.

**Table 4
INDUSTRIAL CAPACITY: MANUFACTURING, MINING, AND UTILITIES**

Item	SIC	Percent change								Capacity indexes Percent of 1987 output						
		Annual rate			December to December					1995 Sept.	1996					
		1967- 1995 Ave.	1967- 1975 Ave.	1975- 1995 Ave.	1992	1993	1994	1995	1996 ^p		Apr.	May	June	July	Aug.	Sept.
Total industry		2.9	3.7	2.5	2.1	2.1	3.2	3.8	4.0	146.8	150.1	150.6	151.0	151.5	152.0	152.5
Manufacturing		3.3	3.9	3.0	2.5	2.5	3.6	4.3	4.5	150.8	154.6	155.1	155.7	156.3	156.8	157.4
Primary processing		2.2	4.0	1.4	1.4	1.5	2.2	2.6	2.4	135.5	137.5	137.7	138.0	138.3	138.6	138.9
Advanced processing		3.8	3.9	3.8	2.9	2.9	4.2	4.9	5.3	158.1	162.8	163.5	164.2	164.9	165.6	166.3
Durable		3.6	3.7	3.6	2.5	3.1	4.8	6.1	6.6	162.5	168.5	169.4	170.3	171.2	172.1	173.1
Lumber and products	24	1.7	2.9	1.3	.7	1.2	.8	3.5	2.3	120.1	122.2	122.4	122.6	122.9	123.1	123.3
Furniture and fixtures	25	3.0	4.5	2.3	1.0	1.9	1.9	1.7	2.4	134.7	136.4	136.6	136.9	137.2	137.5	137.8
Stone, clay, and glass products	32	1.3	2.5	.8	.7	.2	1.0	1.8	2.8	131.1	132.9	133.2	133.5	133.8	134.1	134.4
Primary metals	33	.0	1.7	-.7	-1.2	-.2	2.0	2.1	3.2	129.0	131.0	131.4	131.7	132.1	132.4	132.8
Iron and steel	331,2	-.7	.7	-1.4	-2.4	-.8	3.1	1.8	3.8	133.1	135.3	135.7	136.2	136.6	137.0	137.5
Raw steel		-1.1	.3	-1.7	-3.1	-4.3	1.4	3.3	4.0	122.8	125.4	125.9	126.3	126.7	127.1	127.5
Nonferrous	333-6,9	1.3	3.6	.4	.4	.5	.6	2.4	2.4	123.5	125.3	125.5	125.8	126.1	126.3	126.6
Primary copper	3331	.3	1.8	-.4	7.8	5.0	-1.2	2.5	-.9	159.1	159.9	159.8	159.6	159.5	159.4	159.2
Primary aluminum	3334	1.3	5.2	-.4	.3	.5	.0	.0	.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0
Fabricated metal products	34	1.6	3.1	1.0	.4	1.1	1.9	2.2	2.0	136.2	137.8	138.1	138.3	138.5	138.8	139.0
Industrial machinery and equipment	35	6.7	4.7	7.6	4.0	6.0	9.0	11.6	12.5	208.0	222.3	224.4	226.6	228.9	231.2	233.5
Computer and office equip.	357	20.7	12.0	24.8	14.0	19.1	25.5	26.9	29.5	452.5	523.3	534.7	546.4	558.3	570.5	582.9
Electrical machinery	36	5.9	6.1	5.9	6.5	7.4	9.9	15.2	15.6	208.8	227.1	229.9	232.6	235.5	238.3	241.3
Transportation equipment	37	2.6	3.0	2.5	2.1	1.9	3.5	2.0	1.5	153.4	154.9	155.1	155.3	155.5	155.7	155.9
Motor vehicles and parts	371	3.4	4.5	2.9	3.8	4.6	6.8	5.5	3.8	177.6	182.4	182.9	183.5	184.0	184.6	185.2
Autos and light trucks ¹					2.5	2.7	6.1	2.9	1.6	160.8	162.9	163.1	163.3	163.5	163.7	164.0
Aerospace and misc.	372-6,9	1.7	1.3	1.9	.3	-.9	-.2	-2.4	-1.7	129.8	128.3	128.1	127.9	127.7	127.6	127.4
Instruments	38	4.8	7.6	3.6	1.3	.9	.9	.9	1.0	142.4	143.2	143.3	143.4	143.6	143.7	143.8
Miscellaneous	39	2.5	4.4	1.6	5.0	3.6	3.9	4.0	3.8	166.6	170.4	170.9	171.5	172.0	172.5	173.1
Nondurable		2.9	4.3	2.2	2.4	1.7	2.2	1.9	1.6	138.0	139.4	139.6	139.7	139.9	140.1	140.3
Foods	20	2.5	3.0	2.3	2.2	2.1	2.0	1.7	1.6	140.1	141.4	141.6	141.8	142.0	142.2	142.4
Textile mill products	22	2.3	4.3	1.4	2.6	3.4	3.1	3.7	1.7	132.0	134.1	134.2	134.4	134.6	134.8	134.9
Apparel products	23	1.5	2.3	1.1	2.4	2.5	.9	2.3	.3	127.1	128.1	128.1	128.1	128.2	128.2	128.2
Paper and products	26	2.8	3.9	2.3	2.2	2.2	2.1	3.3	2.8	133.2	135.5	135.8	136.2	136.5	136.8	137.1
Pulp and paper	261-3	2.4	3.0	2.1	2.2	1.7	1.4	3.3	2.2	127.9	129.9	130.2	130.4	130.6	130.9	131.1
Printing and publishing	27	2.9	3.0	2.8	1.0	-1.0	1.8	-.2	-.6	123.2	122.9	122.8	122.8	122.7	122.7	122.6
Chemicals and products	28	3.8	6.8	2.5	4.1	2.5	2.2	2.4	2.6	155.9	158.2	158.5	158.9	159.2	159.5	159.9
Plastics materials	2821	6.5	12.7	3.8	1.1	.4	3.3	5.0	3.7	136.0	139.4	139.9	140.3	140.7	141.1	141.5
Synthetic fibers	2823,4	4.2	9.7	1.8	5.0	1.5	3.6	3.5	2.4	136.9	139.2	139.4	139.7	140.0	140.2	140.5
Petroleum products	29	1.5	4.2	.3	-1.3	-.5	.3	.6	-.9	116.5	117.0	117.1	117.1	117.2	117.3	117.4
Rubber and plastics products	30	5.5	8.6	4.1	4.2	4.1	4.7	3.3	3.1	154.1	157.0	157.4	157.8	158.2	158.6	159.0
Leather and products	31	-3.3	-1.5	-4.1	-2.6	-2.2	-2.6	-2.8	-2.4	99.2	97.7	97.5	97.3	97.2	97.0	96.8
Mining		.0	-.1	.1	-1.2	-.9	-.1	-.1	-.1	111.9	111.8	111.8	111.8	111.8	111.8	111.8
Metal mining	10	1.4	.7	1.6	2.5	1.6	-.6	1.1	-.9	194.2	195.3	195.5	195.6	195.8	195.9	196.1
Coal mining	12	2.4	2.5	2.4	.9	1.1	1.1	1.1	1.1	132.4	133.3	133.4	133.5	133.6	133.7	133.9
Oil and gas extraction	13	-.6	-1.0	-.4	-2.3	-1.9	-.5	-.9	-.9	101.9	101.3	101.2	101.2	101.1	101.0	100.9
Oil and gas well drilling	138	.3	.8	.1	-8.2	-6.2	-1.0	-2.4	-2.5	120.9	119.1	118.9	118.6	118.4	118.1	117.9
Stone and earth minerals	14	1.0	2.6	.3	.6	.9	1.6	3.1	2.4	124.3	126.3	126.5	126.8	127.0	127.3	127.5
Utilities		2.8	6.0	1.4	1.2	.5	.5	1.1	1.5	135.3	136.3	136.5	136.7	136.8	137.0	137.2
Electric	491,3pt	3.9	7.8	2.2	1.5	.6	.4	1.2	1.6	132.7	133.8	133.9	134.1	134.3	134.5	134.6
Gas	492,3pt	.3	2.3	-.6	.0	.2	.5	.7	1.1	145.7	146.5	146.6	146.7	146.9	147.0	147.1

p. Preliminary estimate for current year.
1. Series begins in 1977.

Table 5A
INDUSTRIAL PRODUCTION, CAPACITY AND UTILIZATION FOR TOTAL INDUSTRY: HISTORICAL DATA

Seasonally adjusted

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
Industrial Production, Percent Change¹																	
1984	2.0	-.1	1.0	.6	.7	.5	.4	.1	-.1	-.7	.0	-.6	11.2	7.7	4.0	-3.4	9.3
1985	.4	.7	.3	.4	.2	-.3	-.3	.5	.5	-.8	.4	1.0	2.4	3.8	.1	1.2	1.7
1986	.5	-.7	-.9	.2	.0	-.5	.5	.2	.1	.7	.7	.6	2.4	-3.4	1.3	5.8	.9
1987	-.3	1.4	.4	.5	.6	.9	.4	.3	-.2	1.3	.1	.7	5.5	8.1	5.2	6.5	4.9
1988	.3	.2	.0	.8	-.3	.0	.6	.6	-.5	.3	.6	.6	3.8	3.0	2.9	3.0	4.4
1989	.3	-.5	.9	.0	-.3	-.3	-1.0	.5	-.4	-.4	.4	.7	3.9	.3	-4.4	-.2	1.5
1990	-.5	.5	.3	-.7	.7	.2	-.2	.3	.0	-.5	-1.3	-.4	2.1	1.1	1.6	-5.2	.0
1991	-.5	-1.0	-.8	.3	.8	1.1	.2	.3	.8	.1	-.1	-.5	-8.4	1.1	6.7	2.0	-1.8
1992	-.1	.6	.9	.7	.5	-.3	.8	-.2	.2	.7	.6	.2	.8	7.0	3.1	4.9	3.4
1993	.3	.4	.0	.2	-.5	.2	.6	.0	.7	.1	.7	.9	3.7	.5	3.2	5.5	3.5
1994	.4	.8	.8	.3	.5	.5	.2	.5	.1	.7	.5	.8	8.4	7.0	4.6	6.4	5.9
1995	.3	-.1	.1	-.4	.0	.1	.1	1.0	.1	-.5	.3	.2	3.9	-1.4	3.2	.6	3.2
1996	-.2	1.3	-.5	.8	.7	.8	.0	.4	.2				3.0	6.7	4.4		
Industrial Production																	
1984	91.0	90.9	91.9	92.4	93.0	93.5	93.9	94.0	93.9	93.2	93.3	92.8	91.3	93.0	93.9	93.1	92.8
1985	93.1	93.8	94.1	94.5	94.7	94.4	94.1	94.5	95.0	94.2	94.6	95.6	93.6	94.5	94.6	94.8	94.4
1986	96.1	95.5	94.6	94.8	94.7	94.3	94.8	94.9	95.0	95.6	96.3	96.8	95.4	94.6	94.9	96.2	95.3
1987	96.5	97.9	98.2	98.8	99.4	100.3	100.6	100.9	100.7	102.1	102.2	102.8	97.5	99.5	100.8	102.3	100.0
1988	103.2	103.4	103.4	104.3	104.0	104.0	104.6	105.2	104.7	105.0	105.6	106.3	103.3	104.1	104.8	105.6	104.4
1989	106.6	106.2	107.1	107.1	106.7	106.4	105.3	105.8	105.4	105.0	105.4	106.1	106.6	106.7	105.5	105.5	106.0
1990	105.5	106.1	106.4	105.7	106.5	106.7	106.5	106.8	106.8	106.3	105.0	104.5	106.0	106.3	106.7	105.3	106.0
1991	104.0	102.9	102.1	102.4	103.2	104.3	104.5	104.8	105.7	105.8	105.6	105.1	103.0	103.3	105.0	105.5	104.2
1992	105.0	105.6	106.5	107.3	107.8	107.5	108.4	108.2	108.4	109.2	109.8	110.0	105.7	107.5	108.3	109.7	107.7
1993	110.4	110.8	110.8	111.1	110.6	110.8	111.4	111.4	112.2	112.3	113.1	114.1	110.7	110.8	111.7	113.2	111.5
1994	114.6	115.5	116.4	116.8	117.5	118.1	118.4	118.9	119.1	119.9	120.5	121.5	115.5	117.5	118.8	120.6	118.1
1995	121.8	121.7	121.9	121.4	121.3	121.4	121.5	122.7	122.8	122.2	122.6	122.8	121.8	121.4	122.3	122.5	121.9
1996	122.5	124.2	123.6	124.5	125.4	126.4	126.4	126.8	127.1				123.4	125.4	126.8		
Capacity																	
1984	113.3	113.5	113.7	113.9	114.2	114.4	114.6	114.8	115.0	115.3	115.5	115.7	113.5	114.2	114.8	115.5	114.5
1985	116.0	116.2	116.5	116.8	117.1	117.3	117.6	117.9	118.2	118.4	118.7	119.0	116.2	117.1	117.9	118.7	117.5
1986	119.2	119.4	119.6	119.8	120.0	120.2	120.4	120.6	120.8	121.0	121.2	121.4	119.4	120.0	120.6	121.2	120.3
1987	121.6	121.8	122.0	122.2	122.4	122.6	122.8	123.0	123.2	123.4	123.6	123.8	121.8	122.4	123.0	123.6	122.7
1988	123.9	124.1	124.2	124.4	124.5	124.7	124.8	125.0	125.1	125.3	125.4	125.5	124.1	124.5	125.0	125.4	124.7
1989	125.7	125.9	126.1	126.3	126.5	126.7	126.9	127.1	127.3	127.5	127.7	127.9	125.9	126.5	127.1	127.7	126.8
1990	128.1	128.3	128.5	128.7	128.9	129.1	129.3	129.5	129.7	129.9	130.1	130.3	128.3	128.9	129.5	130.1	129.2
1991	130.5	130.7	130.9	131.1	131.3	131.5	131.7	131.9	132.1	132.3	132.5	132.7	130.7	131.3	131.9	132.5	131.6
1992	132.9	133.2	133.4	133.6	133.9	134.1	134.3	134.6	134.8	135.1	135.3	135.5	133.2	133.9	134.6	135.3	134.2
1993	135.8	136.0	136.3	136.5	136.7	137.0	137.2	137.5	137.7	137.9	138.2	138.4	136.0	136.7	137.5	138.2	137.1
1994	138.7	139.1	139.5	139.8	140.2	140.5	140.9	141.3	141.7	142.0	142.4	142.8	139.1	140.2	141.3	142.4	140.8
1995	143.2	143.6	144.1	144.5	145.0	145.4	145.9	146.3	146.8	147.2	147.7	148.2	143.6	145.0	146.3	147.7	145.7
1996	148.7	149.1	149.6	150.1	150.6	151.0	151.5	152.0	152.5				149.1	150.6	152.0		
Utilization																	
1984	80.4	80.1	80.8	81.1	81.5	81.8	81.9	81.8	81.6	80.9	80.8	80.2	80.4	81.4	81.8	80.6	81.1
1985	80.3	80.7	80.7	80.9	80.9	80.5	80.0	80.2	80.4	79.6	79.7	80.4	80.6	80.7	80.2	79.9	80.3
1986	80.6	79.9	79.1	79.1	78.9	78.4	78.7	78.7	78.7	79.1	79.4	79.8	79.9	78.8	78.7	79.4	79.2
1987	79.3	80.3	80.5	80.8	81.2	81.8	81.9	82.0	81.8	82.7	82.7	83.1	80.1	81.3	81.9	82.8	81.5
1988	83.2	83.3	83.2	83.8	83.5	83.4	83.8	84.2	83.7	83.8	84.2	84.6	83.3	83.6	83.9	84.2	83.7
1989	84.8	84.3	84.9	84.8	84.3	83.9	83.0	83.3	82.8	82.3	82.5	82.9	84.7	84.3	83.0	82.6	83.7
1990	82.4	82.7	82.8	82.1	82.6	82.6	82.4	82.5	82.4	81.8	80.7	80.2	82.6	82.5	82.4	80.9	82.1
1991	79.7	78.7	78.0	78.1	78.6	79.3	79.4	79.4	80.0	79.9	79.7	79.2	78.8	78.7	79.6	79.6	79.2
1992	78.9	79.3	79.9	80.3	80.5	80.2	80.7	80.4	80.4	80.8	81.2	81.2	79.4	80.3	80.5	81.0	80.3
1993	81.3	81.5	81.4	81.4	80.9	80.9	81.2	81.1	81.5	81.4	81.8	82.4	81.4	81.0	81.2	81.9	81.4
1994	82.6	83.0	83.5	83.6	83.8	84.0	84.0	84.2	84.0	84.4	84.6	85.1	83.0	83.8	84.1	84.7	83.9
1995	85.1	84.7	84.6	84.0	83.7	83.5	83.3	83.9	83.7	83.0	83.0	82.9	84.8	83.7	83.6	82.9	83.8
1996	82.4	83.3	82.6	83.0	83.3	83.7	83.4	83.4	83.3				82.8	83.3	83.4		

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

Table 5B
INDUSTRIAL PRODUCTION, CAPACITY AND UTILIZATION FOR MANUFACTURING: HISTORICAL DATA

Seasonally adjusted

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Q1	Q2	Q3	Q4	Annual
Industrial Production, Percent Change¹																	
1984	2.3	.6	.9	.4	.5	.6	.4	.2	-.1	.0	.0	-.4	13.3	6.9	4.7	-.3	10.4
1985	.1	.6	.7	.3	.6	-.5	-.2	.8	.2	-.7	1.3	.1	1.7	5.1	1.0	2.4	2.6
1986	1.3	-.4	-1.0	.9	.0	-.3	.6	.5	.3	.7	.5	1.0	4.6	.1	3.5	7.2	2.9
1987	-.6	1.7	.5	.4	.7	.9	.4	.0	.2	1.0	.4	.6	6.3	8.6	5.6	6.8	6.0
1988	.2	.1	.2	.7	-.1	.0	.5	.4	.0	.1	.9	.6	3.6	3.3	3.0	4.4	4.7
1989	.8	-.9	.6	.2	-.5	-.2	-1.2	.4	-.4	-.5	.3	.2	4.3	-.3	-5.3	-1.3	1.6
1990	-.1	.9	.4	-.9	.5	.0	-.3	.5	-.1	-.6	-1.2	-.5	3.7	.2	1.0	-5.5	-.3
1991	-.9	-.9	-.9	.3	.7	1.3	.3	.3	1.0	.1	-.2	-.4	-9.8	1.0	8.1	2.5	-2.1
1992	.1	.8	.9	.6	.6	.0	.8	-.1	.1	.6	.6	.0	2.3	7.6	3.8	4.3	4.2
1993	.8	.3	.0	.4	-.4	.0	.6	-.1	.9	.0	.8	1.1	4.6	1.2	3.0	6.0	3.9
1994	.2	.9	1.0	.6	.6	.3	.4	.6	.2	.9	.6	.9	8.9	8.5	5.1	7.9	6.6
1995	.3	-.2	.1	-.4	-.3	.1	.0	.7	.6	-.4	.1	.3	3.9	-2.2	2.6	1.4	3.4
1996	-.2	1.4	-.9	1.1	.7	.9	.3	.1	.2				2.4	7.1	5.4		
Industrial Production																	
1984	87.1	87.6	88.3	88.7	89.1	89.7	90.1	90.3	90.2	90.2	90.2	89.8	87.7	89.2	90.2	90.1	89.3
1985	89.9	90.4	91.1	91.4	92.0	91.5	91.3	92.0	92.3	91.6	92.8	92.8	90.5	91.6	91.9	92.4	91.6
1986	94.0	93.6	92.7	93.5	93.6	93.3	93.9	94.4	94.6	95.3	95.8	96.7	93.5	93.5	94.3	95.9	94.3
1987	96.2	97.8	98.3	98.7	99.4	100.3	100.7	100.7	100.9	102.0	102.4	103.0	97.4	99.4	100.8	102.5	100.0
1988	103.2	103.4	103.6	104.3	104.2	104.2	104.7	105.1	105.2	105.3	106.2	106.8	103.4	104.2	105.0	106.1	104.7
1989	107.7	106.7	107.3	107.6	107.1	106.8	105.5	106.0	105.6	105.1	105.4	105.6	107.2	107.2	105.7	105.4	106.4
1990	105.5	106.5	107.0	106.0	106.6	106.6	106.3	106.9	106.8	106.2	104.9	104.4	106.3	106.4	106.6	105.1	106.1
1991	103.4	102.5	101.5	101.8	102.5	103.8	104.2	104.5	105.6	105.7	105.5	105.1	102.5	102.7	104.8	105.4	103.8
1992	105.1	105.9	106.9	107.6	108.2	108.1	109.0	108.9	109.0	109.7	110.4	110.3	106.0	108.0	109.0	110.1	108.2
1993	111.2	111.5	111.5	112.0	111.6	111.6	112.3	112.2	113.2	113.2	114.1	115.3	111.4	111.7	112.5	114.2	112.3
1994	115.5	116.6	117.8	118.5	119.1	119.5	120.0	120.7	120.9	122.0	122.7	123.8	116.6	119.0	120.5	122.8	119.7
1995	124.1	123.9	124.0	123.5	123.2	123.3	123.3	124.2	124.9	124.4	124.5	124.8	124.0	123.3	124.1	124.6	123.9
1996	124.5	126.2	125.2	126.5	127.4	128.5	129.0	129.1	129.4				125.3	127.5	129.2		
Capacity																	
1984	109.4	109.7	110.0	110.3	110.6	110.9	111.2	111.5	111.8	112.1	112.4	112.7	109.7	110.6	111.5	112.4	111.1
1985	113.1	113.4	113.8	114.2	114.6	115.0	115.3	115.7	116.1	116.5	116.9	117.2	113.4	114.6	115.7	116.9	115.2
1986	117.6	117.9	118.2	118.5	118.8	119.1	119.3	119.6	119.9	120.2	120.5	120.8	117.9	118.8	119.6	120.5	119.2
1987	121.2	121.5	121.7	121.9	122.2	122.4	122.7	122.9	123.2	123.4	123.7	123.9	121.5	122.2	122.9	123.7	122.6
1988	124.1	124.3	124.5	124.7	124.9	125.1	125.3	125.5	125.7	125.9	126.0	126.2	124.3	124.9	125.5	126.0	125.2
1989	126.5	126.7	127.0	127.2	127.4	127.7	127.9	128.2	128.4	128.7	128.9	129.2	126.7	127.4	128.2	128.9	127.8
1990	129.4	129.6	129.8	130.1	130.3	130.5	130.7	130.9	131.2	131.4	131.6	131.8	129.6	130.3	130.9	131.6	130.6
1991	132.0	132.2	132.5	132.7	132.9	133.1	133.3	133.5	133.7	133.9	134.2	134.4	132.2	132.9	133.5	134.2	133.2
1992	134.6	134.9	135.2	135.5	135.7	136.0	136.3	136.6	136.8	137.1	137.4	137.7	134.9	135.7	136.6	137.4	136.1
1993	138.0	138.2	138.5	138.8	139.1	139.4	139.7	139.9	140.2	140.5	140.8	141.1	138.2	139.1	139.9	140.8	139.5
1994	141.5	141.9	142.3	142.7	143.1	143.6	144.0	144.4	144.9	145.3	145.7	146.2	141.9	143.1	144.4	145.7	143.8
1995	146.7	147.2	147.7	148.2	148.7	149.2	149.7	150.2	150.8	151.3	151.9	152.4	147.2	148.7	150.2	151.9	149.5
1996	153.0	153.5	154.0	154.6	155.1	155.7	156.3	156.8	157.4				153.5	155.1	156.8		
Utilization																	
1984	79.6	79.9	80.3	80.4	80.6	80.9	81.0	80.9	80.7	80.5	80.3	79.7	79.9	80.6	80.9	80.2	80.4
1985	79.5	79.7	80.0	80.0	80.3	79.6	79.2	79.5	79.5	78.6	79.4	79.2	79.8	80.0	79.4	79.1	79.5
1986	80.0	79.4	78.5	79.0	78.8	78.4	78.7	78.9	78.9	79.3	79.5	80.0	79.3	78.7	78.8	79.6	79.1
1987	79.3	80.5	80.7	80.9	81.3	81.9	82.1	81.9	81.9	82.6	82.8	83.1	80.2	81.4	82.0	82.8	81.6
1988	83.2	83.1	83.2	83.6	83.4	83.3	83.6	83.8	83.7	83.7	84.3	84.6	83.2	83.5	83.7	84.2	83.6
1989	85.2	84.2	84.6	84.6	84.0	83.7	82.5	82.7	82.2	81.7	81.8	81.8	84.6	84.1	82.5	81.7	83.2
1990	81.6	82.2	82.4	81.5	81.8	81.7	81.3	81.6	81.4	80.8	79.7	79.2	82.0	81.7	81.4	79.9	81.3
1991	78.3	77.5	76.6	76.8	77.2	78.0	78.2	78.3	78.9	78.9	78.6	78.2	77.5	77.3	78.5	78.6	78.0
1992	78.1	78.5	79.1	79.4	79.7	79.5	80.0	79.8	79.7	80.0	80.3	80.1	78.6	79.6	79.8	80.2	79.5
1993	80.6	80.6	80.5	80.7	80.2	80.0	80.4	80.2	80.7	80.6	81.0	81.7	80.6	80.3	80.4	81.1	80.6
1994	81.7	82.2	82.8	83.0	83.2	83.2	83.3	83.6	83.5	83.9	84.2	84.7	82.2	83.2	83.4	84.3	83.3
1995	84.6	84.2	84.0	83.4	82.8	82.7	82.4	82.7	82.8	82.2	82.0	81.9	84.3	83.0	82.6	82.0	83.0
1996	81.4	82.3	81.3	81.9	82.1	82.6	82.5	82.3	82.2				81.6	82.2	82.4		

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

**Table 6
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES**

Item	SIC	Index, 1987 = 100													
		1992		Seasonally adjusted						Not seasonally adjusted					
		Value added ¹	Index	1996 Mar.	Apr.	May	June ^f	July ^f	Aug. ^f	1996 Mar.	Apr.	May	June ^f	July ^f	Aug. ^f
Metal mining	10	.46	163.7	166.1	158.3	161.6	161.3	168.2	166.7	166.5	160.6	164.3	168.6	167.9	167.5
Iron ore	101	.06	116.3	123.2	124.1	125.3	120.8	135.7	139.9	118.7	117.4	132.9	131.5	140.0	143.2
Nonferrous ores	102-4,8,9	.40	173.2	174.7	165.1	168.6	169.6	174.3	171.9	176.0	169.1	170.3	175.8	173.1	172.0
Copper	102	.13	141.9	159.6	139.3	140.1	149.1	139.7	134.5	155.7	141.1	138.5	151.5	138.5	136.8
Coal mining	12	1.03	108.2	114.8	109.5	111.9	113.2	107.1	120.8	120.5	109.9	105.9	111.9	97.1	124.6
Oil and gas extraction	13	4.79	93.2	92.6	93.3	93.2	95.5	94.8	95.4	91.9	92.1	91.8	93.8	93.0	93.9
Crude oil and natural gas	131	3.99	93.8	90.2	90.3	89.6	92.5	92.1	92.7	90.5	90.2	89.3	91.4	90.3	90.8
Crude oil, total		2.31	85.9	76.8	76.9	76.1	77.5	76.3	76.6	77.2	76.6	76.0	76.9	75.0	75.6
Natural gas		1.67	107.5	113.4	113.4	113.1	118.6	119.5	118.8	113.8	113.8	112.4	116.7	116.8	
Natural gas liquids	132	.25	109.4	117.4	119.4	117.2	119.4	119.2	119.6	117.0	119.2	117.6	119.4	119.3	120.1
Oil and gas well drilling	138	.55	79.9	96.3	100.6	104.3	102.3	99.1	99.9	87.6	91.0	94.1	95.4	97.0	100.7
Stone and earth minerals	14	.58	99.1	117.4	115.6	112.7	118.0	114.6	115.8	108.2	115.6	118.5	124.8	123.2	124.7
Foods	20	9.42	106.9	115.6	115.4	115.6	115.1	115.7	114.5	110.6	111.0	113.5	118.0	117.7	121.8
Meat products	201	1.14	114.5	131.2	133.3	131.0	127.7	127.4	126.7	128.5	129.9	128.7	132.4	123.7	130.4
Beef		.44	97.8	111.7	116.3	113.9	111.6	106.6	107.1	106.2	110.0	113.0	119.2	107.6	113.1
Pork		.28	119.7	118.8	124.4	119.6	112.8	120.7	118.2	121.3	124.0	113.4	107.5	107.4	114.1
Poultry		.41	132.9	167.4	163.3	163.1	160.7	161.1	159.9	164.4	161.7	161.9	169.0	157.9	166.2
Miscellaneous meats		.01	88.2	88.0	83.4	83.6	86.6	89.7	88.5	97.7	86.7	79.8	84.6	81.4	85.1
Dairy products	202	.96	103.3	112.1	111.9	110.1	108.7	108.3	107.3	116.2	120.1	119.9	118.7	110.0	104.9
Butter	2021	.01	101.1	91.3	83.9	80.5	75.1	78.3	81.4	102.6	95.7	85.7	68.9	61.2	61.5
Cheese	2022	.27	122.2	141.7	141.7	140.4	136.6	135.0	137.5	145.0	144.1	145.0	142.1	130.7	132.5
Concentrated milk	2023	.20	102.8	114.4	114.5	107.7	103.9	105.4	99.7	122.4	135.0	130.4	118.5	103.2	87.4
Frozen desserts	2024	.13	121.4	122.1	122.8	127.9	136.5	129.5	126.2	127.4	136.0	144.7	173.1	158.9	145.7
Milk and misc. dairy products	2026	.36	90.2	94.4	93.9	92.4	91.0	91.9	92.0	96.6	97.9	97.2	94.8	92.3	90.5
Canned and frozen food	203	1.37	107.9	114.8	111.1	109.6	109.0	112.3	109.2	102.7	99.9	102.9	107.1	113.8	128.4
Grain mill products	204	1.26	109.3	114.6	117.7	117.8	116.4	120.1	117.0	113.4	114.1	114.4	116.0	118.1	120.3
Bakery products	205	1.07	93.2	95.2	92.9	93.0	95.6	95.4	94.8	88.4	88.4	90.6	99.9	103.8	104.9
Sugar and confectionery	206	.66	111.0	122.2	119.0	123.4	119.5	115.2	117.1	113.4	103.4	105.6	107.2	104.2	115.3
Fats and oils	207	.23	110.1	110.1	113.9	113.1	113.0	115.6	113.7	113.8	113.5	109.3	109.0	106.2	107.3
Beverages	208	1.75	109.2	118.2	117.3	119.9	120.2	119.8	118.3	113.7	115.6	123.1	129.8	127.3	128.7
Beer and ale	2082,3	.62	115.2	117.4	117.8	118.1	118.9			118.3	123.6	133.9	134.6		
Soft drinks	2086,7	.89	109.1	122.8	121.1	125.4	125.1	125.3	124.2	112.3	115.1	122.6	132.9	140.3	141.3
Coffee and miscellaneous	209	.98	106.3	121.6	124.5	126.8	127.3	127.1	127.4	111.3	115.6	120.7	128.4	134.6	137.9
Roasted coffee	2095	.16	91.2	96.2	103.2	101.5	101.3	100.5		80.6	90.4	92.8	88.8	91.9	
Tobacco products	21	1.63	95.8	92.6	94.6	91.9	93.0	90.8	92.1	94.3	89.5	87.3	102.2	75.8	98.2
Textile mill products	22	1.79	104.0	109.0	108.2	108.8	111.1	112.7	111.3	109.2	111.2	111.7	116.9	106.9	115.0
Fabrics	221-4	.48	99.4	100.4	104.5	105.2	104.1	108.0	107.2	104.2	107.0	109.1	105.3	98.0	109.1
Cotton and synthetic	221,2	.39	99.0	100.5	106.0	106.5	105.1	110.3		104.2	107.8	110.2	105.5	98.9	
Narrow fabrics	224	.04	103.5	104.9	101.4	105.1	105.1	101.0	104.0	103.1	100.7	105.3	108.5	96.8	105.9
Knit goods	225	.48	116.7	122.8	122.5	124.6	122.2	126.9	124.2	116.4	122.5	127.7	138.3	128.7	133.4
Knit garments	2253,4,7-9	.35	116.7	129.4	128.8	131.7	126.4	132.5	128.6	121.4	123.1	133.3	141.5	137.7	146.8
Fabric finishing	226	.17	95.2	87.0	93.2	93.4	89.8	96.0	94.3	88.6	94.7	96.9	89.8	85.2	97.3
Carpeting	227	.21	97.0	113.3	96.8	90.7	113.3	105.3	99.2	110.2	110.4	90.7	122.4	98.6	100.9
Yarns and miscellaneous	228,9	.45	103.5	111.7	110.1	112.4	115.0	114.3	116.1	114.7	111.5	114.8	117.0	108.1	117.4
Cotton and synthetic yarns	2281,2,4	.24	100.6	103.3	103.2	103.9	109.5	108.0	108.4	108.7	106.9	109.6	111.2	100.0	111.4
Apparel products	23	2.19	95.0	89.7	90.4	90.8	90.9	90.0	89.9	88.9	88.2	90.6	92.7	88.2	92.5
Lumber and products	24	1.99	95.2	107.5	108.4	107.7	110.6	108.1	108.8	106.5	107.4	107.2	113.9	106.3	113.4
Logging and lumber	241,2	.84	95.2	99.9	98.9	96.9	99.8	96.0	96.5	98.1	94.9	94.4	102.7	94.7	101.4
Logging	241	.31	85.0	83.8	87.1	83.3	85.2	81.3	79.5	78.4	75.7	79.6	86.6	85.5	88.7
Lumber products	243-5,9	1.16	95.2	113.1	115.3	115.5	118.4	116.9	117.5	112.6	116.4	116.4	122.1	114.7	122.1
Millwork and plywood	243	.65	89.5	96.7	99.9	100.6	102.3	101.6	101.4	95.0	98.4	101.6	104.8	102.4	105.3
Plywood	2435,6	.18	86.2	86.2	88.8	91.1	89.9	90.9	88.9	88.0	88.6	92.2	91.8	88.1	91.4
Manufactured homes	245	.15	94.2	168.2	170.7	170.4	172.4	164.8	173.7	170.6	176.3	174.5	187.5	152.4	188.3

1. Proportion as a share of the value added for the total index.

Table 6 (continued)
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Item	SIC	Index, 1987 = 100													
		1992		Seasonally adjusted						Not seasonally adjusted					
		Value added ¹	Index	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
			Mar.	Apr.	May	June ^f	July ^f	Aug. ^f	Mar.	Apr.	May	June ^f	July ^f	Aug. ^f	
Furniture and fixtures	25	1.37	99.2	107.7	108.9	112.1	111.9	110.1	110.5	106.4	107.6	109.0	112.3	109.4	117.7
Household furniture	251	.63	97.1	103.4	106.9	111.1	107.9	105.5	107.9	105.4	107.3	107.9	108.7	100.5	112.8
Paper and products	26	3.60	110.0	115.5	118.9	119.5	119.4	121.5	118.7	116.6	119.2	116.3	120.9	118.9	119.9
Pulp and paper	261-3	1.53	110.4	113.8	118.5	119.1	117.1	122.2	120.3	115.2	117.6	116.2	119.0	119.5	120.4
Wood pulp	261	.15	109.9	108.0	108.2	111.8	110.5	113.2	114.8	106.2	109.6	108.1	110.7	114.4	112.9
Paper	262	.89	109.8	111.3	116.5	115.9	114.3	118.3	113.5	112.8	115.6	112.3	116.4	114.9	114.5
Paperboard	263	.49	111.8	120.4	125.5	127.4	124.6	132.5	134.9	122.6	124.1	126.2	126.6	129.7	133.6
Paper products	265.7	2.07	109.6	116.8	119.1	119.7	121.1	121.0	117.5	117.7	120.3	116.3	122.3	118.5	119.4
Paperboard containers	265	.74	112.3	127.6	125.6	126.5	134.1	127.6	126.1	126.8	130.5	122.5	134.3	127.3	128.8
Converted paper products	267	1.33	108.1	110.9	115.6	116.0	114.1	117.3	112.9	112.7	114.7	112.8	115.7	113.6	114.3
Printing and publishing	27	6.76	98.1	96.7	96.3	97.7	97.2	97.3	97.2	93.9	94.2	95.3	99.1	101.7	103.6
Newspapers	271	1.63	77.0	62.1	62.1	62.1	62.5	62.7	63.0	62.7	63.3	61.4	63.7	61.9	60.6
Periodicals, books, and cards	272,3,7	2.01	103.5	105.1	105.4	106.3	104.7	106.8	107.4	106.6	106.5	106.3	104.4	106.5	108.0
Job printing	274-6,8,9	3.12	107.3	114.0	112.6	115.4	114.8	113.4	112.9	105.6	106.0	110.2	118.9	125.0	129.2
Chemicals and products	28	9.85	114.4	126.5	126.0	127.7	128.1	129.5	128.6	123.9	124.3	126.6	132.3	134.9	135.6
Industrial chemicals and synthetic materials	281,2,6	3.82	113.5	119.2	121.2	123.6	124.4	124.0	123.3	120.2	123.1	123.2	124.8	122.8	123.2
Basic chemicals	281	1.00	117.6	106.6	109.7	112.4	111.8	110.7	110.0	106.7	110.4	110.7	112.5	107.7	111.2
Alkalies and chlorine	2812	.08	105.4	111.7	117.0	126.4	120.6	120.2	118.9	110.0	116.8	123.5	121.2	120.3	119.6
Inorganic pigments	2816	.12	114.2	99.6	110.8	115.6	108.2	109.6	113.1	105.0	112.3	112.6	112.7	106.5	112.2
Inorganic chemicals, nec	2819	.67	122.4	102.4	103.9	104.9	105.8	104.1	102.5	101.6	104.5	103.1	106.1	100.4	104.3
Acids and other		.40	119.4	118.2	119.6	120.5	120.7	120.0	119.6	114.9	119.4	115.4	123.0	116.5	123.4
Synthetic materials	282	1.25	110.4	127.0	126.8	129.6	131.9	132.6	131.6	129.8	130.8	130.4	133.6	130.8	130.6
Plastics materials	2821	.75	112.0	128.8	130.3	132.1	134.3	133.2		132.8	134.6	132.8	135.6	131.5	
Synthetic fibers	2823,4	.39	105.9	118.3	115.5	120.2	122.9	127.5	122.7	117.5	118.6	120.8	125.6	126.2	123.7
Industrial organic chemicals	286	1.57	113.8	121.0	124.1	126.0	126.5	125.7	125.2	121.1	125.2	125.4	125.7	126.2	125.0
Chemical products	283-5,9	5.51	114.8	130.9	129.0	130.4	130.3	133.0	132.1	125.4	124.1	128.6	137.8	144.0	145.1
Drugs and medicines	283	2.91	127.4	148.4	146.3	147.6	147.2	151.3	150.7	138.3	138.0	144.1	157.2	167.8	167.8
Soap and toiletries	284	1.57	109.4	120.5	116.4	118.1	116.9	119.0	118.2	118.2	111.5	114.3	121.1	126.7	129.8
Paints	285	.43	95.0	108.2	104.5	111.5	111.5	110.6	110.1	109.7	113.9	123.1	129.3	117.8	118.0
Agricultural chemicals	287	.52	118.8	136.8	132.9	130.2	132.5	130.4	130.7	136.4	136.7	131.2	130.1	127.4	128.3
Petroleum products	29	1.43	102.6	109.9	109.7	109.8	110.3	109.4	111.6	102.2	107.1	111.5	114.9	114.1	116.8
Petroleum refining and misc.	291,9	1.25	104.3	109.7	109.4	109.1	109.9	108.7	111.1	103.5	107.8	110.6	113.6	112.5	114.8
Miscellaneous petroleum products		.23	105.1	104.5	106.2	108.2	108.4	107.0	109.4	97.3	105.9	113.0	122.7	121.5	125.1
Distillate fuel oil		.23	109.0	118.7	121.6	119.4	120.0	114.0	120.7	114.0	121.2	119.4	120.6	115.1	119.8
Residual fuel oil		.04	100.8	77.7	74.5	79.7	85.3	77.5	92.4	79.2	75.8	82.7	82.6	72.9	89.3
Aviation fuel and kerosene		.12	101.0	112.7	112.2	102.5	109.0	105.4	104.7	105.9	105.1	101.7	108.1	108.4	107.5
Automotive gasoline		.62	103.2	110.0	108.0	109.1	108.7	110.3	110.9	103.3	106.4	110.2	110.9	111.8	112.3
Paving and roofing materials	295	.18	93.5	113.2	113.5	116.0	114.3	114.8	116.7	95.2	104.6	118.9	124.8	126.1	131.7
Rubber and plastics products	30	3.51	116.2	140.5	137.6	140.7	142.4	142.3	144.2	140.8	138.1	140.6	144.8	137.8	144.3
Tires	301	.39	120.5	145.1	133.4	132.4	142.2	142.6	143.9	154.8	138.0	134.8	145.3	121.4	143.8
Other rubber products	302,5,6	.59	105.9	124.1	120.5	123.2	124.3	124.0	124.5	123.7	118.9	123.7	127.9	125.0	129.7
Plastics products, nec	308	2.54	118.0	143.9	142.5	146.3	147.1	146.7	149.0	142.8	142.8	145.6	148.8	143.4	147.9
Leather and products	31	.27	89.0	76.7	76.2	75.6	76.3	75.5	75.0	75.7	75.8	75.7	78.2	71.2	76.1
Shoes	314	.12	83.2	66.4	64.8	64.9	65.3	63.5	63.2	64.4	64.2	64.7	67.0	60.9	65.0
Stone, clay, and glass products	32	2.07	95.3	102.9	103.6	105.0	105.8	108.0	105.2	101.3	103.3	106.3	109.2	108.1	109.1
Pressed and blown glass	322	.35	100.7	91.2	93.0	97.7	90.2	92.9	91.2	93.4	93.9	99.7	94.2	94.6	94.6
Glass containers	3221	.18	93.5	72.4	74.8	82.4	70.3	71.1	71.1	76.8	77.1	85.9	74.8	74.3	74.2
Cement	324	.13	88.3	99.5	106.5	103.0	101.4	104.4		84.6	105.2	114.3	123.8	119.6	
Structural clay products	325	.10	87.9	83.9	90.5	95.3	96.6	95.8	95.5	85.6	92.8	99.5	102.9	91.9	100.5
Concrete and miscellaneous	326-9	1.18	92.7	102.7	102.2	102.3	106.2	108.1	103.9	100.9	101.7	102.7	106.9	106.4	106.0

1. Proportion as a share of the value added for the total index.

Table 6 (continued)
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Item	SIC	Index, 1987 = 100													
		1992		Seasonally adjusted						Not seasonally adjusted					
		Value added ¹	Index	1996 Mar.	Apr.	May	June ^f	July ^f	Aug. ^f	1996 Mar.	Apr.	May	June ^f	July ^f	Aug. ^f
Primary metals	33	3.11	101.9	118.0	119.2	118.6	121.0	118.9	120.1	121.0	121.6	119.0	120.9	114.2	117.4
Iron and steel	331.2	1.74	104.7	120.2	122.9	121.0	124.2	123.3	124.1	123.8	126.3	121.5	124.6	119.7	120.7
Basic steel and mill products	331	1.33	106.9	124.3	127.9	126.0	131.8	130.2	128.9	127.7	131.5	126.4	131.7	126.9	125.9
Basic iron and steel		.30	102.4	111.7	108.6	107.8	110.9	108.1	109.2	113.6	109.8	108.4	111.2	106.7	106.6
Pig iron		.18	106.9	115.8	111.2	110.7	115.3	111.4	112.3	117.3	111.5	111.0	115.3	110.2	109.6
Raw steel		.09	101.2	114.9	112.9	113.2	115.7	112.9	114.5	118.6	115.4	114.4	116.4	110.0	111.0
Steel mill products		1.03	108.4	128.3	133.9	131.7	138.3	137.1	135.1	132.2	138.3	132.0	138.1	133.2	132.0
Consumer durable steel		.16	98.0	111.4	128.6	125.9	133.7	144.6	140.0	122.3	136.9	134.2	134.4	114.0	132.7
Equipment steel		.11	93.5	112.9	120.6	117.8	118.5	124.6	128.5	119.4	123.7	115.6	120.7	118.8	122.0
Construction steel		.11	108.8	142.9	145.8	139.1	160.8	148.0	147.3	137.1	146.2	142.5	158.2	153.0	150.5
Can and closure steel		.05	93.4	97.3	96.3	89.7	95.2	110.5	109.9	99.8	95.4	96.4	97.9	113.7	110.0
Miscellaneous steel		.60	116.3	137.1	139.9	139.2	144.0	138.0	135.1	140.2	144.5	136.3	143.2	140.4	132.5
Iron and steel foundries	332	.41	97.5	107.4	107.1	105.5	100.8	101.9	109.1	111.2	110.2	106.2	102.6	97.8	104.6
Nonferrous metals	333-6.9	1.37	98.1	114.8	114.2	115.1	116.6	113.1	114.8	117.1	115.3	115.5	115.8	107.2	112.9
Primary nonferrous metals	333	.20	117.2	117.2	119.7	117.2	113.3	122.1	114.3	120.6	120.6	118.6	112.9	117.0	110.7
Copper	3331	.06	125.0	132.1	138.9	137.0	128.2	143.1	124.2	137.2	139.4	138.4	127.7	135.0	124.9
Aluminum	3334	.10	120.5	106.5	107.0	106.1	106.2	106.1	107.3	106.7	106.7	106.7	106.5	106.1	106.4
Nonferrous products	335.6	.97	89.6	107.2	105.9	108.1	109.7	104.0	106.9	109.3	106.7	108.1	108.8	98.1	105.7
Nonferrous mill products	335	.73	89.0	102.6	100.5	102.9	104.6	98.3	100.0	105.0	102.0	103.3	103.3	92.4	99.7
Aluminum	3353-5	.28	89.2	89.1	83.0	84.1	87.9	76.7	81.7	92.5	87.0	84.7	84.4	71.7	82.1
Nonferrous foundries	336	.23	91.6	121.7	123.2	124.7	126.3	122.6	129.0	123.1	122.0	123.8	126.5	116.6	124.9
Fabricated metal products	34	5.03	99.0	116.1	115.5	116.7	117.3	117.3	117.7	115.5	113.3	115.7	119.4	116.6	120.4
Metal containers	341	.22	108.8	103.6	106.2	104.8	100.6	104.0	109.6	99.3	102.7	116.3	120.9	115.0	130.4
Hardware, tools, and cutlery	342	.54	94.8	107.3	108.0	109.7	111.7	110.1	110.9	107.0	105.7	107.9	113.5	111.1	115.7
Hardware and tools	3423,5.9	.48	92.8	104.0	104.7	106.6	109.1	107.4	108.3	103.6	102.7	104.8	111.1	109.4	113.6
Structural metal products	344	1.28	94.8	115.3	115.4	115.0	116.2	115.4	116.0	111.3	111.3	113.9	117.4	116.7	118.4
Other fabricated metal products	345-9	2.80	101.5	119.7	118.6	120.2	120.4	121.5	121.3	121.6	118.4	120.0	122.3	119.2	121.7
Fasteners, stampings, etc.	345-7	1.56	104.5	129.1	127.4	129.9	129.4	131.2	131.1	132.6	128.1	129.7	132.8	130.0	132.7
Industrial machinery and equipment	35	7.96	124.0	197.8	199.0	201.2	205.2	205.4	210.0	197.9	195.7	200.1	210.4	210.7	217.3
Engines and turbines	351	.46	101.3	106.2	105.7	108.4	109.9	107.1	111.1	106.6	104.2	105.5	108.1	105.2	107.5
Farm	352	.44	111.8	140.2	141.2	138.0	141.0	138.1	140.2	149.6	146.8	143.6	139.8	127.4	128.4
Construction and allied	353	.76	99.8	128.7	128.4	130.4	129.7	126.7	127.5	129.1	127.1	129.2	130.1	125.2	127.6
Metalworking	354	.99	106.2	138.2	137.8	135.3	132.6	133.4	134.6	135.8	133.6	132.4	136.5	140.0	142.4
Special industry machinery	355	.69	103.6	142.1	142.7	143.3	141.6	140.4	137.0	143.0	140.4	141.6	141.1	136.0	134.7
General industrial machinery	356	1.07	107.8	122.8	120.8	121.0	120.0	120.5	122.3	121.4	118.5	119.7	123.2	122.5	126.3
Bearings and gears	3562,6.8	.31	95.9	107.4	106.4	108.9	108.5	108.9	109.9	108.0	105.5	107.7	108.6	105.0	107.4
Equipment	3561,3-5,7.9	.75	113.4	130.2	127.8	126.8	125.5	126.1	128.3	127.9	124.8	125.5	130.2	130.9	135.4
Computer and office equip.	357	1.75	172.6	476.0	491.1	505.0	522.0	537.5	552.0	463.4	467.2	494.4	537.1	570.7	598.2
Service industry machines	358	.81	101.9	145.4	139.3	139.1	154.8	140.0	149.5	161.4	154.9	151.0	166.7	135.4	134.7
Refrig. and heating equip.	3585	.56	94.0	139.3	130.2	131.3	151.8	130.7	145.1	161.0	152.1	147.5	167.5	126.9	124.8
Miscellaneous machinery	359	.98	112.3	143.1	142.9	143.3	138.8	141.6	146.3	140.6	138.6	140.5	143.7	148.1	155.4
Electrical machinery	36	7.23	123.5	187.9	187.3	188.8	191.0	190.6	190.8	187.7	184.8	187.0	191.8	186.3	191.8
Major electrical and parts	361.2	.95	103.2	121.2	122.2	121.1	119.5	121.9	120.1	119.7	120.1	120.0	123.0	124.1	125.7
Electric distribution equip.	361	.32	98.4	100.2	101.7	100.8	99.3	104.7	101.0	99.0	97.4	98.0	102.1	106.4	109.7
Household appliances	363	.47	106.9	136.2	134.4	136.1	149.8	150.1	150.9	143.1	135.5	137.6	150.9	132.0	148.4
Cooking equipment	3631	.07	95.7	115.1	98.5	102.4	127.4	124.1	124.5	116.8	102.9	105.5	119.1	100.8	124.8
Refrigerators and freezers	3632	.10	113.3	130.1	125.7	123.2	137.5	125.9	167.0	141.0	134.3	138.4	153.8	125.9	143.5
Laundry	3633	.09	108.3	133.2	144.0	136.1	163.2	185.1	157.4	146.8	147.7	142.0	162.4	134.3	162.5
Miscellaneous	3634,5.9	.21	107.8	148.3	147.4	154.5	157.9	155.3	151.1	152.4	142.9	147.5	156.5	145.3	153.4
Electrical housewares	3634	.08	99.3	115.3	112.1	117.9	122.8	126.0	124.6	109.6	106.1	115.1	121.1	119.1	122.7
Appliances, nec	3639	.06	102.3	160.7	155.0	165.7	170.0	161.5	152.1	170.7	157.4	161.9	170.6	131.3	149.2
Audio and video equipment	365	.21	126.1	139.5	150.6	150.1	146.3	140.7	135.8	137.7	131.9	139.8	144.7	121.0	153.9
Communication equipment	366	1.59	120.0	160.0	158.9	157.1	158.7	159.0	157.6	159.2	156.7	155.9	156.0	155.6	157.1
Electronic components	367	2.66	153.8	303.6	303.4	307.8	310.5	309.0	311.9	303.7	300.3	305.7	310.9	303.2	309.5
Misc. electrical supplies	369	.68	106.0	145.7	142.8	144.8	150.5	145.1	146.7	142.2	138.1	139.8	149.7	139.4	146.9
Storage batteries	3691	.11	93.3	128.3	101.4	116.9	134.8	106.1	107.7	114.1	85.7	95.9	130.6	103.7	116.7
Transportation equipment	37	9.51	104.8	103.1	114.6	114.6	116.6	120.3	119.4	107.6	115.8	118.1	122.5	99.0	116.8
Motor vehicles and parts	371	4.79	107.4	121.3	144.3	144.7	148.7	154.5	151.4	130.0	147.2	151.4	159.8	112.5	147.5
Autos		1.56	90.0	79.5	107.4	109.6	113.9	119.9	114.8	89.0	113.0	117.9	127.6	71.0	108.9
Trucks and truck trailers		1.32	119.7	159.8	178.9	173.2	176.5	192.4	180.1	178.0	188.0	182.3	195.8	114.2	178.0
Trucks and buses		1.26	121.7	162.9	183.2	177.0	179.0	196.6	183.2	181.3	192.7	186.7	199.6	114.2	181.1
Consumer trucks		.73	125.2	173.1	192.7	187.3	189.2	209.3	194.7	193.2	203.2	199.6	211.6	111.9	191.0
Business vehicles		.53	117.3	150.0	171.3	163.9	166.2	180.6	168.6	166.2	179.4	170.4	184.5	117.4	168.6
Motor vehicle parts	3714	1.85	114.8	133.5	155.3	157.6	161.5	161.5	166.4	134.4	149.6	160.8	164.3	151.6	163.5
Motor homes	3716	.05	87.6	185.8	151.9	164.1	169.7	130.8	140.8	199.0	190.9	164.7	167.1	134.6	138.8
Aerospace and miscellaneous transportation equipment	372-6.9	4.73	102.3	85.7	86.0	85.7	85.8	87.3	88.6	86.2	85.6	86.1	86.5	86.0	87.3
Aircraft and parts	372	2.95	107.8	83.7	84.2	85.2	85.7	87.6	88.9	84.5	83.4	85.7	86.6	86.2	87.2
Ships and boats	373	.51	93.6	89.5	90.0	89.5	91.1	88.8	91.9	90.5	90.8	89.8	90.6	87.4	91.9
Railroad and miscellaneous	374-6.9	1.26	95.2	88.7	88.5	85.6	84.0	86.7	87.3	88.5	88.7	86.0	85.3	85.5	86.0

1. Proportion as a share of the value added for the total index.

Table 6 (continued)
INDUSTRIAL PRODUCTION: INDUSTRY SUBTOTALS AND INDIVIDUAL SERIES

Item	SIC	Index, 1987 = 100													
		1992		Seasonally adjusted						Not seasonally adjusted					
		Value added ¹	Index	1996 Mar.	Apr.	May	June ^f	July ^f	Aug. ^f	1996 Mar.	Apr.	May	June ^f	July ^f	Aug. ^f
Instruments	38	5.36	106.3	112.9	112.8	112.4	113.7	112.3	113.3	111.6	110.6	110.6	115.2	114.1	115.3
Scientific and medical	381-4	4.32	107.0	111.3	110.3	109.9	111.6	109.9	111.0	109.6	107.7	107.8	113.3	112.5	113.7
Medical instruments	384	1.56	138.2	159.4	158.5	155.5	160.1	153.8	154.8	151.7	150.3	150.3	166.8	168.2	168.3
Misc. manufactures	39	1.32	106.9	124.0	122.6	123.0	124.4	124.1	124.4	123.1	121.6	122.6	124.5	118.8	124.8
Consumer goods	391,3,4,6	.67	106.5	117.6	115.8	116.6	117.8	117.1	117.4	117.3	115.2	115.9	116.9	109.1	116.9
Business supplies	395,9	.65	107.4	130.5	130.0	129.9	131.3	131.2	131.5	129.1	128.3	129.5	132.5	128.8	133.1
Electric utilities	491,3pt	6.15	111.7	127.1	125.7	128.7	126.7	122.7	125.1	121.3	113.2	118.9	131.3	139.0	139.0
Generation		2.64	111.3	127.1	126.0	128.4	124.9	121.3	123.6	121.3	114.8	122.5	132.8	135.6	134.8
Fossil fuel		1.32	103.6	108.7	106.5	113.4	111.9	108.7		100.8	94.8	103.7	118.0	126.6	
Hydro and nuclear		1.32	121.4	150.1	150.1	147.4	141.4	137.3		146.5	139.5	145.9	151.6	147.5	
Sales		3.51	112.0	127.1	125.5	128.8	128.1	123.8	126.2	121.4	111.9	116.3	130.1	141.5	142.2
Residential		1.43	109.9	128.7	126.8	129.1	130.7	123.6		122.5	105.4	105.3	128.0	149.3	
Nonresidential		2.08	113.4	125.9	124.5	128.5	126.3	123.9	125.2	120.5	116.4	124.0	131.6	135.9	137.7
Commercial and other		1.21	112.8	128.4	128.6	133.9	131.2	127.5		121.2	117.5	125.9	137.4	145.0	
Industrial		.87	114.2	122.5	118.8	121.0	119.4	118.7		119.4	114.9	121.1	123.3	123.0	
Gas utilities	492,3pt	1.57	112.7	131.5	128.9	127.5	125.8	124.6	125.7	179.2	133.9	95.6	76.5	73.8	74.0
Residential		.64	108.7	128.9	124.7	119.1	114.7			199.4	134.0	76.2	45.9		
Commercial and other		.28	115.4	140.3	138.5	134.2	129.8			199.1	146.2	93.9	70.2		
Gas transmission		.46	114.4	131.2	128.7	131.5	133.6			157.0	129.3	110.3	101.2		

1. Proportion as a share of the value added for the total index.

Table 7
INDUSTRIAL PRODUCTION: GROSS VALUE OF PRODUCTS

Billions of 1992 dollars at annual rates, seasonally adjusted

Item	1992	1995	1995			1996			1996					
			Q2	Q3	Q4	Q1	Q2 ^f	Q3 ^p	Apr.	May	June ^f	July ^f	Aug. ^f	Sept. ^p
Products, total	2002.9	2245.6	2235.7	2254.9	2253.9	2270.5	2311.9	2332.4	2300.3	2307.8	2327.6	2335.5	2329.8	2331.8
Final products	1552.2	1748.7	1742.0	1757.3	1753.5	1771.4	1807.7	1825.8	1801.5	1804.4	1817.1	1830.6	1824.7	1822.3
Consumer goods	1033.4	1130.5	1125.3	1133.6	1134.5	1134.2	1147.9	1149.7	1144.9	1147.2	1151.5	1156.9	1148.7	1143.4
Durable	222.3	272.9	269.6	271.4	273.8	264.7	280.9	284.9	276.9	278.1	287.7	292.4	283.9	278.2
Automotive products	122.4	160.6	158.7	159.0	160.3	154.2	166.7	171.4	164.8	165.2	170.1	177.6	170.2	166.5
Other durable goods	99.9	112.3	110.9	112.4	113.5	110.5	114.2	113.5	112.2	112.9	117.6	114.8	113.7	111.8
Nondurable	811.1	857.6	855.7	862.2	860.7	869.5	867.0	864.8	868.0	869.1	863.8	864.5	864.8	865.2
Equipment, total	518.8	618.3	616.7	623.7	619.1	637.2	659.8	676.2	656.6	657.1	665.6	673.7	675.9	678.8
Business and defense	500.3	594.6	593.1	599.7	595.3	612.4	632.6	649.6	629.7	629.7	638.3	647.5	648.9	652.5
Business	415.6	528.2	525.7	533.3	531.8	549.0	568.0	584.4	565.1	564.7	574.3	582.8	583.6	586.9
Defense and space	84.7	66.4	67.4	66.4	63.5	63.5	64.5	65.2	64.6	64.9	64.0	64.7	65.4	65.6
Intermediate products	450.7	496.9	493.6	497.6	500.4	499.2	504.2	506.5	498.8	503.4	510.5	504.9	505.2	509.5
Construction supplies	177.0	200.6	198.9	199.6	202.4	202.2	206.8	209.6	202.7	205.9	211.8	208.5	210.2	210.3
Business supplies	273.7	296.3	294.7	298.1	298.0	297.0	297.4	296.9	296.0	297.5	298.7	296.5	295.0	299.3
Commercial energy products	70.6	77.0	75.9	78.6	79.1	79.7	80.1	79.5	80.0	80.2	80.2	78.2	79.1	81.3

Table 8
DIFFUSION INDEXES OF INDUSTRIAL PRODUCTION

Percent												
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One Month Earlier												
1994	50.0	62.7	65.8	60.4	63.8	59.2	59.6	58.1	52.3	60.0	58.8	63.5
1995	52.7	45.0	48.5	42.7	49.2	51.5	48.5	58.8	53.5	44.4	51.7	49.6
1996	40.4	65.0	51.9	54.6	56.2	60.8	45.6	56.3				
Three Months Earlier												
1994	61.9	63.5	69.2	72.7	73.1	67.7	67.3	66.9	61.5	60.0	62.7	66.9
1995	62.7	53.1	46.5	40.8	40.0	43.8	47.7	52.3	57.3	50.4	49.6	49.6
1996	47.3	50.8	54.6	60.8	58.1	61.9	55.4	58.5				
Six Months Earlier												
1994	63.1	66.5	70.8	73.1	77.7	72.3	74.2	75.4	69.6	70.8	68.5	73.1
1995	68.5	58.1	60.4	54.2	47.7	38.8	41.2	44.2	47.3	47.3	52.3	51.5
1996	48.1	49.2	55.0	54.4	60.0	66.9	63.8	60.0				

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.

**Table 9
ELECTRIC POWER USE: MANUFACTURING AND MINING**

Item	1987 SIC	1987 Billion KWH	Index, 1987 = 100											
			Seasonally adjusted						Not seasonally adjusted					
			1996 Mar.	Apr.	May	June ^r	July ^r	Aug. ^p	1996 Mar.	Apr.	May	June ^r	July ^r	Aug. ^p
Total		850.7	116.5	116.5	116.2	115.2	117.3	115.9	114.6	115.1	115.7	117.3	117.9	119.8
MAJOR INDUSTRY GROUPS														
Manufacturing		776.5	116.5	116.8	116.2	115.4	117.2	116.0	114.6	115.2	115.8	117.7	118.3	120.3
Durable		351.3	111.9	112.1	111.5	110.5	112.9	111.1	111.9	111.0	111.4	112.8	113.1	114.4
Nondurable		425.2	120.6	120.9	120.4	119.7	121.1	120.3	117.1	118.9	119.8	122.0	122.9	125.5
Mining		74.2	116.2	113.1	115.2	112.8	118.2	115.2	114.6	113.5	114.2	111.9	113.0	112.7
INDUSTRY GROUPS and SERIES														
Metal mining	10	14.6	164.8	161.0	166.6	155.0	170.2	172.1	158.4	159.1	163.9	153.0	166.5	167.0
Iron ore	101	6.3	168.2	159.2	169.3	156.4	168.5	173.6	160.3	161.3	168.3	153.4	167.0	163.9
Copper ore	102	4.8	173.2	170.3	174.9	159.7	185.5	188.5	162.7	164.2	167.6	157.4	178.7	184.5
Coal mining	12	13.4	99.9	96.4	98.4	98.6	101.9	97.9	109.1	100.6	96.1	93.1	83.4	90.0
Oil and gas extraction	13	33.0	97.0	94.9	96.7	97.5	99.1	94.6	95.1	94.3	95.8	98.2	98.8	94.3
Crude oil and natural gas	131	27.7	96.7	94.8	98.3	98.4	101.2	95.8	95.4	94.6	96.9	98.7	100.0	95.2
Natural gas liquids	132	3.7	88.1	85.0	81.0	83.2	78.2	77.5	84.6	84.2	81.3	85.6	81.4	78.2
Stone and earth minerals	14	12.3	130.4	126.6	125.3	122.1	128.1	124.2	120.3	126.4	128.1	124.7	127.5	127.4
Crushed stone	142	3.5	152.0	148.3	150.8	144.3	146.3	143.8	121.0	141.7	155.6	150.6	148.9	152.9
Sand and gravel	144	2.9	126.3	128.1	129.7	127.8	128.9	129.3	107.7	122.9	133.0	132.2	134.5	138.2
Chemical and fertilizer materials	147	3.9	126.5	120.5	117.3	114.2	119.7	113.5	125.4	123.2	119.1	115.4	117.2	114.0
Foods	20	52.9	125.8	125.9	127.0	125.6	127.2	125.2	118.0	118.9	122.0	128.3	133.1	136.4
Meat products	201	8.7	139.4	141.4	147.2	143.8	142.4	142.9	130.5	134.9	142.7	151.5	154.8	157.9
Dairy products	202	6.5	111.0	108.8	110.9	109.6	111.0	110.1	105.0	107.2	111.1	118.1	124.0	121.7
Canned and frozen food	203	6.6	129.3	125.3	123.7	122.6	127.2	122.6	115.6	112.6	116.1	120.8	129.6	144.9
Grain mill products	204	10.9	141.2	142.8	138.5	137.5	139.9	139.0	137.7	138.3	135.5	134.9	137.9	141.1
Bakery products	205	3.3	128.3	125.1	125.3	128.5	128.7	127.2	119.8	119.8	122.7	135.5	140.9	142.5
Sugar and confectionery	206	3.7	141.6	145.2	153.1	146.0	153.3	147.9	134.6	123.3	129.0	134.8	138.7	140.6
Fats and oils	207	3.4	143.8	153.8	148.1	140.2	140.1	133.2	143.6	149.4	139.9	136.3	129.5	130.9
Beverages	208	5.9	106.4	104.4	107.6	106.2	106.4	104.8	97.7	99.7	105.7	114.2	120.1	120.7
Coffee and miscellaneous	209	3.9	109.8	111.4	114.2	114.2	115.4	113.8	102.6	105.2	110.1	119.2	125.1	126.4
Tobacco products	21	1.7	116.4	118.1	114.5	114.2	121.2	121.9	112.3	111.8	111.0	115.1	122.1	131.6
Textile mill products	22	29.9	111.8	113.6	112.5	110.8	114.7	112.7	107.3	110.5	114.8	121.1	114.5	127.5
Fabrics	221-4	11.6	96.1	96.2	102.1	92.9	100.7	98.5	92.1	93.7	104.3	101.7	100.8	111.1
Knit goods	225	3.4	139.9	139.3	142.5	136.6	143.1	138.7	131.9	133.7	144.9	153.8	149.8	159.8
Fabric finishing	226	2.2	124.6	122.8	125.4	125.4	130.9	124.3	123.1	123.6	126.9	130.3	121.6	127.8
Yarn and thread	228	8.4	118.0	122.0	113.5	119.1	112.6	122.5	113.0	118.9	116.8	130.8	111.4	139.7
Miscellaneous textiles	229	2.9	127.7	132.6	123.6	129.5	137.2	121.5	123.8	129.1	125.6	139.1	135.2	137.7
Apparel products	23	6.6	103.5	103.3	105.9	101.4	101.9	104.4	94.5	94.3	101.3	109.3	111.1	121.5
Men's outerwear	231,2	1.9	119.7	119.6	125.1	116.8	112.4	118.8	105.7	106.8	118.8	128.8	125.4	143.3
Women's outerwear	233	1.9	94.3	91.8	90.8	84.0	87.8	86.2	83.6	82.0	86.2	91.2	97.7	102.1
Lumber and products	24	21.6	123.8	126.4	126.5	127.2	125.9	126.9	125.9	127.6	125.2	126.5	121.6	125.7
Lumber	242	7.9	109.4	109.9	111.3	111.6	109.2	111.3	112.9	112.7	111.2	109.9	104.2	108.5
Millwork and plywood	243	5.7	117.4	122.2	120.6	124.2	123.0	126.9	119.2	123.9	119.5	123.7	118.7	126.1
Furniture and fixtures	25	5.7	118.5	120.2	123.4	122.6	121.1	121.8	117.8	119.0	120.2	123.5	119.4	129.5
Household furniture	251	3.2	111.4	115.3	119.8	116.8	114.6	116.2	115.1	117.2	117.8	118.7	109.7	123.2
Paper and products	26	97.0	117.8	118.8	118.4	116.6	119.9	119.4	116.2	118.2	117.2	118.2	120.3	122.9
Wood pulp	261	7.1	104.4	98.2	97.3	91.3	95.9	96.3	106.7	98.5	101.1	97.8	99.5	101.0
Paper	262	51.6	114.4	118.1	116.3	114.3	117.6	117.5	113.5	118.2	114.8	115.7	117.5	120.8
Paperboard	263	26.0	127.8	123.0	137.9	133.6	134.3	129.6	124.5	120.2	132.2	131.6	132.9	130.4
Paperboard containers	265	4.5	125.0	120.7	124.0	124.3	133.6	130.5	120.4	118.4	122.4	123.5	132.5	134.0
Converted paper products	267	7.6	121.4	122.2	113.4	116.4	115.6	118.9	117.0	119.4	113.8	119.0	118.6	123.3
Printing and publishing	27	15.7	136.4	134.5	136.4	136.7	136.2	133.4	126.5	127.1	131.3	142.3	149.8	153.0
Newspapers	271	3.4	119.8	115.9	117.8	119.8	119.3	117.3	110.8	109.6	115.7	125.5	131.5	131.2
Commercial printing	275	8.2	139.7	138.3	140.9	139.5	139.5	136.9	130.8	130.9	134.9	145.6	153.8	158.3
Chemicals and products	28	146.2	120.8	121.8	121.4	120.9	121.2	120.9	118.7	120.8	121.9	120.8	121.6	121.9
Basic chemicals	281	61.8	119.1	121.1	120.0	121.2	119.8	119.7	118.9	121.4	122.7	119.9	118.4	118.4
Alkalies and chlorine	2812	14.1	114.7	117.2	122.2	118.1	110.4	113.0	120.9	116.0	119.6	116.7	111.6	113.7
Inorganic chemicals, nec	2819	29.1	128.6	132.1	130.0	132.5	130.1	129.2	130.5	134.2	137.4	130.9	125.2	123.8
Acid and fertilizer materials		10.9	103.4	108.7	104.1	105.4	107.5	104.8	102.6	108.5	104.6	104.3	108.7	107.7
Nuclear materials, nondefense		18.2	146.5	148.8	148.5	151.8	146.3	146.6	150.3	152.5	160.7	149.8	136.9	135.2

Table 9 (continued)
ELECTRIC POWER USE: MANUFACTURING AND MINING

Item	1987 SIC	1987 Billion KWH	Index, 1987 = 100												
			Seasonally adjusted						Not seasonally adjusted						
			1996 Mar.	Apr.	May	June ^r	July ^r	Aug. ^p	1996 Mar.	Apr.	May	June ^r	July ^r	Aug. ^p	
Chemicals and Products (cont.)															
Synthetic materials	282	26.5	119.2	119.3	119.1	113.5	117.6	116.2	114.9	117.9	117.9	116.4	120.6	120.0	
Plastics materials	2821	14.2	132.3	133.4	132.2	127.9	131.1	132.8	129.9	133.3	131.3	131.9	134.0	136.2	
Drugs and medicines	283	5.5	140.3	138.3	139.7	139.9	144.2	142.2	131.0	130.7	136.6	149.1	159.2	159.3	
Soap and toiletries	284	3.1	112.0	108.4	110.1	110.2	111.6	112.1	112.0	105.9	108.8	115.4	120.9	124.1	
Industrial organic chemicals	286	36.0	105.2	105.8	111.1	105.1	105.2	110.7	104.9	105.1	109.7	105.4	105.9	113.2	
Agricultural chemicals	287	8.5	136.6	132.1	128.7	131.8	128.6	128.2	131.5	131.5	127.2	128.8	126.1	126.8	
Petroleum products	29	40.1	108.4	105.7	101.9	103.1	104.4	104.1	102.7	104.6	101.5	106.0	107.4	108.0	
Rubber and plastics products	30	33.1	146.4	146.1	147.9	146.5	147.1	146.3	145.2	145.4	148.0	150.9	147.7	151.9	
Tires	301	3.6	116.9	117.6	117.5	115.0	118.3	111.7	113.3	115.4	116.7	118.5	118.6	118.4	
Rubber products, nec	306	3.1	118.9	115.5	118.6	117.8	117.7	119.0	120.1	115.2	120.3	123.3	120.5	125.7	
Plastics products, nec	308	24.9	153.7	153.7	155.9	154.6	154.6	155.1	152.4	153.2	155.6	158.6	154.6	159.7	
Leather and products	31	1.0	94.0	96.5	95.4	96.7	99.5	97.2	91.7	94.6	94.6	100.7	99.4	105.0	
Shoes	314	.4	86.7	88.8	90.5	91.1	91.3	90.8	84.0	85.8	88.4	95.1	93.0	103.3	
Stone, clay, & glass products	32	33.8	106.9	108.4	108.2	109.1	111.2	109.8	102.4	106.7	109.8	111.9	111.6	113.1	
Flat glass	321	1.7	113.5	108.8	112.8	111.4	111.5	106.8	111.4	106.9	112.1	113.2	112.0	109.1	
Pressed and blown glass	322	6.7	100.6	102.0	102.8	102.4	106.7	99.1	99.5	100.7	102.3	103.6	105.5	102.0	
Cement	324	10.1	103.5	108.2	105.8	106.0	107.6	112.3	91.6	104.8	111.6	112.8	112.0	117.7	
Structural clay products	325	1.6	115.7	115.6	113.5	114.4	118.9	115.8	110.2	113.6	113.7	116.5	119.7	116.7	
Concrete products	327	5.1	96.4	90.4	93.9	96.1	97.2	94.8	93.7	89.7	94.9	97.5	96.7	96.8	
Primary metals	33	137.9	111.2	111.6	108.7	105.4	109.7	105.8	113.6	112.0	109.7	106.0	106.9	105.1	
Basic steel and mill products	331	54.4	118.8	122.6	121.2	116.0	124.1	122.1	124.3	124.7	122.8	116.9	118.1	120.9	
Iron and steel foundries	332	9.9	114.5	111.9	112.7	108.7	109.1	117.3	117.9	114.6	112.8	109.1	104.1	111.4	
Primary nonferrous metals	333	55.8	90.5	89.2	84.7	84.8	86.5	79.8	90.3	88.0	86.0	85.6	87.7	80.5	
Aluminum	3334	51.2	85.7	81.2	77.5	76.1	76.4	66.5	83.9	80.6	80.3	77.9	78.7	66.7	
Nonferrous foundries	336	2.7	120.0	115.4	117.3	116.6	119.8	120.0	120.4	116.0	116.3	117.1	114.9	120.4	
Fabricated metal products	34	31.5	116.8	115.8	116.5	116.7	119.2	118.3	118.7	116.0	116.0	119.6	120.5	122.6	
Metal containers	341	2.5	129.6	129.0	121.7	123.8	127.7	126.0	129.6	129.4	121.2	128.6	132.5	129.4	
Hardware, tools, and cutlery	342	2.7	113.2	113.8	115.8	118.0	116.8	116.9	112.6	111.6	113.8	120.5	118.6	123.2	
Structural metal products	344	5.6	112.7	111.6	110.9	112.4	115.1	115.4	114.4	112.0	110.0	113.1	114.9	117.0	
Fasteners	345	1.7	110.6	107.1	111.9	109.4	109.2	107.2	113.7	108.5	112.3	113.4	113.9	116.1	
Metal stampings	346	7.1	132.8	130.9	133.7	135.5	139.9	136.3	139.1	133.8	135.8	140.4	136.0	138.3	
Industrial machinery and equipment	35	33.4	115.3	115.5	114.8	113.1	113.4	116.6	114.0	113.0	113.8	117.7	119.0	123.7	
Engines and turbines	351	2.5	111.0	109.1	108.7	103.4	105.6	114.5	108.0	108.3	107.1	105.5	100.7	112.5	
Farm	352	1.6	142.5	144.9	146.7	140.2	141.4	157.5	148.1	148.0	145.8	138.1	129.0	147.7	
Construction and allied	353	4.2	103.4	101.7	104.0	102.3	100.8	105.5	102.6	99.9	101.9	106.1	106.3	109.2	
Metalworking	354	4.2	136.5	136.3	133.9	131.9	131.8	132.0	133.4	131.3	130.3	134.4	138.0	140.5	
Special industry	355	2.5	116.7	117.1	117.4	118.9	117.2	120.1	115.8	113.8	115.7	122.5	125.3	130.3	
General industrial	356	4.8	120.9	118.8	118.1	117.3	117.7	119.0	118.6	116.0	116.7	121.3	122.1	126.4	
Computer and office equip.	357	6.1	86.4	88.6	87.8	86.5	87.5	90.8	85.7	85.9	87.6	92.1	95.1	97.2	
Service industry machines	358	3.3	152.4	155.8	150.8	149.5	149.5	148.3	146.5	150.9	150.9	158.2	156.0	161.5	
Electrical machinery	36	31.3	116.3	114.9	116.8	117.0	118.6	117.7	113.8	112.4	115.2	121.5	123.7	126.7	
Electrical distribution	361	1.4	75.8	77.0	76.4	75.5	77.8	75.2	75.3	74.2	74.7	77.8	81.1	83.6	
Electrical industrial	362	4.1	112.0	112.7	111.7	110.2	109.0	109.0	109.9	111.2	111.0	113.0	112.7	113.3	
Household appliances	363	2.5	93.7	95.3	99.3	94.8	98.1	96.8	92.2	92.8	98.8	100.9	101.6	105.5	
Lighting and wiring products	364	2.9	111.9	109.1	112.5	109.7	114.1	112.6	112.0	110.0	112.3	116.5	115.9	116.4	
TV and radio sets	365	.6	159.5	157.8	166.2	159.4	147.2	163.0	157.8	152.9	162.9	164.1	152.5	178.0	
Communication equipment	366	3.1	95.0	97.4	97.0	102.1	100.9	98.6	91.8	94.2	94.6	106.4	109.2	109.7	
Electronic components	367	12.8	135.6	132.4	135.4	136.0	138.5	137.8	131.7	128.9	132.9	140.4	145.3	148.3	
Transportation equipment	37	38.3	102.1	101.8	104.1	105.3	106.6	105.1	101.9	100.1	104.0	109.7	107.1	111.8	
Motor vehicles and parts	371	21.9	103.6	103.5	108.5	109.5	108.8	108.2	104.5	102.5	108.5	114.4	108.6	115.5	
Aircraft and parts	372	10.1	87.8	86.2	84.6	87.0	92.6	89.5	86.2	83.8	84.7	90.2	94.0	94.9	
Ships and boats	373	2.1	92.0	94.9	94.7	98.1	93.6	91.2	94.4	95.4	92.9	98.1	95.0	93.3	
Instruments	38	13.1	107.4	106.7	105.9	107.4	105.6	105.6	105.1	103.1	104.2	112.9	115.0	116.9	
Photographic equip. & supplies	386	1.7	88.4	86.8	88.0	89.3	91.3	89.6	90.5	84.8	87.4	92.3	94.9	96.9	
Miscellaneous manufactures	39	4.6	145.7	147.7	150.9	150.2	154.0	148.3	141.5	143.3	147.1	154.4	160.5	160.0	
SUPPLEMENTARY GROUPS															
Total, excluding nuclear nondefense		832.5	115.5	115.5	115.1	114.0	116.4	115.0	113.5	113.9	114.3	116.2	117.3	119.3	
Utility sales to industry		765.4	115.6	115.4	115.2	114.3	116.4	114.9	113.4	114.0	115.0	116.6	116.9	118.8	
Industrial generation		85.3	115.9	117.5	113.8	113.9	117.2	118.0	117.2	115.5	111.7	111.7	118.2	118.7	

Explanatory Note

The statistical release of **Industrial Production and Capacity Utilization** reports measures of output, capacity, and capacity utilization in manufacturing, mining, and the electric and gas utilities industries. It also includes survey data on the use of electric power in manufacturing and mining. Data in the release are available on-line on the day of issue through the Economic Bulletin Board of the Department of Commerce. For information, call (202) 482-1986. Diskettes containing historical data and the data published in this release are available from the Board of Governors of the Federal Reserve System, Publications Services, (202) 452-3245.

Industrial Production

Coverage. The industrial production (IP) index measures output in the manufacturing, mining, and electric and gas utilities industries. For the period since 1992, the total IP index has been constructed from 260 individual series based on the 1987 Standard Industrial Classification (SIC). These individual series are classified in two ways: (1) market groups (shown in table 1), such as consumer goods, equipment, intermediate products, and materials; and (2) industry groups (shown in tables 2 and 6), such as two-digit SIC industries and major aggregates of these industries—for example, durable and nondurable manufacturing, mining, and utilities.

Market groups. For purposes of analysis, the individual IP series are grouped into final products, intermediate products, and materials. Final products are assumed to be purchased by consumers, businesses, or government for final use. Intermediate products are expected to become inputs in nonindustrial sectors, such as construction, agriculture, and services. Materials are industrial output requiring further processing within the industrial sector. Total products comprise final and intermediate products, and final products are divided into consumer goods and equipment.

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 three months as new source data become available. (Revised estimates are denoted by the superscript "r" in tables.) After the fourth month, indexes are not revised further until the time of an annual revision or a benchmark revision. The last three benchmark revisions were published in 1990, 1985, and 1976.

Source data. In annual or benchmark revisions, 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 Bureau of Mines; and publications of the Department of Energy. 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 as well as from government agencies including those listed above; data of this type are used to estimate monthly IP where possible and appropriate. When suitable data on physical product are unavailable, estimates of output are based on either production-worker hours or electric power use by industry. Data on hours worked by production workers are collected in the monthly establishment survey conducted by the Bureau of Labor Statistics. The data on electric power use are described below. The factors used to convert inputs into estimates of production are based on historical relationships between the inputs and the comprehensive data used to benchmark the IP indexes; these factors also may be influenced by technological or cyclical developments. Especially for the first and second estimates for a given month, the available source data are limited and subject to revision.

Weights. In the index, series that measure the output of an individual industry are weighted according to their proportion in the total value-added output of all industries. The industrial production index, which extends back to 1919, is built in chronological segments that are linked together to form a continuous index expressed as a percentage of output in a comparison base year (currently 1987). Each segment, which usually spans five years, is a Laspeyres quantity index showing changes in quantities with prices (Census value added per unit of output) held at base-year values for the segment. For the period from 1992 to the present, IP is aggregated on the basis of 1992 value-added weights. The aggregation of the index for the 1987-91 period is based on 1987 weights, whereas 1982 weights are used for the 1982-86 period. The other weight years in the postwar period are 1977, 1972, 1967, 1963, 1958, 1954, and 1947. The 1992 value-added weights used to aggregate the index are shown in the first column of tables 1, 2, and 6, in the "Value added" column under the heading "1992."

Seasonal adjustment. Individual series are seasonally adjusted by the X-11 ARIMA method, developed at Statistics Canada. For series based on production-worker hours, the current seasonal factors were estimated with data through October 1995; for other series, the factors were estimated with data through at least June 1995. In some cases, series were preadjusted for the effects of holidays or the business cycle before using X-11 ARIMA. The seasonally adjusted total index is calculated by aggregating the seasonally adjusted major market groups, and may not precisely equal an aggregation of the seasonally adjusted industry groups.

Reliability. The average revision to the level of the total IP index, without regard to sign, between the first and the fourth estimates was 0.29 percent during the 1987-95

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 1987-95 period. In most cases (about 82 percent), the direction of 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.

References. *Industrial Production—1986 Edition* contains a more detailed description of the methods used to compile the index, plus a history of its development, a glossary of terms, and a bibliography. To obtain *Industrial Production—1986 Edition* (\$9.00 per copy), write to Board of Governors of the Federal Reserve System, Publications Services, Washington, DC 20551. The 1990 and 1993 revisions to the index were described in the *Federal Reserve Bulletin*, vol. 76 (April 1990), pp. 187-204 and vol. 79 (June 1993), pp. 590-605, respectively. Two revisions were published in 1994 and were described in the *Federal Reserve Bulletin*, vol. 80 (March 1994), pp. 220-6 and vol. 81 (January 1995), pp. 16-26. The annual revision published in November 1995 was described in the *Federal Reserve Bulletin*, vol. 82 (January 1996), pp. 16-25.

Capacity Utilization

Definition. Capacity utilization is calculated for the manufacturing, mining, and electric and gas utilities industries. For a given industry, the utilization rate is equal to an output index divided by a capacity index. Output is measured by seasonally adjusted indexes of industrial production. The capacity indexes attempt to capture the concept of sustainable practical capacity, which is defined as the greatest level of output that a plant can maintain within the framework of a realistic work schedule, taking account of normal downtime, and assuming sufficient availability of inputs to operate the machinery and equipment in place. The 75 individual capacity indexes are based on a variety of data, including capacity data measured in physical units compiled by trade associations, surveys of utilization rates and investment, and estimates of growth of the capital input.

Groups. Estimates of capacity and utilization are available for a variety of groups, including primary and advanced processing industries within manufacturing, durable and nondurable manufacturing, total manufacturing, mining, utilities, and total industry. Component industries of the primary and advanced processing groups within manufacturing are listed in the note on tables 2 and 3 of the release.

Weights. Value-added proportions are used to weight the individual capacity indexes in aggregations in the same manner as individual IP series are aggregated to the total index of industrial production. Although each utilization rate is the result of dividing an IP series by a corresponding capacity index, aggregate utilization rates are equivalent to combinations of individual utilization rates aggregated with proportions that reflect current capacity levels of output valued in base-period value-added per unit of actual output. The implied proportions of individual industry operating rates in the rate for total industry for the most recent year are shown in the first column of table 3.

Perspective. The historical highs and lows in capacity utilization shown in the tables above are specific to each series and did not all occur in the same month. 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.

References. The basic methodology used to estimate capacity and utilization is discussed in the *Federal Reserve Bulletin*, vol. 71 (October 1985), pp. 754-66. The 1990 and 1993 revisions were described in the *Federal Reserve Bulletin*, vol. 76 (June 1990), pp. 412-35 and vol. 79 (June 1993), pp. 590-605, respectively. Two revisions were published in 1994 and were described in the *Federal Reserve Bulletin*, vol. 80 (March 1994), pp. 220-6 and vol. 81 (January 1995), pp. 16-26. The annual revision published in November 1995 was described in the *Federal Reserve Bulletin*, vol. 82 (January 1996), pp. 16-25.

Electric Power

Data on electric power (expressed in kilowatt hours) are collected by the Federal Reserve District Banks from electric utilities and also from manufacturing and mining establishments that generate electric power for their own use (cogenerators). The indexes of power use shown in table 9 are sums of kilowatt hours used by an industry or industry group expressed as a percentage of that industry's or group's usage in 1987. The first column of the table shows, for reference, electric power use in billions of kilowatt hours as reported by manufacturing and mining industries in the 1987 censuses of those industries. The supplementary group, "Total, less nuclear nondefense," is shown separately because the value-added proportion for the nondefense nuclear material series (part of SIC 2819) in total IP is considerably smaller than its share of total electric power use. Excluding this component from total power use facilitates comparisons with total IP.

Release Schedule for 1996

At 9:15 a.m. on January 24, February 16, March 15, April 16, May 15, June 14, July 16, August 15, September 17, October 17, November 15, and December 16.